NEW SERIES (MONTHLY) VOL. XXV

APR 15 1964
WEATHER BUREAU

PART I

MAURITIUS.

ROYAL ALFRED OBSERVATORY.

LATITUDE $20^{\circ}5'39''$ S. - LONGITUDE $3^{h}50^{m}12^{s}6$

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

FOR THE YEAR 1939

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

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P R E F A C E

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

(i) All hourly values, with the exceptions of those of wind velocity, rainfall, sunshine and potential gradient, 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; the hourly values of sunshine give the total amount of sunshine during one hour ending at the hour denoted, the hours being reckoned from apparent midnight; the hourly values of rainfall give the total rainfall during one hour ending at the hour denoted; the hourly values of potential gradient are mean values for one hour centred at the given hour.

(ii) All times refer to the Civil Day counting from 0^h to 24^h. (midnight) in Mauritius Standard Time, 4 hours fast on Greenwich Mean Time with the exceptions of (a) sunshine, as noted in (i), (b) the table of Mean Monthly Atmospheric Potential Gradient which appears in the December Bulletin, in which Greenwich Mean Time is used.

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

$$x = \left(\frac{x_0 + x_{24}}{2} + x_1 + x_2 \cdots\cdots\cdots x_{23}\right) \div 24,$$

From January 1936 the numerical magnetic character for each day is given in this table in columns 7 and 8 in the form HR_H : 10,000 and ZR_Z : 10,000.

(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 one day seldom exceeds 0.2^0C.

(v) Table VI - Results of Meteorological Observations made 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 temperatures given in columns 10 - 16 are obtained from autographic records.

The normal values of the meteorological elements used in this table are derived from the observations taken over a 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 dew-point, 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 M.O. Publication No 265, "Hygrometric Tables", 3rd edition and are not the means of twenty-four hourly values. Previously they were computed from tables based on Glaishers, "Hygrometrical Tables".

The amount of rainfall in column 15 refers to the Civil Day counting from 0^h to 24^h. It is measured with a Beckley self-recording gauge; diameter of rim 11.283 inches, height above ground 23 inches and situated 50 yards to the south-east of the main building.

The amount of evaporation in column 17 is obtained from the readings of a Negretti and Zambra evaporometer, which consists of a cylindrical brass vessel 8 inches in diameter and 4 inches depth. The amount of water in the vessel is measured at 12h and is recorded to the day on which it is measured. The evaporation, therefore, is that obtained during the 24 hours 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. From January 1934 the abbreviations used have the usual significations of Beaufort letters as given in the "Observers Handbook", 1926 edition.

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	- Air	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 & minimum	1891 - 1930
Humidity	- Relative	1891 - 1930
Rainfall (Beckley Gauge)	- Amount of	1888 - 1930
	- Duration of	1888 - 1930
Evaporation	- Amount of	1888 - 1930
Sunshine	- Duration of Bright	1887 - 1930
	- Percentage of possible	1887 - 1930
Cloud	- Amount of	1879 - 1930
Wind	- Velocity	1876 - 1930

NEW SERIES (MONTHLY) VOL. XXV PART I

MAURITIUS

ROYAL ALFRED OBSERVATORY

LATITUDE 20°51' 39"S. - LONGITUDE $3^h50^m12^s6$"

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

JANUARY, 1939

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

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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 has been and is still applied to low velocities. The correction varies 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.

Beginning with 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- Observations of Direction and Velocity of Clouds.

(viii) Table XIII- Wind Frequency. The practice of publishing hourly values of the North and East Wind Components, which appeared in previous years as Table XII, has been discontinued a table of the frequencies of wind directions and forces being substituted, commencing with January 1934.

(ix) Table XIVB.- Rainfall at every hour of the day at the Aerological Station, Vacoas. A new recording raingauge by Casella was brought into use on 7.6.35 and this table gives the hourly rainfall. Details of the instrument are given in the Annual Report for 1935, para.5.

(x) 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 the Beckley Gauge. From 1871 - 1874 the observations were taken at a site about 1½ miles from that of the Beckley 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. A comparison has shewn that owing to being in an inferior exposure the rainfall recorded by the Glaisher Gauge is in the mean 1% less than that recorded by the Beckley Gauge, the percentage deficit varying during the year between 0.6% and 2.7%.

For the stations marked with an asterisk a day with 0.1 mm. or more is a rain day, for the others the amount is 0.01 in., or more.

I. - RESULTS OF MAGNETICAL OBSERVATIONS made during the MONTH OF JANUARY, 1939

Month and Day. 1939	Mean Declination (West).	Mean Horizontal Force. (C.G.S.) (Units)	Mean Vertical Force. (C.G.S.) (Units.)	Daily Range + Declination	Horizontal Force. (Unit 1)	Vertical Force. (Unit 1)	HRH: 10000	ZRZ: 10000
Feb.								
1	13°41.'3	.22492	.29862	6.8	54	18	121	54
2	42.1	485	858	5.5	54	27	121	81
3	42.2	491	858	6.0	53	26	119	78
4	41.4	496	859	8.5	59	21	133	63
5	41.7	496	858	14.0	53	28	119	84
5	41.3	488	858	13.0	51	33	115	99
7	42.6	486	861	11.5	24	24	54	72
8	41.9	487	863	18.0	61	24	137	72
9	42.7	473	864	9.0	35	19	79	57
10	42.7	463	861	14.2	42	42	94	125
11	44.2	484	861	16.4	68	43	153	128
12	42.8	480	857	[illegible]	18	63	40	188
13	42.7	496	851	17.3	74	59	167	176
14	42.1	487	858	13.0	52	37	117	111
15	42.4	477	857	11.5	25	44	56	131
16	41.7	482	851	7.0	40	37	90	110
17	42.7	464	859	8.2	37	16	83	48
18	42.6	469	857	8.5	24	21	54	63
19	42.5	471	852	8.0	21	31	47	95
20	42.7	470	855	8.7	18	27	40	80
21	42.9	458	854	10.3	42	28	94	83
22	42.3	470	853	17.5	38	42	85	125
23	42.8	460	854	13.5	35	28	79	83
24	42.4	471	845	14.7	42	53	94	158
25	42.4	473	845	14.0	38	38	85	113
26	42.3	481	842	13.3	50	47	112	140
27	42.2	486	838	14.0	35	46	79	137
28	42.1	492	842	15.0	43	35	97	104
29	42.5	478	842	11.4	28	29	63	86
30	42.3	484	842	11.0	45	28	101	83
31	42.8	477	840	9.2	34	34	76	101
Mean	13°42.'36	.2248	.29853	11.60'	41.7	33.8	93.7	100.9

Description of the Principal Magnetic Disturbances.

The month was very unusually quiet throughout.

There was not a single disturbed day during the month.

T = .37398 : Mean Dip = 53°0.'16 : (X = .21840: Y = -.05326: Z = .29853)

\+ 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, 1939

Declination (West)		Horizontal Force		Dip. (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	

NO RECORDS AVAILABLE

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

JANUARY, 1939

13° +

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	Day / Hour
Midnight	42.3	42.7	41.7	42.5	41.5	42.3	42.0	42.5	42.0	42.3	42.5	43.0	42.3	42.0	42.3	42.3	Midnight
1h	42.7	43.0	42.3	42.7	42.0	41.3	41.7	42.0	42.5	42.0	43.0	42.0	42.3	42.2	42.5	42.5	1h
2	43.3	43.3	42.5	42.7	42.5	40.7	41.0	42.5	42.5	41.5	42.7	41.3	42.0	42.5	42.7	42.7	2
3	43.0	43.5	42.7	43.0	43.7	42.0	42.5	43.0	42.7	42.0	43.0	41.5	42.2	41.5	43.5	43.0	3
4	43.0	43.7	43.5	43.0	43.7	43.0	43.0	43.5	42.7	42.7	43.5	42.0	42.5	41.5	43.5	43.5	4
5	43.7	43.8	44.0	43.8	45.0	44.0	44.0	44.5	43.5	43.5	46.0	42.7	43.0	41.7	43.5	43.0	5
6	43.0	44.3	44.3	44.0	47.5	44.7	45.0	45.0	44.5	44.5	47.0	44.0	44.0	44.0	43.7	43.0	6
7	42.5	43.5	44.0	45.0	49.5	47.0	47.7	47.5	47.0	47.5	50.0	45.0	47.0	47.0	46.0	44.0	7
8	43.0	42.3	44.0	44.0	49.5	48.0	49.0	49.0	47.5	50.7	52.0	41.0	50.0	49.5	48.0	45.0	8
9	44.0	42.7	45.5	44.3	45.0	47.3	48.0	48.0	47.0	50.5	52.7	54.5	53.0	47.0	47.5	45.0	9
10	44.3	44.0	45.5	43.0	43.0	45.0	46.0	44.0	45.5	47.3	52.0	53.0	52.5	45.0	46.7	43.5	10
11	41.0	44.5	44.0	39.5	39.0	38.0	41.5	37.0	41.5	44.0	49.0	49.0	47.0	42.0	44.0	42.5	11
Noon	38.0	42.5	41.5	37.0	38.5	35.5	38.0	32.0	38.5	40.0	45.5	43.0	43.0	40.7	42.3	40.0	Noon
13	37.5	40.5	40.3	36.5	35.5	35.5	37.5	31.0	38.5	38.0	40.5	38.5	40.0	39.5	41.0	38.5	13
14	37.5	39.5	40.3	37.0	35.5	35.5	38.5	32.0	39.0	37.3	39.5	36.3	36.5	39.0	40.0	37.7	14
15	37.7	39.7	40.0	39.3	35.7	35.0	40.0	36.0	39.0	36.5	36.5	36.3	35.7	36.5	38.0	38.0	15
16	38.0	39.[illegible]	39.5	39.5	37.0	37.0	41.0	40.5	39.5	38.0	36.3	38.5	35.7	37.3	36.5	38.5	16
17	38.5	39.3	40.0	40.7	39.7	39.5	42.3	43.0	41.5	41.0	40.0	41.0	38.0	40.0	37.5	39.7	17
18	39.5	40.0	40.5	40.5	40.5	40.5	42.3	44.0	42.5	42.3	42.0	43.0	40.5	41.5	40.0	40.5	18
19	40.5	41.5	40.7	40.7	40.5	40.5	42.0	43.5	42.7	42.0	43.3	42.5	41.0	42.3	41.0	41.0	19
20	41.0	41.5	40.7	41.0	41.0	41.5	42.3	43.3	43.0	42.3	43.5	42.3	41.3	41.3	41.3	41.0	20
21	41.7	41.3	41.0	41.3	41.5	42.7	42.0	43.5	43.5	42.5	44.0	42.3	41.5	41.5	41.7	41.5	21
22	42.0	41.7	41.8	41.5	41.7	42.5	42.0	44.0	43.7	42.5	43.5	42.7	42.0	42.0	42.5	41.7	22
23	42.5	42.0	42.3	41.8	42.5	42.3	42.5	43.7	44.0	43.0	43.0	42.7	42.5	42.3	42.3	42.7	23

13° +

Hour \ Day	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d	Mean	Day / Hour
Midnight	43.0	43.0	42.7	43.0	42.5	42.0	42.5	42.7	42.5	42.3	42.3	42.3	43.0	43.0	42.5	42.4	Midnight
1h	42.5	43.5	43.0	4[illegible].3	42.7	42.3	42.3	42.5	42.3	42.5	42.3	42.3	42.3	42.5	42.7	42.4	1h
2	43.5	43.5	43.5	4[illegible].5	43.0	42.7	43.0	42.5	42.3	42.7	42.2	42.3	42.5	42.3	43.0	42.5	2
3	43.7	43.5	43.5	42.5	43.5	43.0	42.5	43.0	42.7	43.0	42.5	42.5	42.0	42.7	43.0	42.8	3
4	44.3	43.3	43.5	45.5	44.5	44.0	42.7	43.3	43.0	43.5	42.7	42.5	42.0	43.0	43.3	43.2	4
5	45.7	43.0	43.7	45.5	44.7	44.7	44.5	44.0	43.0	43.5	43.0	43.0	43.0	43.5	43.7	43.8	5
6	44.5	43.5	44.0	45.5	46.0	45.5	45.0	44.5	43.5	44.0	43.3	43.0	44.0	44.3	44.0	44.4	6
7	45.5	45.0	45.5	45.3	48.5	48.5	47.0	46.0	45.0	45.0	44.5	43.0	45.0	44.3	45.0	45.9	7
8	44.3	46.0	46.3	47.0	49.3	50.7	50.0	48.5	48.0	50.0	47.0	43.0	47.0	45.0	45.0	47.1	8
9	43.0	46.0	44.5	47.7	47.5	51.0	50.0	50.0	51.0	50.3	50.0	46.0	48.7	46.7	46.5	47.8	9
10	42.7	45.0	43.7	45.0	46.0	48.0	46.0	49.5	49.0	48.0	49.7	49.0	48.0	46.7	46.7	46.6	10
11	44.0	43.7	43.5	41.5	42.0	41.0	42.0	46.5	44.0	45.0	45.5	49.3	44.5	46.3	46.0	43.5	11
Noon	44.0	43.5	43.0	40.0	40.0	36.0	40.0	41.5	40.0	41.0	44.5	46.7	43.0	45.0	45.0	40.9	Noon
13	42.5	42.0	40.5	39.0	38.0	33.5	37.5	37.0	36.5	37.0	39.5	41.0	41.5	40.5	44.0	38.7	13
14	39.5	39.5	39.7	39.0	39.0	34.5	36.5	35.3	35.0	35.5	37.3	37.0	39.3	36.5	42.0	37.6	14
15	37.5	37.5	38.5	39.5	39.3	35.5	38.7	35.3	37.0	35.0	36.0	34.3	37.5	35.7	39.0	37.3	15
16	38.0	38.5	38.3	39.7	40.0	38.3	40.0	36.0	39.3	36.5	36.0	34.7	37.3	36.7	37.5	38.0	16
17	41.5	40.0	39.5	40.7	40.7	41.0	41.5	38.0	42.0	39.5	38.0	37.5	38.7	40.0	38.5	40.0	17
18	42.5	41.0	41.0	41.7	42.0	42.0	42.0	40.0	42.3	41.3	39.0	39.7	40.0	41.0	39.5	41.1	18
19	42.0	42.0	42.0	41.0	41.5	42.0	42.7	41.5	41.7	42.0	40.7	41.0	41.0	41.5	41.0	41.6	19
20	42.0	42.5	42.0	41.5	41.5	41.5	42.5	42.0	41.0	41.5	41.0	41.3	41.5	41.7	41.3	41.7	20
21	42.5	42.5	42.0	42.0	42.0	41.5	42.5	42.7	42.0	42.0	41.7	42.5	42.0	42.3	41.7	42.1	21
22	42.7	42.5	42.3	42.7	43.5	42.0	42.5	42.7	42.5	42.0	42.3	43.3	42.5	42.5	42.3	42.5	22
23	43.0	42.5	42.7	42.5	43.0	43.5	42.7	42.7	42.5	42.3	42.5	43.0	42.7	42.7	43.0	42.7	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)

JANUARY, 1939.

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

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	Hour \ Day
Midnight	475	477	490	482	497	477	472	477	475	467	470	470	488	483	478	472	Midnight
1h	477	474	492	483	500	490	488	485	475	469	475	482	482	488	480	473	1h
2	474	474	492	482	505	495	493	482	472	484	477	478	483	488	487	473	2
3	482	477	490	482	507	493	490	478	473	474	476	479	483	488	472	470	3
4	487	477	486	483	500	487	487	483	482	474	476	477	484	489	472	468	4
5	488	477	481	488	510	487	490	480	480	475	476	482	486	493	475	472	5
6	496	478	492	490	523	487	490	481	481	476	483	487	487	500	477	473	6
7	517	485	508	500	522	491	496	490	490	466	500	484	492	505	472	478	7
8	524	498	522	514	522	492	492	517	492	457	510	470	502	510	475	483	8
9	524	513	525	528	519	503	496	524	491	442	525	470	525	488	480	486	9
10	523	517	520	539	512	513	494	525	485	448	530	476	538	490	483	492	10
11	512	510	507	535	510	510	484	500	475	452	523	480	554	493	487	500	11
Noon	503	513	495	520	495	507	482	498	470	494	502	478	532	494	477	508	Noon
13	520	500	487	503	495	507	488	502	458	452	494	483	516	488	463	495	13
14	520	500	484	498	495	503	482	506	462	470	485	488	486	482	469	496	14
15	496	470	477	496	494	484	483	488	457	472	480	488	488	490	488	495	15
16	478	463	472	493	486	477	481	482	460	460	470	482	495	490	493	493	16
17	472	470	480	490	480	484	480	478	466	445	467	480	412	489	487	482	17
18	470	475	482	485	480	482	483	476	464	452	467	468	490	480	476	488	18
19	474	474	480	480	480	480	484	472	466	460	467	480	486	470	468	482	19
20	473	470	480	480	470	475	483	470	467	462	466	480	482	458	470	480	20
21	478	476	480	480	471	468	483	467	470	470	462	482	480	472	472	472	21
22	478	480	480	482	472	462	483	464	470	472	463	480	482	475	474	475	22
23	476	478	482	482	470	470	483	464	473	470	466	482	482	477	473	472	23

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

Hour \ Day	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d	Mean	Hour \ Day
Midnight	472	459	462	470	452	450	458	448	460	462	473	478	469	467	475	471	Midnight
1h	475	458	465	461	457	453	464	455	460	462	474	480	470	468	477	474	1h
2	462	465	468	472	460	458	460	460	463	467	475	480	470	470	480	476	2
3	472	463	470	480	462	463	467	462	468	468	478	483	479	471	480	477	3
4	470	473	468	472	460	466	469	465	465	468	481	483	477	472	480	477	4
5	466	472	470	470	467	468	466	468	472	469	483	485	470	477	480	478	5
6	477	464	470	475	462	467	468	471	475	472	483	488	470	480	480	481	6
7	475	468	468	477	462	467	473	478	473	482	490	502	479	488	483	486	7
8	474	469	469	472	468	466	470	482	472	482	490	504	486	493	489	489	8
9	478	470	472	468	470	470	468	478	472	485	485	505	487	497	490	491	9
10	479	477	477	468	480	480	478	480	474	502	485	508	487	500	492	495	10
11	472	482	475	478	470	483	472	485	490	512	508	510	486	505	489	495	11
Noon	459	482	472	476	458	488	470	490	498	508	506	510	487	510	489	491	Noon
13	468	480	483	472	451	488	458	490	492	500	505	508	497	508	480	488	13
14	467	480	480	472	450	487	448	486	490	490	495	507	493	508	475	486	14
15	454	480	474	473	454	478	450	478	476	493	490	507	487	502	476	481	15
16	442	478	480	473	462	474	458	473	472	495	490	506	482	496	474	478	16
17	444	471	472	471	468	470	467	470	476	490	486	496	480	486	474	476	17
18	450	467	472	464	453	464	457	462	472	480	486	490	475	475	470	473	18
19	454	462	468	462	438	470	443	461	468	472	480	485	472	462	462	470	19
20	457	460	467	466	450	470	443	461	467	470	480	483	470	465	458	469	20
21	460	462	462	468	442	467	445	461	466	473	482	473	470	467	462	469	21
22	462	462	468	469	438	468	454	462	467	473	482	474	470	467	463	470	22
23	458	462	469	462	450	460	453	462	464	473	483	467	469	472	464	470	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 1939

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	861	865	862	862	862	863	863	864	866	865	867	864	862	861	862	859	Midnight
1h	863	865	862	862	862	863	862	863	864	865	867	863	863	861	861	860	1
2	863	865	862	862	862	861	858	863	865	863	867	863	863	862	862	861	2
3	863	865	862	862	862	862	862	863	865	864	867	863	863	862	862	862	3
4	863	866	864	863	863	863	862	865	864	865	867	863	863	863	863	862	4
5	863	866	866	863	864	866	864	866	865	866	868	865	864	863	863	862	5
6	861	866	866	863	868	868	867	867	867	867	871	867	866	866	863	862	6
7	858	863	863	863	867	870	872	868	871	873	875	873	871	872	871	863	7
8	861	859	863	863	860	869	873	867	871	879	878	884	876	873	877	864	8
9	865	861	868	863	856	865	871	864	869	875	874	883	869	862	875	863	9
10	863	863	867	859	853	856	860	854	863	856	866	864	850	853	858	847	10
11	850	859	860	848	840	840	849	845	853	844	855	845	825	847	848	838	11
Noon	848	853	849	843	840	837	849	846	852	837	846	828	817	847	847	828	Noon
13	855	850	843	847	847	846	853	849	859	838	843	821	817	845	845	827	13
14	862	843	842	849	847	850	854	858	862	841	835	826	819	842	838	830	14
15	864	839	843	853	849	850	856	863	859	847	836	834	821	836	833	832	15
16	863	839	846	856	852	853	857	869	863	861	848	843	830	843	836	837	16
17	863	846	849	862	857	856	859	873	866	870	863	856	843	854	847	845	17
18	864	852	851	859	860	857	858	868	864	866	864	864	853	862	856	850	18
19	865	858	856	862	859	858	858	863	863	863	863	862	856	862	860	852	19
20	864	860	859	862	861	859	859	863	863	864	863	859	857	861	858	852	20
21	865	860	861	863	863	863	862	864	865	865	863	861	859	861	859	854	21
22	866	861	862	862	863	863	863	867	866	866	865	862	861	861	860	857	22
23	866	862	862	864	864	863	863	867	867	866	864	862	861	862	860	858	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	859	860	857	857	857	859	857	857	851	850	847	845	847	845	846	858.1	Midnight
1	856	860	857	856	857	858	856	857	850	850	846	845	847	845	846	858	1
2	860	860	857	855	856	857	856	855	850	848	846	844	848	846	847	858	2
3	861	861	856	856	855	857	854	854	848	848	845	844	847	846	847	858	3
4	861	859	857	856	857	857	853	853	848	848	845	844	847	846	847	858	4
5	863	860	857	857	857	857	852	853	849	848	845	843	848	846	847	859	5
6	862	862	859	857	858	859	855	853	849	848	846	843	849	846	847	860	6
7	859	863	862	860	862	866	862	856	854	855	848	843	850	846	849	862	7
8	857	862	862	866	868	872	869	859	861	860	855	847	852	845	853	865	8
9	853	860	858	867	863	867	862	862	857	852	860	853	850	847	853	863	9
10	857	857	852	862	853	852	841	855	843	842	847	857	843	844	845	854	10
11	866	854	854	855	840	832	843	842	826	830	826	852	830	843	837	844	11
Noon	863	857	855	852	843	830	847	819	823	818	820	839	828	837	834	840	Noon
13	859	852	847	846	843	832	844	811	829	813	818	828	825	827	833	839	13
14	852	846	837	840	843	841	846	809	834	816	814	823	823	819	828	838	14
15	850	842	830	843	843	846	849	819	842	823	816	822	828	823	819	839	15
16	855	845	835	846	844	849	851	828	849	833	823	827	835	834	821	844	16
17	863	852	842	852	849	853	852	839	853	843	829	837	843	845	829	851	17
18	862	857	849	854	855	854	853	845	850	847	834	842	843	847	834	854	18
19	860	858	852	856	856	853	857	849	847	847	839	843	843	847	839	855	19
20	859	859	853	855	856	853	857	850	848	843	841	843	843	845	841	855	20
21	860	859	856	856	858	854	858	850	851	847	842	843	844	846	842	857	21
22	860	859	857	857	862	856	858	851	852	847	843	846	846	846	842	858	22
23	860	859	857	857	860	859	858	852	852	847	843	847	846	847	843	858	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, 1939

Month and day 1939	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	964.2	26.5	5.7	17.5	58	20.0	CALM		6	20.4	25.2	24.7	19.7	27.3	18.6	8.7	39.8	250	5.3	40
2	965.6	26.6	5.0	18.9	63	21.8	20	0.9	10	19.5	23.7	20.6	20.0	27.4	18.6	8.8	3.1	80	4.8	36
3	966.4	26.6	5.5	18.0	59	20.6	CALM		9	18.3	25.5	22.3	20.5	27.4	17.6	9.8	5.6	45	6.1	46
4	966.1	26.5	6.0	16.9	56	19.2	CALM		1	18.5	25.5	28.5	22.5	29.9	18.1	11.8	0.0	0	9.9	74
5	966.3	26.3	4.9	18.6	63	21.4	55	2.7	8	21.5	25.6	28.4	22.6	29.0	20.5	8.5	1.1	15	7.3	55
6	967.3	24.4	3.3	19.2	73	22.2	50	3.6	7	21.0	24.0	26.2	21.0	27.5	20.8	6.7	1.1	10	12.1	92
7	967.7	24.2	2.8	19.8	76	23.1	CALM		9	21.3	23.5	25.5	21.7	27.3	20.0	7.3	2.8	45	6.1	46
8	966.6	25.1	4.3	18.4	67	21.2	80	3.1	9	20.7	24.0	27.0	22.0	27.0	19.6	7.4	1.5	20	10.9	83
9	966.6	25.3	4.7	17.8	63	20.4	90	4.5	2	21.4	23.9	27.1	21.2	27.5	20.3	7.2	0.9	5	11.1	84
10	966.8	25.5	4.1	19.1	68	22.1	90	2.7	6	20.2	22.7	25.9	21.7	27.4	20.2	7.2	2.2	25	10.7	81
11	966.9	26.0	4.5	19.0	65	22.0	80	2.7	4	20.2	23.7	25.8	21.1	27.5	20.2	7.3	0.8	10	11.3	86
12	966.5	25.4	4.9	17.7	63	20.3	80	1.8	3	19.0	24.7	25.5	21.4	28.4	18.9	9.5	0.1	0	5.7	43
13	965.5	25.3	3.4	20.1	73	23.5	100	2.7	7	20.2	23.7	24.3	21.4	28.5	20.2	8.3	0.0	0	6.3	48
14	965.1	25.9	3.0	21.4	76	25.5	70	1.3	7	20.6	24.7	24.7	22.4	28.0	20.6	7.4	0.2	5	7.8	59
15	965.6	26.0	4.0	19.9	69	23.2	70	3.1	9	20.2	24.7	26.7	22.7	28.5	21.8	6.7	0.0	0	9.4	71
16	964.8	26.1	3.8	20.3	70	23.8	45	3.6	6	22.2	24.6	27.5	22.2	28.6	21.7	6.9	0.0	0	9.0	68
17	964.4	25.3	3.4	20.1	73	23.5	45	2.7	4	21.4	24.2	23.1	21.2	27.6	20.9	6.7	0.0	0	4.3	33
18	964.5	26.9	6.0	17.4	56	19.9	45	0.9	5	20.0	24.7	25.1	21.1	28.2	19.0	9.2	6.9	50	7.5	57
19	965.2	26.1	6.4	15.7	53	17.8	CALM		6	19.2	24.4	23.1	21.7	28.4	19.0	9.4	3.9	40	5.7	44
20	964.5	25.7	4.7	18.3	64	21.0	CALM		8	19.2	24.4	22.3	20.8	26.7	18.4	8.3	25.2	115	5.0	38
21	963.7	25.5	4.1	19.2	68	22.2	70	0.9	10	20.2	23.7	22.2	20.2	27.4	29.6	7.8	39.8	155	4.0	30
22	964.6	25.0	3.0	20.4	76	24.0	45	1.3	10	20.0	22.2	25.6	22.7	26.8	19.6	7.2	2.7	25	2.3	18
23	966.6	22.8	1.3	20.8	88	24.6	45	6.3	10	21.3	20.7	26.2	21.4	27.1	19.2	7.9	17.4	115	6.5	50
24	966.3	25.0	4.5	17.9	65	20.5	70	4.9	5	21.2	23.4	26.0	21.2	26.7	20.6	6.1	0.0	0	11.0	84
25	964.6	24.3	3.3	19.1	7[illegible]	22.1	70	4.9	3	20.2	23.8	26.3	21.3	27.4	19.6	7.8	0.0	0	11.5	88
26	963.7	26.1	4.9	18.4	63	21.2	70	3.1	3	19.3	24.2	25.2	19.7	26.8	18.6	8.2	0.0	0	6.5	50
27	964.0	25.5	5.8	17.3	57	19.8	CALM		7	17.2	24.7	26.7	22.2	27.6	17.0	10.6	0.0	0	11.1	85
28	964.4	26.5	4.2	20.2	69	23.7	80	3.1	7	20.7	24.2	27.3	22.7	29.0	19.6	9.4	0.0	0	11.6	89
29	965.6	22.6	0.7	21.5	93	25.6	85	4.9	9	21.7	22.2	25.2	21.7	26.2	21.1	5.1	3.1	5	10.7	82
30	965.3	24.9	4.1	18.6	67	21.4	90	3.1	9	20.5	22.7	25.1	21.8	27.6	19.9	7.7	2.3	15	7.1	55
31	965.6	25.3	3.8	19.4	70	22.5	CALM		9	20.5	19.0	24.7	22.0	28.0	19.9	8.1	0.1	0	6.4	49
Mean	965.5	25.5	4.2	18.9	67.5	21.9		2.2	6.7	20.3	23.8	25.3	21.5	27.7	19.6	8.1	165.6	1015	7.90	60.1
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	+ 41.0 mbs	Amount of Rain	- 125.9 mms
Temperature of the Air	+ 3.2°C	Duration of Sunshine	+ 50.0 hrs
Vapour Pressure	+ 1.9 mbs	Mean of Maximun Temperatures	3.4°C
Relative Humidity	- 17.1 %	Mean of Minimum Temperatures	+ 2.3°C
Velocity of Wind	+ 1.6 m.p.s.	Absolute Maximum Temperature	+ 3.1°C
Amount of Cloud	- 0.5	Absolute Minimum Temperature	+ 1.7°C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF JANUARY, 1939

Month and Day 1939	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		
JAN	mbs	mbs	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms	min	mms	
1	1005.2	-1.3	31.6	20.0	11.6	25.6	-0.1	4.1	19.3	-1.8	68	- 8	22.4	17.2	0.0	...	8.7	4.0
2	1006.3	-0.1	32.4	21.1	11.3	26.2	-0.5	4.1	19.9	-1.2	68	- 8	23.2	19.2	0.0	...	8.1	5.5
3	1006.8	+0.5	32.0	20.7	11.3	25.4	-0.3	3.4	20.2	-0.9	72	-14	23.5	17.9	0.0	...	7.0	4.4
4	1006.9	+0.6	33.0	21.0	12.0	26.9	+1.1	4.5	19.6	-1.6	64	-12	22.8	19.0	0.0	...	7.4	5.2
5	1007.1	+0.9	32.3	23.0	9.3	27.1	+1.3	4.1	20.9	-0.5	69	- 8	24.7	21.0	0.4	20	9.0	6.8
6	1008.0	+1.8	30.3	23.0	7.3	26.1	+0.3	4.0	20.0	-1.4	69	- 8	23.4	22.2	1.2	85	8.5	4.8
7	1008.0	+1.9	30.9	22.1	8.8	26.0	+0.2	3.8	20.2	-1.2	71	- 6	23.7	20.1	0.8	50	9.0	4.0
8	1007.1	+1.1	30.2	22.7	7.5	25.8	+0.0	3.9	20.0	-1.5	70	- 7	23.4	21.7	0.2	5	8.4	6.0
9	1007.2	+1.3	30.4	22.4	8.0	25.7	-0.1	3.8	19.9	-1.6	70	- 7	23.2	20.7	0.0	...	8.2	5.0
10	1007.5	+1.6	31.1	19.7	11.4	25.9	0.0	4.2	19.5	-2.1	68	- 9	22.7	19.6	0.1	5	8.2	4.1
11	1007.6	+1.8	30.3	23.1	7.2	26.2	+0.3	4.4	19.9	-1.9	68	-10	23.2	21.5	0.0	...	8.5	4.7
12	1006.8	+1.1	31.2	20.8	10.4	25.9	0.0	4.3	19.3	-2.5	67	-11	22.4	18.0	0.7	30	9.1	4.9
13	1005.3	-0.3	31.1	21.8	9.3	26.0	+0.1	3.5	20.7	-1.1	73	-15	24.4	19.8	0.0	...	7.6	2.8
14	1005.5	0.0	31.7	23.0	8.7	26.9	+1.0	3.6	21.6	-0.2	73	- 5	25.8	21.6	0.0	...	10.5	3.6
15	1005.9	+0.4	31.0	24.2	6.8	27.0	+1.1	3.5	21.8	0.0	73	- 5	26.1	23.3	0.0	...	10.0	5.3
16	1005.2	-0.2	31.3	24.0	7.3	27.1	+1.2	3.7	21.6	-0.4	72	- 7	25.8	23.0	0.2	10	9.8	4.3
17	1004.7	-0.6	30.9	23.0	7.9	26.0	+0.1	3.6	20.6	-1.4	72	- 7	24.2	21.2	0.3	5	8.3	6.8
18	1005.2	0.0	32.8	21.1	11.7	25.9	0.0	3.7	20.3	-1.7	71	- 8	23.8	19.4	3.4	25	7.9	5.9
19	1005.7	-0.6	30.9	20.9	10.0	25.3	-0.7	2.8	21.1	-1.1	77	- 3	25.0	19.0	2.8	100	8.1	5.2
20	1004.9	-0.1	29.5	20.3	9.2	24.8	-1.2	2.5	21.0	-1.2	80	0	24.9	18.3	5.7	75	3.9	5.3
21	1004.0	-0.9	32.1	21.9	10.2	26.1	+0.1	3.1	21.5	-0.7	76	-14	25.6	20.2	0.5	40	4.3	8.8
22	1005.3	+0.4	30.2	22.6	7.6	26.1	+0.1	3.2	21.3	-0.9	75	- 5	25.3	21.1	2.7	55	6.6	9.5
23	1007.7	+2.9	29.1	21.2	7.9	25.4	-0.6	2.7	21.3	-0.9	78	- 2	25.3	21.0	13.6	290	6.3	7.1
24	1006.5	+1.7	29.5	22.6	6.9	25.7	-0.3	3.5	20.4	-1.9	73	- 7	24.0	21.5	1.1	65	7.8	3.6
25	1004.9	+0.1	30.1	21.9	8.2	25.7	-0.3	4.4	18.9	-3.4	66	-14	21.8	20.5	0.0	...	9.3	2.8
26	1004.6	-0.1	30.0	20.6	9.4	25.0	-1.0	3.8	19.1	-3.2	70	-10	22.1	18.7	0.0	...	9.2	4.3
27	1004.6	-0.1	32.3	18.7	13.6	25.4	-0.6	4.5	18.3	-4.0	65	-15	21.0	16.0	0.0	...	7.8	3.0
28	1005.0	+0.4	31.6	21.3	10.3	26.1	+0.1	3.4	21.0	-1.3	74	- 6	24.9	18.5	0.0	...	8.4	5.3
29	1005.6	+1.0	30.2	24.2	6.0	26.7	+0.8	4.3	20.2	-1.9	68	-12	23.7	23.5	0.0	...	7.1	4.4
30	1005.6	+1.0	30.9	23.0	7.9	26.2	+0.3	3.9	20.3	-1.8	70	-10	23.8	20.8	0.0	...	9.7	4.1
31	1006.1	+1.6	31.3	21.9	9.4	25.8	-0.1	3.3	20.9	-1.2	74	- 6	24.7	19.7	6.0	30	8.0	3.8
Mean	1006.0	+0.6	31.1	21.9	9.2	26.0	+0.1	3.7	20.3	-1.5	71.1	-7.4	23.9	20.2	Sum 39.7	Sum 890	8.1	5.0
Average	1005.4	...	29.8	22.6	7.2	25.9	...	2.7	21.8	...	78.5	...	26.1	20.4	215.4	1959	5.9	6.1
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 January 1939

This month saw the prolongation with considerable intensification of the markedly dry conditions of the previous month.

On the whole pressure was more frequently above normal than otherwise; two main anticyclonic periods were noticed between the 4th and the 12th and again from the 22nd to the 25th.

Temperature was more frequently above average while humidity remained constantly below normal throughout the month with very important departures at times. Rainfall amounted to only 19% of the normal. The excesses of evaporation and sunshine were remarkable; evaporation was about 37% in excess of the normal value while sunshine was in excess by 13½% of the possible sunshine for the month.

TABLE VII (Contd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF JANUARY, 1939

Month and Day 1939	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
JAN	hrs.	%	m.p.s	m.p.s	°C	°C	°C	°C	0h 3h 6h 9h 12h 15h 18h 21h 24h
1	9.6	72	2.0	-1.3	24.6	25.9	28.0	29.0	bo b bc c bc
2	9.1	68	2.3	-1.0	24.9	26.1	28.1	29.2	bc c bc b
3	9.5	71	2.0	-1.2	24.6	26.0	28.3	29.1	b bc bcq bc b
4	11.8	89	2.1	-1.2	24.6	25.9	28.3	29.1	bc b
5	9.5	71	2.9	-0.5	24.6	26.0	28.5	29.8	b bc c oro
6	12.5	95	3.2	-0.2	24.7	26.1	28.7	30.2	oro bcro bc b
7	9.7	73	2.7	-0.7	24.7	26.1	28.8	30.0	bdo bc b bc bcro
8	10.4	79	3.0	-0.4	24.7	26.1	29.0	30.1	c bc c bc bcro b
9	9.8	74	3.5	+0.1	24.7	26.2	29.1	29.9	bc b
10	10.2	77	3.3	-0.1	24.7	26.2	29.0	29.8	b bc bcdo bc b
11	12.6	95	3.0	-0.4	24.7	26.3	29.0	29.9	bc b
12	7.3	55	2.6	-0.8	24.7	26.3	29.1	29.9	b bc o c bdo
13	11.7	89	2.9	-0.5	24.7	26.3	29.1	30.0	b bc b
14	12.1	92	3.2	-0.2	24.7	26.3	29.2	30.4	b bc b
15	10.8	82	3.6	+0.2	24.7	26.4	29.3	30.9	bc c bc
16	11.4	86	3.3	-0.1	24.7	26.4	29.6	31.1	bcdo bc b
17	5.1	39	2.2	-1.2	24.7	26.4	29.7	31.2	bc c bc cqdo bc c bc
18	9.2	70	1.8	-1.6	24.7	26.4	29.8	30.7	bc bcq cqro bc
19	6.4	49	1.9	-1.5	24.7	26.5	29.8	30.4	b bc c cqroro bc b
20	5.4	41	1.8	-1.6	24.7	26.6	29.6	29.7	b bc cqroro cro bc
21	5.9	45	2.0	-1.4	24.7	26.7	29.4	29.0	c bc c o oro
22	4.2	32	2.3	-1.1	24.7	26.7	29.3	29.3	oro o c o
23	5.6	43	4.4	+1.0	24.7	26.7	29.2	29.2	ororo o bc bcroro
24	12.4	95	3.5	+0.1	24.7	26.8	29.1	29.1	bcro bc b
25	12.3	94	3.2	-0.2	24.7	26.8	29.0	29.2	b bc b
26	10.9	84	2.9	-0.5	24.9	26.8	29.0	29.5	b bc b
27	10.9	84	2.2	-1.2	24.7	26.8	29.0	29.3	bo b bc b
28	8.8	68	3.1	-0.3	24.8	26.8	29.0	29.6	b bc c bc
29	11.6	89	4.4	+1.0	24.9	26.8	29.0	29.4	bc bcqn bcq bc b
30	8.9	68	2.9	-0.5	24.9	26.8	29.1	29.6	bc b bc bcq bc b
31	9.4	72	2.3	-1.1	24.8	26.9	29.1	29.6	b bdo bc bcq cro bc b
Mean	9.52	72.3	2.79	-0.60	24.72	26.42	29.04	29.78	
Average	7.73	58.8	3.39	...	24.84	26.36	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, 1939

Element	Highest	hrs	Date	Lowest		Date
Atmospheric Pressure	1009.6mbs at	21.00	on 6th	1002.2mbs	at 15.00hrs	on 21st
Temperature of the Air	33.0°C at	13.25	on 4th	18.7°C	at 05.45hrs	on 27th
Daily Range of Temperature of the Air	13.6°C		on 27th	6.0°C		on 29th
Temperature of the Dew Point	23.6°C at	16.00	on 19th	15.8°C	at 14.00hrs	on 25th
Daily Range of Temperature of the Dew Point	5.9°C		on 18th	1.7°C		on 30th
Minimum on Grass				16.0°C		on 27th
Relative Humidity	97.2% at	05.00	on 23rd	43.7%	at 13.00hrs	on 27th
Vapour Pressure	29.1mbs at	16.00	on 19th	17.9mbs	at 14.00hrs	on 25th
Evaporation in 24 hrs.	10.5mms		on 14th	3.9mms		on 28th
Wind Velocity	7.6mps at	10.00	on 29th	0.6mps		often
Rainfall in 24 hrs	14.5mms ending 01 hr		on 24th			
Duration of sunshine	12.6hrs		on 11th	4.2hrs		on 22nd
Mean day Temperature of Air	28.38°C	Mean Night Temperature of Air 23.62°C.				

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1-3	4 - 6	7 - 9	10	Rainfall: 0.1 - 9.9 mms	1.0 - 4.9 mms	5.0 - 9.9 mms	10.0 - 24.9 mms	25.0 & over mms	Lightning	Thunderstorm
...	3	23	5	...	8	5	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)

JANUARY, 1939

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	059	063	070	072	079	081	091	080	076	072	080	075	070	060	062	065	Midnight
1	051	060	062	066	070	077	085	071	070	070	076	071	063	051	054	060	1
2	050	053	059	063	066	052	084	069	069	069	071	070	060	049	051	052	2
3	048	051	053	062	062	071	081	069	067	069	070	066	057	048	051	048	3
4	049	050	053	063	061	071	080	070	071	070	076	069	058	050	053	041	4
5	050	057	060	064	069	075	081	071	073	072	079	071	061	053	059	048	5
6	052	063	069	071	071	080	087	075	079	080	081	074	064	060	066	055	6
7	056	069	054	078	072	086	090	080	080	082	081	077	066	062	070	060	7
8	058	070	078	076	080	084	090	079	080	080	084	072	064	062	070	061	8
9	054	070	079	074	078	084	090	076	078	080	081	071	061	061	068	063	9
10	051	070	079	071	072	086	087	073	072	080	080	070	053	060	070	060	10
11	050	066	071	070	071	086	083	071	071	075	076	067	048	056	070	056	11
Noon	045	061	070	069	070	081	080	067	070	071	071	061	042	051	065	053	Noon
13	042	060	069	067	069	078	074	064	064	066	068	060	041	047	059	049	13
14	038	055	066	061	064	051	071	060	062	062	064	056	037	042	050	041	14
15	037	053	064	057	060	070	067	057	061	060	062	051	031	040	041	036	15
16	040	055	061	056	060	060	065	058	061	062	061	051	030	041	040	033	16
17	042	059	061	060	061	072	069	061	062	069	068	056	035	043	042	040	17
18	050	061	061	061	067	078	072	069	070	076	076	063	043	050	049	042	18
19	056	066	067	070	071	083	075	073	076	081	086	072	053	058	060	051	19
20	061	070	072	072	078	086	080	079	079	089	090	075	060	062	063	059	20
21	068	071	079	078	080	090	081	080	080	088	090	077	060	066	070	060	21
22	070	073	080	080	084	096	083	081	080	089	086	076	062	070	070	061	22
23	068	072	079	081	083	094	083	080	079	084	081	075	061	066	070	061	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	055	051	058	061	051	053	073	082	061	050	050	056	057	066	062	066	Midnight
1	049	049	054	059	049	049	070	077	057	048	048	052	050	061	060	061	1
2	043	042	051	054	043	041	064	073	055	046	046	050	046	058	057	057	2
3	040	042	049	052	041	040	065	069	050	041	041	046	043	051	054	055	3
4	040	043	050	051	040	041	070	068	050	041	041	042	046	052	055	055	4
5	043	049	052	050	040	046	080	070	051	043	043	046	050	055	055	059	5
6	049	059	060	052	041	047	083	074	056	046	046	050	057	060	060	063	6
7	052	061	063	056	046	052	090	078	060	048	048	056	060	063	063	067	7
8	051	062	064	058	049	054	091	078	060	050	050	058	061	068	066	068	8
9	051	061	065	055	045	060	091	076	058	051	051	057	061	066	067	067	9
10	051	056	060	051	042	057	088	071	056	050	050	054	061	061	064	065	10
11	050	051	058	046	040	056	080	069	053	050	050	051	060	060	062	062	11
Noon	046	050	056	041	033	051	079	061	051	046	046	049	056	052	059	058	Noon
13	041	048	051	040	030	050	070	054	045	042	042	043	054	050	053	055	13
14	031	041	050	039	023	043	064	050	040	038	038	041	050	046	051	050	14
15	030	040	049	036	022	041	061	045	032	030	030	039	050	041	050	047	15
16	030	041	049	033	023	043	061	043	030	030	030	038	049	041	050	046	16
17	034	045	049	036	025	049	062	049	032	032	032	039	050	046	054	049	17
18	041	050	051	040	031	058	070	052	039	040	040	044	051	050	060	055	18
19	050	057	056	045	041	060	077	060	044	046	046	051	060	057	064	062	19
20	056	060	061	051	049	066	081	068	049	050	050	055	064	060	070	067	20
21	061	061	066	056	052	072	087	071	052	054	054	064	[illegible]	[illegible]	073	070	21
22	066	061	050	060	059	073	090	072	054	061	061	060	072	064	076	072	22
23	061	060	069	057	056	074	086	069	052	060	060	059	072	062	075	071	23

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

Hour \ Day	JANUARY, 1939																															
	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	5	3	6	3	10	1	8	5	3	5	2	4	1	3	7	3	5	3	1	8	10	10	5	0	1	0	3	5	3	1	4.0
1	0	5	3	7	3	10	1	9	5	5	5	1	4	1	3	8	5	5	3	1	9	10	10	5	0	2	0	3	6	4	1	4.3
2	0	4	2	7	2	10	1	9	7	4	6	2	1	2	4	6	6	6	2	1	8	10	10	3	1	2	0	3	7	6	1	4.3
3	0	4	1	8	2	10	1	8	8	3	8	3	1	2	5	5	8	4	2	1	9	10	10	2	3	3	0	2	6	3	1	4.3
4	0	4	3	9	2	9	1	9	8	3	9	4	1	2	5	5	8	4	2	1	9	10	10	1	3	3	1	2	6	3	1	4.5
5	1	5	2	7	5	7	8	5	3	4	5	9	1	3	5	6	8	4	2	1	8	10	10	5	2	3	1	2	5	2	2	4.5
6	1	5	1	6	5	5	7	3	3	5	3	7	1	4	4	5	8	4	2	1	8	10	10	5	2	4	2	2	5	3	2	4.3
7	1	6	4	5	7	4	6	4	6	4	4	6	3	4	4	5	5	6	6	2	9	10	10	5	2	4	1	4	5	4	3	4.9
8	2	6	5	2	8	3	5	5	7	4	4	5	4	5	5	5	6	6	8	3	9	10	10	5	3	5	1	5	5	6	4	5.4
9	3	6	6	3	8	4	6	5	8	4	5	4	6	6	5	6	8	5	8	3	10	10	10	7	5	5	1	6	5	6	5	5.8
10	5	7	7	5	8	5	6	8	6	6	5	4	5	5	6	6	8	5	8	7	8	9	10	6	5	6	4	6	6	6	5	6.2
11	5	7	7	5	8	6	5	8	4	4	5	4	5	5	7	4	8	5	8	7	6	9	9	6	3	6	4	8	7	8	5	6.1
Noon	5	7	6	5	7	7	4	8	6	7	6	4	5	5	7	4	7	5	9	7	7	9	8	6	2	5	4	8	7	6	4	6.0
13	5	7	6	5	7	6	3	8	6	6	5	4	4	4	8	4	7	6	8	8	7	8	7	4	2	6	4	8	5	7	4	5.8
14	5	7	7	5	8	5	3	7	6	6	5	6	3	4	9	4	7	7	8	9	8	8	3	3	2	7	4	8	4	5	6	5.8
15	5	8	7	5	8	4	3	8	6	6	6	7	4	5	7	4	7	8	9	9	9	8	3	3	4	8	4	8	4	5	6	6.1
16	6	8	7	7	7	4	4	7	5	7	5	9	3	6	7	5	8	8	9	9	9	9	4	3	4	7	6	7	5	5	7	6.4
17	7	8	7	7	8	3	4	6	6	5	5	8	3	6	6	4	8	9	9	9	10	9	5	4	4	7	8	5	3	5	8	6.3
18	8	9	7	6	8	2	4	4	5	3	5	10	3	3	5	4	8	9	9	9	10	9	6	4	4	7	6	6	3	5	8	6.1
19	8	5	4	3	8	1	4	3	3	2	4	8	2	2	5	3	6	8	3	8	10	10	6	3	4	5	5	6	3	3	5	4.8
20	8	2	2	6	9	1	3	7	2	1	3	3	2	2	3	2	6	7	2	8	10	10	4	2	3	3	4	8	4	1	3	4.2
21	7	2	2	2	9	1	2	1	1	1	2	2	1	2	4	1	5	7	2	6	10	10	3	1	3	2	4	8	6	1	2	3.5
22	5	3	2	2	9	1	5	3	3	1	2	2	1	3	4	1	5	5	2	6	10	10	3	1	4	2	3	7	2	1	2	3.5
23	6	3	4	3	10	1	7	3	3	1	2	3	1	3	5	1	6	4	2	6	10	10	2	1	2	1	3	6	2	1	2	3.7

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

Hour Ending \ Day	JANUARY, 1939																															
	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	22	25	22	7	5	7	14	3	0	0	13	12	14	8	2	5	0	25	27	28	2	0	0	4	18	16	25	2	0	0	5	5.2
7	60	60	60	60	24	60	49	60	0	59	60	60	47	57	47	40	0	60	60	60	5	0	0	54	60	60	60	59	32	58	58	23.8
8	60	60	60	60	20	60	40	60	33	60	60	56	60	60	60	51	35	60	60	60	50	0	0	60	60	60	60	60	60	60	60	26.8
9	60	60	40	60	44	60	47	60	28	60	60	60	60	60	60	60	45	60	60	60	60	0	0	60	60	60	60	42	60	56	60	27.0
10	60	46	1	60	60	60	44	40	60	33	60	60	60	60	60	60	55	60	34	40	23	16	0	60	60	60	57	58	60	55	60	25.4
11	45	35	48	60	60	60	60	38	60	60	60	60	60	60	60	60	12	60	49	18	36	49	0	60	60	60	48	60	46	22	60	25.4
Noon	22	5	45	60	60	60	60	46	55	53	60	60	60	60	48	60	29	60	35	50	60	45	3	60	60	60	54	30	60	58	60	24.8
13	0	18	60	60	32	60	60	45	60	60	60	49	60	60	48	60	40	60	0	5	50	8	33	60	60	60	60	23	60	60	60	23.8
14	54	35	56	60	46	60	60	60	60	60	60	5	60	60	45	60	60	32	6	1	45	35	60	60	60	60	60	14	60	56	4	24.2
15	60	55	15	60	55	60	60	48	56	45	60	4	60	60	50	60	30	30	0	2	21	53	60	60	60	55	60	32	60	60	40	23.9
16	60	44	22	50	56	60	53	28	54	33	60	8	60	60	58	60	0	25	5	40	0	17	60	60	60	43	57	35	60	42	60	22.2
17	52	49	45	40	60	60	5	56	45	13	60	0	60	60	48	60	0	6	24	10	0	23	60	60	60	37	24	50	60	0	38	19.4
18	22	40	60	53	46	60	24	60	56	60	60	0	42	60	55	46	0	10	23	20	0	5	60	60	42	23	22	55	60	0	0	18.4
19	0	15	33	20	0	26	3	21	20	16	24	0	0	5	10	5	0	2	0	0	0	0	1	24	18	0	10	6	16	8	0	4.7

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, 1939.

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	22.9	2.3	23.3	2.2	21.8	1.9	21.8	1.8	23.3	2.2	24.2	1.2	23.1	2.4	23.8	1.7	Mid-night
1	22.2	2.1	22.9	2.0	21.5	1.6	21.3	1.4	23.9	2.2	23.9	1.1	22.8	2.3	23.6	1.6	1
2	21.4	2.2	22.9	1.9	21.1	1.4	21.1	1.4	24.1	2.1	24.0	1.1	23.0	1.8	23.6	1.6	2
3	21.0	1.5	22.8	1.9	21.1	1.3	21.2	1.3	24.1	2.2	24.0	1.2	23.0	1.1	23.9	1.8	3
4	20.6	1.6	22.0	1.8	20.9	1.6	21.9	1.7	23.3	2.1	23.8	1.3	22.5	1.3	23.2	1.6	4
5	20.1	1.4	21.3	1.3	20.8	1.5	21.9	1.8	23.0	1.9	23.9	1.8	22.3	1.2	23.0	2.0	5
6	20.2	1.3	22.2	1.2	21.1	1.1	21.2	1.3	24.1	2.1	23.9	1.8	22.2	1.2	22.8	2.5	6
7	23.7	1.7	26.2	3.4	24.5	2.4	24.0	2.7	25.9	2.9	25.3	2.5	24.6	2.5	24.9	3.0	7
8	26.9	4.2	27.7	7.1	26.9	3.8	27.7	4.8	27.2	4.1	26.3	3.6	26.0	3.0	26.7	4.5	8
9	28.5	6.1	29.0	6.0	29.3	5.3	29.4	6.2	28.0	4.7	27.7	4.8	27.4	4.4	27.4	5.2	9
10	29.5	6.6	29.5	6.4	27.8	4.3	31.1	7.4	29.7	6.1	28.7	5.6	27.9	4.9	27.7	5.6	10
11	30.2	7.4	30.8	7.6	29.6	7.4	32.1	8.0	30.3	6.7	29.2	5.9	29.0	5.8	28.3	6.0	11
Noon	28.8	6.2	29.8	6.5	29.0	4.8	32.1	7.9	31.1	7.1	29.8	6.5	29.7	6.6	28.1	5.3	Noon
13	29.6	7.0	29.3	5.8	31.0	6.7	32.2	7.6	30.4	7.2	30.0	7.5	30.1	7.1	29.3	7.4	13
14	30.9	7.9	31.2	6.9	30.0	6.0	31.8	7.2	30.9	6.6	29.7	7.0	30.1	7.1	29.9	7.7	14
15	30.3	6.4	31.5	7.3	28.5	5.3	31.6	7.2	31.0	7.0	29.4	7.0	30.1	7.7	28.8	6.1	15
16	29.6	6.6	31.6	7.4	27.0	4.2	31.0	6.7	31.1	7.0	28.8	6.4	29.8	7.1	28.0	5.9	16
17	28.3	5.2	27.0	4.7	28.2	5.0	30.2	6.2	31.1	7.1	27.9	6.4	28.2	6.0	27.6	5.7	17
18	27.1	4.8	27.0	4.8	28.6	5.5	30.0	6.0	29.0	5.0	27.0	5.9	27.9	5.2	27.0	5.1	18
19	25.3	3.6	26.6	4.4	26.9	4.1	28.4	4.7	27.1	4.0	25.5	4.5	26.2	4.2	25.8	4.3	19
20	24.8	3.7	25.1	3.2	25.2	3.2	27.2	4.1	26.2	2.4	24.8	3.8	25.2	3.2	24.3	2.8	20
21	24.5	3.4	24.0	3.0	24.0	2.7	25.8	3.5	25.5	2.2	23.9	3.0	24.9	2.9	23.4	2.2	21
22	24.5	2.6	23.2	2.3	23.0	2.1	24.7	2.7	25.2	2.5	23.2	2.7	23.6	1.6	23.4	2.3	22
23	24.0	2.7	22.2	2.1	22.3	1.7	23.9	2.4	24.3	1.4	23.0	2.7	23.8	1.5	24.0	2.4	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	Ex cess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	24.0	2.1	22.8	2.3	24.0	2.9	23.3	2.0	23.3	1.2	23.9	1.9	25.3	1.7	25.2	1.6	Mid-night
1	23.7	1.9	22.9	2.1	23.3	2.2	22.8	2.0	23.0	1.3	23.7	1.8	25.1	1.9	25.0	1.3	1
2	23.8	1.8	22.6	1.9	23.9	2.3	22.0	1.9	22.8	1.5	23.7	1.8	24.9	1.8	24.7	1.4	2
3	23.2	1.5	22.2	1.7	23.8	2.3	21.0	1.9	22.4	1.3	23.1	1.7	24.8	1.7	24.3	1.2	3
4	23.2	1.9	22.2	1.6	23.7	2.1	21.0	1.8	21.8	0.3	23.2	1.4	24.6	1.6	24.0	1.0	4
5	23.0	1.5	22.1	1.8	23.3	2.1	21.5	1.5	22.7	1.3	23.2	1.2	24.2	1.3	24.6	1.6	5
6	22.6	1.6	22.0	1.9	23.7	2.3	22.3	1.6	22.5	1.2	23.5	1.4	24.2	1.4	24.3	1.5	6
7	24.2	2.3	25.0	2.7	25.9	3.5	24.5	2.5	23.2	0.7	25.2	2.0	25.8	2.7	25.3	2.0	7
8	26.2	3.2	27.2	5.0	26.5	4.3	26.1	4.0	26.0	2.9	27.3	3.4	27.6	3.9	27.0	3.2	8
9	25.1	2.9	28.2	5.4	27.7	5.7	27.7	5.2	27.0	3.4	28.6	4.9	28.9	4.8	28.2	4.4	9
10	28.3	6.1	26.8	3.8	29.5	6.8	28.9	7.0	28.3	4.4	29.8	5.9	29.0	5.1	29.6	5.7	10
11	29.5	6.8	29.1	6.5	30.0	7.5	30.0	7.7	29.7	6.2	30.3	6.3	29.6	5.5	30.3	6.0	11
Noon	28.7	6.3	29.1	6.4	29.7	6.7	30.7	7.7	30.0	6.1	30.8	6.1	29.6	5.5	30.8	6.3	Noon
13	29.3	6.6	30.7	7.6	30.2	7.5	31.0	8.0	30.4	6.9	30.9	6.6	29.7	5.6	30.7	6.7	13
14	29.9	6.7	30.0	6.7	29.3	6.9	29.3	6.6	30.1	7.1	31.0	6.8	29.8	5.7	31.0	6.9	14
15	28.6	6.0	29.0	6.4	30.3	7.1	28.9	6.4	30.0	6.7	30.3	6.3	29.6	5.5	30.4	6.3	15
16	28.3	6.0	28.7	6.2	28.9	6.2	28.3	6.1	29.7	6.5	29.3	5.6	29.3	5.7	29.8	6.2	16
17	27.8	5.8	27.7	5.7	28.1	5.9	27.9	6.6	28.5	5.5	28.9	5.7	28.3	5.3	29.0	5.8	17
18	27.0	5.1	27.3	5.3	27.1	5.9	27.2	5.3	27.3	4.6	28.2	5.0	28.0	4.4	27.8	4.9	18
19	25.9	3.9	25.8	4.2	25.6	4.5	26.5	4.6	26.1	4.0	26.9	3.7	27.0	3.7	26.4	3.6	19
20	25.0	3.5	25.2	3.8	25.0	4.0	25.9	3.6	25.6	3.4	26.2	2.5	26.1	2.8	26.0	3.2	20
21	24.2	3.1	24.9	3.6	24.1	3.3	25.1	3.0	25.0	2.8	25.6	1.6	26.0	2.7	25.3	2.6	21
22	23.8	2.8	24.5	3.0	23.1	3.0	24.8	2.8	24.9	2.6	25.3	1.6	25.9	2.4	25.0	2.5	22
23	23.2	2.4	24.1	3.0	23.5	2.4	23.8	1.6	24.1	2.1	25.2	1.7	25.5	2.0	24.9	2.5	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)

JANUARY, 1939

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	2.1	23.0	2.2	23.0	1.6	22.3	1.3	23.3	1.3	24.1	1.1	24.9	2.0	22.9	0.8	Mid-night
1	24.0	2.0	23.3	2.1	22.9	1.8	22.1	1.4	23.6	1.5	24.0	1.2	24.3	1.5	23.2	0.9	1
2	23.9	1.9	23.0	2.2	22.2	1.4	21.9	1.6	23.1	1.0	23.8	1.3	24.0	1.1	23.3	0.7	2
3	23.5	1.5	22.0	1.9	21.6	1.5	21.3	1.3	23.0	1.0	23.3	1.2	23.6	0.8	23.1	1.1	3
4	24.0	1.8	21.9	1.9	21.2	1.2	21.0	1.3	23.0	1.1	22.7	1.5	23.0	0.7	23.0	1.0	4
5	23.4	1.4	21.3	1.5	21.0	1.2	20.8	1.5	22.1	1.1	22.6	1.5	21.3	0.3	22.7	1.0	5
6	24.0	1.6	21.1	1.7	21.1	1.1	20.3	1.2	21.9	1.2	22.9	1.2	22.1	0.5	22.7	1.1	6
7	24.9	2.0	24.2	2.3	24.4	1.8	23.8	2.0	23.3	1.2	23.6	1.1	23.0	1.0	24.2	1.6	7
8	26.8	4.0	27.1	4.5	27.1	4.3	26.9	3.9	26.0	2.8	25.2	3.0	23.9	1.0	26.0	3.0	8
9	28.0	4.9	28.6	6.3	28.1	4.8	28.7	4.7	27.9	4.8	26.2	2.4	24.6	1.8	26.4	3.4	9
10	28.5	5.3	29.9	6.9	29.4	6.3	28.9	4.8	28.6	5.3	27.7	4.0	25.8	2.6	28.1	5.2	10
11	27.0	3.8	30.5	8.1	29.9	6.6	29.0	5.2	29.4	6.2	28.5	4.5	27.2	4.2	28.7	5.6	11
Noon	28.9	5.5	31.1	8.1	29.8	5.8	29.0	4.9	31.2	6.9	29.5	5.3	27.2	4.0	28.9	5.9	Noon
13	29.4	6.5	31.2	8.2	29.3	6.0	27.9	4.3	30.6	6.6	28.8	5.3	27.5	4.5	28.7	5.7	13
14	29.9	7.2	30.1	7.2	29.5	5.6	38.8	4.8	31.0	6.9	30.0	6.4	28.9	6.0	29.1	6.5	14
15	29.1	6.5	28.9	5.7	25.7	1.7	25.3	1.7	30.2	5.7	39.1	6.1	28.4	6.1	28.6	6.4	15
16	27.8	5.5	28.2	4.9	26.7	2.1	26.6	2.5	29.4	5.2	38.9	5.6	28.3	5.2	28.3	5.7	16
17	27.0	4.0	26.6	2.0	26.7	2.6	25.0	1.6	28.2	4.5	28.2	5.6	27.7	4.6	27.7	5.8	17
18	27.1	4.0	26.5	2.3	27.0	2.9	25.3	2.2	26.6	2.9	27.6	4.9	27.0	3.7	26.9	5.1	18
19	26.1	3.9	25.9	2.2	25.9	2.1	25.0	1.8	25.1	2.0	26.7	3.5	26.0	2.8	25.7	4.0	19
20	25.7	3.7	25.4	1.7	25.2	1.6	24.5	1.5	24.9	1.9	26.2	3.1	25.7	2.8	25.1	3.3	20
21	24.9	3.1	25.1	1.7	24.0	1.5	23.9	1.7	24.6	1.7	25.6	2.4	26.0	3.0	24.2	2.6	21
22	24.1	2.8	24.0	1.9	23.5	1.5	23.2	1.3	24.5	1.5	25.2	2.3	25.5	2.9	24.1	2.8	22
23	23.4	2.5	23.3	1.8	23.1	1.5	23.1	1.3	24.3	1.2	25.1	1.9	25.2	2.2	24.0	2.9	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	23.5	2.5	22.4	1.7	20.8	1.8	23.2	1.9	25.2	2.6	23.6	2.2	23.6	1.8	23.4	1.9	Mid-night
1	23.1	2.2	22.1	1.5	20.1	1.4	23.6	2.0	25.0	1.9	23.0	1.7	23.1	1.6	23.2	1.7	1
2	22.6	1.9	21.8	1.7	20.5	1.6	23.0	1.9	25.0	2.3	23.7	1.8	23.1	1.4	23.1	1.7	2
3	22.1	1.9	21.2	1.3	19.7	1.7	22.8	1.7	24.9	2.2	23.7	1.9	22.5	1.2	22.7	1.5	3
4	21.9	1.8	20.8	1.5	19.1	1.3	22.0	1.5	24.6	2.1	23.5	2.0	22.0	1.1	22.4	1.5	4
5	22.0	1.9	20.9	1.4	18.9	1.6	21.5	1.3	24.4	2.0	23.1	1.9	22.1	1.2	22.2	1.5	5
6	22.1	2.0	21.0	1.5	18.9	1.7	21.5	1.3	24.3	2.0	23.1	2.0	22.1	1.1	22.3	1.5	6
7	24.2	2.7	24.0	2.1	22.2	2.2	25.0	2.0	25.0	2.4	25.0	3.0	24.9	2.2	24.5	2.2	7
8	26.9	5.0	26.6	4.3	25.7	5.6	27.1	3.7	27.0	4.1	26.8	4.0	26.0	3.7	26.6	3.8	8
9	27.6	5.5	27.7	5.5	28.1	6.6	28.2	4.7	28.4	5.2	28.1	4.7	28.2	4.9	27.8	4.8	9
10	28.7	6.6	28.7	6.0	29.1	7.8	29.0	4.9	28.6	5.2	28.2	5.5	28.9	5.3	28.7	5.6	10
11	29.1	7.5	29.1	6.2	29.7	7.7	30.0	6.3	29.0	5.6	28.3	5.7	30.1	6.5	29.5	6.3	11
Noon	29.5	7.8	29.0	5.9	29.3	6.7	29.0	4.5	29.9	6.3	29.1	6.0	30.9	7.0	29.7	6.2	Noon
13	29.6	8.1	29.7	6.8	31.4	8.9	28.0	4.0	29.9	7.3	30.1	6.6	31.3	7.8	29.9	6.7	13
14	29.2	8.3	28.9	6.0	31.3	8.5	28.3	4.2	29.9	8.0	30.0	7.0	28.9	5.8	30.0	6.8	14
15	29.0	7.0	28.6	5.8	31.1	7.6	29.0	4.0	29.8	8.1	30.1	7.0	29.4	5.3	29.4	6.1	15
16	29.0	6.7	28.0	5.8	30.0	6.7	29.1	6.6	29.3	7.2	29.1	6.2	30.1	5.8	29.0	5.9	16
17	28.3	6.7	27.6	5.6	29.1	6.3	29.0	6.2	29.0	7.1	28.1	5.8	28.0	3.5	28.1	5.3	17
18	27.0	5.0	26.6	4.9	27.7	5.3	27.7	5.0	27.4	5.8	27.1	4.7	25.3	1.9	27.3	4.6	18
19	26.1	4.0	25.3	4.3	26.5	4.2	26.3	3.5	26.1	4.2	26.2	4.0	25.0	2.9	26.1	3.7	19
20	25.6	3.6	24.1	3.5	25.6	3.5	26.0	3.0	25.3	3.4	25.4	3.3	24.2	2.2	25.4	3.1	20
21	24.3	2.4	23.1	3.0	25.1	3.0	26.0	3.1	25.1	3.2	24.6	2.7	23.5	1.7	24.7	2.6	21
22	24.0	2.8	21.9	2.5	24.5	2.5	25.5	2.5	24.7	3.0	24.6	2.6	23.1	1.4	24.2	2.4	22
23	23.0	2.0	21.1	1.9	23.7	2.4	25.3	2.6	23.5	2.4	24.0	2.1	23.0	1.5	23.8	2.1	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING JANUARY, 1939

The directions are given in points and the values indicate the direction from which the wind blows counting fr m 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, 1939

Day	1*		2*		3*		4*		5		6		7		8		9		10		11		12		13		14		15		16	
Hour	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	1.8	13	1.8	12	1.7	14	1.0	10	1.5	06	1.2	09	1.9	11	1.1	11	1.2	10	0.9	10	3.0	11	1.3	11	1.8	11	1.5	10	2.5	10	1.1
1	11	1.1	13	1.3	12	1.7	14	1.3	10	1.5	06	1.3	09	1.4	11	1.2	11	1.6	11	1.9	11	1.5	11	1.5	11	1.4	11	1.9	10	1.8	10	1.9
2	11	1.4	13	1.6	12	1.5	14	1.9	10	1.0	05	2.0	11	2.2	11	0.6	12	1.1	11	1.3	11	1.2	11	1.1	11	1.3	11	2.0	09	1.8	10	2.4
3	11	1.4	13	1.4	12	1.2	14	1.8	10	1.8	11	1.8	11	1.4	11	1.1	12	1.3	11	1.3	11	1.1	11	0.8	11	1.8	11	1.7	10	2.2	10	2.5
4	11	1.2	13	1.2	12	1.6	14	1.6	10	1.6	10	1.8	12	1.3	10	1.9	11	2.5	11	1.1	11	1.0	11	1.1	11	1.4	11	2.0	09	2.9	10	2.8
5	11	1.8	13	1.5	12	1.9	14	2.1	10	1.8	09	1.9	10	2.1	10	2.5	08	1.1	10	1.1	11	1.1	11	1.8	10	2.5	11	2.2	10	2.2	09	3.7
6	11	1.5	13	1.5	12	1.8	11	1.1	10	1.7	07	2.7	11	1.8	10	2.4	08	2.4	12	0.7	11	1.8	11	1.6	10	1.8	11	1.8	10	1.3	09	3.0
7	11	0.6	11	2.3	12	1.1	11	1.0	09	2.4	08	2.7	11	1.9	09	2.5	08	4.0	12	2.7	11	3.1	11	1.9	10	2.5	11	2.4	10	2.7	09	3.0
8	06	1.1	07	2.1	06	0.7	03	1.6	05	2.4	07	3.6	09	2.6	09	3.7	09	4.3	10	4.1	10	4.1	08	2.3	09	3.4	09	3.7	08	4.9	08	3.5
9	06	1.8	07	2.3	r25	2.0	31	1.5	05	3.5	05	4.3	10	3.2	06	3.7	06	4.3	09	3.1	09	4.5	11	3.0	05	3.8	06	3.5	08	4.8	08	5.1
10	08	1.6	06	3.1	22	2.3	27	3.2	06	4.0	04	4.7	09	4.0	11	4.9	07	5.2	07	4.4	11	4.7	08	3.5	08	4.3	05	3.7	07	4.5	06	4.4
11	08	1.8	02	3.2	25	3.0	01	3.7	03	4.1	04	4.2	05	4.4	08	4.5	08	3.4	11	3.5	09	4.4	06	4.0	05	4.2	07	4.5	07	4.7	05	4.5
Noon	08	2.5	02	3.6	24	4.4	28	3.4	04	4.4	06	4.4	07	4.4	07	4.5	09	6.1	09	5.0	09	4.9	07	3.6	08	4.1	05	4.5	07	4.7	06	4.4
13	d32	1.7	32	4.1	29	4.7	32	4.4	05	4.2	05	4.6	08	4.4	10	4.7	11	5.1	11	4.9	12	4.8	06	2.7	06	4.3	05	5.2	07	4.8	07	4.4
14	27	3.9	02	4.2	24	3.3	r24	3.5	02	4.0	06	4.9	12	4.3	11	4.7	12	5.2	10	5.5	11	4.6	07	3.2	07	4.4	05	5.0	07	5.0	06	4.7
15	26	3.9	27	4.4	17	2.0	26	2.8	03	4.2	05	5.9	06	4.0	11	4.8	10	5.9	12	5.2	11	4.7	11	2.6	07	4.1	08	4.1	07	5.4	06	4.1
16	21	3.1	30	3.7	r09	1.5	26	3.6	02	4.1	07	4.1	09	4.3	10	4.6	10	5.4	09	5.7	12	5.3	10	3.5	06	4.0	06	4.2	08	5.2	06	4.1
17	21	3.1	r32	3.9	r24	2.0	29	2.2	02	3.4	06	4.7	11	3.5	09	4.9	10	4.9	11	5.5	12	5.8	10	3.6	05	4.5	07	3.9	08	4.0	06	4.2
18	21	2.3	12	1.2	24	2.5	27	1.9	06	3.0	08	4.1	14	2.7	09	4.4	11	5.2	11	5.7	11	4.8	11	4.4	08	3.7	08	3.8	08	5.9	06	3.5
19	r13	2.7	12	0.7	24	1.6	32	1.9	06	2.4	09	3.8	11	2.3	11	2.9	11	3.4	11	4.4	11	2.9	09	3.7	09	3.2	08	3.6	09	3.8	08	3.1
20	13	2.8	12	1.1	24	1.1	02	1.2	06	3.9	09	2.2	11	2.3	11	1.9	09	3.9	12	2.2	11	1.8	09	4.1	10	2.3	09	1.0	09	3.4	08	3.2
21	13	2.1	12	1.3	r14	1.3	03	0.6	05	3.9	09	2.4	11	1.5	11	1.4	10	2.9	12	1.6	11	1.1	11	2.3	10	1.9	10	2.3	09	4.0	08	2.0
22	13	1.1	12	1.8	14	1.6	06	1.2	05	1.4	09	1.7	11	2.5	11	2.0	10	2.2	11	3.0	11	0.8	10	2.8	11	1.4	10	2.5	09	3.3	08	2.3
23	13	1.4	12	1.6	14	0.9	13	1.1	05	2.2	09	1.7	12	1.6	11	1.6	10	1.3	09	2.2	11	1.1	11	2.6	11	1.9	09	2.7	10	2.4	08	2.1

Day	17*		18*		19*		20*		21*		22		23		24		25		26		27*		28*		29		30		31*		Mean
Hour	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	08	1.2	11	1.1	27	1.6	11	1.6	05	1.3	14	0.9	11	2.0	08	2.3	10	2.5	09	1.8	11	2.7	11	1.2	10	3.3	11	0.7	10	1.6	1.7
1	08	1.0	11	0.6	27	1.3	11	1.4	05	0.8	14	1.3	10	3.7	12	1.7	08	1.8	09	2.0	11	1.8	11	1.4	10	3.9	11	2.0	10	1.4	1.6
2	08	0.7	11	1.1	27	1.6	11	2.1	05	0.8	14	0.9	10	4.4	12	1.9	09	1.8	09	1.5	14	2.4	11	1.7	10	3.3	12	2.5	10	1.4	1.7
3	08	1.2	11	0.8	27	1.8	11	1.7	07	1.1	14	1.5	10	3.0	11	2.5	09	2.6	09	1.7	14	2.7	10	1.7	09	4.3	10	2.9	10	1.1	1.8
4	08	1.1	11	1.1	27	1.4	11	1.7	08	0.6	12	2.3	09	7.4	11	2.8	09	2.3	09	1.5	14	2.4	10	1.2	10	3.2	10	2.4	10	0.9	1.9
5	08	0.7	11	1.2	27	1.9	11	1.8	08	1.1	12	1.8	09	6.8	11	1.9	09	2.6	09	1.8	14	1.8	11	1.3	10	3.2	10	2.7	10	1.0	2.0
6	08	1.0	11	1.2	27	1.6	11	1.8	10	1.2	12	0.7	06	5.0	11	2.0	09	2.2	09	1.2	14	2.4	11	0.9	09	3.0	10	2.1	10	1.8	1.8
7	08	1.0	11	0.7	r15	2.1	11	1.2	11	0.7	12	1.1	05	4.4	10	3.2	09	2.6	09	1.7	14	1.1	11	1.8	09	3.8	11	2.4	11	1.1	2.1
8	06	2.7	05	1.8	09	1.6	05	1.1	11	1.8	12	1.2	04	5.1	08	3.2	09	4.1	09	3.6	14	0.9	11	2.6	08	5.1	11	4.0	10	1.8	2.9
9	06	3.0	07	2.2	07	1.9	05	1.2	05	2.8	07	1.3	04	5.7	08	4.5	06	4.1	08	3.2	07	1.2	09	3.5	09	6.4	09	5.3	09	2.4	3.3
10	05	4.3	04	2.8	04	2.2	r29	2.2	04	3.0	07	2.3	04	5.4	09	4.8	06	4.9	06	4.4	12	1.9	11	2.7	08	7.6	09	3.3	06	2.7	3.8
11	06	4.1	06	3.3	05	3.1	27	2.8	02	2.8	08	2.8	05	4.8	07	4.6	06	4.9	06	4.4	r23	2.6	12	3.7	10	7.0	12	3.8	07	3.0	3.9
Noon	02	3.9	06	3.2	05	3.9	30	2.8	03	3.1	10	3.6	05	5.0	08	4.7	05	4.2	07	4.9	22	2.8	d20	2.5	09	7.5	05	3.7	06	4.0	4.2
13	06	4.3	06	3.7	02	3.4	27	3.3	04	4.1	06	4.4	08	4.3	07	4.9	08	4.8	07	4.7	26	2.8	20	4.4	11	7.4	08	4.1	07	4.3	4.3
14	05	5.4	03	3.8	32	2.6	29	2.7	03	4.1	08	3.8	05	5.1	06	4.9	06	4.5	06	5.1	26	3.5	25	3.6	08	6.3	08	3.9	07	2.8	4.3
15	07	4.7	d12	3.1	r24	2.8	22	2.1	02	4.3	08	3.4	08	4.8	07	4.8	05	4.9	06	4.5	25	3.7	21	2.4	11	5.3	09	4.2	d17	4.3	4.1
16	05	2.7	d24	3.9	d03	1.9	19	2.9	01	3.8	07	3.6	06	4.7	09	5.6	05	4.2	06	3.7	24	2.8	r12	4.5	10	5.0	08	3.5	20	4.8	4.0
17	r18	1.5	30	1.6	r26	1.0	r11	0.7	32	2.7	08	3.4	07	4.6	08	5.1	06	3.9	06	3.9	23	0.5	12	5.2	11	5.1	10	3.3	25	3.4	3.6
18	r24	1.4	27	1.2	30	1.1	11	1.1	r19	1.8	07	2.5	08	3.9	09	4.8	08	3.7	06	3.4	r11	2.8	12	5.9	10	4.6	10	3.1	r14	2.6	3.3
19	d07	1.5	27	0.7	30	0.6	11	0.7	14	1.8	08	2.8	08	3.9	09	3.8	08	3.1	06	2.0	11	3.1	11	4.0	09	3.4	10	2.2	10	3.2	2.7
20	07	1.2	27	0.6	30	0.8	11	1.4	14	1.5	09	2.4	10	3.0	09	2.3	09	2.9	07	1.7	11	2.1	11	4.4	10	3.5	10	1.1	09	2.3	2.3
21	07	1.5	27	0.9	30	1.3	11	1.4	14	1.3	09	2.5	10	2.4	09	1.8	09	1.7	09	1.6	11	2.7	11	3.4	11	2.2	10	1.1	09	1.2	1.9
22	11	1.3	27	1.1	06	1.4	11	1.8	14	0.9	10	1.9	10	2.7	09	2.9	09	1.9	10	1.8	11	1.0	11	3.9	11	1.8	10	1.4	09	0.7	1.9
23	11	1.1	27	0.9	d06	1.5	11	1.2	14	0.7	10	2.6	11	3.3	09	3.8	09	1.8	11	2.4	11	0.9	11	4.0	11	0.7	10	2.5	09	4.4	1.8

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS), JANUARY, 1939

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	-	-	-	-	5	7	15	3	-	-	-	-	-	-	1	-
9	-	2	29	1	-	6	6	15	1	1	-	-	-	-	-	1	-	-	-
15	-	2	29	-	1	3	3	8	1	6	-	2	-	1	1	2	2	1	-
21	-	-	31	-	-	2	-	9	6	10	2	-	-	-	-	-	-	1	1
Totals				1	1	11	9	37	15	32	5	2	-	1	1	3	2		1

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR JANUARY, 1939

Day / Hour	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	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	0.1	..	0.9	..	..	..	..	..	..	..
2	..	..	..	..	..	0.5	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	0.2	..	..	..	..	..	..	..
3	..	..	..	..	..	0.3	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..
4	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.6	0.4	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5.9	..	..	..	..	..	..	..	0.2
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.6	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Noon	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	5.2	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.4	0.2	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.4	0.5	0.2	..	..	..	..	..	..	..	..	..	..	0.5
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	5.3
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	0.1	..	0.1	..	..	..	..	..	..	..	..
24	..	..	..	..	0.4	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	0.2	..	3.7	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR JANUARY, 1939

	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	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..
2	..	..	..	..	..	0.9	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	0.7	..
3	..	..	..	..	..	..	0.1	0.1	..	0.3	0.8	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	0.8	..
4	..	..	..	..	..	0.2	..	0.1	..	0.3	..	..	..	..	..	..	..	..	..	..	..	0.6	1.8	..	..	..	..	..	..	0.6	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	0.3	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	0.9	0.3	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	0.4	..	..	0.1	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	1.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.4	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..	..	..	..	0.6	..	0.1
Noon	..	0.3	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	2.7	5.3	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	..
14	0.2	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.0	14.6	..	..	..	..	..	..	..	..	..	..	..
15	19.8	2.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.6	..	..	..	..	..	..	..	..	..	..
16	3.8	2.4	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.0	..	8.7	28.9	..	..	..	..	..	..	..	..	..	..
17	1.2	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	3.9	0.8	..	5.9	..	..	..	..	..	..	..	..	..	..
18	5.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	2.0	..	..	..	..	..	..	..	..	..	..
19	2.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.2	..	..	1.9	..	..	..	..	..	..	..	..
20	4.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.8	..	..	..	..	..	..	..	..
21	2.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8.6	..	..	..	..	..	..	..	..
22	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.0	..	..	..	..	..	..	..	..	..
23	..	..	..	..	0.7	..	0.5	..	0.2	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	0.3	..	1.4	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XV- TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR JANUARY, 1939

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of days
			Inches	Millimetres		
6	Mare Seche	20	1.12	41.1	8.23	8
	Saint Antoine	50	1.63	41.43	6.98	5
	Bel Mont	50	2.57	65.3	7.69	4
	Poudre D'or	20	2.02	51.3	7.09	4
	Mon Loisir S.E.	300	1.88	47.8	8.18	9
	Forbach	300			8.43	
	Couroupa	...	1.62	41.2	11.33	7
	Labourdonnais	290	1.81	46.0	8.96	7
	Mapou Water Office	...	3.26	82.8		3
	Beau Sejour	300	2.21	58.2	9.51	14
	Mont Piton	650	1.53	38.9	10.47	7
7, 8, 9 & 10	Mon Choix	700	2.11	53.6	10.42	7
	Antoinette	640	1.98	50.3	9.88	13
	Mon Songe	620	2.12	53.8	10.08	11
	Botanical Gardens	325	1.68	42.7	9.59	8
	The Observatory	179	1.56	39.7	8.16	16
	Solitude	175	2.12	53.8	6.96	6
11	St Andre-Cour	90	1.47	37.3	7.79	5
	La Nicoliere	...	3.85	97.8	13.37	17
	California	...	3.55	90.2		10
	Australia	...	1.94	49.3		10
	Union Regnard S.E.	600	1.92	48.8	9.87	12
	Constance d'Arifat	100	2.60	66.0	8.11	15
	Rich Fund	600	2.29	58.2	10.96	12
	La Joffrette	...	2.50	63.5		13
	Belle Vue Allendy	...	2.09	53.0	11.28	12
12	Sans Souci	900	3.60	91.4	16.53	18
	Beau Champ G.R.S.E.	20	2.77	70.4	8.12	13
	Olivia	400	3.56	90.4	11.33	16
	Trois Llots	...	3.03	77.0		10
	Belle Rive	400	5.04	128.0	14.28	20
	Sebastopol	700	4.03	102.4		18
	Bonne Veine	400	5.79	147.1	18.33	18
	Rose Belle	850	6.25	158.8	18.04	24
	New Grove	650	6.74	171.2	18.40	21
	Mon Tresor	...	4.20	106.7		15
	Mon Desert9Carie	75	4.72	119.2	7.85	15
	Ferney	20	4.50	114.3	12.35	9
	Sauveterre	...	4.49	114.0		12
	Tivoli	1300	6.23	158.2	15.63	19
	La Flora	1050	6.60	167.6	17.58	19
	Rich Bois	650	5.95	151.1	15.21	14
	Britannia S.E.	700	8.24	209.3	13.33	16
	Savannah Mill	200	4.20	106.7	10.25	12
	St Aubin	300	4.84	122.9	10.76	13
	Saint Avold	900	6.43	163.3	14.04	17
	Colmar	400	7.04	178.8	12.85	15
	Union S.E.	...	4.93	125.2	9.86	12
	Fontenelle	320	6.84	173.7	10.77	11
	Choisy	200	4.94	125.5	11.70	9
	Beau Bois	...	8.16	207.3		15
	Bel Air	...	3.88	98.6	9.67	10
	St Felix	...	5.32	135.1		8
	Bel Ombre	40	9.26	235.2	9.25	11
	Beau Chmap (B.du Cap)	10	8.98	228.1	8.66	10
	Frederica	...	8.27	210.1	8.78	12
	Pierre Fonds	...	11.31	287.3	10.51	17
	Sainte Marie	...	9.32	236.7		10
	Hussonia	...				
	Curepipe Gardens	1840	6.38	162.1	16.71	18
	Mare aux Vacoas G.End	1850	9.77	248.2	19.51	20
	Mare aux Vacoas Arnaud	1830	9.24	234.7	17.85	20
	La Marie Filter Beds	1700	9.45	240.0	14.87	15
	Sophie	...	9.56	242.8		25
	Reunion	1420	8.50	215.9	13.10	15
	Aerological Station	1393	6.52	165.6	13.40	21
	Phoenix	...	5.93	176.0		14
	Quatre Bornes	...	4.10	104.1	9.08	13
	Quatre Bornes Board	1090	3.02	76.7		6
	Le Reduit Dep. of Agriculture	1000	3.38	85.8	10.00	21
	Alma	1460	5.02	127.5	17.88	15
	Bagatelle	1250	6.14	156.0	11.66	12
	Highlands	1300	9.25	235.0	14.10	14
	Trianon	950	3.76	95.5	10.30	12
	Val Ory	1100	2.64	67.1	10.63	12
	Bassin	...	12.14	308.4	10.56	10
	HErmitage	1450	7.03	178.6	17.16	14
	Ebene	...	4.02	102.1		10
	Bega	...	3.35	85.1		9
	Mon Reve	...	4.56	115.8		12
	Mon Pevril	...	3.12	79.2		11
	Minissy	1150	3.56	90.4	12.33	12
	Plaisance	...	4.47	113.5		13
13	La Ferme	350	4.38	111.3	3.52	8
	Line Barracks	...	4.11	104.4		13

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION VACOAS, 424.5 metres above SEA LEVEL, during the month of JANUARY, 1939

Day	Type / Time	St & Fs. Dir.	St & Fs. Vel/Height	Cumulus Cu. St. &c. Dir.	Cumulus Cu. St. &c. Vel/Height	Alto Cu. Alto St. Dir.	Alto Cu. Alto St. Vel/Height	Cirro Cumulus Dir.	Cirro Cumulus Vel/Height	Cirro Stratus Dir.	Cirro Stratus Vel/Height	Cirrus Dir.	Cirrus Vel/Height	Time	St. & Fs. Dir.	St. & Fs. Vel/Height	Cumulus Cu St Cb &c Dir.	Cumulus Cu St Cb &c Vel/Height	Alto Cu. Alto St. Dir.	Alto Cu. Alto St. Vel/Height	Cirro Cumulus Dir.	Cirro Cumulus Vel/Height	Cirro Stratus Dir.	Cirro Stratus Vel/Height	Cirrus Dir.	Cirrus Vel/Height
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	11	...	...	.60	8.8	...	...	360	...	...	...	285	2.2	15¼	...	...	90	...	...	...	...	...	...	...	285	3.9
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	11½	...	...	120	10.9	...	...	...	...	...	...	...	...	15¼	...	...	127	8.3 *	...	...	...	...	...	...	...	...
12	10¾	...	...	75	...	...	...	...	...	...	...	...	...	15¼	...	...	137	... *	...	...	...	...	...	...	...	...
13	11¾	...	...	360	4.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	10¼	...	...	30	2.9	...	...	...	...	...	...	...	...	15¼	...	...	97	... *	...	...	...	...	...	...	...	...
15	10¼	97	...*	75	16.4	...	...	...	...	...	...	...	...	15¼	...	...	.97	... *	69	... *	...	...	...	...	...	...
16	10	...	...	90	9.6	...	...	...	...	...	...	...	...	15¼	...	...	240	...	...	...	...	...	...	...	...	...
17	10½	90	20.3	90	11.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	10	...	...	75	5.7	...	...	...	...	...	...	...	...	15¼	...	...	330	...	323	... *	...	...	...	...	...	...
19	11	...	...	45	...	...	...	...	...	...	...	270	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	10½	...	...	90	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	...	...	188	...	278	3.4 *	...	...	248	3.8*	...	...
22	11	...	...	30	...	285	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	11½	60	11.8	60	8.5	90	...	...	...	...	...	...	...	15¼	95	16.6*	106	11.4 *	...	...	...	...	...	...	...	...
24	10¾	...	...	105	7.0	...	...	...	...	...	...	180	...	15½	108	12.1 *	346	6.5 *	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	...	...	86	7.6 *	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	86	6.8 *	188	4.7 *	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	117	12.3 *	...	...	...	...	...	...	...	...
28	10½	...	...	.75	6.5	120	...	...	...	...	...	...	...	15½	...	...	131	7.8 *	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	15¾	...	...	165	5.4 *	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	115	12.6*	.90	5.3 *	...	...	...	...	...	...	...	...

The Direction is that from which the Cloud travels counting North (0°) East (90°) South(180°). The Velocity-Height Ratio is given in millidarians per sec.

* Observatory Pamplemousses.

MAURITIUS

ROYAL ALFRED OBSERVATORY

LATITUDE 20°5'39"S. - LONGITUDE 3h50m12s 6"

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

FEBRUARY, 1939

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

DIRECTOR

PUBLISHED IN 1961 BY

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DIRECTOR OF METEOROLOGICAL SERVICES, MAURITIUS

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF FEBRUARY, 1939

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)	H.R.h: 10,000	Z.R.z: 10,000
Feb.								
1	13°41.9'	.22474	.29835	10.7'	81	27	182	80
2	43.9	438	849	6.7	44	16	99	48
3	43.6	440	849	4.2	28	17	63	51
4	42.3	450	847	7.5	28	20	63	60
5	43.7	456	846	10.0	26	28	59	83
6	43.2	425	851	19.0	155	51	347	152
7	43.8		864	11.3		43		129
8	44.2		853	18.3		50		150
9	44.4		852	14.7		49		147
10	44.1		849	13.5		39		116
11	43.5	Readjustments to Magnetograph	845	12.5	Readjustments to Magnetograph	42	Readjustments to Magnetograph	125
12	43.8		842	11.8		27		80
13	43.1		835	14.2		36		107
14	42.6		838	12.5		23		69
15	41.7		832	14.3		40		119
16	41.6		835	13.2		46		137
17	41.7		836	13.3		47		134
18	42.9	474	836	11.6	28	30	63	89
19	41.9	474	833	15.0	46	38	104	113
20	42.0	475	833	13.0	41	34	92	101
21	42.2	469	832	16.7	37	43	83	128
22	41.5	473	824	18.0	38	51	86	152
23	40.1	471	826	6.5	36	43	81	128
24	44.0	436	833	15.3	186	66	418	197
25	44.0	288	860	16.0	67	36	149	107
26	44.3	375	850	9.7	55	24	123	72
27	42.3	407	837	14.5	51	44	114	131
28	43.0	417	834	13.8	76	40	170	119
Mean	13°42.87'	.22438	.29841	12.78'	60.2	37.4	135.1	111.6

Description of the Principal Magnetic Disturbances

Declination — Slightly disturbed during the 2nd and 1st part of the 3rd. The 6th and first part of the 7th disturbed. The daily range on the 6th attains 21'. Minor waves of 2' amplitudes on the disturbed trace. 10th & 11th - Very slightly disturbed at times. 15th & 16th - Very slightly disturbed at times. 24th - Slight disturbance between 7h & 10h. From 24th 20h to 25th 12h : very disturbed. Important irregular fluctuations in the trace; between 0h30m and 1h30m large negative wave of 12'.5 amplitude.

Horizontal Force — 1st, 2nd and 3rd - A slightly disturbed period commencing during the second half of 1st ends during the first hour of the 3rd. The only important fluctuation is a sharp positive wave of 27γ at 22h 10m on the 2nd. 5th 23h55m - Sudden increase of 17 γ . At 13h30m sudden commencement with a rapid increase, a moderate disturbance ending during the first hour of the 7th. On the 6th at 23h. sharp positive wave of 31 γ . 10th & 11th - Slightly disturbed. From 14th 11h50m to 17th 14h magnetograph dismounted. 23rd 17h - Sudden commencement of an intense storm ending during the first hour of the 26th. From the commencement to the first hour of the 24th only slightly disturbed. On the 24th at 9h rapid fluctuations of minor character followed by a long and sustained decrease of force. From the 24th at 21h 05m very large fluctuations in the disturbed trace; oscillations at times attain 100 γ . 27th : from 2h to 3h - small positive wave of 20 γ

Vertical Force — 1st & 2nd - Very slightly disturbed at times. 2nd 21h 30m to 2nd 22h 30m positive wave of 10 γ 6th & 7th - Slightly disturbed; minor fluctuations not greater than 10 γ on the trace at times. 10th & 11th - Very slightly disturbed at times. 15th & 16th - very slightly disturbed. 24th 21h 05m - sudden commencement of an intense storm ending gradually during the first hours of 26th. Rapid fluctuations not greater than 20 γ on the trace.

T = .37336 : Mean Dip = 53°3'97: X = .21798 : Y = - 05320 : Z = .29841

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 FEBRUARY, 1939

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.	° '	
2.11.48	13.45.7	1.11.40	.22485	2.12.15	53.03.93	.29849
8. 9.45	13.54.3	8.11.13	.22438	8. 9.20	53.05.75	.29873
13.12.33	13.40.0	16. 9.08	.22445	16.13.05	53.01.50	.29813
16.12.47	13.37.2	18.10.52	.22485	23.13.26	52.57.25	.29793
17.14.37	13.34.8	23. 9.08	.22472	28.15.20	53.02.63	.29814
23.13.13	13.38.0					
28.15.12	13.35.9					

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

FEBRUARY, 1939

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
							13° +										
Midnight	42.7	45.5	44.0	43.0	43.0	42.5	44.7	44.5	44.0	45.5	43.5	43.7	43.3	43.3	42.3	41.5	Midnight
1h	43.0	45.3	44.0	44.0	43.0	43.0	44.5	43.7	43.7	45.0	43.5	43.5	43.5	43.7	42.3	42.0	1h
2	43.5	44.7	43.0	42.7	43.5	43.0	45.0	43.0	43.0	44.3	43.5	43.5	43.3	44.5	42.3	42.3	2
3	43.5	46.0	43.5	43.3	43.7	44.0	41.3	42.7	42.5	42.7	44.0	43.5	43.5	44.3	42.3	42.5	3
4	43.7	46.7	44.0	43.0	44.0	43.5	41.7	42.5	42.5	42.7	43.5	43.5	42.7	44.5	42.7	42.7	4
5	44.0	43.5	44.0	43.0	44.5	44.0	42.0	43.0	43.0	43.5	44.5	43.7	44.0	44.5	43.0	43.0	5
6	43.7	45.0	43.7	44.0	45.0	44.0	42.0	44.0	43.5	44.0	44.7	43.7	44.5	44.7	43.0	43.7	6
7	44.5	44.0	45.0	45.0	47.3	47.5	41.5	47.0	45.0	46.5	43.5	44.5	46.0	45.5	46.5	45.5	7
8	44.3	44.7	45.5	46.0	48.5	50.3	45.0	50.0	47.0	48.0	43.0	46.0	48.0	47.5	49.3	45.7	8
9	45.5	44.5	44.5	44.0	48.5	52.5	48.0	53.0	51.0	50.5	47.0	48.0	50.5	48.5	49.0	47.5	9
10	45.7	45.0	44.5	42.5	47.7	49.5	50.3	54.0	52.7	51.0	49.5	50.0	50.3	48.0	47.5	47.7	10
11	43.5	45.0	44.0	39.7	45.5	43.0	48.0	52.0	51.0	50.5	50.0	50.5	47.0	46.0	43.5	45.0	11
Noon	42.7	45.7	44.5	40.0	43.0	40.0	45.7	48.7	46.0	48.0	48.0	48.5	42.5	41.0	39.5	39.5	Noon
13	40.0	46.0	44.0	39.5	40.0	36.0	42.0	42.0	40.0	44.0	43.0	45.0	39.0	38.0	37.0	37.0	13
14	37.5	44.0	43.0	38.5	38.5	33.5	39.0	37.0	46.5	38.5	38.7	42.0	37.0	37.0	35.0	34.5	14
15	35.5	41.0	41.7	39.0	40.0	33.5	39.5	35.7	46.0	37.5	37.5	39.0	36.3	36.0	35.5	35.3	15
16	35.0	40.0	41.3	40.0	41.0	38.5	40.7	37.0	38.0	38.0	38.5	38.7	37.0	38.0	37.0	36.0	16
17	37.0	40.7	42.5	41.5	42.5	41.0	42.5	41.5	41.0	40.5	41.0	40.0	39.5	40.0	38.7	38.0	17
18	38.5	42.0	43.3	42.0	43.0	44.0	44.0	43.0	42.5	41.7	42.0	40.7	40.7	40.7	39.7	40.5	18
19	40.0	42.0	43.5	43.0	43.5	44.5	44.0	42.7	42.0	42.0	42.5	42.0	43.5	41.0	39.7	41.0	19
20	41.0	41.7	43.0	42.7	43.3	44.0	44.5	43.0	42.7	42.0	42.7	42.5	42.0	41.0	41.0	41.0	20
21	41.5	42.5	43.0	43.0	43.5	45.5	44.7	43.5	42.7	43.5	43.0	43.0	42.7	41.3	41.3	41.5	21
22	42.5	46.0	43.3	43.3	43.5	44.0	45.0	43.5	44.0	44.0	43.5	43.3	43.3	41.5	41.5	42.0	22
23	44.5	43.5	43.5	43.3	43.5	44.0	45.0	44.7	45.5	44.3	43.5	43.5	43.5	42.5	42.0	42.5	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	Mean				Hour \ Day
							13° +										
Midnight	42.3	42.7	42.5	42.5	42.0	42.0	42.0	41.5	42.0	44.0	43.0	43.0	43.4				Midnight
1	42.5	42.5	42.7	42.0	42.3	42.3	42.0	42.7	42.0	44.0	43.0	43.0	43.2				1
2	43.0	42.5	42.0	42.5	42.0	42.5	42.0	42.5	43.0	40.7	43.0	43.0	43.0				2
3	43.0	42.7	42.7	42.7	42.5	42.7	41.7	42.5	46.0	42.0	41.7	43.0	43.1				3
4	43.0	42.5	43.0	43.0	43.0	42.7	42.0	42.7	44.0	42.7	41.7	43.0	43.1				4
5	43.3	42.5	43.5	43.5	42.7	43.0	41.3	43.5	45.5	43.3	42.7	43.3	43.4				5
6	43.0	43.0	44.0	43.7	44.0	43.5	41.5	45.0	43.7	43.5	43.0	43.5	43.7				6
7	43.5	43.7	46.0	43.7	46.0	45.7	43.5	46.7	50.0	45.0	44.5	44.7	45.3				7
8	46.7	47.0	48.5	46.7	48.5	49.0	37.0	50.0	50.5	49.0	47.5	48.0	47.0				8
9	41.5	48.3	49.0	48.3	50.7	50.0	39.7	51.0	50.7	51.0	50.0	50.3	48.5				9
10	48.3	47.7	48.0	47.0	50.0	49.0	39.0	51.0	50.0	50.5	49.0	49.0	48.4				10
11	45.0	45.0	45.7	45.0	45.5	46.0	37.0	48.5	46.5	50.0	46.5	47.0	46.1				11
Noon	40.0	41.5	40.0	41.0	40.5	43.0	43.0	44.0	41.5	47.5	42.5	43.5	43.2				Noon
13	35.7	38.0	35.5	37.0	37.5	35.0	39.0	40.0	38.5	45.5	40.0	40.0	39.8				13
14	35.0	36.7	34.0	35.3	34.5	33.0	35.5	36.7	36.0	43.0	37.0	37.3	37.7				14
15	35.0	37.3	34.7	35.5	34.0	32.0	33.5	35.7	39.0	41.3	35.5	36.5	37.1				15
16	36.5	37.7	36.0	37.0	35.5	33.5	35.0	37.0	39.0	41.5	36.3	37.0	37.7				16
17	38.5	39.3	39.5	40.0	39.0	37.0	38.0	40.0	40.0	41.5	37.5	39.0	39.9				17
18	40.7	40.7	40.7	41.5	41.0	40.0	40.7	42.0	43.0	42.2	40.0	41.0	41.5				18
19	40.7	41.3	41.0	41.3	41.7	41.0	41.0	42.0	43.5	42.5	41.0	42.0	42.0				19
20	41.0	41.3	41.5	42.3	42.0	41.3	41.5	43.5	43.5	42.7	41.7	42.7	42.3				20
21	41.5	41.5	41.5	42.5	42.3	41.7	41.7	45.5	44.0	43.0	42.5	43.5	42.8				21
22	42.0	41.7	41.7	42.3	42.5	42.0	42.0	49.0	44.7	43.0	42.7	43.7	43.3				22
23	42.5	42.0	41.7	42.2	42.2	42.0	42.0	48.0	44.0	43.3	43.0	44.0	43.4				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)

FEBRUARY, 1939

.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	471	417	421	439	450	470	352										Midnight
1	473	420	430	455	450	465	360										1
2	474	423	446	452	450	455	368										2
3	475	420	444	450	454	454	383										3
4	481	416	439	450	459	460	392										4
5	474	435	440	451	458	463	415										5
6	472	444	440	453	460	468	420										6
7	476	460	440	460	463	470	430										7
8	473	458	447	460	463	471	420										8
9	474	456	440	458	464	478	405										9
10	475	450	432	457	463	460	386										10
11	480	440	440	452	461	477	382										11
Noon	482	443	440	454	458	483											Noon
13	483	439	449	460	465	489											13
14	488	430	448	460	460	463											14
15	495	430	447	445	438	425											15
16	503	437	445	432	444	385											16
17	497	449	447	440	454	366											17
18	473	442	442	445	454	355											18
19	460	438	443	440	450	338											19
20	472	442	437	440	448	337											20
21	470	446	430	443	454	340											21
22	457	443	432	443	453	334											22
23	422	437	438	448	453	359											23

READJUSTMENTS TO MAGNETOGRAPH

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

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	Mean				Hour \ Day
Midnight		465	468	471	453	464	458	456	280	335	391	404	429				Midnight
1		472	467	474	458	464	456	449	225	336	388	407	429				1
2		473	475	471	463	466	460	467	293	363	388	406	437				2
3		467	487	470	464	467	466	471	271	360	404	409	437				3
4		472	482	471	462	469	465	475	273	360	399	412	438				4
5		475	474	472	464	469	472	472	298	364	397	413	441				5
6		475	474	474	465	470	470	477	285	364	398	416	442				6
7		480	474	476	468	472	475	493	258	371	400	419	444				7
8		475	474	480	464	472	480	495	271	373	399	428	446				8
9		469	465	482	466	470	481	498	273	380	403	433	447				9
10		476	464	486	471	475	475	489	278	387	418	445	447				10
11		482	474	492	483	484	478	481	274	387	425	451	451				11
Noon		488	494	496	488	492	487	480	284	384	437	450	455				Noon
13		489	501	496	490	497	492	480	286	382	439	451	458				13
14		479	497	494	482	497	488	474	305	379	428	441	454				14
15	492	479	485	490	479	486	471	469	306	371	417	435	445				15
16	483	479	474	485	473	477	464	447	298	369	411	425	438				16
17	465	475	464	479	468	474	476	420	285	374	406	420	435				17
18	445	469	458	465	465	467	473	407	283	378	395	417	429				18
19	437	471	455	460	466	469	469	381	325	386	399	407	427				19
20	447	461	463	463	467	465	468	354	298	389	405	393	424				20
21	457	464	464	457	468	461	464	324	289	390	404	375	420				21
22	463	470	464	456	468	459	460	312	302	389	408	380	419				22
23	464	465	467	456	465	459	459	282	332	390	409	383	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)

FEBRUARY, 1939

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	843	851	849	849	849	846	872	862	854	855	852	847	842	840	840	838	Midnight
1	841	849	849	851	847	845	868	860	855	855	850	847	843	842	839	838	1
2	841	849	849	846	847	846	867	857	852	852	849	847	842	843	838	838	2
3	842	851	847	847	846	847	863	856	851	852	849	847	842	842	839	838	3
4	841	853	849	848	847	846	861	856	852	850	847	846	842	842	839	838	4
5	843	850	850	849	847	847	860	857	852	850	847	846	842	842	840	839	5
6	843	853	852	852	852	850	861	858	853	853	847	845	842	842	839	839	6
7	844	851	854	853	858	857	864	865	857	857	847	846	845	843	844	843	7
8	845	852	857	853	859	863	877	872	866	868	854	849	848	846	847	846	8
9	843	853	860	849	857	863	884	872	872	863	861	852	847	847	840	851	9
10	837	854	850	841	853	846	887	868	877	863	860	852	836	840	828	845	10
11	837	853	843	833	842	834	875	862	869	857	852	848	820	830	815	825	11
Noon	836	851	843	833	834	827	857	843	843	847	843	842	813	825	810	813	Noon
13	830	843	846	835	833	820	844	826	828	834	827	835	812	824	807	805	13
14	823	841	845	840	831	823	844	822	828	824	819	827	816	826	807	807	14
15	820	830	844	842	835	834	852	830	834	829	828	825	821	831	815	815	15
16	823	839	843	847	839	846	857	839	840	837	836	828	827	837	823	822	16
17	831	844	847	852	843	853	864	851	847	845	843	833	835	842	828	833	17
18	840	847	850	852	843	867	864	855	851	849	843	837	838	842	832	843	18
19	843	847	849	851	845	867	862	853	850	843	845	838	838	840	837	845	19
20	843	846	848	849	846	868	862	852	850	846	844	839	838	838	840	844	20
21	843	847	849	850	848	871	863	853	852	847	845	841	840	838	840	843	21
22	844	855	851	850	848	870	864	853	853	853	846	842	840	840	839	843	22
23	847	847	850	850	847	869	861	854	855	854	846	842	840	840	840	842	23

29000 + (C.G.S. UNIT)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	Mean	Day / Hour
Midnight	841	842	838	838	838	836	832	833	868	862	847	842	847	Midnight
1	840	839	837	837	837	835	832	834	870	858	847	843	847	1
2	837	838	836	836	836	834	832	833	860	852	847	842	844	2
3	838	839	835	835	835	833	830	831	870	853	844	842	844	3
4	839	839	836	835	836	832	830	831	870	854	845	842	844	4
5	840	840	837	836	836	833	829	833	867	854	846	841	845	5
6	840	841	837	837	836	833	830	834	861	853	848	841	845	6
7	843	844	841	840	842	838	835	837	873	857	852	842	849	7
8	849	850	844	847	847	843	842	845	867	862	847	847	853	8
9	851	850	843	847	843	837	843	842	863	860	847	842	853	9
10	847	840	835	843	840	827	835	842	857	855	835	830	847	10
11	825	828	819	834	827	813	823	823	852	852	822	820	837	11
Noon	813	826	806	824	815	796	813	812	845	847	808	812	828	Noon
13	806	820	808	817	805	792	802	802	837	838	809	807	822	13
14	808	820	813	814	805	792	800	800	840	841	812	810	821	14
15	815	823	817	813	817	797	803	804	847	843	819	814	825	15
16	823	826	826	820	824	807	812	812	853	843	827	822	831	16
17	835	833	837	827	832	820	820	825	862	843	835	831	839	17
18	843	837	840	833	835	827	826	834	866	843	843	837	844	18
19	845	838	840	834	834	828	826	835	865	845	842	838	844	19
20	844	839	840	837	834	830	828	843	859	847	840	838	844	20
21	843	842	839	838	835	832	830	851	866	847	840	843	846	21
22	843	841	839	840	836	833	832	858	867	846	840	844	847	22
23	842	841	838	839	836	833	833	866	860	847	841	843	846	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, 1939

Month and day 1939	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	965.5	25.3	3.4	20.1	72	23.5	Calm		10	21.0	23.6	25.1	21.6	28.0	20.6	7.4	1.4	15	6.3	48
2	966.6	25.3	3.9	19.2	68	22.2	90	0.9	7	20.7	24.0	27.0	22.1	28.1	19.9	8.2	0.0	0	12.0	93
3	967.0	26.8	4.5	19.9	66	23.2	90	4.9	2	21.1	25.0	27.5	23.1	28.4	21.0	7.4	2.7	40	9.7	75
4	967.6	25.2	2.6	21.3	79	25.3	80	4.5	9	22.0	24.2	27.1	21.2	28.1	21.2	6.9	0.6	10	10.1	78
5	967.9	26.1	3.5	20.8	73	24.6	70	4.9	8	21.9	24.0	26.0	22.0	27.6	21.3	6.3	0.7	5	10.3	80
6	967.1	24.5	2.9	19.9	75	23.2	80	5.8	5	21.8	21.9	25.9	22.5	27.5	20.7	6.8	0.7	5	9.8	76
7	966.6	25.5	3.5	20.2	71	23.7	85	3.1	8	21.5	24.1	26.2	22.9	27.4	20.5	6.9	0.0	0	7.0	54
8	966.5	26.7	4.2	20.4	69	24.0	90	6.7	2	21.9	24.1	26.1	22.5	27.4	21.5	5.9	11.5	50	10.6	83
9	965.9	26.0	3.8	20.2	71	23.7	85	8.1	1	21.3	24.6	26.8	23.1	27.7	21.0	6.7	1.2	10	11.5	90
10	965.7	24.5	1.5	22.4	88	27.1	85	3.1	9	23.1	23.3	26.2	23.1	27.6	22.4	5.2	2.6	15	9.4	73
11	965.1	24.5	1.9	21.6	84	25.8	85	6.3	8	22.5	23.2	25.6	23.1	27.2	22.0	5.2	12.9	70	10.2	80
12	962.2	24.0	2.0	21.0	84	24.9	190	4.5	10	22.4	22.3	22.1	21.6	26.4	21.4	5.0	24.4	230	1.9	15
13	965.8	25.9	3.2	21.0	75	24.9	Calm		7	22.1	25.6	28.1	23.7	29.6	21.0	8.6	5.7	40	11.1	87
14	966.9	26.3	3.4	21.2	74	25.2	55	3.1	10	23.0	23.8	27.1	22.1	28.0	21.8	6.2	6.8	65	9.8	77
15	965.9	25.3	3.5	19.9	72	23.2	70	3.1	7	21.4	23.4	25.5	22.9	27.6	20.5	7.1	0.0	0	7.2	57
16	963.6	26.8	4.3	20.3	67	23.8	290	2.2	6	21.3	24.7	27.9	22.7	29.4	20.6	8.8	0.0	0	9.9	78
17	963.7	26.3	3.7	20.7	71	24.4	340	0.9	8	21.4	25.5	28.0	22.9	28.9	20.3	8.6	0.0	0	11.9	94
18	965.4	27.2	4.3	20.7	68	24.4	45	3.6	7	22.3	25.7	27.9	23.5	29.4	21.6	7.8	1.3	5	11.8	93
19	967.1	26.5	4.0	20.5	70	24.1	70	2.7	6	22.4	24.9	26.6	22.3	28.0	21.4	6.6	0.0	0	10.2	81
20	966.5	25.0	2.5	21.2	80	25.2	70	4.9	9	22.2	23.9	25.1	23.2	26.8	20.6	6.2	6.0	30	6.7	53
21	965.7	25.1	2.8	20.8	77	24.6	70	5.4	7	22.4	22.5	26.2	22.6	27.5	21.4	6.1	0.4	5	8.4	67
22	965.1	26.6	3.3	21.8	7[illegible]	26.1	55	2.2	7	21.9	23.4	26.6	22.4	29.3	21.1	8.2	0.0	0	6.6	52
23	964.8	27.6	5.4	19.3	61	22.4	Calm		3	21.4	26.4	29.4	24.4	30.4	20.6	9.8	0.0	0	11.9	94
24	965.4	27.2	4.1	21.0	69	24.9	Calm		[illegible]	21.9	26.9	28.8	24.4	30.3	21.1	9.2	0.0	0	11.6	92
25	965.7	21.9	0.5	21.1	95	25.0	315	0.5	10	22.6	23.4	21.9	20.5	23.6	21.6	2.0	68.7	345	0.5	4
26	964.8	22.5	0.7	21.4	93	25.5	Calm		10	20.4	20.7	21.4	21.4	23.4	19.8	3.6	6.0	105	0.0	0
27	963.3	22.2	0.1	22.0	98	26.4	110	7.2	9	21.4	21.4	21.2	20.8	23.4	20.8	2.6	117.2	400	0.0	0
28	965.7	20.9	0.5	20.1	[illegible]	23.5	110	3.6	10	20.8	21.6	23.0	21.6	25.2	20.4	4.8	13.5	145	1.1	9
Mean	965.7	25.3	3.0	20.7	75.6	24.4	...	3.3	7.0	21.8	23.9	25.9	22.5	27.6	21.0	6.6	284.3	1590	8.12	63.7
Average	963.7	24.8	2.4	21.2	80.3	25.2	...	3.6	6.9	...	...	...	...	26.8	20.7	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	- 158.7 mms.
Temperature of the Air	+ 3.4°C	Duration of Bright Sunshine	+ 21.6 hrs.
Vapour Pressure	+ 2.2 mbs.	Mean of Maximum Temperatures	+ 3.2°C
Relative Humidity	- 8.1%	Mean of Minimum Temperatures	+ 2.3°C
Velocity of Wind	+ 1.0 m.p.s.	Absolute Maximum Temperature	+ 3.7°C
Amount of Cloud	- 0.5	Absolute Minimum Temperature	+ 0.8°C

Greatest rainfall intensity at Vacoas 45 mms. in 48 mins.

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF FEBRUARY, 1939

Month and Day 1939	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		
FEB.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	min.	mms.	
1	1006.3	+ 1.8	30.6	22.3	8.3	25.5	- 0.4	2.8	21.3	- 1.1	77	- 4	25.3	20.5	1.8	35	7.7	6.3
2	1007.2	+ 2.7	31.6	20.6	11.0	26.2	+ 0.3	4.1	19.9	- 2.5	68	-13	23.2	18.8	0.0	...	5.2	2.2
3	1007.5	+ 3.0	31.3	23.8	7.5	27.0	+ 1.1	3.5	21.8	- 0.6	73	- 8	26.1	22.4	0.0	...	8.3	4.8
4	1008.2	+ 3.8	31.0	24.2	6.8	27.1	+ 1.2	3.2	22.4	0.0	76	- 5	27.1	23.3	1.6	30	7.9	6.9
5	1008.0	+ 3.6	31.2	23.8	7.4	27.2	+ 1.3	4.2	20.9	- 1.5	68	-13	24.7	23.4	0.6	35	9.3	5.0
6	1007.0	+ 2.6	30.3	23.1	7.2	26.5	+ 0.6	3.9	20.6	- 1.8	70	-11	24.2	20.4	1.8	20	10.4	6.4
7	1006.9	+ 2.5	30.2	23.0	7.1	26.8	+ 0.9	3.5	21.3	- 1.1	73	- 8	25.3	22.0	0.2	5	9.2	7.7
8	1007.6	+ 3.3	30.8	23.8	7.8	27.3	+ 1.4	3.6	21.5	- 0.9	73	- 8	25.6	21.5	1.4	20	8.3	5.3
9	1007.1	+ 2.8	31.5	25.0	7.7	26.9	+ 1.0	4.1	21.2	- 1.3	69	-13	25.2	22.0	0.0	...	10.3	1.0
10	1005.5	+ 1.2	31.1	25.0	6.1	26.9	+ 1.0	2.8	22.8	+ 0.3	78	- 4	27.8	24.3	2.2	30	9.0	4.4
11	1004.8	+ 0.4	31.0	24.0	7.0	26.9	+ 1.0	3.0	22.5	0.0	77	- 5	27.3	23.0	7.3	90	7.1	5.3
12	1002.7	- 1.7	29.8	23.8	6.0	25.6	- 0.2	2.1	22.5	+ 0.1	83	+ 1	27.3	21.6	9.2	180	8.4	6.7
13	1006.5	+ 2.1	32.9	23.4	9.5	27.6	+ 1.8	2.8	23.5	+ 1.1	79	- 3	29.0	22.3	0.0	...	4.5	5.5
14	1007.6	+ 3.2	30.2	23.7	6.5	26.4	+ 0.6	2.8	22.3	- 0.1	79	- 3	27.0	22.6	9.8	60	8.8	5.9
15	1005.4	+ 0.9	30.8	22.8	8.0	26.4	+ 0.6	3.6	21.0	- 1.4	72	-10	24.9	21.4	0.0	...	9.0	3.7
16	1003.8	- 0.7	32.3	22.6	9.7	27.4	+ 1.6	3.7	21.9	- 0.5	72	-10	26.3	21.2	0.0	...	8.5	3.3
17	1004.3	- 0.2	33.3	22.3	11.0	27.8	+ 2.0	4.1	21.8	- 0.6	70	-12	26.1	20.7	0.0	...	8.7	2.8
18	1006.3	+ 1.8	32.0	23.7	8.3	27.6	+ 1.8	3.9	21.9	- 0.5	71	-11	26.3	22.4	0.0	...	9.9	4.2
19	1007.2	+ 2.6	31.0	24.2	6.8	27.1	+ 1.3	4.2	20.8	- 1.6	69	-13	24.6	23.4	0.0	...	9.5	3.9
20	1006.6	+ 2.0	30.4	24.0	6.4	26.3	+ 0.5	3.0	21.8	- 0.6	76	- 6	26.1	22.8	0.1	5	9.8	5.6
21	1005.9	+ 1.3	30.9	23.9	7.0	26.6	+ 0.8	3.0	21.2	- 1.2	72	-10	25.2	22.7	0.8	35	6.7	4.7
22	1005.1	+ 0.4	31.3	23.8	7.5	26.8	+ 1.1	3.4	21.8	- 0.5	74	- 8	26.1	22.5	0.0	...	8.4	4.5
23	1005.2	+ 0.5	34.1	22.0	12.1	27.8	+ 2.1	3.8	22.2	- 0.1	72	-10	26.8	20.4	0.1	5	9.5	3.2
24	1006.1	+ 1.3	33.8	23.7	10.1	28.4	+ 2.7	3.5	23.3	+ 1.0	74	- 8	28.6	22.0	2.5	30	8.4	4.1
25	1005.5	+ 0.7	27.7	22.8	4.9	25.2	- 0.5	1.1	23.6	+ 1.3	91	+ 9	29.1	22.9	30.1	370	7.1	8.8
26	1003.9	- 1.0	27.2	23.1	4.1	24.5	- 1.2	1.2	22.7	+ 0.4	90	+ 8	27.6	22.0	3.1	375	1.1	9.9
27	1004.3	- 0.6	27.8	23.1	4.7	24.8	- 0.9	1.1	23.2	+ 0.9	91	+ 9	28.4	22.5	17.2	515	1.2	9.7
28	1006.0	+ 1.1	27.1	22.1	5.0	24.4	- 1.2	1.4	22.3	+ 0.1	88	+ 6	27.0	22.1	27.8	135	6.7	8.5
Mean	1006.0	+ 1.5	30.8	23.3	7.5	26.6	+ 0.8	3.1	21.9	- 0.5	75.9	- 5.8	26.4	22.0	125.6	1975	7.1	5.4
Average	1004.5	...	29.5	22.0	6.7	25.8	...	2.3	22.4	...	81.7	...	27.1	20.5	197.0	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, 1939

In many respects this month showed in its greater part the same characteristics of the drought which had already prevailed during the two preceding months. Except during the last few days pressure remained constantly above normal, the main features of anticyclonic conditions being noticed from the 1st to the 10th, on the 13th and 14th ,and again from the 18th to the 21st.

Temperature was remarkedly above average on almost all days and this was accompanied by intense shortage of humidity and rainfall. The latter was 36% below average but 70% of the total fall for the month fell from the 25th to the 28th. As previously,evaporation and sunshine were very notably above their averages.

TABLE VII (Contd.) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF FEBRUARY, 1939

Month and Day 1939	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
FEB.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C									
1	4.6	35	2.2	- 1.2	24.9	26.9	29.1	29.5		bc	c		bc	cro	bc		b
2	12.2	95	2.6	- 0.8	24.9	26.9	29.1	29.2		bo		b		bc		b	
3	10.0	85	3.5	+ 0.1	24.9	26.9	29.1	29.4			b		bc		c		
4	11.1	86	4.0	+ 0.6	25.1	26.9	29.1	29.6		cro		bc		c			bc
5	12.0	93	4.5	+ 1.1	25.1	26.9	29.1	29.7		c		bc		bcqo		b	bro
6	9.8	76	4.9	+ 1.5	25.1	26.9	29.2	29.9		b	bcro	bc	bcq		cq		c
7	7.1	55	3.3	- 0.1	25.0	26.9	29.2	29.8		c	bc		o			bc	bro
8	11.0	86	4.3	+ 0.9	25.1	26.9	29.2	29.8		bcro		bc		bcqo	cqo	bc	b
9	12.1	95	4.6	+ 1.2	25.1	27.0	29.3	30.0			b		bc			b	
10	10.7	84	4.3	+ 0.9	25.2	27.0	29.4	30.2		b		cro	bcro	cro	bcro		b
11	11.9	93	5.3	+ 1.9	25.1	26.9	29.5	30.1			croro		bc			b	
12	3.1	24	4.2	+ 0.8	25.1	27.0	29.4	29.7		b	bc	cro	c	orr	crr		bc
13	10.9	85	2.7	- 0.7	25.0	27.0	29.3	29.3					bc				
14	11.3	89	3.1	- 0.3	25.2	27.1	29.3	29.6		orr	cro		bc				b
15	12.1	95	3.1	- 0.3	25.3	27.1	29.3	29.9			b		bc			b	
16	11.1	87	2.0	- 1.4	25.1	27.1	29.4	30.0		b		bc			b		
17	12.4	98	2.5	- 0.9	25.1	27.1	29.5	30.5			b		bc			b	
18	12.2	96	2.8	- 0.6	25.2	27.1	29.6	30.7					bc				b
19	10.5	83	3.9	+ 0.5	25.3	27.3	29.8	30.9			b			bc			b
20	8.0	63	3.7	+ 0.3	25.3	27.2	30.0	30.7		b			cro		bc		b
21	9.9	79	3.1	- 0.3	25.2	27.3	30.0	30.6		bl		bcro			bc		b
22	10.8	86	2.9	- 0.5	25.3	27.2	29.9	30.5		cl		bc		b	bc		b
23	10.7	85	2.1	- 1.2	25.3	27.3	29.9	30.8			b					bc	bro
24	10.6	84	2.2	- 1.1	25.3	27.3	30.1	31.0		b			bc			b	bro
25	0.8	6	1.6	- 1.7	25.3	27.3	30.1	31.1		[illegible]	bcro	cro	ogrr	oro		ororo	oro
26	0.1	1	1.2	- 2.1	25.4	27.4	30.0	29.5		oloro	[illegible]	[illegible]	[illegible]	[illegible]	ororo	[illegible]	[illegible]
27	0.0	0	2.0	- 1.3	25.5	27.4	29.8	28.7		ol	ororo		ctroro	oltro		otsm	
28	2.0	16	2.4	- 0.9	25.5	27.4	29.5	27.8		clt	bc	c	otsw	oro	ol	cl	bcl
Mean	8.90	70.0	3.18	-0.20	25.18	27.10	29.51	29.95									
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, 1939.

Element	Highest	hrs	Date	Lowest	hrs.	Date
Atmospheric Pressure	1009.6 mbs	at 22.00	on 4th	1001.1 mbs.	at 15.00	on 12th
Temperature of the Air ...	34.1°C	at 13.20	on 23rd	20.6°C	at 06.00	on 2nd
Daily Range of temperature of the Air	12.1°C		on 23rd	41°C	at	on 26th
Temperature of the Dew Point ...	24.5°C	at 15.00	on 24th	17.9°C	at 14.00	on 2nd
Minimum on Grass				18.8°C		on 2nd
Relative Humidity	96.1°C	at 03.00	on 26th	45.7%	at 14.00	on 2nd
Vapour Pressure	30.8 mbs	at 15.00	on 24th	20.5 mbs	at 14.00	on 2nd
Evaporation in 24 hrs.	10.4 mms.		on 6th	1.1 mm.		on 26th
Wind Velocity	7.5 mps	at 10.00	on 9th	0.6 mps		often
Rainfall in 24 hrs.	44.5 mms ending 11.00		on 28th			
Duration of Sunshine	12.4 hrs		17th	0.0 hr		on 27th

Mean Day Temperature of Air 28.41°C. Average 27.63°C Mean Night Temperature of Air 24.79°C Average 24.11°C

NUMBER OF DAYS OF

	Mean Cloud Amount: 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
...	5	16	5	2	5	7	3	1	2	4	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).

FEBRUARY, 1939

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	072	075	078	085	091	083	071	077	086	074	060	050	051	080	075	050	Midnight
1	069	069	072	080	090	080	070	071	082	069	053	040	050	076	069	041	1
2	066	066	070	074	084	073	065	070	080	060	049	035	051	072	061	039	2
3	064	063	066	071	081	070	063	069	080	059	043	027	052	071	060	035	3
4	062	067	068	070	080	070	060	069	080	057	043	025	056	070	060	032	4
5	064	070	070	070	080	070	061	070	078	053	042	021	061	072	060	036	5
6	068	076	074	077	083	071	067	073	081	052	050	020	067	076	061	039	6
7	071	080	076	082	089	076	072	080	084	059	054	020	072	081	063	041	7
8	071	081	080	087	090	078	076	080	084	061	057	023	075	087	066	046	8
9	071	080	080	090	090	080	079	080	084	061	057	023	078	089	070	046	9
10	062	079	080	090	089	076	079	080	074	060	060	017	077	086	065	044	10
11	060	076	076	086	083	073	074	080	071	051	056	013	070	083	058	042	11
Noon	058	070	071	082	080	071	071	077	068	049	052	015	067	077	051	040	Noon
13	053	066	070	081	075	068	069	071	061	047	044	015	059	071	046	033	13
14	049	064	067	080	071	063	062	070	059	046	037	012	056	070	041	029	14
15	043	060	064	075	069	069	059	070	051	041	030	011	054	069	040	026	15
16	042	058	065	052	066	055	056	066	050	040	030	014	052	067	036	026	16
17	049	060	069	075	064	054	059	066	050	042	031	018	054	067	038	026	17
18	054	066	072	080	069	057	064	071	052	047	037	027	061	069	040	030	18
19	063	073	079	084	071	062	070	077	061	055	045	038	070	074	044	037	19
20	070	079	087	090	079	068	075	083	069	060	052	040	073	077	049	040	20
21	075	081	090	092	081	071	078	084	072	063	055	047	080	080	051	044	21
22	079	086	093	096	086	076	080	089	076	067	056	051	081	080	052	050	22
23	078	083	090	094	086	076	079	088	075	066	054	051	080	079	051	051	23

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

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	Mean				Hour
Midnight	047	065	076	076	066	061	060	062	064	050	040	060	067				Midnight
1	041	060	071	07[illegible]	061	060	056	061	061	044	034	059	063				1
2	040	056	070	070	060	054	051	059	056	041	029	052	059				2
3	032	051	066	063	055	050	050	056	050	033	022	050	055				3
4	031	051	068	061	055	046	049	075	047	030	023	051	055				4
5	031	053	069	062	057	053	047	058	047	034	025	050	056				5
6	034	059	071	064	059	057	050	060	051	037	030	052	059				6
7	040	063	078	070	064	060	059	066	059	043	034	056	064				7
8	044	069	081	073	070	060	060	068	061	047	040	059	067				8
9	046	070	086	079	070	062	059	069	064	048	044	073	069				9
10	047	070	088	078	071	061	059	067	062	049	050	067	067				10
11	047	067	083	073	070	060	053	063	061	046	052	063	064				11
Noon	045	066	078	073	067	052	050	060	059	041	046	063	061				Noon
13	040	061	070	065	058	041	047	057	051	037	039	060	056				13
14	036	059	069	059	051	040	046	051	049	029	037	057	052				14
15	032	055	061	051	049	032	043	049	046	028	042	050	049				15
16	031	054	059	051	044	033	041	047	046	026	044	052	047				16
17	032	054	059	052	044	039	041	051	051	028	034	053	049				17
18	038	058	068	060	049	041	044	058	056	031	044	059	053				18
19	046	061	067	062	051	044	049	060	058	037	050	062	059				19
20	055	070	070	067	056	050	051	064	059	042	060	068	064				20
21	062	075	073	070	061	053	060	070	069	044	069	076	068				21
22	064	079	077	071	062	060	063	071	055	047	068	071	071				22
23	068	080	079	070	063	060	064	069	050	043	061	070	070				23

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

Hour \ Day	FEBRUARY, 1939																														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	6	0	1	8	5	3	10	5	3	3	5	1	3	9	4	2	1	4	3	1	1	8	1	2	7	10	9	10			4.5
1	6	0	1	8	7	3	9	5	3	3	7	0	3	9	4	2	1	4	3	2	1	8	1	2	7	10	10	10			4.5
2	7	0	1	8	8	2	9	7	3	3	8	4	5	10	4	2	1	6	3	3	1	8	1	2	7	10	10	8			5.0
3	9	0	1	7	9	2	6	9	4	2	8	3	7	10	3	3	1	6	2	2	2	8	1	2	5	10	10	7			5.0
4	8	0	1	7	6	4	7	7	2	2	9	4	7	9	3	3	1	5	2	3	2	4	1	3	5	10	10	7			4.5
5	8	1	4	7	8	5	6	2	3	1	8	5	3	9	3	3	1	4	2	3	5	8	1	4	8	10	10	7			5.0
6	8	1	2	5	7	3	6	4	2	3	3	6	3	8	3	4	1	3	3	4	3	7	2	2	7	9	10	4			4.5
7	8	2	2	6	7	5	8	5	3	4	5	8	4	7	5	4	3	4	4	6	5	4	3	4	8	9	10	7			5.5
8	8	2	2	7	6	6	9	5	3	8	6	8	5	7	6	4	5	4	5	8	5	6	3	5	9	10	10	9			6.1
9	8	3	3	8	5	7	10	6	3	9	7	10	5	6	7	4	6	6	6	9	6	5	3	5	10	10	10	10			6.7
10	7	3	3	7	6	6	9	6	3	7	7	9	5	6	6	4	6	6	6	9	7	5	3	5	10	10	10	10			6.5
11	7	3	4	6	6	7	10	4	4	7	8	8	5	4	4	3	5	5	5	9	8	4	5	5	10	10	9	10			6.5
Noon	7	4	6	8	4	8	10	4	4	7	8	9	5	4	5	3	4	6	5	10	6	4	3	6	9	10	9	10			6.5
13	7	4	6	7	4	7	10	6	4	8	7	10	5	6	5	2	4	6	5	6	7	3	3	6	9	10	9	10			6.3
14	8	4	8	7	4	7	10	5	4	8	6	10	6	6	4	3	3	4	5	7	6	3	5	7	10	10	8	10			6.4
15	8	3	8	8	4	8	10	8	4	8	5	10	5	6	4	4	3	3	5	8	6	3	5	5	10	10	9	10			6.4
16	8	3	8	8	3	7	10	8	4	6	5	9	5	7	4	6	3	4	6	7	8	6	6	6	10	10	8	10			6.6
17	8	5	9	8	4	8	10	8	3	4	4	9	6	7	4	5	3	5	6	7	7	6	6	7	10	10	10	10			6.7
18	6	3	6	8	4	8	10	8	3	3	3	8	6	4	3	7	3	3	6	8	7	6	7	7	10	10	10	10			6.3
19	3	3	6	7	3	8	8	6	5	2	2	9	6	4	3	7	2	3	4	9	5	1	5	3	10	10	10	10			5.5
20	2	2	8	5	3	9	5	2	1	1	3	6	7	0	2	1	2	1	3	5	4	1	4	2	10	10	10	[illegible]			4.2
21	2	2	8	5	3	9	2	2	1	1	3	5	7	0	1	1	2	3	2	3	3	1	3	2	10	10	10	7			3.9
22	2	2	8	6	3	9	2	1	1	1	1	5	8	1	1	1	2	3	2	3	2	1	2	2	10	10	10	6			3.7
23	3	1	6	6	3	9	2	1	1	1	1	4	8	1	1	1	2	3	2	3	2	1	2	2	10	10	10	6			3.6

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

Hour Ending \ Day	FEBRUARY, 1939																														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			hrs.
6h	0	16	16	2	1	0	6	0	6	0	0	0	2	0	1	0	6	6	0	0	0	0	10	10	0	0	0	0			1.3
7	0	60	60	60	57	59	42	25	60	39	40	0	55	47	60	54	60	60	11	30	10	0	60	60	32	0	0	51			18.2
8	11	60	60	60	52	60	56	60	60	38	60	0	56	48	60	60	60	60	50	60	60	44	60	60	14	0	0	60			22.2
9	25	60	60	60	60	60	50	60	60	55	60	8	60	54	60	60	60	60	55	12	60	60	60	60	0	0	0	7			21.4
10	60	60	60	60	60	60	60	60	60	60	59	36	60	60	60	60	60	60	60	60	26	60	60	60	0	0	0	0			23.0
11	49	60	60	60	60	60	60	60	60	60	60	43	60	60	60	60	60	60	60	56	47	60	60	60	0	0	0	0			23.3
Noon	25	60	60	60	60	53	17	60	60	60	60	12	60	60	60	60	60	60	60	12	55	60	60	47	0	0	0	0			20.7
13	0	60	55	60	60	50	10	60	60	60	60	7	60	60	60	60	60	60	60	5	60	60	60	26	0	0	0	0			19.5
14	22	60	26	60	60	26	20	60	60	50	60	0	56	60	60	60	60	60	60	60	60	60	60	20	0	0	0	0			19.7
15	33	60	58	60	60	35	52	48	60	55	60	17	34	60	60	60	60	60	60	56	60	60	52	60	0	0	0	0			21.4
16	23	60	48	60	60	36	38	60	60	55	60	18	59	60	60	60	60	60	60	55	57	60	20	60	0	0	0	0			20.8
17	17	60	13	55	60	59	13	48	60	59	60	32	57	60	60	60	60	60	60	58	57	60	24	60	0	0	0	0			20.1
18	11	55	9	10	60	33	0	57	58	55	60	15	36	46	60	12	60	60	35	18	45	58	42	54	0	6	0	0			15.9
19	2	0	13	0	13	0	0	0	3	0	12	0	0	5	4	0	16	5	0	0	0	10	14	1	0	0	0	0			1.6

The total amount of registered sunshine was 249.1 hrs. and the total possible was 356.3 hrs.

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)

FEBRUARY, 1939

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	22.6	1.4	24.1	1.6	24.3	2.2	25.0	1.1	25.9	3.0	24.0	1.9	25.2	2.9	24.6	1.6	Mid-night
1	22.6	1.4	23.4	1.3	24.2	2.1	25.1	1.1	27.5	2.7	24.2	2.1	24.7	2.5	24.6	1.5	1
2	23.0	1.5	23.1	1.2	24.1	2.0	24.9	0.9	25.2	2.7	24.2	1.8	24.2	2.2	23.4	1.2	2
3	23.2	1.2	22.1	1.1	24.0	1.9	24.3	0.7	25.3	2.3	24.3	2.2	23.8	2.7	23.1	1.1	3
4	23.1	1.1	22.1	1.1	24.0	1.9	24.2	0.7	25.0	2.4	23.4	1.7	24.0	2.7	23.7	1.1	4
5	23.0	1.3	21.1	1.1	23.9	1.8	24.3	0.9	24.6	2.3	23.1	1.4	23.3	2.2	24.1	1.1	5
6	23.[illegible]	1.8	20.6	1.2	23.9	1.8	24.4	0.9	25.0	2.1	23.6	1.5	23.1	2.1	24.1	1.1	6
7	24.3	2.0	24.0	1.9	26.2	3.0	26.0	1.7	26.6	3.0	25.3	2.8	25.0	2.8	24.7	1.4	7
8	26.1	3.1	26.8	4.1	28.0	4.2	27.1	2.7	27.2	3.4	26.5	3.5	27.2	3.6	26.9	3.0	8
9	27.2	4.1	28.3	5.4	29.0	5.2	28.7	3.9	28.3	4.7	27.8	4.6	27.7	4.4	27.8	4.0	9
10	28.5	5.4	29.3	6.5	29.3	5.4	27.7	3.0	29.6	5.8	28.7	5.6	29.1	5.5	29.0	5.2	10
11	29.7	6.1	29.5	6.7	30.1	6.0	29.8	6.2	30.3	6.4	29.2	6.6	29.8	6.3	29.8	6.5	11
Noon	28.2	4.1	30.3	7.5	31.0	7.0	30.1	5.9	30.4	7.2	29.8	6.8	29.5	5.6	30.3	6.5	Noon
13	26.3	2.5	30.7	8.4	31.0	6.7	30.3	6.2	30.7	6.8	29.5	6.7	29.5	5.7	30.2	6.7	13
14	26.4	2.2	31.0	8.5	30.7	6.5	30.1	6.1	30.9	8.1	29.1	6.1	29.6	5.8	29.8	6.3	14
15	27.0	3.2	30.0	7.4	29.7	5.2	30.0	5.8	30.3	7.0	28.8	5.8	27.8	5.6	29.7	6.4	15
16	27.5	3.7	30.0	7.6	29.7	5.6	29.7	5.6	29.6	6.8	28.2	5.2	29.1	4.8	29.7	6.4	16
17	27.6	3.6	28.9	5.6	28.2	4.1	28.7	4.6	28.8	6.2	28.3	5.4	28.1	4.3	28.8	5.4	17
18	27.1	4.4	27.9	5.7	27.7	3.6	27.7	3.7	27.7	5.1	27.6	4.7	27.3	3.5	27.8	4.0	18
19	26.1	3.8	26.3	4.0	26.4	2.5	26.8	2.8	26.6	4.1	26.3	3.3	26.5	3.0	26.6	3.3	19
20	25.2	2.6	25.6	3.5	26.0	2.1	26.2	2.4	25.4	2.5	26.0	3.0	25.9	2.6	26.3	3.0	20
21	24.9	2.5	24.9	2.8	26.0	2.0	26.2	2.6	25.2	2.6	25.7	2.8	25.0	1.9	25.7	2.5	21
22	24.2	1.9	24.8	2.7	25.6	1.8	26.2	2.6	25.0	2.7	25.9	3.4	25.0	1.8	25.8	2.7	22
23	24.1	1.8	24.5	2.3	24.9	1.2	26.1	2.9	23.9	1.5	25.5	3.1	25.0	1.7	25.6	2.6	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	25.6	2.6	25.7	1.6	25.1	1.6	25.1	2.0	25.8	1.6	25.5	1.2	23.7	1.6	24.0	1.7	Mid-night
1	25.2	2.9	25.6	1.6	25.1	1.5	24.9	2.0	25.5	1.4	25.0	1.1	23.8	1.7	23.8	1.6	1
2	25.0	2.8	25.4	1.5	24.6	1.3	24.4	1.9	25.6	1.5	25.1	0.9	23.6	1.5	23.1	1.2	2
3	24.2	2.1	25.2	1.5	24.1	0.7	25.0	2.3	25.2	1.2	24.3	0.5	23.2	1.4	22.9	1.3	3
4	23.9	2.1	25.0	1.2	24.6	0.9	25.1	2.3	25.0	1.2	24.1	0.7	23.2	1.6	23.0	1.2	4
5	23.9	2.6	25.0	1.1	24.8	0.8	25.2	2.2	24.2	1.0	24.1	0.5	23.1	1.6	22.7	1.1	5
6	23.9	2.3	25.0	1.2	24.8	1.0	25.0	2.3	23.6	1.0	24.4	0.5	22.9	1.7	22.7	1.3	6
7	25.6	3.0	26.0	1.6	25.3	1.1	25.8	3.6	25.0	0.8	25.2	1.4	24.3	1.9	24.2	1.2	7
8	27.7	4.5	26.2	1.3	26.7	2.3	26.4	3.3	27.1	2.1	26.0	2.0	26.7	3.7	27.2	2.9	8
9	28.7	5.3	27.1	2.4	27.6	3.3	27.8	4.2	29.0	2.8	27.3	3.0	27.5	3.6	29.0	4.4	9
10	29.3	6.1	29.1	4.4	28.9	4.6	28.1	4.1	30.1	4.1	28.6	4.0	29.0	5.6	31.0	5.5	10
11	30.6	7.1	30.5	6.2	29.7	5.2	29.0	5.0	31.3	5.3	28.9	4.3	29.7	6.1	31.2	6.1	11
Noon	30.6	6.9	[illegible]	5.4	29.8	4.9	27.8	3.1	32.1	6.2	29.3	5.3	30.0	6.8	32.0	6.4	Noon
13	30.6	6.9	[illegible]	6.0	30.2	6.0	25.8	1.8	32.7	6.6	29.6	5.3	30.1	6.6	32.3	6.7	13
14	31.1	7.1	28.8	3.3	30.1	5.7	25.0	1.1	30.9	5.4	29.9	6.0	30.1	6.3	31.6	6.7	14
15	30.7	6.5	29.1	4.6	30.2	5.3	23.8	0.5	30.3	4.8	29.4	6.1	29.6	5.8	31.6	6.[illegible]	15
16	30.1	6.0	29.3	5.0	30.0	5.7	24.9	1.2	30.0	5.3	29.1	5.8	29.3	5.7	31.1	6.5	16
17	29.3	5.3	27.0	2.7	29.0	5.1	24.1	0.8	29.2	4.6	28.3	5.2	28.7	5.2	30.3	5.3	17
18	28.2	4.2	27.2	3.2	27.7	4.5	24.7	0.9	28.2	3.5	27.2	4.5	27.7	4.5	29.3	5.3	18
19	27.0	3.2	26.0	2.2	26.2	2.9	24.4	1.2	27.2	2.2	26.1	3.2	26.4	3.3	28.1	4.2	19
20	25.8	2.8	25.6	1.7	25.8	2.5	24.9	1.2	26.9	1.9	25.1	2.2	26.0	1.0	27.8	3.8	20
21	25.9	2.2	25.4	1.9	25.7	2.0	25.8	1.6	26.6	1.8	24.5	1.8	25.3	2.2	26.6	3.3	21
22	25.9	1.9	25.3	1.5	25.3	1.8	25.8	1.7	26.1	1.5	24.2	1.6	24.7	1.9	25.9	2.8	22
23	25.6	1.6	25.1	1.8	25.1	1.9	25.7	1.5	25.9	1.7	24.0	1.7	24.0	1.6	25.3	2.3	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 temperatires on the absolute scale add 273)

FEBRUARY, 1939

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	24.9	2.2	25.9	2.3	25.9	2.6	24.8	2.5	24.4	1.3	24.4	1.4	24.1	1.9	26.0	1.7	Mid-night
1	24.0	1.8	25.2	1.9	25.3	2.3	24.9	2.6	24.4	1.3	24.0	1.2	23.8	1.8	25.2	1.2	1
2	23.7	1.6	25.1	1.9	25.4	2.2	24.4	2.2	24.2	1.1	24.1	1.2	23.1	1.6	24.9	1.3	2
3	23.1	1.4	24.7	1.7	25.5	2.2	24.1	2.2	24.1	1.1	24.2	1.2	23.2	1.4	24.4	1.2	3
4	23.1	1.4	24.3	1.5	25.3	2.3	24.0	2.3	24.3	1.3	24.2	1.2	22.9	1.7	24.0	1.2	4
5	22.9	1.5	24.6	1.6	25.9	2.2	24.1	2.0	24.3	1.0	24.3	1.1	22.4	1.3	23.8	1.1	5
6	22.3	1.2	24.0	1.7	24.4	2.1	24.1	1.8	24.0	1.1	24.0	1.1	22.0	1.3	23.8	1.1	6
7	24.1	1.4	25.6	2.0	24.5	1.8	24.9	2.0	24.1	1.2	24.1	1.3	24.9	2.4	25.0	1.0	7
8	27.5	3.3	28.2	1.1	27.0	3.6	27.3	4.0	26.0	2.8	26.1	2.8	27.3	3.5	28.1	2.9	8
9	29.0	4.1	29.3	5.1	28.8	5.6	25.0	1.7	27.7	3.0	28.2	3.6	29.2	4.9	30.0	4.6	9
10	30.1	5.4	30.1	5.5	29.0	5.0	28.2	4.3	28.0	4.0	29.5	5.0	30.8	5.8	31.5	5.5	10
11	31.3	6.4	30.7	6.5	30.0	6.9	28.7	4.7	29.0	5.8	30.2	6.0	31.9	6.7	32.9	6.9	11
Noon	31.8	6.1	31.1	6.1	30.6	6.7	26.0	2.3	29.3	5.0	30.7	6.0	33.3	7.3	33.1	6.7	Noon
13	32.8	7.8	31.3	6.3	30.6	7.0	28.1	5.1	28.8	5.3	31.0	6.4	33.6	7.4	32.2	5.8	13
14	33.2	8.0	31.2	6.5	30.9	7.4	29.7	5.3	30.0	5.3	30.9	7.0	34.0	7.7	31.3	5.1	14
15	32.9	7.5	30.4	6.4	30.3	7.2	29.6	5.3	30.6	5.8	30.3	6.3	33.9	7.1	32.1	5.4	15
16	32.1	7.1	30.1	6.3	29.1	6.4	28.7	4.4	29.3	5.2	29.8	7.9	31.0	5.2	31.7	6.0	16
17	31.5	6.8	29.2	5.1	28.8	6.1	28.5	4.7	28.9	4.9	29.0	5.3	30.1	4.5	31.7	5.7	17
18	30.4	5.4	28.0	4.7	27.0	4.4	27.3	3.2	27.9	4.2	27.9	4.6	29.5	4.5	30.9	5.4	18
19	29.4	5.4	27.0	3.0	26.0	4.0	26.7	2.7	26.5	3.4	26.6	3.6	28.2	3.2	29.1	4.0	19
20	27.7	3.6	26.9	3.1	25.5	3.6	25.9	1.8	26.0	2.8	25.9	3.0	27.8	3.0	28.2	3.1	20
21	26.6	2.9	26.6	3.0	25.5	3.4	25.2	1.5	25.6	2.4	25.0	2.5	27.1	2.5	27.7	3.0	21
22	26.0	2.7	26.2	2.8	25.7	3.6	25.1	1.2	25.3	2.1	24.7	2.3	26.4	2.3	27.3	2.3	22
23	25.9	2.3	26.1	2.9	25.3	2.8	25.0	1.5	25.1	1.9	24.3	2.0	26.0	2.0	26.3	1.9	23

Day / Hour	25		26		27		28		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.							
Midnight	26.1	1.3	23.3	0.5	2[illegible].3	2.0	23.8	0.8	23.0	1.8							Mid-night
1	25.9	1.3	23.2	0.6	24.6	2.3	23.8	0.8	22.9	1.7							1
2	25.3	1.2	23.3	0.5	24.7	2.0	23.9	0.9	22.8	1.5							2
3	25.0	1.0	23.2	0.5	24.6	1.4	23.6	0.8	22.6	1.5							3
4	25.0	1.1	23.3	0.7	24.2	0.9	23.2	0.7	22.5	1.5							4
5	24.6	0.9	23.4	0.6	24.1	0.8	23.5	0.9	22.5	1.3							5
6	24.8	0.9	23.6	0.8	24.1	0.8	23.6	0.9	22.4	1.3							6
7	25.3	0.8	23.3	0.7	24.3	0.5	24.2	1.0	23.2	1.7							7
8	26.7	1.6	24.1	1.0	25.1	0.8	26.3	1.7	23.8	3.0							8
9	27.1	1.4	25.1	1.2	25.7	0.8	24.7	1.6	24.1	3.7							9
10	26.9	1.7	26.0	2.0	25.1	0.7	22.2	0.2	24.2	4.5							10
11	25.2	0.8	27.0	2.8	25.1	0.9	23.6	0.7	24.1	5.4							11
Noon	26.4	1.2	27.2	2.6	26.2	1.1	25.0	1.3	24.4	5.3							Noon
13	26.8	1.7	25.9	1.5	27.6	2.4	25.1	1.5	24.3	5.5							13
14	27.0	1.8	25.1	1.2	27.1	2.5	25.9	2.4	24.3	5.4							14
15	26.9	1.8	25.1	1.2	25.5	1.4	26.2	2.3	24.3	5.1							15
16	26.0	1.2	25.9	1.3	25.0	1.1	25.9	2.8	24.0	5.0							16
17	23.3	1.0	25.3	1.2	25.0	1.1	25.6	2.5	23.9	4.3							17
18	23.2	0.6	24.8	1.6	24.7	0.8	25.1	2.0	23.6	3.8							18
19	23.8	0.8	24.2	0.9	24.7	0.8	24.6	1.4	23.5	2.9							19
20	24.0	0.9	24.1	1.1	24.3	0.6	24.3	1.1	23.4	2.5							20
21	23.9	0.9	24.0	1.0	24.1	1.0	24.0	1.2	23.3	2.2							21
22	23.5	0.5	23.9	1.2	23.3	0.8	23.8	1.5	23.2	2.0							22
23	23.5	0.6	24.0	1.2	23.2	1.0	23.8	1.5	23.1	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 FEBRUARY, 1939

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, 1939

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	1.6	10	1.9	10	2.0	09	2.2	08	3.3	10	3.4	10	4.1	10	1.6	09	4.1	10	2.7	10	3.4	[illegible]	[illegible]	32	3.2	06	1.3	08	2.5	08	1.7
1	09	0.9	10	1.5	10	1.7	10	2.3	08	3.4	09	3.7	10	2.5	10	2.9	09	3.9	10	3.2	10	3.0	15	1.6	32	3.3	06	1.8	08	2.6	08	1.8
2	09	1.1	10	1.2	10	1.8	09	2.2	08	2.8	09	2.8	10	3.1	09	2.4	10	2.2	10	3.6	11	3.7	15	1.6	31	3.2	06	2.2	08	3.8	08	1.5
3	09	0.9	10	0.9	10	1.5	10	2.5	07	2.6	09	3.0	10	2.2	11	1.9	10	2.2	10	3.5	10	3.9	15	2.3	32	2.0	06	2.4	08	2.8	08	0.9
4	09	0.6	10	1.3	10	1.8	10	2.3	08	2.7	11	4.1	10	2.8	11	2.0	11	2.2	10	3.5	10	3.4	18	2.6	32	1.5	06	2.5	08	3.8	08	1.1
5	09	1.6	11	1.5	11	1.8	09	2.9	08	2.1	11	2.5	11	2.1	09	3.1	10	3.0	10	4.2	09	4.1	14	2.9	03	1.5	03	0.7	08	2.5	10	1.1
6	10	1.4	10	1.2	11	2.0	09	2.6	08	2.1	10	3.0	11	1.8	09	2.6	10	3.0	09	5.0	09	4.4	17	2.9	03	1.4	03	1.1	08	3.5	10	1.1
7	10	1.6	10	1.3	11	3.2	10	2.7	08	3.2	10	3.4	11	1.9	09	3.0	10	3.9	11	4.4	10	4.2	18	4.9	10	1.3	07	2.3	09	2.4	10	0.6
8	10	2.2	11	3.1	09	4.1	08	4.5	08	4.8	08	5.8	09	4.2	09	4.4	10	6.1	09	4.3	09	5.7	19	4.4	01	2.2	07	1.6	09	3.1	01	1.8
9	10	2.2	11	3.3	09	4.8	09	4.6	08	5.2	08	6.8	08	4.9	09	5.3	10	7.0	09	5.4	09	6.7	17	5.0	01	1.1	06	4.6	06	3.2	01	2.3
10	10	2.1	10	3.4	10	4.8	06	4.3	08	5.7	08	7.0	10	4.7	09	7.0	09	7.5	08	5.7	10	7.5	18	4.6	01	3.2	06	1.4	06	4.1	30	3.0
11	10	2.7	05	3.4	06	4.6	08	5.6	09	5.9	08	6.3	08	2.8	08	5.7	09	6.7	10	6.3	08	7.5	20	5.8	03	3.2	07	4.6	07	4.0	31	4.8
Noon	21	3.9	06	3.6	08	4.2	08	5.0	06	6.1	08	6.5	08	6.9	09	5.4	09	6.4	05	5.5	10	7.3	20	8.2	01	3.5	06	4.1	04	4.2	30	1.9
13	20	3.9	06	4.3	08	4.4	08	5.0	07	6.8	08	6.4	08	4.5	08	5.3	10	5.9	10	4.8	08	7.6	20	6.6	01	4.0	06	4.4	07	4.4	30	3.9
14	23	3.4	09	3.9	09	5.1	08	4.7	07	6.0	07	5.9	06	4.4	09	5.1	12	6.0	09	5.6	11	8.0	20	4.6	05	3.4	06	4.4	07	4.3	28	4.4
15	20	3.4	08	4.3	09	5.2	09	5.0	10	6.0	08	5.5	08	4.4	09	5.6	09	5.7	06	4.5	09	7.8	20	6.4	05	3.3	06	4.1	07	4.2	29	3.8
16	20	3.3	11	4.3	09	5.1	09	5.4	10	6.1	08	6.4	06	3.7	09	5.9	12	6.1	08	4.9	09	8.4	20	6.0	05	3.9	06	4.3	06	3.8	25	3.5
17	21	1.7	09	4.3	09	4.8	09	5.0	08	6.2	08	6.2	08	3.7	08	5.9	12	6.0	08	4.1	08	8.1	20	4.6	06	3.0	08	4.1	07	3.8	26	2.8
18	10	3.6	09	4.2	09	4.5	10	5.0	09	6.5	08	6.6	06	3.1	10	4.7	10	5.7	09	5.0	11	7.2	23	4.0	06	3.2	07	3.3	07	3.1	26	2.4
19	09	3.6	10	3.0	10	4.6	09	4.5	09	4.7	09	5.0	08	2.8	09	6.5	11	4.4	10	4.1	11	4.4	23	4.6	05	2.1	08	3.0	07	2.4	28	1.6
20	10	2.4	10	2.0	10	3.0	09	4.1	09	4.1	09	4.3	11	1.9	10	4.2	11	4.0	10	2.7	10	3.7	22	3.4	05	2.1	08	2.0	08	1.8	28	0.[illegible]
21	10	1.7	10	1.3	09	3.0	08	4.3	09	4.2	10	4.3	11	1.8	09	4.3	11	3.5	10	3.2	10	3.2	25	4.7	07	2.0	08	2.8	08	1.3	28	0.[illegible]
22	10	1.6	10	2.1	09	3.8	09	5.1	09	4.0	09	4.2	11	1.6	09	4.4	11	3.2	09	4.1	12	3.1	28	3.8	06	2.6	08	3.0	08	1.2	27	0.[illegible]
23	10	1.6	10	1.8	11	3.0	09	3.1	09	4.0	10	4.1	11	1.6	09	4.3	10	2.5	10	3.7	12	2.1	31	2.9	06	2.2	08	2.5	08	1.2	27	0.8

Hour \ Day	* 17		18		19		20		21		22		* 23		* 24		* 25		26		27		28								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.							
Mid-night	28	1.3	05	1.2	08	2.5	08	4.1	08	2.0	09	1.9	10	1.7	07	0.6	04	0.8	18	1.1	13	1.5	09	2.7							2.2
1	28	1.5	05	1.1	08	2.4	09	3.2	08	2.3	09	2.2	10	1.0	07	1.1	09	1.1	18	0.9	16	1.6	09	1.6							2.1
2	28	1.5	05	1.4	08	1.4	09	3.1	08	2.1	09	2.1	10	1.2	10	1.1	09	1.1	18	0.7	13	1.2	09	1.8							2.1
3	28	1.4	06	1.0	08	1.5	09	2.7	09	2.3	09	1.8	10	1.6	10	0.9	09	1.1	18	0.7	15	0.7	09	1.5							1.9
4	28	1.3	06	1.2	07	2.4	09	2.9	09	2.9	09	1.9	09	1.5	10	1.1	10	1.0	18	0.6	15	1.1	09	1.1							2.0
5	28	1.1	06	1.7	08	3.5	10	3.6	06	2.1	09	1.7	10	1.7	10	1.5	09	1.1	18	1.1	16	1.1	09	2.3							2.2
6	28	1.8	06	1.4	08	2.6	10	2.5	09	2.9	09	2.0	10	1.2	10	1.3	09	0.9	20	1.3	17	0.8	10	1.3							2.1
7	28	1.1	06	1.1	08	1.1	10	3.2	09	4.4	10	2.6	10	1.1	10	1.0	04	1.0	20	0.7	17	0.8	09	0.9							2.3
8	03	1.9	06	2.4	06	3.4	08	5.4	09	3.3	09	3.5	06	2.0	06	0.9	32	1.3	20	0.6	19	1.1	10	2.9							3.3
9	30	2.9	05	3.3	09	4.4	08	4.2	08	4.2	08	3.2	06	1.4	32	2.5	31	2.5	20	1.5	23	2.5	09	3.5							4.0
10	02	3.4	03	3.7	07	4.9	06	5.5	05	4.1	05	4.2	07	2.6	02	3.3	31	3.6	21	2.1	30	4.5	09	2.6							4.3
11	02	4.0	06	4.2	07	4.4	07	5.4	06	4.4	04	4.0	32	3.4	02	3.2	25	2.2	20	2.6	32	2.2	10	2.2							4.4
Noon	01	4.3	05	4.4	08	4.7	06	5.3	03	4.7	05	3.5	30	3.4	01	5.1	29	0.9	20	1.9	03	1.9	12	3.5							4.5
13	01	4.3	04	4.2	07	5.2	05	4.8	05	4.9	05	4.2	01	4.0	30	4.1	31	3.4	17	1.2	32	4.0	09	3.5							4.6
14	30	4.2	04	4.0	08	4.5	08	4.8	05	4.5	09	3.7	32	4.4	30	3.7	31	2.7	07	1.3	01	4.0	08	3.8							4.5
15	32	4.2	04	4.0	08	5.0	05	4.4	05	4.9	05	4.1	32	4.6	30	4.3	28	1.8	06	1.5	10	2.3	10	3.7							4.4
16	32	3.9	06	3.6	10	5.4	08	4.5	06	3.5	05	4.1	32	3.3	29	3.7	28	2.7	03	1.1	07	3.1	08	3.6							4.4
17	32	3.7	07	4.2	09	5.3	06	4.1	06	3.5	06	3.3	05	3.2	28	3.0	17	3.1	02	2.6	04	1.8	08	1.7							4.0
18	02	3.0	07	4.2	08	5.4	08	3.6	05	3.2	06	3.2	05	2.6	29	2.5	16	1.1	10	1.2	07	1.6	08	1.8							3.8
19	03	2.2	08	4.2	10	4.4	08	3.0	06	2.2	07	2.2	05	2.3	29	1.8	18	1.3	08	1.1	07	1.3	08	1.6							3.2
20	03	1.9	06	3.2	09	4.1	08	2.4	06	1.4	08	2.4	05	1.2	31	1.3	18	1.1	08	1.0	10	1.6	08	2.4							2.5
21	03	1.1	08	2.4	09	4.4	08	2.5	06	1.3	10	2.9	05	0.7	31	0.8	18	0.6	09	1.0	10	1.0	08	2.0							2.5
22	03	1.4	08	2.8	09	4.8	08	2.5	07	1.4	10	2.3	05	0.9	31	1.0	18	0.7	10	1.4	09	2.0	09	2.9							2.6
23	05	1.2	07	2.7	10	4.4	08	2.3	07	1.4	10	2.3	07	0.7	01	1.9	18	0.6	11	0.6	09	2.1	09	2.7							2.4

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) FEBRUARY, 1939

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	...	-	28	1	...	...	2	11	9	1	...	2	1	...	...	...	1	...	...
9	...	3	25	4	...	1	3	13	2	1	...	1	...	1	...	1	...	...	1
15	...	6	22	2	...	5	3	10	3	...	...	...	...	2	...	...	...	2	1
21	...	-	28	1	...	2	1	12	7	2	...	...	1	...	...	1	...	1	...
Total	...	...	...	8	...	8	9	46	21	4	...	3	2	3	...	2	1	3	2

TABLE XIV A - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR FEBRUARY, 1939

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	..	..
2	..	..	..	0.5	..	..	..	1.3	..	..	0.1	..	..	1.3	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..
3	..	..	1.1	..	..	..	..	..	..	..	4.5	..	..	8.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	1.6	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..
5	..	..	..	..	..	0.2	..	..	..	..	0.6	..	..	0.1	..	..	..	..	..	..	0.4	..	..	..	..	0.2	0.2	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.4	0.1	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	2.6	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5.3	..
10	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.2	..	5.9	34.6
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	1.8
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.2	..	..	..	..	..	0.4	0.1
13	0.3	..	..	..	..	..	..	..	..	..	..	2.0	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	1.3
14	1.5	..	..	..	..	..	..	..	..	0.3	..	1.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	0.8	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	0.1	..
16	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	1.9	0.1	..	..
17	..	..	..	..	..	..	..	..	..	0.7	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	4.9	..	0.5	..
18	..	..	..	..	..	..	..	..	..	..	..	2.9	..	..	..	..	..	..	..	..	..	..	..	..	5.8	..	0.4	..
19	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	2.2	..	0.1	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.2	0.1	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.5	..
23	..	..	..	..	0.5	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.0	0.1	..	..	..
24	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.4	0.1	..	..	..

TABLE XIVB - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR FEBRUARY, 1939

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	..	..	..	0.3	..	..	..	0.4	..	..	0.3	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	...	..	..	..	..	0.3	..	6.1	..	..	7.5	..	..	1.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	4.8	..	..	0.4	..	..	2.5	..	..	..	..	..	..	..	..	..	..	..	0.2	0.3	0.9
5	..	..	..	..	..	..	..	..	..	0.1	0.5	..	..	2.3	..	..	..	..	..	..	..	..	..	..	..	1.3	0.3	0.2
6	..	..	..	..	..	..	..	..	..	0.1	0.7	3.0	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..
7	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	0.7
8	..	..	..	..	..	..	..	..	..	0.1	0.4	0.4	..	..	..	..	..	..	..	..	..	..	..	..	2.0	..	..	..
9	..	..	..	..	..	0.4	..	..	..	0.9	..	0.3	..	..	..	..	..	..	..	..	0.1	..	..	..	2.6	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..	..	0.2
11	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	5.4	..	..	..	..	33.0	..	..	1.2
12	..	..	..	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	..	..	0.6	..	..	..	4.2	0.2	0.5	0.3
13	..	..	..	..	..	..	..	..	..	..	..	2.9	..	..	..	..	..	..	..	..	0.3	..	..	..	0.9	0.8	1.5	..
14	..	..	..	..	0.1	..	..	..	..	..	..	2.3	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	4.5	..
15	..	..	..	..	..	..	..	..	..	0.8	..	2.8	..	..	..	..	..	..	..	..	..	..	..	..	3.5	0.6	35.1	0.3
16	...	..	..	..	..	..	..	..	..	0.1	..	3.2	..	..	..	..	..	..	..	..	..	..	..	..	14.8	..	0.7	0.5
17	..	..	..	..	..	..	..	..	..	..	..	5.2	..	..	..	..	..	..	..	..	..	..	..	..	3.5	..	1.4	0.2
18	..	..	..	..	..	..	..	..	..	..	..	2.2	..	..	..	..	..	..	..	..	..	..	..	..	0.8	..	5.3	..
19	..	..	..	..	..	..	..	..	..	0.5	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	1.0	0.4	26.4	..
20	..	..	..	0.1	0.6	..	..	..	0.2	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7	0.4	33.9	..
21	1.4	..	..	..	..	..	..	..	0.2	..	0.1	..	1.5	..	..	..	..	1.2	..	..	..	..	..	..	0.4	0.5	4.9	..
22	..	..	..	0.2	..	..	..	0.1	0.5	..	0.5	..	1.5	..	..	..	..	..	..	..	..	..	..	..	0.5	0.5	..	..
23	..	..	2.7	..	..	..	..	..	0.2	..	0.1	..	2.4	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..
24	..	..	..	..	..	..	..	0.3	0.1	..	1.2	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR FEBRUARY, 1939

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	3.64	92.5	5.59	13
	Saint Antoine	50	4.78	121.4	6.31	13
	Bel Mont	50	5.22	132.6	6.90	12
	Poudre d'or	20	5.19	131.8	6.48	12
	Mont Loisir S.E.	300	7.21	183.1	7.77	12
	Forbach	300	3.92	99.6	7.29	10
	[illegible]	...	...	...	6.36	..
	Labourdonnais	250	3.13	79.5	8.42	11
	Mapou Water Office	...	2.73	69.3	...	8
	Beau Sejour	300	3.81	96.8	9.24	12
	Mont Piton	650	4.87	123.7	10.41	13
	Mon Choisy	700	2.95	74.9	9.71	12
	Antoinette	640	7.34	186.4	9.92	13
	Mon Songe	620	10.92	277.4	9.94	17
	Botanical Gardens	325	5.45	138.4	8.97	13
	Observatory	179	4.95	125.6	7.51	18
	Solitude	175	5.66	169.2	5.31	13
	Saint Andre (Cour)	90	4.30	109.2	6.29	8
	La Nicoliere	...	12.11	307.6	12.75	19
	California	...	12.67			
	Australia	...	13.05	231.5	...	16
2 & 3	Union Regnard (Flacq S.E.)	600	10.23	259.8	10.21	15
	Constance d'Arifat (L.S.)	100	9.49	241.0	8.53	21
	Rich Fund	600	10.81	274.6	9.71	22
	La Joffrette	...	9.01	228.9	...	13
	Belle Vue (Allendy)	...	10.60	269.2	8.80	19
4	Sans Souci	900	16.71	424.4	16.13	19
	Beau Champ (G.R.S.E.)	20	8.76	222.5	7.44	15
	Olivia	400	10.26	260.6	10.81	18
	Trois Ilots	...	10.75	273.1	...	18
	Belle Rive	400	10.50	266.7	10.44	17
	Sebastopol	700	17.36	440.9	...	18
	Bonne Veine	400	16.37	415.8	15.48	18
5	Rose Belle	850	15.49	393.4	17.65	20
	New Grove	650	21.01	533.7	17.50	21
	Mon Tresor	...	8.56	217.4	...	15
	Mon Desert (Carie)	75	9.73	247.1	8.04	15
	Ferney	20	8.47	215.8	11.45	15
	Sauve-Terre	...	9.96	253.0	...	17
	Tivoli	1300	14.57	370.1	17.69	22
	La Flora	1050	14.88	378.0	16.07	20
	Riche Bois (Britannia)	650	12.46	316.5	10.72	17
6	Britannia (Estate)	700	12.55	318.8	13.83	19
	Savannah (mill)	200	8.20	208.3	10.32	17
	Saint Aubin	300	7.19	182.6	9.35	19
	Saint Avold	900	13.83	351.3	15.01	22
	Colmar	400	12.75	323.9	11.08	19
	Union S.E.	...	9.56	242.8	8.54	15
	Fontenelle	320	11.09	281.7	8.83	17
	Choisy	200	6.96	176.8	7.45	10
	Beau Bois	...	9.93	252.2	...	16
	Bel Air	...	8.62	218.9	8.70	13
	Saint Felix	...	11.96	303.8	...	14
7, 8, 9 & 10	Bel Ombre	40	6.53	165.9	8.49	12
	Beau Champ (Baie du Cap)	70	5.30	134.6	7.82	11
	Frederica	...	6.53	165.9	8.43	14
	Pierrefonds	...	8.26	209.8	7.96	10
	Sainte Marie	...	6.36	161.3	...	14
	Hessonia Ltd.	...	...	...	...	..
11	Curepipe Gardens	1840	15.00	381.0	17.16	18
	Mare-aux-Vacoas (Good End)	1850	13.92	353.6	18.33	18
	Mare-aux-Vacias (Arnaud)	1830	12.00	304.8	18.39	17
	La Marie Filter Beds	1700	12.32	312.9	15.40	16
	Sophie	...	6.73	177.5	...	22
	Reunion	1420	20.35	516.9	13.91	16
	Aerological Station	1393	11.19	284.3	13.15	19
	Phoenix	...	12.06	306.3	...	15
12	Quatre Bornes	...	7.48	190.0	...	12
	Quatre Bornes (Board)	1090	9.08	230.8	9.01	6
	Le Reduit Dep. of Agriculture	1000	6.95	176.7	10.05	20
	Alma	1460	15.41	391.4	18.15	16
	Bagatelle	1250	12.57	319.3	14.10	13
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16
	[illegible]	[illegible]	6.57	[illegible]	[illegible]	[illegible]
	[illegible]	...	[illegible]	[illegible]	[illegible]	9
	[illegible]	[illegible]	11.[illegible]	[illegible]	15.57	13
	[illegible]	...	[illegible]	[illegible]	...	[illegible]
	[illegible]	...	7.95	[illegible]	...	[illegible]
	[illegible]	...	[illegible]	[illegible]	...	[illegible]
	[illegible]	...	[illegible]	189.1	...	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14
	[illegible]	...	9.18	233.2	[illegible]	14
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	4.15	105.6	...	14

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION, VACOAS, 424·5 METRES ABOVE SEA LEVEL, DURING THE MONTH OF FEBRUARY, 1939

Day \ Type	Time	St. & Fs.		Cumulus Cu.St.& c.		Alto Cu. Alto.St.		Cirro Cumulus		Cirro Stratus		Cirrus		Time	St. & Fs.		Cumulus Cu.St. & c.		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus	
		Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height		Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height
		°		°		°		°		°		°			°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	113	6.1*	...	...	...	...	...	...	...	...
2	11½	...	...	90	6.8	...	...	...	...	...	...	...	...	15½	...	...	120	6.2	...	...	...	...	...	...	...	...
3	10¾	...	...	...	...	...	...	270	...	...	...	270	...	15½	120	11.0*	...	...	...	...	...	...	...	...	240	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	12½	...	...	75	10.5	...	...	...	...	...	...	255	3.0
5	11¾	105	14.1	90	10.6	...	...	...	...	...	...	...	...	15¼	120	13.6*	113	10.2*	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	90	20.1*	120	...	10	3.1	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	...	60	14.3	...	...	...	...	...	...	300	...
8	11½	...	...	90	16.8	...	...	...	...	...	...	240	...	15¼	...	...	90	16.9	...	...	...	...	...	...	240	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	105	18.4*	118	20.4*	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	...	...	90	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	75	8.8*	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	120	11.3*	225	1.4*	...	...	...	...	...	...
15	9½	...	...	105	8.1	285	...	...	...	...	...	...	...	15½	68	25.5	60	9.2	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	120	...	210	...	...	...	...	...	310	4.4*
17	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	30	4.6*	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	12¼	60	9.7	60	...	...	...	...	...	...	...	...	...
19	11½	105	...	75	20.1	...	...	...	...	...	...	195	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	14½	30	...	60	13.4	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	60	7.1*	...	...	...	...	...	...	265	1.9*
22	10¾	45	14.9	45	23.7	90	...	...	...	...	...	...	...	15¼	68	10.1*	270	...	...	...	...	...	...	...	195	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	11½	30	...	30	4.7	...	...	...	...	...	...	195	...	15¼	...	...	360	6.7*	...	...	...	...	...	...	175	3.1*
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

The Direction is that from which the Cloud travels counting North (0°) East (90°) South (180°). The Velocity- Height Ratio is given in milliradians per sec.

* Observatory Pamplemousses

MAURITIUS

ROYAL ALFRED OBSERVATORY

LATITUDE $20^{\circ}5'39''$ S. - LONGITUDE $3^{h}50^{m}12^{s}6''$

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

MARCH, 1939

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DIRECTOR

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DIRECTOR OF METEOROLOGICAL SERVICES, MAURITIUS

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF MARCH, 1939

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)	H.R.h. 10,000	Z.R.z. 10,000
March	° '			'				
1	13°43.0	.22418	.29839	12.0	114	36	255	107
2	41.7	415	842	8.2	50	20	112	60
3	42.8	415	840	9.7	73	27	164	81
4	42.2	402	839	6.5	54	31	121	92
5	42.7	410	839	9.0	32	35	72	105
6	42.1	413	836	12.3	43	44	96	131
7	42.3	430	835	14.8	37	45	83	134
8	42.3	431	836	10.3	35	27	78	81
9	43.0	438	834	12.0	64	27	143	81
10	42.5	439	834	12.5	33	29	74	86
11	42.3	441	834	13.2	32	31	72	92
12	43.0	443	834	8.3	52	38	116	113
13	43.2	450	834	11.6	52	30	117	90
14	42.9	464	833	10.0	51	31	115	92
15	42.9	468	832	13.5	71	40	160	119
16	43.2	458	838	8.5	54	20	122	60
17	43.5	460	834	9.0	39	30	88	90
18	43.3	469	834	11.8	53	39	119	116
19	42.9	467	...	10.0	18	..	41	...
20	43.1	479	...	11.0	38	..	86	...
21	43.8	454	827	14.7	69	51	155	152
22	42.7	444	833	13.5	88	43	197	128
23	42.8	447	838	10.0	60	23	134	69
24	43.7	451	836	12.0	42	30	95	90
25	43.1	458	834	10.5	62	31	140	92
26	43.5	451	832	10.5	33	30	74	90
27	43.5	450	833	12.5	96	36	216	107
28	44.6	408	...	11.7	148	..	332	..
29	44.2	38[illegible]	...	10.5	117	..	262	..
30	44.3	40[illegible]	...	5.0	36	..	81	..
31	44.1	421	848	4.0	57	11	128	33
Mean	13°43.04	.22438	.29836	10.61	58.2	32.1	130.6	95.8

Description of the Principal Magnetic Disturbance

Declination : 2nd and 4th - Slightly disturbed trace [illegible] 21st, 22nd and 23rd - Very slightly disturbed. 28th at 22h - Commencement of a moderately disturbed trace but with only small increase in daily range. This ends gradually on 30th. Frequent waves not exceeding 6' on the trace during this period.

Horizontal Force : 1st to 6th - very moderately disturbed; rapid waves of 20th to 30th occasionally. 9th - slightly disturbed. Rapid small irregular pulsations between 12h to 14h. 11th and 12th - sudden fluctuations of minor extent at times on an otherwise quiet trace. 14th, 15th and 16th - very slightly disturbed. 18th - important increase in daily range with a quiet trace. 19th, 20h50m - sudden commencement of short period of small rapid oscillations on an otherwise quiet trace. This ends during the second half of 20th. 21st - from 8h a moderate disturbance starts with rapid minor fluctuations not exceeding 30 γ on the trace. This ends during the latter part of 23rd. 26th - sudden commencement at 21h 45m with a 25 γ positive wave, of a long disturbed period ending gradually on 31st. The more intensely disturbed parts are (i) 27th 21h to 28th 3h; large regular waves of 50 γ amplitudes are registered here; (ii) 28th 18h to 30th 3h. - uninterrupted fluctuations of rapid character which obtain 70 γ at times are recorded. Frequent pulses of 35-40 γ occur in the trace.

Vertical Force : 1st to 6th - very slightly disturbed occasionally. Only small pulsations recorded. 9th - very slightly disturbed during first half. 14th, 15th and 16th - very small pulsations on an otherwise quiet trace. 21st and 22nd - slightly disturbed. 26th - commencement at 21h45m of a moderately disturbed period, ending gradually on 31st. From 27th 22h to 28th 2h large waves, not exceeding 20 γ in amplitudes in the trace.

T = .37332 : Mean Dip = 53°3'.3[illegible] : X = .21798 : Y = -.05321 : Z = .29836

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, 1939

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.	° '	
3.13.55	13.38. 1	1.11.58	.22485	3.14.08	53.04.25	.29842
8. 9.35	13.46. 4	8.10.59	.22433	10.15.05	53.00.12	.29779
10.14.47	13.36. 0	16.11.02	.22480	17.12.07	52.59.38	.29813
16. 9.27	13.46. 7	22.13.22	.22465	24.15.35	53.02.56	.29832
17.11.46	13.45. 3	27.11.20	.22481	31.12.03	53.02.81	.29844
24.15.26	13.38. 8	30.11.13	.22417			
31.9.30	13.45. 9					
31.11.50	13.44. 2					

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

MARCH, 1939

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day \ Hour
							14° +										
Midnight	445	445	430	430	435	430	430	425	430	427	427	430	445	435	437	433	Midnight
1	450	435	430	430	423	430	430	427	430	427	434	435	440	437	443	435	1
2	450	447	430	440	420	430	427	425	427	430	435	437	440	435	443	440	2
3	445	427	430	435	427	425	425	420	432	433	433	435	440	437	440	445	3
4	435	425	430	420	430	425	425	407	435	436	430	430	435	435	437	447	4
5	435	415	427	420	430	430	420	420	440	435	433	427	437	433	435	450	5
6	427	415	427	420	430	433	415	423	445	430	437	435	437	433	433	445	6
7	435	400	450	420	440	445	450	435	460	437	445	440	450	440	430	430	7
8	460	430	475	420	467	473	470	467	470	460	467	455	467	467	460	447	8
9	490	435	480	440	475	470	495	467	490	487	480	465	480	475	500	470	9
10	480	440	467	435	460	453	495	470	490	477	487	470	483	465	490	465	10
11	460	410	440	427	440	450	470	440	460	465	450	465	470	450	470	445	11
Noon	425	400	410	423	410	420	420	430	417	440	405	435	470	427	435	430	Noon
13	390	380	395	405	397	375	370	390	385	400	360	405	435	395	400	400	13
14	370	365	383	390	385	350	347	370	373	370	355	390	400	375	375	385	14
15	375	375	385	375	387	355	350	367	370	360	355	387	370	380	365	395	15
16	383	395	397	390	395	370	370	385	380	365	370	395	367	390	375	395	16
17	400	415	410	410	415	407	407	407	405	390	395	407	380	415	407	420	17
18	410	433	425	425	423	415	420	420	420	413	415	420	400	423	415	427	18
19	420	425	430	435	425	420	423	427	425	417	425	420	413	423	415	425	19
20	427	425	430	427	425	427	423	427	427	425	430	427	423	425	410	433	20
21	430	425	427	430	430	430	427	430	430	425	435	430	427	427	420	435	21
22	435	427	427	435	430	423	425	430	437	427	423	433	435	430	427	430	22
23	440	427	430	435	440	425	425	440	435	427	432	440	435	435	430	433	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day \ Hour
							14° +										
Midnight	437	432	433	430	433	445	440	435	440	435	445	460	485	440	460	438	Midnight
1	435	435	437	435	435	435	435	430	435	435	450	465	500	450	440	438	1
2	445	440	437	442	437	437	425	427	425	435	445	443	505	445	455	439	2
3	440	442	440	445	440	437	430	440	435	440	445	445	485	410	455	437	3
4	425	440	440	445	443	437	443	440	437	425	435	437	455	425	447	434	4
5	420	435	443	447	445	445	435	445	440	440	440	445	450	425	425	434	5
6	435	437	442	450	447	450	430	450	443	440	420	440	435	420	425	434	6
7	450	450	450	460	465	450	435	470	445	455	435	470	430	430	420	443	7
8	470	480	470	480	495	470	450	500	465	473	460	500	423	430	445	463	8
9	487	505	475	485	520	480	465	490	480	495	475	485	420	435	455	476	9
10	475	480	470	460	490	460	450	475	463	475	453	465	420	430	453	466	10
11	460	445	440	430	440	410	430	450	430	440	425	435	420	425	445	443	11
Noon	450	420	410	410	400	390	400	420	405	415	400	410	400	410	435	418	Noon
13	415	390	385	395	385	370	370	390	395	395	390	385	400	410	427	393	13
14	400	387	375	375	380	345	365	380	375	390	385	383	400	417	430	380	14
15	397	393	380	380	375	360	380	394	387	395	400	400	405	425	440	383	15
16	405	405	395	395	405	400	400	400	400	400	407	413	420	435	440	395	16
17	420	420	410	410	425	405	425	420	420	420	425	430	435	438	437	414	17
18	425	423	425	423	430	425	430	435	430	433	433	440	445	440	437	425	18
19	425	423	427	425	435	430	465	437	438	435	435	455	460	437	445	430	19
20	430	427	427	423	437	450	455	437	440	440	437	445	490	445	440	433	20
21	430	427	430	430	437	440	440	440	440	445	447	500	455	450	443	436	21
22	430	430	433	430	437	445	435	440	443	447	447	465	450	455	445	436	22
23	435	435	435	433	465	430	435	445	437	440	510	480	450	460	450	441	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, 1939

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	373	397	420	407	410	413	421	424	424	434	443	440	449	449	453	458	Midnight
1	370	402	418	398	401	411	425	422	432	438	431	438	445	450	461	466	1
2	376	412	428	396	427	419	424	429	434	433	441	435	439	451	461	464	2
3	382	422	421	430	417	431	423	435	438	438	442	436	445	454	463	467	3
4	394	410	418	434	415	418	422	438	444	438	446	448	447	453	466	473	4
5	399	420	422	416	407	418	425	445	440	442	448	448	443	459	470	467	5
6	407	426	426	410	408	421	429	443	442	441	446	445	447	464	475	474	6
7	416	429	425	427	408	423	429	451	445	439	448	450	453	471	482	470	7
8	424	424	417	418	405	417	432	445	447	441	442	443	451	476	481	472	8
9	435	425	426	410	400	419	439	442	455	438	442	437	452	482	474	468	9
10	463	439	430	405	410	423	440	435	461	436	452	447	459	495	484	472	10
11	467	429	441	403	420	428	447	432	466	447	444	455	479	495	501	478	11
Noon	484	422	451	405	425	434	453	430	456	461	456	466	489	497	509	477	Noon
13	460	419	438	394	420	424	453	442	450	453	459	468	471	496	494	463	13
14	447	417	418	492	420	416	449	430	448	445	431	458	449	485	490	441	14
15	442	411	414	386	407	405	438	425	448	442	431	452	439	471	472	444	15
16	438	396	402	380	403	399	423	420	438	442	439	446	443	450	451	442	16
17	435	389	390	390	406	491	416	418	426	431	440	443	444	446	454	424	17
18	416	395	378	392	405	391	419	419	424	435	436	441	437	453	456	441	18
19	410	407	379	398	410	395	422	420	423	428	439	435	437	454	459	444	19
20	397	412	393	391	405	392	425	423	422	435	427	416	438	445	446	448	20
21	396	411	400	387	400	404	423	428	418	432	429	426	443	449	438	453	21
22	398	412	402	387	393	407	425	416	402	435	428	430	445	449	443	454	22
23	405	417	406	400	407	414	424	429	432	438	435	433	445	448	454	444	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	452	464	463	474	468	422	439	436	427	450	436	389	330	408	394	428	Midnight
1	457	462	464	475	469	436	443	453	437	450	454	415	318	408	433	432	1
2	457	464	465	477	470	439	459	466	455	448	441	405	310	394	414	433	2
3	459	465	466	486	470	446	454	453	451	448	439	429	365	420	406	439	3
4	466	467	468	485	475	449	446	450	454	470	454	422	375	409	409	441	4
5	471	470	467	480	477	458	451	455	458	460	456	425	395	410	413	442	5
6	461	465	467	472	477	460	448	452	457	460	459	436	400	400	419	443	6
7	463	467	465	477	479	462	445	451	469	460	469	441	390	304	417	446	7
8	451	465	463	480	476	469	450	452	469	462	475	464	396	414	427	447	8
9	447	461	463	487	462	466	451	462	477	462	471	444	410	414	436	447	9
10	455	479	465	493	473	479	463	469	486	463	486	464	427	414	448	455	10
11	461	499	475	501	486	490	469	470	487	467	497	472	403	415	451	461	11
Noon	477	507	476	500	485	489	470	468	489	468	492	465	413	411	448	464	Noon
13	483	499	475	497	476	467	469	460	476	454	476	434	403	408	446	456	13
14	474	481	470	489	456	446	448	450	468	451	456	419	497	489	427	444	14
15	472	469	465	477	426	426	454	446	455	444	441	401	396	389	409	435	15
16	456	459	465	470	417	418	451	446	445	437	445	401	427	391	409	427	16
17	458	454	462	469	417	404	446	443	441	438	445	391	352	386	413	425	17
18	460	457	463	470	423	402	439	442	441	440	441	477	363	393	413	425	18
19	451	457	462	472	427	411	420	448	448	443	437	375	373	394	403	425	19
20	453	457	462	471	436	430	410	445	450	440	434	345	385	389	400	423	20
21	449	459	465	463	436	413	424	441	447	435	416	324	387	422	414	423	21
22	444	460	467	464	433	428	435	435	447	436	401	332	381	404	415	423	22
23	445	463	480	466	411	448	442	428	447	450	411	347	390	392	426	428	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, 1939

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
								.29000 + (C.G.S. UNIT)									
Midnight	844	843	842	844	841	842	843	840	840	840	839	839	841	837	839	839	Midnight
1	846	844	842	845	842	841	841	839	838	840	841	839	840	838	839	838	1
2	846	843	840	846	840	840	839	837	838	841	840	840	840	838	839	839	2
3	845	843	842	844	840	837	838	837	837	840	839	840	841	838	838	839	3
4	844	843	843	838	839	838	838	836	837	838	837	839	838	837	838	839	4
5	843	843	843	844	842	839	839	837	837	838	837	836	838	837	837	838	5
6	843	843	843	844	843	842	838	838	837	837	837	838	838	836	836	838	6
7	844	843	847	847	847	845	845	842	838	838	839	839	840	837	837	838	7
8	849	851	849	845	854	851	850	845	843	842	843	844	843	841	844	844	8
9	849	847	847	846	852	845	852	847	844	843	843	846	841	838	847	847	9
10	841	844	843	843	844	836	845	843	838	838	843	843	833	833	830	843	10
11	832	837	835	837	841	830	834	837	832	833	832	835	822	826	820	835	11
Noon	818	837	826	829	827	815	818	830	820	822	820	823	813	817	810	832	Noon
13	813	833	822	821	822	807	807	824	817	814	812	812	813	810	807	827	13
14	820	831	824	816	819	809	808	820	817	814	814	808	814	813	807	827	14
15	827	833	829	819	825	817	815	822	817	816	819	813	821	821	814	830	15
16	834	842	837	827	832	827	826	828	823	822	827	822	831	830	825	832	16
17	839	847	841	835	837	837	837	834	831	830	823	830	836	837	833	838	17
18	843	850	844	842	840	843	840	837	836	835	836	834	837	836	835	841	18
19	842	845	845	843	840	843	837	837	837	836	836	835	837	834	835	839	19
20	842	843	846	842	841	844	838	838	837	837	836	840	837	836	835	840	20
21	847	843	845	843	843	847	840	838	841	838	838	840	838	837	842	840	21
22	845	843	845	847	844	843	840	840	843	839	839	840	837	837	842	839	22
23	843	842	845	844	845	843	840	843	843	839	839	842	837	839	840	840	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Hour \ Day
								.29000 + (C.G.S. UNIT)									
Midnight	840	837	836	X	833	840	841	841	843	838	841	842	X	X	851	841	Midnight
1	838	837	836		832	837	837	842	841	838	838	849			852	840	1
2	839	837	836		832	837	836	836	837	838	837	843			848	839	2
3	840	837	835		832	837	836	838	838	838	838	842			848	839	3
4	838	838	836		831	836	837	838	837	835	836	842			848	838	4
5	838	838	837		832	836	837	838	837	836	837	842			846	839	5
6	840	838	837		832	837	837	840	837	837	835	842			847	839	6
7	841	841	842		837	840	842	845	838	840	859	844			847	841	7
8	845	851	845		843	844	846	847	842	843	841	846			852	846	8
9	843	851	842	834	843	841	844	838	842	842	837	838			852	845	9
10	832	833	840	824	823	828	843	832	833	834	826	826			850	836	10
11	828	824	833	812	808	822	838	827	826	826	817	X			845	830	11
Noon	823	815	823	803	795	813	826	820	820	817	807				842	821	Noon
13	817	812	X	797	793	803	823	817	812	813	806			835	841	815	13
14	815	817		803	798	806	826	821	815	815	812			837	843	817	14
15	822	823		810	815	819	833	830	823	819	822			845	849	823	15
16	830	829		817	825	831	837	835	832	825	828			848	851	830	16
17	835	833		825	831	836	839	838	835	831	836			848	848	836	17
18	837	836		830	833	842	842	840	836	832	837			850	847	839	18
19	837	837		830	834	840	843	838	837	833	837			848	849	838	19
20	836	837		832	836	846	843	838	837	837	837			850	849	840	20
21	836	837		833	837	842	842	839	838	837	840			854	847	841	21
22	837	837		833	837	845	841	842	839	838	842			848	847	841	22
23	838	836		833	844	840	841	843	838	836	857			849	848	842	23

X : Driving clock defective

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) DURING THE MONTH OF MARCH, 1939

Month and day 1939	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		
MARCH	mbs.	°C	°C	°C	%	mbs.	°	m.p.s		°C	°C	°C	°C	°C	°C	°C	mms	mins	hrs.	%
1	965.4	23.0	0.8	21.8	93	26.1	80	4.9	10	22.2	24.2	22.8	21.6	24.2	20.8	3.4	49.9	275	2.7	22
2	964.1	22.2	0.5	21.4	95	25.7	Calm		10	19.8	20.7	21.7	20.7	23.4	19.6	3.8	21.1	180	0.0	0
3	963.7	23.0	1.5	20.7	87	24.4	55	3.1	10	20.7	20.7	24.9	22.6	26.6	19.3	7.5	21.9	110	3.0	24
4	964.8	21.2	0.1	21.0	99	24.9	Calm		10	22.7	22.4	23.7	22.7	26.0	21.3	4.7	38.5	170	1.0	8
5	965.0	25.5	2.1	22.5	84	27.3	20	2.7	6	21.7	25.2	25.8	23.5	27.6	20.6	7.0	0.2	0	5.6	45
6	964.3	24.7	2.2	21.3	81	25.3	45	3.1	10	23.7	24.2	26.0	23.3	27.4	21.5	5.9	0.9	10	3.3	27
7	963.1	22.3	1.4	20.1	87	23.5	Calm		10	22.3	21.3	25.2	22.3	26.6	20.7	7.9	14.1	320	3.4	28
8	964.4	22.8	2.5	18.9	78	21.8	45	0.9	10	21.8	24.3	26.2	22.9	27.4	21.1	6.3	0.0	0	5.6	46
9	964.4	26.0	2.7	22.0	79	26.4	50	1.8	7	22.1	24.8	26.4	23.1	27.9	21.4	6.5	0.0	0	6.8	48
10	964.5	26.1	3.3	21.2	75	25.2	45	3.6	10	22.3	24.3	26.9	23.3	28.4	21.6	6.8	0.0	0	4.9	40
11	963.4	24.7	2.3	21.1	80	25.0	Calm		10	22.4	23.3	24.3	23.1	27.8	21.7	6.1	9.7	30	0.7	6
12	962.2	27.1	4.2	20.8	68	24.6	Calm		4	22.3	25.4	23.4	23.2	28.6	21.4	7.2	24.3	70	4.6	38
13	963.0	22.9	2.5	19.0	79	22.0	50	3.6	10	22.3	24.3	25.3	23.1	27.7	21.7	6.2	0.8	5	4.4	36
14	962.6	24.5	2.1	21.3	82	25.3	45	6.3	10	22.5	23.3	24.8	22.3	26.4	21.5	4.9	8.6	145	3.7	31
15	959.2	24.3	2.0	21.3	83	25.3	45	5.4	10	22.3	23.2	24.9	23.5	26.5	21.6	4.9	5.3	40	3.7	31
16	958.6	26.5	2.8	22.3	78	27.0	20	2.7	10	23.1	25.3	26.3	24.3	28.3	22.0	6.0	0.6	5	8.7	72
17	960.3	25.3	1.3	23.4	89	28.8	Calm		10	24.3	25.3	26.3	23.9	25.7	22.7	5.0	12.8	105	4.1	34
18	960.1	27.2	3.0	22.8	77	27.8	70	2.7	7	22.9	24.8	27.8	23.8	29.8	22.0	7.2	1.4	25	11.0	91
19	957.2	24.5	1.0	23.0	91	28.1	100	9.4	10	23.5	23.5	24.2	22.8	24.6	23.0	1.6	112.8	755	0.5	4
20	951.2	22.7	0.1	22.5	99	27.3	45	17.0	10	22.3	22.2	23.4	23.2	25.6	22.2	3.4	162.4	900	4.0	33
21	961.2	25.3	1.8	22.6	85	27.4	350	8.9	9	23.9	23.9	25.5	24.2	26.6	22.6	4.0	0.0	0	6.4	53
22	965.6	26.1	2.7	22.1	79	26.6	340	3.6	10	23.3	23.4	26.3	23.0	27.7	22.6	5.1	0.0	0	2.7	23
23	967.5	24.4	0.5	23.5	95	29.0	10	0.9	8	22.3	23.2	26.6	22.2	28.1	21.6	6.5	3.4	25	7.8	65
24	966.9	27.9	2.2	22.9	83	27.9	Calm		4	21.1	24.0	27.2	21.7	28.6	20.7	7.9	0.0	0	10.3	86
25	966.7	23.9	1.3	21.9	86	26.3	90	2.7	10	21.7	22.7	25.2	22.3	26.8	21.1	5.7	0.1	0	1.5	13
26	966.2	25.2	2.7	21.1	79	21.0	45	4.5	6	21.9	24.3	27.4	22.2	28.3	21.3	7.0	0.0	0	9.1	76
27	966.8	25.0	3.7	19.3	71	22.4	70	2.2	6	20.8	23.8	26.2	22.1	28.4	20.5	7.9	0.0	0	8.1	68
28	964.5	25.5	4.0	19.4	69	22.5	80	4.0	5	21.2	23.7	25.4	22.1	26.7	20.9	5.8	0.6	6	10.6	89
29	966.6	21.9	2.0	18.8	82	21.7	70	4.5	5	20.8	23.3	26.1	22.1	27.2	23.6	6.6	2.4	20	9.1	77
30	967.1	24.8	2.3	21.2	80	25.2	55	4.0	7	21.3	22.2	26.1	21.8	27.3	21.1	6.2	0.7	5	8.2	69
31	968.1	24.9	3.4	19.7	73	23.0	55	3.6	8	21.7	23.1	26.7	22.2	28.1	21.6	6.5	3.5	30	8.7	73
Mean	963.5	24.5	2.1	21.3	82.8	25.4	..	3.8	8.4	22.2	23.6	24.2	22.7	27.1	21.3	5.8	496.0	3235	5.26	43.0
Average	964.6	24.5	2.3	20.8	79.9	24.6	..	3.5	6.5	...	...	...	...	26.6	20.2	6.4	309.6	...	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	+ 41.1 mbs	Amount of Rain	- 109.3 mms.
Temperature of the Air	+ 2.7°C	Duration of Bright Sunshine	+ 36.1 hrs.
Vapour Pressure	+ 3.4 mbs.	Mean of Maximum Temperatures	+ 2.0°C
Relative Humidity	- 3.0 %	Mean of Minimum Temperatures	+ 2.1°C
Velocity of Wind	+ 0.3 mbs.	Absolute Maximum Temperature	+ 1.7°C
Amount of Cloud	- 0.4	Absolute Minimum Temperature	+ 2.4°C

Greatest Rainfall Intensity at Vacoas 17.3 mms. in 22 mins.

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF MARCH, 1939

Month and Day 1939	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 Pines Pluviograph	Duration		
MARCH	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	min.	mms.	
1	1005.5	+ 0.6	28.5	21.7	6.8	24.8	- 0.8	1.6	22.5	+ 0.3	87	+ 5	27.3	21.0	48.3	405	4.0	9.5
2	1004.4	- 0.6	26.0	22.0	4.0	23.8	- 1.9	0.9	22.4	+ 0.2	92	+10	27.1	20.8	13.2	625	5.6	10.0
3	1003.7	- 1.3	27.7	21.9	5.8	24.6	- 1.0	1.4	22.6	+ 0.4	88	+ 6	27.4	20.7	2.4	130	6.0	8.8
4	1004.3	- 0.7	26.4	22.9	3.5	24.1	- 1.4	0.8	22.9	+ 0.6	93	+11	27.9	21.4	51.3	335	9.8	8.5
5	1004.6	- 0.5	29.7	21.9	7.8	25.9	+ 0.4	1.8	23.3	+ 1.0	85	+ 2	28.6	20.7	4.6	35	2.7	8.7
6	1003.9	- 1.2	29.3	23.5	5.8	26.4	+ 0.9	2.1	23.3	+ 1.0	83	0	28.6	21.3	0.0	...	5.0	9.4
7	1003.8	- 1.4	28.3	23.3	5.0	25.3	- 0.2											
8	1004.7	- 0.5	30.5	22.9	7.6	26.0	+ 0.5	2.1	22.9	+ 0.6	83	0	27.9	21.2	0.5	30	4.2	6.9
9	1004.4	- 0.9	30.0	23.2	6.8	26.2	+ 0.8	2.3	22.8	+ 0.6	82	0	27.8	21.6	0.0	...	6.1	6.4
10	1004.4	- 0.9	30.9	24.0	6.9	26.5	+ 1.1	2.3	23.2	+ 1.0	82	0	28.4	22.8	0.0	...	6.5	9.0
11	1003.9	- 1.4	30.5	23.9	6.6	25.8	+ 0.4	1.8	23.2	+ 1.0	86	+ 4	28.4	22.7	14.3	25	4.8	9.7
12	1002.6	- 2.8	30.2	23.6	6.6	26.6	+ 1.2	2.3	23.3	+ 1.1	82	0	28.6	22.5	0.0	...	7.3	9.1
13	1002.9	- 2.5	29.2	23.5	5.7	25.7	+ 0.4	1.4	23.7	+ 1.6	89	+ 7	29.3	22.1	19.1	150	4.6	8.6
14	1001.9	- 3.6	28.1	23.6	4.5	25.4	+ 0.1	1.5	23.2	+ 1.1	87	+ 5	28.4	22.3	33.3	355	1.6	9.2
15	999.8	- 5.7	28.5	23.5	4.8	25.5	+ 0.2	0.8	24.3	+ 2.1	93	+10	30.4	22.3	13.8	150	5.3	8.9
16	998.4	- 7.2	29.9	24.2	5.7	26.8	+ 1.6	1.4	24.8	+ 2.7	89	+ 6	31.3	22.5	0.1	5	1.7	6.4
17	999.8	- 5.9	30.6	25.4	5.2	27.3	+ 2.1	1.6	25.0	+ 2.9	87	+ 4	31.7	24.2	19.7	110	4.2	8.4
18	999.7	- 6.1	29.8	24.3	5.5	26.5	+ 1.3	1.8	23.9	+ 1.8	86	+ 3	29.7	22.5	1.3	25	6.6	5.9
19	995.1	-10.7	28.1	23.9	4.2	25.8	+ 0.7	1.3	23.9	+ 1.9	89	+ 6	29.7	23.0	27.4	595	4.7	8.4
20	992.4	-13.5	27.0	23.9	3.1	25.4	+ 0.3	0.8	24.2	+ 2.2	93	+10	30.2	23.3	103.0	815	*	10.0
21	1001.0	- 4.9	29.6	25.5	4.1	26.9	+ 1.8	1.4	24.9	+ 2.9	89	+ 6	31.5	23.4	0.0	...	5.3	7.3
22	1005.8	- 0.2	29.5	24.4	5.1	26.4	+ 1.3	1.4	24.4	+ 2.4	89	+ 6	30.6	23.4	0.1	5	4.6	5.5
23	1007.7	+ 1.7	29.3	23.9	5.4	26.1	+ 1.1	1.8	23.5	+ 1.6	86	+ 3	29.0	22.5	1.3	10	4.5	3.6
24	1007.2	+ 1.1	29.0	22.7	6.3	25.6	+ 0.6	2.1	22.5	+ 0.6	83	0	27.3	20.7	0.0	...	5.6	4.3
25	1006.8	+ 0.7	29.2	23.2	6.0	25.9	+ 0.9	2.1	22.8	+ 0.9	83	0	27.8	20.8	0.0	...	4.7	5.8
26	1006.7	+ 0.6	29.1	22.9	6.2	25.8	+ 0.9	2.4	22.3	+ 0.4	81	- 2	27.0	21.0	0.0	...	5.2	2.6
27	1007.4	+ 1.2	29.2	21.9	7.3	25.3	+ 0.4	2.8	21.1	- 0.6	77	- 5	25.0	19.7	0.0	...	5.5	2.5
28	1007.0	+ 0.8	28.9	23.3	5.6	25.7	+ 0.8	2.2	21.7	0.0	79	- 3	26.0	21.6	0.3	10	6.8	3.7
29	1006.8	+ 0.5	29.8	23.0	6.8	25.1	+ 0.2	2.1	21.9	+ 0.2	82	0	26.3	21.1	1.4	30	6.4	3.7
30	1007.4	+ 1.1	28.9	23.1	5.8	25.7	+ 0.8	2.3	22.3	+ 0.6	82	- 0	27.0	22.5	1.2	10	4.2	4.5
31	1008.0	+ 1.6	29.4	23.4	6.0	25.7	+ 0.9	2.1	22.3	+ 0.7	82	0	27.0	21.5	8.2	50	5.8	4.8
Mean	1003.6	- 2.0	29.1	23.[illegible]	5.7	25.8	+ 0.5	1.8	23.2	+ 1.1	85.6	+ 3.1	28.4	22.0	386.7	4240	5.4	7.0
Average	1005.6	...	28.9	22.3	6.6	25.3	...	2.2	22.1	...	82.5	...	26.6	19.9	220.4	2321	4.8	5.9
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, 1939

Pressure remained low during the first ten days but no cyclonic formation was observed during this period. On the 13th a cyclonic centre developed in the Mozambique Channel : it crossed the mainland in Madagascar and travelled over the Indian Ocean. Although this centre passed at considerable distance from Mauritius, an important fall of pressure was registered from the 11th to the 16th with a slight recovery on the 17th. On the 18th a new centre formed north-eastwards of Mauritius. This moved south-south-westwards to a point close to the west coast of the island on the 20th and after passing northwards of Reunion moved away southwards. This was the only cyclone of the season which affected in some degree the weather at Mauritius.

Temperature and humidity were very sensibly in excess and more than the average total rainfall for the month fell during this disturbed period. Shortage of sunshine and excessive cloudiness were also some of the main features of the month. The monthly rainfall was 76% above normal.

TABLE VII (Contd.) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF MARCH, 1939

Month and Day 1939	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)
MARCH	hrs.	%	m.p.s	m.p.s.	°C	°C	°C	°C	
1	4.6	37	3.5	+ 0.2	25.4	27.4	29.0	27.6	o ol o oro o ororo
2	0.0	0	1.9	- 1.4	25.4	27.5	28.5	27.0	ororo oro ororo oro o ororo
3	4.5	36	2.7	- 0.6	25.2	27.5	28.2	26.9	o ororo c bc
4	1.0	8	1.6	- 1.7	25.4	27.6	28.0	26.9	bc clr oRRt oRR cp oro o cro
5	6.8	55	2.0	- 1.3	25.6	27.6	27.8	26.9	or o c
6	7.1	57	2.5	- 0.8	25.4	27.6	27.7	27.3	c o c o ol
7	4.4	36	1.5	- 1.8	25.4	27.5	27.8	27.9	olt ororo o c bc
8	8.3	67	2.0	- 1.3	25.5	27.4	27.2	27.7	bc b bcro c o cro bcro
9	8.8	72	2.1	- 1.2	25.6	27.4	27.9	28.2	bc b bc c
10	7.5	61	2.2	- 1.1	25.5	27.4	28.1	28.6	c o c c o
11	1.4	11	1.7	- 1.6	25.5	27.4	28.2	28.7	c o otsm o
12	8.1	66	1.4	- 1.9	25.3	27.3	28.3	28.4	o c o c bc
13	3.2	26	2.1	- 1.2	25.4	27.3	28.3	28.7	bc oro o or orr o
14	3.1	25	3.1	- 0.1	25.8	27.3	28.4	28.5	cro c cro o o ororo
15	3.9	32	2.5	- 0.5	25.6	27.4	28.4	27.9	or cro o ororo o oro cro bc
16	8.2	67	2.6	- 0.6	25.7	27.6	28.3	27.9	bc c cro c bc b
17	6.4	52	2.3	- 0.9	25.5	27.4	28.2	28.3	bc c cro c cr or
18	9.9	82	2.5	- 0.7	25.5	27.4	28.2	28.5	bc bcro bc c cro bcro
19	1.5	12	7.7	+ 4.5	25.4	27.4	28.3	28.7	bro cqro oq oqroro
20	0.0	0	10.9	+ 7.7	25.6	27.4	28.2	27.0	OQRR oqroro
21	6.6	55	6.5	+ 3.3	25.6	27.6	27.8	26.8	oqo cqo oq cqo bc
22	9.0	74	3.7	+ 0.5	25.7	27.7	27.7	27.2	bc bcro c bc b
23	9.7	80	1.9	- 1.3	25.6	27.4	27.8	27.8	b bro bcro bc b
24	10.4	87	2.0	- 1.2	25.5	27.4	27.8	28.1	b bc b
25	3.5	29	3.2	0.0	25.7	27.4	27.9	28.4	bo b bc c bc
26	10.5	88	2.7	- 0.5	25.7	27.4	28.1	28.4	b bc b
27	10.1	84	2.8	- 0.4	25.7	27.4	28.1	28.5	b bc b bc b
28	10.9	91	3.3	+ 0.1	25.7	27.4	28.1	28.6	bc bcro bc b
29	9.0	76	3.3	+ 0.1	25.9	27.4	28.2	28.6	b bc cro bc b
30	10.7	90	2.9	- 0.3	25.7	27.4	28.2	28.6	bc cro bc b
31	10.3	87	2.9	- 0.3	25.7	27.4	28.2	28.6	b bc bcro bc cro
Mean	6.43	53.0	3.04	- 0.20	25.55	27.44	28.12	27.97	
Average	7.15	58.6	3.24	...	25.39	27.07	28.43	28.96	
Column	19	20	21	22	23	24	25	26	27

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF MARCH, 1939.

Element	Highest	hrs	Date	Lowest	hrs	Date
Atmospheric Pressure	1009.1 mbs	at 22.00	on 30th	987.7 mbs.	at 04.00 hrs	on 20th
Temperature of the Air	30.9°C	at 13.30	on 10th	21.7°C	at 23.15 hrs	on 1st
Daily Range of Temperature of the Air	17.6°C	[illegible]	on 15th	3.1°C	[illegible]	on 20th
Temperature of the Dew Point ...	24.6 C	at 12.00 & 11.00	on 15th & 20th	20.8°C	at 02.00 hrs	on 5th
Minimum on Grass				19.7°C		on 27th
Relative Humidity	100 %	at 04.00	on 20th	60.7 %	at 12.00	on 27th
Vapour Pressure	31.0 mbs	at 12.00	on 15th	24.6 mbs	at 02.00 hrs	on 5th
Wind Velocity	14.1 mps	at 11.00 at 09.00	on 20th on 20th	0.6 mps		often
Duration of Sunshine ...	10.9		on 28th	0.0 hr		on 2nd & 20th
Rainfall in 24 hrs	29.9 mms	ending 13.00 hrs	on 24th	[illegible]		[illegible]
Amount of Evaporation in 24 hrs. ...	9.8 mms		4th	1.6 mms.		on 14th

Mean Day Temperature of Air 27.14°C Average 26.86°C Mean Night Temperature of Air 24.38°C Average 23.57°C

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	Thunderstorms
...	2	11	15	13	4	6	1	6	[illegible]	4	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, 1939

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	064	057	047	043	051	052	038	057	053	052	050	037	032	033	018	998	Midnight
1	060	047	039	043	051	051	038	052	050	050	049	034	028	027	011	992	1
2	056	043	036	039	048	045	032	049	047	043	042	028	025	021	002	987	2
3	050	039	033	031	042	038	030	042	041	040	038	027	020	018	997	981	3
4	051	036	033	028	041	037	032	040	039	039	037	025	019	017	996	980	4
5	051	037	033	030	041	036	036	038	038	040	037	022	020	017	993	979	5
6	052	041	037	032	043	038	034	042	038	045	039	027	025	019	998	979	6
7	062	047	039	039	051	041	035	048	044	050	041	029	033	021	001	983	7
8	063	051	037	049	057	047	049	048	048	052	049	032	036	028	008	990	8
9	067	057	047	058	059	049	051	049	051	057	051	031	039	030	008	991	9
10	066	052	050	062	059	049	042	051	054	056	052	029	040	030	009	992	10
11	060	051	048	058	054	047	039	056	056	053	051	027	039	027	008	990	11
Noon	058	046	042	057	051	040	036	051	051	051	048	025	032	024	001	987	Noon
13	054	035	038	050	044	035	032	044	040	047	040	020	026	014	993	980	13
14	045	032	030	040	038	028	029	039	036	044	033	017	025	010	990	971	14
15	042	030	029	035	032	027	025	034	030	035	029	013	022	004	983	969	15
16	040	032	028	036	029	022	025	034	030	030	028	015	020	004	983	971	16
17	043	035	023	032	030	027	027	036	033	029	027	015	021	010	983	973	17
18	043	043	022	034	035	030	032	040	039	030	029	010	024	011	988	977	18
19	048	049	030	040	042	035	037	050	041	031	030	027	029	013	991	983	19
20	056	049	037	048	048	039	045	053	046	039	032	029	032	019	997	987	20
21	061	051	042	051	052	045	050	058	051	047	036	033	038	025	003	991	21
22	061	051	048	052	054	046	057	058	052	049	037	036	038	029	005	996	22
23	063	051	047	050	052	042	057	057	052	050	035	034	037	021	000	999	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		Day \ Hour
Midnight	996	011	995	902	980	042	080	082	073	052	078	082	072	077	085	1004	Midnight
1	988	008	988	898	981	041	078	079	068	070	072	077	068	071	082	1004	1
2	989	002	978	892	980	038	072	075	067	068	070	074	065	068	078	1003	2
3	988	994	972	885	978	945	970	970	063	062	068	068	061	062	073	1003	3
4	987	993	970	877	982	038	069	068	063	060	065	067	060	060	071	1003	4
5	987	993	970	888	988	040	070	068	067	062	068	068	060	062	071	1003	5
6	993	992	970	891	998	045	072	072	068	068	070	069	061	065	074	1003	6
7	999	995	970	899	003	050	079	078	070	071	078	073	068	070	080	1004	7
8	002	998	976	910	010	058	085	082	070	077	082	077	070	074	085	1004	8
9	007	001	978	918	018	062	089	082	078	077	086	080	078	082	088	1005	9
10	008	009	972	922	020	070	090	082	078	076	083	080	078	082	089	1005	10
11	009	007	966	923	018	070	089	079	075	070	075	078	077	080	087	1004	11
Noon	001	998	960	923	014	067	083	071	069	065	071	070	070	076	083	1004	Noon
13	992	994	948	922	012	060	074	068	062	058	063	062	067	068	078	1003	13
14	990	990	940	921	009	058	066	061	060	056	062	058	060	067	072	1003	14
15	986	983	930	921	007	054	062	059	058	056	062	056	057	065	069	1003	15
16	988	985	928	923	007	053	062	060	058	057	063	057	057	065	069	1003	16
17	992	988	927	930	010	055	064	060	059	059	067	058	059	070	072	1003	17
18	995	993	924	939	013	060	068	062	063	062	072	061	063	072	077	1003	18
19	002	998	926	953	022	068	077	068	069	066	078	065	070	081	080	1004	19
20	009	002	928	967	030	072	082	071	073	068	082	070	077	085	086	1004	20
21	014	007	926	972	038	082	087	077	077	072	089	078	080	089	089	1005	21
22	012	004	925	977	041	083	089	078	077	077	089	079	080	091	089	1005	22
23	010	998	912	979	042	083	087	077	075	078	088	077	078	088	083	1005	23

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

Hour \ Day	MARCH, 1939																															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	31	
Midnight	6	10	10	6	8	9	10	4	5	9	8	10	6	8	10	7	6	5	3	10	10	2	1	1	2	1	1	4	1	3	1	5.7
1	7	10	10	6	9	9	10	4	5	9	8	10	6	8	10	6	6	5	4	10	10	1	1	2	1	1	1	4	1	5	1	5.8
2	10	10	10	5	10	9	10	3	3	9	8	10	6	7	10	6	6	4	3	10	10	5	1	3	1	2	1	6	1	5	1	6.0
3	10	10	10	5	9	9	10	3	2	9	10	10	6	7	9	3	8	3	3	10	9	5	1	3	1	2	1	7	1	4	1	5.8
4	10	10	10	6	9	9	10	3	2	9	10	10	4	8	9	3	8	5	5	10	7	5	1	3	1	3	1	6	1	7	1	6.1
5	10	10	10	7	10	9	10	3	2	9	10	9	6	8	9	4	9	4	8	10	7	5	3	3	3	3	1	6	1	9	1	6.4
6	10	10	10	10	10	9	10	3	3	8	10	7	6	8	7	4	10	4	10	10	9	7	4	4	3	4	1	5	1	8	1	6.6
7	9	10	10	10	9	9	10	6	4	8	10	9	8	9	9	6	9	5	8	10	9	9	6	4	4	4	2	5	3	7	3	7.2
8	8	10	9	10	8	10	10	7	5	9	10	9	10	9	9	7	8	6	9	10	9	9	7	5	5	4	3	5	4	7	4	7.6
9	10	10	9	10	9	10	10	8	6	10	10	10	10	10	10	9	8	6	8	10	8	8	8	4	7	4	4	5	4	6	7	8.1
10	10	10	10	10	8	10	10	7	4	10	10	10	10	10	10	9	8	6	9	10	6	8	7	6	8	4	3	4	4	7	6	8.0
11	10	10	9	9	8	10	10	8	7	9	10	10	10	10	10	10	8	5	9	10	6	7	6	6	8	4	3	4	7	7	6	7.9
Noon	10	10	9	10	8	8	10	10	7	9	10	10	10	10	10	9	8	5	10	10	9	7	6	5	9	4	3	5	7	5	6	8.0
13	10	10	9	9	9	8	10	10	10	9	9	10	10	10	9	9	7	7	10	10	8	7	4	7	9	4	4	4	8	4	6	8.1
14	9	10	9	8	10	9	8	10	8	9	10	9	10	9	9	9	8	8	10	10	9	9	4	7	9	4	4	4	8	4	5	8.0
15	9	10	9	9	8	9	6	9	9	9	10	10	9	10	8	9	9	8	10	10	9	8	5	7	9	3	5	4	4	5	4	7.9
16	10	10	9	9	8	9	7	9	9	9	10	10	9	10	9	9	8	8	10	10	8	8	5	6	8	3	5	4	4	4	6	7.8
17	9	10	9	10	9	10	6	10	9	10	10	10	9	10	10	8	9	8	10	10	8	8	3	6	8	2	4	2	5	3	7	7.8
18	9	10	8	10	9	10	4	10	8	10	10	10	9	10	9	8	9	9	10	10	8	6	4	6	8	1	4	2	5	3	7	7.7
19	10	10	7	10	9	10	5	9	8	10	9	10	10	10	8	8	10	10	10	10	6	2	4	3	8	1	3	1	4	2	5	7.1
20	10	10	7	10	8	10	5	9	8	9	10	8	10	10	10	3	10	8	10	10	4	2	2	3	9	1	2	1	4	1	4	6.7
21	10	10	7	9	7	10	6	7	9	8	10	6	10	10	7	3	9	4	10	10	2	2	1	2	9	1	1	1	3	1	7	6.2
22	10	10	6	8	7	10	6	7	8	8	10	6	6	10	9	4	10	5	10	10	3	2	1	2	5	1	1	1	2	1	8	6.2
23	10	10	7	6	8	10	4	6	9	8	10	7	10	10	6	3	10	5	10	10	4	2	1	2	4	1	1	1	2	1	8	6.1

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

Hour Ending \ Day	MARCH, 1939																															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	31	
	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	38	0	0	5	0	7	0	9	32	9	2	46	0	17	2	23	37	35	6	0	0	23	17	28	0	23	22	28	32	30	18	8.2
8	55	0	0	0	27	41	0	52	48	35	0	60	18	27	15	41	43	60	40	0	15	56	41	60	38	48	60	60	45	50	58	18.2
9	48	0	42	0	60	51	0	60	60	53	0	60	8	38	37	46	56	60	38	0	48	43	27	60	30	51	60	60	38	52	54	20.7
10	42	0	0	0	57	42	0	60	60	60	0	60	17	50	0	60	48	60	1	0	58	40	41	60	17	60	60	60	60	57	35	19.8
11	38	0	9	15	48	32	0	53	60	60	0	60	49	13	0	43	43	47	5	0	58	51	60	60	26	60	60	60	52	60	60	19.7
Noon	32	0	53	0	60	55	0	52	60	56	12	53	37	13	0	60	42	54	0	0	56	58	60	60	11	60	60	60	60	60	60	20.7
13	0	0	47	18	31	55	5	60	60	48	37	42	50	18	0	27	46	30	0	0	43	60	60	24	32	60	60	60	11	60	60	18.4
14	0	0	21	16	0	44	33	60	60	51	31	50	14	10	43	44	27	37	0	0	38	53	60	52	33	60	60	60	49	60	60	18.8
15	10	0	27	6	23	37	56	45	52	27	0	23	0	0	60	52	40	47	0	0	26	44	60	60	0	60	60	60	49	60	44	17.1
16	13	0	0	0	43	33	60	34	6	28	0	2	0	0	10	55	0	60	0	0	52	53	60	60	15	56	60	58	53	60	60	15.5
17	0	0	36	0	51	32	60	14	25	23	0	25	0	0	60	36	0	60	0	0	3	47	60	60	7	48	44	58	60	60	60	15.5
18	0	0	36	0	7	0	48	0	5	0	0	5	0	0	7	2	0	43	0	0	0	14	34	38	0	43	0	33	32	32	28	6.8
19	0	0	0	0	0	0	0	0	00	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, 1939

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	23.9	1.9	22.3	0.4	22.3	0.7	23.7	0.7	23.5	0.7	25.0	0.7	25.4	1.6	23.3	0.7	Midnight
1	23.3	1.2	22.5	0.5	22.5	0.8	23.3	0.7	22.1	0.7	25.0	0.7	25.2	1.5	23.3	0.6	1
2	23.6	1.0	22.3	0.4	22.9	0.8	23.0	0.6	22.0	0.8	24.9	0.6	24.8	1.2	23.2	0.6	2
3	24.0	1.2	22.3	0.4	23.3	1.0	23.1	0.6	22.3	0.3	24.8	0.8	24.9	1.2	23.1	0.5	3
4	23.7	0.9	22.3	0.5	23.3	0.8	23.5	0.6	22.8	0.5	24.0	1.0	24.6	0.8	23.4	0.6	4
5	23.8	1.1	22.3	0.5	23.4	0.6	23.8	0.6	23.0	0.6	23.5	0.9	24.3	0.6	23.5	0.6	5
6	23.8	1.1	22.3	0.6	22.6	0.9	23.8	0.5	23.0	0.5	24.3	1.0	24.1	0.7	23.1	0.8	6
7	24.1	1.4	22.6	0.7	22.1	0.7	23.7	0.5	23.2	0.5	24.8	0.8	24.0	0.6	23.6	0.4	7
8	25.7	2.1	23.3	0.7	22.1	0.8	23.4	0.6	25.1	0.7	26.4	2.0	24.2	0.5	26.7	1.7	8
9	26.9	3.0	24.0	0.8	24.6	1.4	22.8	0.5	27.7	2.1	27.6	2.9	24.0	1.0	27.7	3.0	9
10	26.1	1.6	24.2	0.7	24.3	1.1	23.0	0.6	28.8	3.1	28.1	3.1	24.0	0.8	28.3	3.5	10
11	27.8	3.6	25.4	1.3	25.5	1.5	24.2	0.9	28.9	3.2	28.3	3.3	25.7	1.0	28.8	3.8	11
Noon	28.0	3.6	25.8	1.5	26.9	2.4	24.0	0.6	29.3	3.5	28.8	3.6	26.2	1.7	29.0	4.1	Noon
13	25.1	1.1	25.6	1.1	27.2	2.5	25.6	1.0	29.2	3.5	28.7	3.7	26.9	2.3	29.0	4.5	13
14	25.5	1.7	25.7	1.5	27.0	2.4	25.9	1.6	29.0	3.8	29.0	4.0	28.0	4.0	29.6	4.9	14
15	26.3	2.3	26.0	1.8	27.2	2.6	26.0	1.4	29.1	3.7	29.0	3.8	28.2	4.0	28.8	4.2	15
16	26.4	3.0	25.5	1.4	27.0	2.3	25.6	1.6	28.7	3.7	28.2	3.7	28.2	4.2	28.2	3.8	16
17	25.8	2.2	25.3	1.6	26.7	2.2	25.2	1.0	28.7	3.5	28.0	3.2	27.6	3.9	27.8	3.4	17
18	24.8	1.8	24.5	1.2	26.1	2.2	24.0	0.8	27.7	2.8	27.0	2.7	26.5	2.8	27.0	2.7	18
19	23.9	0.9	23.6	0.8	25.1	1.6	24.7	0.7	26.1	1.5	26.2	2.0	25.1	1.6	26.1	1.9	19
20	23.8	0.8	23.3	0.7	24.5	1.2	24.4	0.6	25.4	1.1	25.7	1.6	24.3	1.1	25.2	1.1	20
21	23.7	0.8	22.8	0.6	24.2	1.0	24.0	0.7	25.0	0.8	25.3	1.3	24.0	1.0	24.9	0.9	21
22	23.7	0.5	22.4	0.7	24.1	0.8	23.6	0.6	25.1	0.7	25.3	1.3	23.7	0.9	24.7	0.9	22
23	21.8	0.5	22.1	0.9	24.1	0.9	23.4	0.6	24.9	0.9	25.3	1.4	23.5	0.9	25.0	0.9	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	24.4	0.8	24.3	0.9	25.0	1.1	24.9	0.9	24.8	0.8	24.7	0.9	24.2	0.4	25.2	0.5	Midnight
1	24.2	0.8	24.3	0.9	24.6	0.9	24.6	0.8	24.6	0.8	24.6	1.0	23.8	0.4	24.8	0.6	1
2	24.0	0.8	24.3	0.8	24.4	0.8	24.3	0.7	24.3	0.5	24.4	0.8	24.1	0.4	24.6	0.5	2
3	23.8	0.7	24.2	0.9	24.5	0.9	23.8	0.5	24.3	0.6	24.6	1.0	24.7	0.8	24.4	0.4	3
4	23.5	0.7	24.1	0.9	24.5	1.0	23.9	0.7	24.4	0.6	24.2	0.9	24.8	0.8	24.[illegible]	0.3	4
5	23.7	0.8	24.0	0.8	24.3	0.8	24.0	0.7	24.3	0.4	24.0	0.8	24.7	0.9	24.[illegible]	0.4	5
6	23.5	0.7	24.0	0.7	24.1	0.8	23.9	0.7	24.2	0.6	23.9	1.0	24.8	1.0	24.6	0.5	6
7	23.8	0.7	24.6	0.6	25.0	1.0	24.4	0.7	24.5	0.5	24.6	0.6	25.1	1.0	25.0	0.3	7
8	26.2	1.7	26.4	1.9	26.1	1.6	27.0	2.0	26.2	1.1	26.0	1.7	26.0	1.5	26.6	1.6	8
9	27.7	2.9	27.8	3.0	26.8	2.3	28.3	3.6	26.8	1.4	27.0	2.4	27.0	1.3	28.0	1.8	9
10	28.5	3.8	28.2	3.4	27.0	2.6	29.6	4.3	27.2	2.2	27.6	2.8	24.4	0.9	28.8	2.5	10
11	29.0	4.0	29.2	4.2	27.8	3.4	30.1	4.7	27.7	2.5	27.6	3.4	24.9	0.6	28.[illegible]	2.4	11
Noon	29.4	4.2	29.8	4.5	28.2	3.5	29.7	4.7	28.2	2.5	28.0	3.5	25.5	0.6	29.[illegible]	3.0	Noon
13	29.3	4.1	30.0	4.5	29.0	4.5	29.5	4.5	28.6	3.6	28.1	3.4	26.4	1.0	28.6	2.6	13
14	29.6	4.6	30.5	4.9	30.3	4.8	29.7	4.7	28.7	3.4	27.6	3.6	27.5	1.5	29.3	2.8	14
15	29.0	4.7	29.3	4.3	29.3	4.0	28.5	4.1	28.5	3.7	27.2	3.0	28.0	2.0	28.3	3.0	15
16	28.4	4.1	28.7	4.4	26.2	2.2	28.2	3.3	27.0	2.0	26.3	2.1	27.1	1.8	28.0	2.[illegible]	16
17	27.8	3.6	27.7	3.5	23.9	1.3	28.1	2.9	25.9	2.1	24.1	0.7	26.2	0.9	28.6	2.5	17
18	27.2	3.3	26.9	2.8	24.6	1.3	27.6	3.0	26.0	1.5	24.1	0.4	26.1	0.6	27.7	2.[illegible]	18
19	26.0	2.0	26.2	2.2	24.7	1.0	26.5	1.8	23.9	1.1	24.3	0.4	25.4	0.6	26.9	1.[illegible]	19
20	25.3	1.4	25.8	1.6	24.6	1.2	26.0	1.5	24.0	0.6	24.0	0.8	25.6	0.6	26.[illegible]	1.1	20
21	25.0	1.2	25.4	1.3	24.5	1.2	25.3	1.1	24.6	0.4	23.9	0.6	25.3	0.6	26.2	0.9	21
22	24.9	1.2	25.3	1.3	24.9	1.1	25.0	1.0	24.5	0.5	23.7	0.2	25.1	0.4	26.[illegible]	0.9	22
23	24.4	1.0	24.9	1.1	24.9	1.0	24.9	0.9	24.3	1.0	24.2	0.2	25.1	0.5	26.1	0.8	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)

MARCH, 1939

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	26.3	0.7	25.3	0.6	25.3	0.9	25.1	0.9	26.1	0.9	25.7	0.7	24.8	0.5	24.0	0.8	Mid-night
1	26.1	0.7	24.8	0.5	25.4	0.7	24.4	0.2	26.0	1.0	25.4	0.5	24.7	0.5	23.6	0.6	1
2	25.8	0.6	24.5	0.5	25.3	1.1	24.5	0.4	25.9	1.1	25.3	0.5	24.8	0.5	23.3	0.7	2
3	25.9	0.6	24.3	0.5	25.4	1.2	24.3	0.1	25.7	0.9	25.2	0.5	24.8	0.5	23.5	0.7	3
4	25.6	0.6	24.3	0.4	25.6	1.5	24.3	0.0	25.7	1.2	25.1	0.7	24.7	0.5	23.3	0.6	4
5	25.7	0.7	24.3	0.4	25.6	1.5	24.6	0.5	25.6	0.9	24.6	0.7	24.0	0.6	23.0	0.6	5
6	25.4	0.5	24.6	0.4	25.2	1.1	25.0	0.8	25.7	1.0	24.6	0.8	24.3	0.5	22.9	0.7	6
7	26.1	0.6	25.3	0.5	25.9	1.6	24.8	0.6	25.9	0.9	25.0	0.6	24.5	0.4	23.5	0.6	7
8	27.6	1.6	26.9	1.6	26.6	1.8	24.7	0.4	26.5	1.3	26.3	1.1	26.2	1.1	26.1	2.0	8
9	28.6	2.4	27.8	2.2	27.7	2.4	24.5	0.5	27.7	2.0	27.3	1.6	26.5	1.3	27.0	2.9	9
10	29.2	2.5	28.7	3.1	27.5	2.3	24.9	0.7	28.0	2.0	27.8	2.1	27.7	2.4	27.9	3.7	10
11	29.0	2.5	29.1	3.5	27.7	2.0	25.2	0.4	28.8	2.3	28.1	2.3	28.3	2.8	28.3	3.7	11
Noon	29.9	3.3	29.8	3.9	27.6	2.4	25.7	1.0	28.9	2.3	29.2	3.2	28.8	3.6	28.9	4.5	Noon
13	30.0	3.4	28.3	2.7	26.9	1.9	26.3	1.0	29.1	2.7	28.9	2.9	28.8	4.3	28.1	3.1	13
14	30.0	4.0	28.5	2.8	26.3	1.2	27.0	1.8	29.0	2.5	28.5	2.6	28.8	3.6	28.2	3.0	14
15	29.9	3.5	28.9	3.3	25.8	1.1	26.8	1.8	28.3	2.1	28.8	3.0	28.9	3.9	28.3	2.8	15
16	28.7	2.6	29.0	4.1	25.3	1.0	26.4	1.5	28.5	2.1	28.1	2.4	28.0	3.6	28.2	2.8	16
17	28.1	2.2	28.2	3.3	25.4	0.8	25.9	1.1	27.6	1.7	27.7	2.5	27.6	3.1	27.8	3.2	17
18	26.6	0.8	27.7	2.9	25.4	1.9	25.7	0.9	26.7	1.0	26.8	1.8	26.7	2.3	27.0	3.0	18
19	26.2	0.9	25.3	1.0	25.5	0.9	25.6	0.9	26.2	0.9	25.9	1.2	25.5	1.3	24.9	2.2	19
20	26.2	0.8	25.0	0.8	25.5	1.3	25.2	0.6	26.2	0.8	25.4	0.8	24.9	1.1	24.2	1.9	20
21	26.1	0.7	25.2	1.1	24.9	0.7	25.3	0.8	26.0	0.9	25.3	0.7	24.4	0.9	23.6	1.5	21
22	26.0	0.8	25.1	1.1	23.9	0.5	25.7	0.8	25.9	0.8	25.1	0.7	24.2	0.8	23.9	1.4	22
23	25.7	0.7	25.0	1.0	24.8	0.8	26.1	1.0	25.9	0.8	25.0	0.6	24.0	0.7	24.2	1.4	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	1.2	24.2	0.9	23.0	1.1	24.0	1.6	23.1	1.1	23.7	0.9	24.0	0.8	24.4	0.9	Mid-night
1	24.4	1.2	24.1	1.9	22.5	1.2	24.3	1.9	23.0	1.1	23.7	1.2	23.8	0.6	24.2	0.9	1
2	24.5	1.1	24.0	0.8	22.4	1.0	24.0	1.7	23.2	1.2	23.4	1.1	23.7	0.6	24.1	0.8	2
3	24.2	1.3	23.9	0.9	22.5	0.9	24.1	1.5	23.0	1.0	23.6	1.1	23.6	0.8	24.1	0.8	3
4	23.7	1.1	23.5	0.7	22.0	0.8	23.9	1.1	23.3	1.1	23.5	1.0	23.6	0.8	24.0	0.8	4
5	23.3	0.9	24.4	1.7	22.1	0.6	23.4	1.0	23.3	1.0	23.8	0.9	23.6	0.8	24.0	0.8	5
6	23.7	1.0	24.3	1.7	22.3	0.9	23.4	1.2	23.1	1.2	23.6	0.8	23.6	0.8	23.9	0.8	6
7	24.5	1.0	24.3	1.6	24.0	1.5	24.1	1.3	24.0	1.0	24.0	0.7	24.0	0.9	24.4	0.8	7
8	26.3	1.5	26.3	1.8	26.1	2.5	25.9	2.5	25.8	2.5	25.5	1.6	26.5	1.2	25.8	1.5	8
9	27.2	2.3	27.0	2.5	27.6	4.3	27.1	3.8	26.2	2.4	26.8	2.5	26.9	2.6	26.8	2.2	9
10	27.2	2.5	28.0	3.6	28.2	4.7	28.0	4.1	27.7	4.1	27.7	3.2	27.6	3.3	27.2	2.6	10
11	27.7	2.9	28.5	4.5	28.7	5.2	28.2	4.5	27.7	3.9	28.3	4.0	28.3	4.3	27.8	3.0	11
Noon	28.2	3.5	28.7	4.5	29.2	5.6	28.6	5.2	28.6	4.6	28.3	4.1	28.8	4.2	28.3	3.4	Noon
13	28.7	4.4	28.4	4.4	28.5	5.0	28.7	5.5	25.0	2.0	28.6	4.6	29.2	4.6	28.1	3.3	13
14	28.8	4.5	28.7	4.7	28.7	5.3	28.7	5.5	26.2	2.0	28.6	4.6	28.9	4.2	28.3	3.4	14
15	28.0	3.7	28.3	4.3	28.1	4.8	28.3	5.3	27.7	4.2	28.2	4.5	27.7	3.5	28.1	3.3	15
16	28.2	3.6	27.9	4.5	28.1	4.5	28.0	4.5	27.0	3.3	28.0	3.9	27.7	4.2	27.6	3.1	16
17	27.3	3.1	27.6	4.3	27.0	3.9	27.1	3.9	26.7	3.4	27.4	3.8	27.6	3.8	27.0	2.7	17
18	26.3	2.5	26.2	3.0	25.8	3.1	26.0	3.1	25.8	2.4	26.4	2.7	26.1	2.7	26.3	2.1	18
19	25.7	2.0	25.2	2.0	24.9	2.2	25.1	2.1	24.8	1.9	25.2	1.9	25.1	1.7	25.3	1.4	19
20	25.4	1.7	24.7	1.5	24.2	1.9	24.5	1.7	24.1	1.1	24.6	1.3	24.8	1.6	24.9	1.1	20
21	25.0	1.7	23.9	1.1	23.8	1.9	23.7	1.4	24.0	1.2	24.5	1.4	24.5	1.2	24.7	1.1	21
22	24.5	1.3	23.7	1.0	23.7	1.8	23.[illegible]	1.5	24.[illegible]	1.0	24.2	1.3	24.0	[illegible]	24.5	0.9	22
23	24.4	1.2	23.[illegible]	1.2	23.5	1.5	23.5	1.4	24.0	1.5	24.5	1.1	23.8	0.7	24.4	0.9	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING M A R C H, 1939

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, 1939

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	10	2.8	11	2.9	11	1.8	06	1.2	04	2.1	07	1.2	07	2.2	07	1.5	09	1.9	08	1.4	10	1.1	09	0.8	09	1.8	08	1.8	08	1.8	04	0.7
1	10	2.8	10	2.6	11	3.1	06	1.1	10	1.5	07	0.8	08	1.0	08	1.4	08	2.3	08	1.0	10	1.1	10	0.7	09	1.4	03	1.8	07	1.9	04	1.0
2	10	1.7	11	2.5	10	2.1	11	1.8	11	1.1	07	0.9	08	1.6	07	1.7	08	1.9	08	3.4	10	1.0	10	0.6	09	1.2	08	1.7	08	2.1	07	1.1
3	10	2.0	10	2.3	10	2.1	11	1.1	11	1.1	07	1.6	10	0.7	07	1.5	08	1.6	08	1.5	10	1.4	10	1.0	10	1.7	07	1.8	07	2.9	07	1.0
4	11	2.0	11	1.7	09	1.2	11	1.4	11	1.1	06	1.5	10	0.6	07	1.9	08	1.4	08	2.4	10	1.3	10	1.0	09	1.0	06	1.3	07	2.0	07	0.8
5	11	2.1	11	1.8	04	1.5	08	1.7	11	1.2	08	1.7	08	0.7	07	1.7	07	1.0	08	2.1	10	1.2	10	1.2	07	1.6	06	1.3	06	2.9	07	0.9
6	11	2.6	10	1.8	04	1.2	06	1.6	10	1.1	08	1.1	10	1.6	07	1.4	07	1.8	08	1.8	10	1.4	10	0.6	07	1.1	07	1.7	06	2.1	06	1.1
7	11	3.7	10	1.7	04	0.7	02	2.2	10	1.3	08	1.4	09	0.6	08	1.0	07	1.1	08	1.7	10	1.4	10	0.7	07	1.6	08	1.9	06	2.6	07	1.2
8	10	4.0	10	1.1	10	2.6	16	2.0	10	1.1	05	3.2	09	0.6	06	1.8	07	1.8	07	2.7	10	1.9	10	1.4	07	1.9	06	3.3	06	3.6	05	2.0
9	08	4.7	10	1.6	08	3.7	32	2.3	05	2.0	06	3.3	14	1.1	06	2.4	06	2.3	06	2.8	09	3.7	11	1.8	05	3.4	07	4.8	06	4.4	04	4.4
10	06	4.6	07	1.6	06	2.8	12	1.8	03	3.8	07	3.8	11	1.1	05	2.5	06	2.5	06	3.5	10	1.5	07	1.7	06	3.4	06	5.4	08	4.0	03	4.6
11	07	4.8	03	1.9	06	4.0	14	2.1	02	3.3	04	3.6	13	1.4	04	3.2	06	2.6	06	4.3	10	1.8	02	2.8	06	3.1	08	5.4	07	2.5	02	4.6
Noon	07	5.2	02	2.8	05	4.1	17	2.4	04	3.8	04	4.0	09	1.8	04	3.6	03	3.4	02	3.6	07	1.7	05	3.0	03	2.6	05	5.4	03	2.9	02	5.5
13	08	4.1	02	3.1	04	4.5	05	1.3	03	3.8	04	4.0	08	2.6	06	3.3	07	4.0	03	3.0	08	1.6	06	2.4	05	4.9	05	5.5	05	4.0	28	4.9
14	08	5.4	31	2.8	06	4.5	07	2.1	03	3.1	04	4.2	06	2.1	05	3.0	07	3.5	03	2.3	02	1.8	05	2.5	04	3.2	06	5.7	05	4.4	03	4.4
15	08	5.5	30	2.9	03	5.0	06	2.6	03	3.1	04	4.1	06	2.3	05	3.1	06	3.0	05	2.7	03	2.6	07	1.6	04	3.0	05	4.5	05	4.9	03	4.3
16	09	5.1	30	1.6	03	4.6	04	3.7	03	2.9	04	3.8	06	2.7	06	2.8	05	2.4	06	2.0	18	2.7	08	1.1	02	2.7	06	3.3	04	3.8	03	4.3
17	09	4.6	30	1.2	04	4.4	04	1.5	04	2.7	05	2.8	06	2.6	07	2.2	07	1.9	06	2.2	14	3.0	d19	1.1	06	1.8	05	3.0	04	1.9	03	4.0
18	10	4.4	30	0.7	05	4.0	04	0.6	04	2.4	06	2.7	08	1.8	07	1.8	07	1.3	06	2.1	14	1.3	r05	1.5	09	1.2	08	1.4	05	2.0	04	3.7
19	10	3.0	24	1.0	06	3.3	04	0.7	04	1.1	06	0.9	08	1.7	08	0.9	07	1.5	08	1.8	14	0.7	06	0.8	03	1.9	08	2.4	05	1.8	03	0.7
20	09	2.5	24	1.2	06	1.2	05	0.6	04	1.0	06	1.1	08	1.9	08	1.5	07	1.2	08	1.2	07	1.1	06	0.7	d11	1.2	09	3.9	06	1.2	03	2.7
21	10	2.0	16	1.8	06	1.1	05	0.7	07	1.0	07	1.8	08	1.8	09	0.7	08	3.2	08	1.1	07	1.8	09	0.9	07	1.1	10	2.8	04	1.2	03	1.8
22	14	1.8	11	1.9	06	0.8	05	0.9	07	1.6	08	2.5	08	1.7	09	1.4	08	1.8	09	1.3	10	2.7	09	1.0	07	2.0	08	1.8	04	1.7	04	1.7
23	11	3.2	11	1.8	06	0.9	05	0.6	07	1.1	06	2.7	08	1.0	08	1.0	08	1.4	10	1.2	10	2.2	10	1.4	08	2.8	08	2.2	04	1.4	04	1.3

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	04	2.0	02	0.6	11	3.1	09	12.8	03	8.1	02	3.5	06	3.0	07	1.7	11	2.5	09	3.3	11	1.6	10	2.5	11	2.1	09	2.5	09	1.9	2.5
1	03	1.7	d11	1.5	12	3.2	08	10.8	03	7.8	03	3.3	07	1.6	07	1.0	12	3.9	10	2.9	11	1.8	08	2.3	10	1.8	10	2.9	10	1.5	2.4
2	04	1.1	11	1.3	12	3.6	08	9.9	03	7.7	04	3.1	07	1.4	07	0.9	12	3.6	10	2.6	11	1.8	11	2.1	10	2.2	09	2.3	09	1.2	2.3
3	04	1.2	11	1.6	12	4.1	06	11.4	03	6.2	03	2.7	06	1.5	07	1.5	12	2.7	09	3.3	11	1.8	11	2.4	10	2.2	09	2.0	10	1.4	2.3
4	04	1.1	11	1.8	10	4.3	08	12.4	03	6.9	03	2.9	06	1.1	07	1.6	11	1.4	09	2.6	11	1.6	06	1.8	11	2.5	08	2.6	10	1.6	2.2
5	04	1.4	11	2.1	12	5.0	06	12.2	03	6.0	03	3.9	06	1.0	08	1.7	11	1.1	09	1.9	11	2.1	09	2.3	10	2.3	08	2.3	10	3.1	2.4
6	04	1.1	10	2.6	12	6.3	06	11.9	02	6.7	05	2.6	06	0.7	08	0.9	11	2.0	09	1.2	11	1.9	10	2.0	10	2.4	08	1.8	10	3.1	2.3
7	04	2.0	10	1.9	11	6.9	06	12.5	03	6.6	03	2.8	07	1.5	08	0.6	11	2.5	09	1.7	11	1.8	10	2.4	10	1.8	09	2.2	09	2.6	2.4
8	05	3.1	11	1.8	11	7.7	05	13.6	02	7.6	01	4.5	07	1.1	09	1.9	12	3.1	07	1.8	10	2.4	09	4.0	08	3.4	07	2.5	08	3.0	3.1
9	02	3.9	09	1.7	12	7.8	05	14.1	03	8.1	02	6.3	05	1.4	11	2.4	09	4.4	07	3.2	07	2.5	09	4.2	08	4.7	05	4.0	08	3.7	3.9
10	02	3.9	08	3.0	11	8.9	05	13.5	02	8.7	01	5.6	04	3.7	11	2.6	09	3.7	06	3.4	08	3.6	10	4.4	07	5.1	05	4.8	07	4.0	4.1
11	03	4.5	12	3.0	12	8.9	04	11.5	01	8.5	02	5.8	05	3.2	10	3.0	07	3.5	05	5.3	08	3.6	08	5.0	08	5.1	06	4.6	05	4.2	4.2
Noon	02	4.4	08	2.7	11	8.5	03	11.7	01	8.0	02	5.1	05	2.7	09	2.9	10	3.8	05	2.0	11	3.3	06	5.0	09	4.1	06	4.3	08	4.0	4.1
13	02	4.1	r22	2.4	09	8.5	03	11.6	01	8.1	03	5.5	05	2.8	r20	2.5	07	3.6	07	3.6	06	4.0	07	4.9	05	4.4	07	4.4	06	4.0	4.2
14	02	5.2	22	2.1	10	7.8	04	11.4	02	8.6	04	4.8	07	2.8	20	3.6	08	4.0	06	3.2	07	3.3	09	4.9	08	4.6	06	4.4	08	3.6	4.2
15	01	4.0	d16	2.6	09	8.7	05	10.3	01	7.6	04	4.7	05	2.4	21	3.1	10	3.0	07	3.0	09	4.1	07	4.5	08	4.4	06	4.4	09	4.2	4.1
16	03	3.1	10	4.3	09	9.3	05	11.0	32	7.2	02	5.0	08	2.5	22	3.0	10	3.7	06	3.5	10	4.3	09	4.4	10	4.7	07	3.8	07	4.1	4.0
17	02	1.9	11	3.6	11	8.9	04	11.4	01	5.8	04	4.3	07	2.3	22	1.8	09	4.0	08	3.0	09	4.4	11	4.4	10	4.8	07	3.1	09	4.1	3.5
18	04	1.1	11	3.5	09	7.7	02	10.3	01	4.8	05	3.4	07	2.2	22	1.1	10	3.4	08	2.9	10	3.9	09	4.2	09	3.3	08	3.0	09	2.7	2.9
19	31	1.5	12	2.9	10	10.7	03	9.3	03	3.0	05	2.2	07	1.4	d11	1.6	10	3.0	08	3.0	11	3.1	11	2.7	10	3.2	08	1.7	10	2.1	2.4
20	31	1.0	12	2.7	10	9.3	03	8.0	01	4.0	05	1.5	07	1.2	10	1.5	10	3.0	08	2.8	11	2.1	10	2.9	11	2.3	08	1.5	10	2.5	2.3
21	31	0.6	12	2.6	09	11.0	03	7.0	02	3.7	05	1.8	07	1.3	11	2.5	10	3.6	08	2.5	10	2.2	10	2.0	10	2.9	10	2.1	10	2.5	2.4
22	03	0.7	12	3.1	09	9.7	04	7.3	02	3.6	05	1.5	07	1.3	11	2.2	09	3.9	08	1.8	12	2.3	10	1.8	10	2.5	10	1.4	09	2.7	2.3
23	03	0.8	11	2.8	09	10.9	03	7.8	02	4.5	05	1.8	07	2.0	11	1.9	09	3.8	11	2.2	11	2.0	10	2.1	10	3.0	10	2.3	11	2.0	2.5

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS), MARCH, 1939

Hour	Force (0-12) 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	1	1	29	-	-	3	2	10	9	7	-	-	-	-	-	-	-	-	-
9	1	3	27	1	2	8	5	10	1	3	1	-	-	-	-	-	-	-	-
15	3	1	27	2	-	15	4	6	1	-	-	1	-	1	-	-	-	-	1
21	1	1	29	1	1	5	1	12	8	2	-	1	-	-	-	-	-	-	-
Totals	[illegible]	[illegible]		4	3	31	12	38	19	12	1	2	-	1	-	-	-	-	1

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR MARCH, 1939

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	..	0.6	..	10.8	..	..	0.1	..	..	..	..	..	..	..	0.1	..	..	..	0.7	2.0	..	..	..	..	..	..	..	..	..	..	..
2	..	0.7	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	0.1	14.9	..	..	..	..	..	..	..	0.1	..	..	..
3	0.5	0.3	..	..	..	..	2.4	..	..	..	..	..	..	..	..	..	..	..	..	19.8	..	..	..	..	..	..	..	..	..	..	..
4	0.4	..	0.3	..	..	..	2.0	..	..	..	..	..	..	..	..	..	..	..	..	17.0	..	..	..	..	..	..	..	0.5	..	0.1	..
5	..	..	0.2	..	..	..	2.9	..	..	..	..	..	..	..	..	..	..	..	..	20.7	..	..	..	..	..	..	..	..	..	0.2	..
6	..	..	..	..	..	..	2.9	..	..	..	..	..	..	..	0.1	..	..	..	2.3	9.6	..	..	..	..	..	..	..	..	..	..	..
7	0.7	..	..	..	..	..	2.9	..	..	..	..	..	..	..	..	..	..	..	0.3	8.0	..	..	0.1	..	..	..	..	..	..	..	..
8	..	0.2	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	0.5	10.6	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	0.3	..	1.5	13.0	..	..	0.5	..	..	..	..	..	..	..	..
10	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	1.7	7.4	..	..	2.8	..	0.1	..	..	..	..	0.4	..
11	1.7	..	..	0.5	..	..	..	..	..	..	..	..	..	..	1.4	..	..	..	0.2	7.4	..	..	..	..	..	..	..	..	..	..	0.5
Noon	1.3	0.3	..	6.5	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	2.5	1.3	..	..	..	..	..	..	..	..	..	..	..
13	..	3.9	..	1.5	..	..	..	..	..	..	..	13.6	..	..	..	..	..	..	2.4	6.5	..	..	..	..	..	..	..	..	..	..	..
14	0.5	4.5	..	..	..	..	..	..	..	..	..	0.7	..	..	..	0.6	..	..	5.0	0.6	..	..	..	..	..	..	..	..	..	..	..
15	..	3.1	..	0.7	..	..	..	..	..	..	9.7	..	..	..	..	..	..	..	4.0	0.3	..	..	..	..	..	..	..	..	..	..	..
16	0.1	0.7	0.4	3.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5.0	..	..	..	..	..	..	..	..	..	..	..	..
17	0.1	1.3	..	13.5	..	..	..	..	..	..	..	..	..	0.3	0.5	..	..	..	4.8	0.9	..	..	..	..	..	..	..	..	..	..	..
18	..	3.0	..	..	..	..	..	..	..	..	..	..	0.1	1.4	2.5	..	0.9	..	10.6	8.7	..	..	..	..	..	..	..	..	..	..	..
19	0.1	2.0	..	..	..	..	..	..	..	..	..	..	..	3.2	0.3	..	1.0	..	10.8	3.9	..	..	..	..	..	..	..	..	..	..	..
20	0.7	0.4	..	..	..	..	..	..	..	..	..	..	0.5	0.5	..	..	2.1	..	10.5	4.3	..	..	..	..	..	..	..	..	..	..	..
21	4.0	0.1	3.4	..	..	..	..	..	..	..	..	..	0.1	..	0.1	..	1.9	0.1	3.5	4.7	..	..	..	..	..	..	..	..	0.9	..	..
22	11.5	2.5	1.1	..	..	..	..	..	..	..	..	..	..	0.1	..	..	4.1	0.2	9.0	0.8	..	..	..	..	..	..	..	..	1.5	..	1.0
23	3.2	..	10.4	..	..	0.4	..	..	..	..	..	..	..	0.5	0.1	..	..	0.8	25.0	..	..	..	..	..	..	..	..	..	..	..	2.0
24	4.8	..	4.7	..	0.2	0.5	..	..	..	..	..	..	0.1	2.6	..	..	2.4	0.3	12.4	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR MARCH, 1939

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	..	0.9	..	..	4.5	..	..	..	..	..	..	..	..	0.6	0.2	..	..	..	0.1	5.2	..	..	..	..	..	..	..	..	..	..	..
2	..	2.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12.0	..	..	..	..	..	..	..	..	..	..	..
3	..	4.7	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17.5	..	..	..	..	..	..	..	..	..	..	..
4	..	1.1	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	25.5	..	..	..	..	..	..	..	0.1	..	..	..
5	..	..	1.0	0.5	..	..	2.0	..	..	..	..	..	..	..	0.1	..	..	..	..	7.3	..	0.1	..	..	..	..	..	0.2	..	0.7	..
6	..	..	0.3	3.0	..	..	2.7	..	..	..	..	..	..	..	..	..	..	..	2.4	8.6	..	..	0.1	..	..	..	..	..	..	0.5	..
7	..	0.1	1.0	3.5	..	..	3.7	..	..	..	..	..	..	..	..	..	..	..	..	5.5	..	..	..	..	..	..	..	..	..	..	..
8	..	..	0.1	6.5	..	..	2.1	0.1	..	..	..	..	..	..	..	..	..	0.1	0.1	5.7	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	16.4	..	..	1.1	..	..	..	..	..	1.8	0.1	..	..	..	0.1	..	6.7	..	..	1.2	..	..	..	..	..	..	..	..
10	..	0.7	..	2.0	..	..	..	..	..	..	..	..	..	..	8.7	..	..	..	..	2.6	..	..	..	..	..	..	..	..	..	..	..
11	..	0.2	..	0.6	..	..	..	..	..	..	..	..	..	..	0.8	..	0.1	..	..	1.8	..	..	..	..	..	..	..	..	..	..	..
Noon	..	0.1	..	18.1	..	..	..	..	..	..	..	..	0.4	..	1.5	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..
13	0.5	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.6	..	..	..	..	..	..	..	..	0.7	..	..
14	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	0.3	..	..	..	..	..	..	..	..	..	0.7	..	..
15	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5.6	..	..	..	..	..	..	..	..	..	..	..	0.3
16	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.3	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	0.1	..	..	..	..	..	..	14.3	..	0.9	8.7	0.8	..	2.8	..	1.3	0.3	..	..	..	..	..	..	..	..	..	..	..
18	0.1	0.2	..	..	..	..	..	..	..	..	..	..	..	5.1	..	..	9.8	..	3.5	0.8	..	..	..	..	..	..	..	..	..	..	..
19	1.0	1.2	..	..	..	..	..	..	..	..	..	..	14.6	0.5	0.2	..	5.4	0.4	2.2	1.2	..	..	..	..	..	..	..	..	..	..	..
20	1.0	0.2	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	0.4	0.6	0.8	3.3	..	..	..	..	..	..	..	..	..	..	..
21	3.0	0.1	..	..	..	..	..	..	..	..	..	..	1.1	..	1.5	..	..	..	3.0	1.9	..	..	..	..	..	..	..	..	..	..	..
22	9.0	0.6	..	..	..	..	..	..	..	..	..	..	..	12.2	..	..	0.9	..	8.5	0.4	..	..	..	..	..	..	..	..	..	..	7.7
23	30.4	0.3	..	..	..	..	..	0.3	..	..	..	..	..	3.5	..	..	0.2	0.1	5.6	..	..	..	..	..	..	..	..	..	..	..	..
24	2.9	0.1	..	0.2	..	..	..	..	..	..	..	..	..	2.6	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	..	0.2

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR MARCH, 1939

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall		Normal in Inches	Number of days
			Inches	Millimetres		
1	Rue Seche	20	12.20	309.9	6.30	15
	Saint Antoine	50	16.50	419.1	7.78	15
	Bel Mont	50	13.49	342.6	8.44	15
	Poudre d'Or	20	18.06	458.7	7.69	15
	Mon Loisir S.E.	300	12.33	313.2	8.39	16
	Forbach	300	....	....	6.63	
	Couroupa	...	...	...	7.32	
	Labourdonnais	290	15.6	396.5	9.58	15
	Mapou Water Office	...	17.23	437.6	...	15
	Beau Sejour	300	19.25	489.0	11.43	19
	Mont Piton	650	14.15	359.4	10.47	2[illegible]
	Mon Choix	700	17.13	435.1	9.64	18
	Antoinette	640	16.42	417.1	11.48	16
	Mon Songe	620	16.50	419.0	12.66	19
	Botanical Gardens	325	20.45	519.4	9.88	16
	The Observatory	179	15.22	386.7	8.59	22
	Solitude	175	17.96	456.2	6.87	15
	St Andre (cour)	90	14.28	362.7	7.71	15
	La Nicoliere	...	20.54	521.7	15.92	23
	California	...	23.02	584.7	...	15
	Australia	...	20.58	523.0	...	16
2 & 3	Union Regnard (Flacq S.E.)	600	15.30	388.6	11.97	18
	Constance d'Arifat (L.S.)	100	12.45	316.2	11.28	17
	Rich Fund	600	15.62	396.7	13.29	23
	La Joffrette	...	13.48	342.4	...	22
	Belle - Vue (Allenby)	...	13.90	353.1	10.89	19
4	Sans Souci	900	23.17	588.5	19.68	22
	Beau - Champ (G.R.S.E.)	20	10.60	269.2	9.20	17
	Olivia	400	12.59	324.9	12.81	23
	Trois Ilots	...	13.84	351.5	....	23
	Belle Rive	400	14.14	359.2	11.68	25
	Sebastopol	700	14.77	375.0	...	14
	Bonne Veine	400	28.80	731.5	17.53	23
5	Rose Belle	850	18.21	462.5	16.62	26
	New Grove	650	23.77	720.8	21.41	27
	Mon Tresor	...	12.84	326.1	...	22
	Mon Desert Carie	75	13.54	343.9	9.03	20
	Ferney	20	15.45	392.0	14.25	20
	Sauve Terre	...	11.15	283.2	...	19
	Tivoli	1300	16.67	423.4	18.54	27
	La Flora	1050	19.49	495.0	17.16	26
	Riche Bois (Britannia)	...	12.52	318.0	14.93	20
6	Britannia S.E.	700	14.01	355.9	16.11	23
	Savannah (Mill)	200	11.97	304.0	12.24	17
	Saint Aubin	300	9.21	233.9	11.19	17
	Saint Avold	900	15.78	400.8	16.98	23
	Colmar	400	12.47	316.7	13.96	19
	Union S.E.	...	12.95	328.9	9.43	18
	Fontenelle	320	14.70	373.4	10.79	17
	Choisy	200	15.10	383.5	9.75	15
	Beau Bois	...	9.38	238.3	...	17
	Bel Air	...	12.17	309.1	10.0	14
	Saint Felix	...	14.62	371.1	...	13
7, 8, 9 & 10	Bel Ombre	40	20.98	532.9	96.5	16
	Beau Champ Baie du Cap	70	16.13	409.7	11.35	14
	Frederica	...	23.24	590.3	11.73	13
	Pierrefonds	...	18.38	466.9	9.03	22
	Sainte Marie	...	23.24	590.3	...	13
	Hussonia Ltd.	...	...	...	...	..
11	Curepipe Gardens	1840	26.81	681.0	18.02	22
	Mare-aux-Vacoas G.End	1850	22.74	704.6	18.24	21
	Mare-aux-Vacoas (Arnaud)	1830	24.36	745.7	20.79	20
	La Marie Filter Beds	1700	25.09	637.3	16.44	19
	Sophie	...	22.77	578.3	...	21
	Reunion	1420	23.63	600.2	14.04	19
	Aerological Station	1393	19.53	[illegible]	12.15	21
	Phoenix	...	13.44	[illegible]	...	17
	Quatre Bornes	...	16.63	[illegible]	...	18
12	Quatre Bornes (Board)	1090	18.98	[illegible]	9.16	10
	Le Reduit (Dept. of Agric.)	1000	18.01	457.4	10.03	25
	Alma	1460	29.69	[illegible]	19.00	20
	Bagatelle	1250	31.32	[illegible]	14.04	22
	Highlands	1300	28.55	[illegible]	14.71	23
	Trianon	950	18.98	482.1	11.37	19
	Val Ory	1100	18.25	464.0	11.39	16
	Bassin	...	17.02	[illegible]	8.81	16
	Hermitage	1450	32.16	[illegible]	17.01	22
	Ebene	...	19.83	[illegible]	...	20
	Bega	...	18.38	[illegible]	...	20
	Mon Reve	...	22.11	[illegible]	...	20
	Mon Pevril	...	20.19	[illegible]	...	20
	Minissy	..50	23.33	[illegible]	12.24	20
	Plaisance	...	13.40	[illegible]	...	17
	La Ferme	350	16.09	[illegible]	12.25	17
	Line Barracks	...	15.04	[illegible]	...	19

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION, VADDAS, [illegible] METRES ABOVE SEA LEVEL, DURING THE MONTH OF MARCH, 1939

Day \ Type	Time	St. & Fs. Dir.	St. & Fs. Vel/Height	Cumulus Cu. St. &c. Dir.	Cumulus Cu. St. &c. Vel/Height	Alto Cu. Alto St. Dir.	Alto Cu. Alto St. Vel/Height	Cirro Cumulus Dir.	Cirro Cumulus Vel/Height	Cirro Stratus Dir.	Cirro Stratus Vel/Height	Cirrus Dir.	Cirrus Vel/Height	[illegible]	St. & Fs. Dir.	St. & Fs. Vel/Height	Cumulus Cu.St. &c. Dir.	Cumulus Cu.St. &c. Vel/Height	Alto Cu. Alto St. Dir.	Alto Cu. Alto St. Vel/Height	Cirro Cumulus Dir.	Cirro Cumulus Vel/Height	Cirro Stratus Dir.	Cirro Stratus Vel/Height	Cirrus Dir.	Cirrus Vel/Height
		0		0		0		0		0		0			0		0		0		0		0		0	
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	350	11.4*	...	...	70	6.1*	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	30	11.7*	...	...	...	...	...	...	345	2.6*
8	...	...	...	...	...	...	...	...	...	...	...		...	15½	30	5.1*	...	...	...	...	...	...	...	...	...	...
9	9½	...	...	[illegible]	[illegible]	...	...	...	...	...	...	...	...	15½	...	...	120	...	...	...	210	2.6*	...	...	240	3.[illegible]
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	...	...	30	11.3*	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	53	24.7*	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	330	5.2*	...	...	...	...	...	...	...	...
18	10	...	...	90	15.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	60	7.9*	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	68	5.4*	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	...	...	90	10.4*	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	90	4.8*	120	4.9*	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	92	11.4*	95	9.8*	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	...	...	82	7.8*	...	...	...	...	...	...	...	...
30	11½	75	10.0	105	20.5	...	...	...	...	...	...	...	...	15½	75	11.9*	105	12.9*	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	120	2.8*	...	...	...	...	...	...	...	...

The Direction is that from which the Cloud travels counting North (0°) East (90°) South (180°). The Velocity-Height Ratio is given in milliradians per sec.

* Observatory Pamplemousses

NEW SERIES (MONTHLY) VOL. XXV PART IV

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20°5'39" S - LONGITUDE $3^h50^m12^s6$"

RESULTS
OF
MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

APRIL, 1939

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

DIRECTOR

PUBLISHED IN 1962 BY

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

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF APRIL, 1939

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)	H.R.h. 10,000	Z.R.z. 10,000
April								
1	13°44'.0	.22421	.29843	4.5	42	27	94	81
2	44.2	434	841	5.7	51	28	114	84
3	44.1	429	839	9.2	57	35	128	104
4	44.4	431	843	7.5	40	13	90	39
5	43.8	430	841	9.5	84	26	188	77
6	44.2	449	840	7.8	47	24	105	72
7	44.6	455	833	12.0	39	39	88	116
8	43.9	464	837	9.6	75	26	169	77
9	44.2	460	836	10.0	46	40	104	119
10	44.5	457	840	9.3	69	26	155	77
11	44.2	451	840	6.7	56	21	126	63
12	44.9	449	840	9.0	33	26	74	77
13	44.0	456	839	7.3	32	23	72	69
14	44.7	462	841	10.0	53	22	119	66
15	44.8	455	837	6.7	22	30	49	89
16	44.5	464	836	7.3	49	30	110	89
17	46.1	381	853	9.3	292	52	654	155
18	45.4	384	857	5.5	79	35	177	105
19	44.1	406	850	6.7	128	42	287	125
20	43.9	409	850	6.7	66	25	148	75
21	44.4	403	850	6.0	42	25	94	75
22	44.0	413	849	7.0	77	32	172	95
23	45.8	382	858	8.0	160	30	358	90
24	44.8	412	851	7.5	128	26	287	78
25	46.5	336	864	7.5	110	36	246	108
26	45.4	405	854	7.5	54	24	128	72
27	45.1	420	852	10.7	34	30	76	90
28	44.9	421	853	7.0	34	18	76	54
29	45.2	428	849	9.0	66	28	148	84
30	45.0	434	845	7.7	60	27	134	80
Mean	13°44'.66	.22427	.29845	7.94	70.9	28.9	159.0	86.2

T = .37332 : Mean Dip = 53°41'.62 : X = .21785
Y = -.05328 : Z = .29845

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

Description of the Principal Magnetic Disturbances

DECLINATION 2nd Very slightly disturbed at times. 10th Minor fluctuations (not greater than 4') at times on an otherwise quiet trace. 17th Important disturbances with sudden commencement at 05h 55m and ending during early hours of 8th. Rapid fluctuations of 5' to 6' amplitudes on a disturbed trace. 18th and 19th Slightly disturbed. 19th 21h to 23h large wave of 8' amplitude. 23rd Moderately disturbed mainly during second half. 24th 21h 40m Sudden commencement of short lived disturbance ending gradually on 25th. Important fluctuations not exceeding 9' on the trace.

HORIZONTAL FORCE 1st, 2nd and 3rd Moderately disturbed. Occasional sharp waves of 20 γ - 30 γ on the trace. 5th Moderately disturbed, particularly during early hours. 8th and 9th early part - moderately disturbed - Double waves of 20 γ. 9th Second half. Commencement of a long period of moderately disturbed trace ending during the second half of 12th. Important waves of 30 γ - 40 γ in the trace between 24th 23h and 25th 4h. 17th Sudden commencement at 05h 55m with an abrupt increase of 35 γ of a violent disturbance which gradually subsides on 20th. The most violent part occurs from commencement till 2h on 17th. The range from minimum to maximum during this period amounts to 315 γ. Only moderate fluctuations are recorded during the remainder of the disturbed trace. One large and sharp negative wave of 70 γ occurs between 20h 45m and 22h on 19th. 20th, 21st and 22nd are slightly disturbed. 23rd Sudden commencement with a sharp positive wave of 50 followed by a long sustained decrease of a short lived but violent disturbance ending on 24th 0h. Large fluctuations of 35 γ to 55 γ at times on the trace. The absolute range during the disturbance is 176 γ. 24th Sudden commencement at 21h 30m by a violent surge of 130 γ followed by a long sustained decrease, amounting to 287 γ of a short-lived disturbance which gradually dies down after 26th 0h. 28th & 29th are very slightly disturbed at times.

VERTICAL FORCE 1st, 2nd and 3rd. Slightly disturbed at times. 4th 23h 30m to 5th 2h Slightly disturbed. Minor pulsations on the trace. 9th to 12th Slightly disturbed. 17th Sudden commencement at 05h 55m of a disturbance ending on 18th 4h; large oscillations of 20 γ to 25 γ on a widely fluctuating trace. 18th & 19th Moderately disturbed during the greater part. At 19th 21h 20m sudden decrease of 20 γ with partial recovery. 22nd Slightly disturbed at the end. 23rd Moderately disturbed during the greater part. 24th 21h 40m Sudden commencement of a moderate disturbance ending gradually on 25th.

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF APRIL, 1939

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. 9.11	13.48. 5	8. 9.48	.22473	11.12.07	52.59.37	.29821
11. 11.53	13.43. 6	13. 9.32	.22470	21.11.19	53.06.94	.29848
21. 11.07	13.43. 8	17.11.50	.22381	25.15.19	53.15.18	.29856
		26.11.04	.22462			
		29.10.59	.22456			

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

APRIL, 1939

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
	15° +																
Midnight	44.7	46.0	44.5	44.5	47.0	44.3	44.0	44.5	44.5	44.3	43.5	45.5	44.7	45.0	44.7	45.0	Midnight
1	44.5	45.7	44.5	45.3	47.5	44.7	44.3	44.3	44.5	45.0	45.0	45.5	44.5	45.0	45.0	45.3	1
2	44.0	45.5	44.5	45.5	46.5	44.5	44.5	44.0	45.5	45.0	44.5	43.7	44.3	44.7	45.3	45.3	2
3	44.0	45.5	42.0	45.0	46.0	44.5	44.7	44.3	45.3	44.7	44.3	44.5	44.0	44.5	45.0	45.5	3
4	44.7	43.0	43.3	45.0	45.5	44.7	45.0	44.0	45.0	45.5	42.3	44.7	44.0	44.7	45.3	45.5	4
5	43.5	44.0	44.7	44.7	45.5	44.7	45.5	44.5	45.3	44.0	44.5	44.3	43.7	45.0	45.5	45.3	5
6	43.7	43.7	44.7	44.5	45.5	45.0	45.5	44.7	45.5	44.0	44.5	44.0	49.0	44.0	44.5	45.0	6
7	44.5	43.5	46.0	45.0	45.7	46.0	47.5	45.0	42.5	45.0	45.5	45.0	44.5	42.7	44.0	46.0	7
8	46.5	45.5	47.7	45.7	46.5	47.0	50.0	47.3	47.5	49.7	47.0	46.5	46.5	44.0	46.5	47.0	8
9	45.5	46.7	48.5	48.0	46.7	47.5	51.5	47.5	50.0	48.5	47.7	48.0	48.0	48.0	48.7	48.3	9
10	44.5	46.0	48.0	45.5	45.5	46.5	50.0	48.3	49.0	49.0	47.5	50.0	48.0	51.0	49.0	48.0	10
11	43.0	45.0	45.0	44.5	40.5	43.0	45.0	46.0	45.0	47.0	46.0	49.0	44.5	50.7	47.0	46.0	11
Noon	42.0	43.0	42.3	42.7	39.0	40.7	42.0	43.0	42.0	42.5	44.0	47.0	42.5	48.0	45.3	43.5	Noon
13	41.0	42.0	39.3	40.5	38.5	44.0	39.5	44.0	40.0	39.7	42.7	45.0	42.3	43.5	43.7	41.0	13
14	41.5	41.0	40.0	41.0	38.0	39.7	39.5	39.0	40.0	41.0	41.0	43.5	41.5	41.5	43.0	42.3	14
15	41.7	41.5	40.7	42.0	40.5	44.0	40.0	38.7	40.5	41.0	41.7	42.7	41.5	41.0	42.7	42.3	15
16	42.5	42.5	42.0	43.0	41.0	41.0	41.0	39.3	40.5	41.0	41.5	41.0	40.7	41.7	42.3	42.0	16
17	43.3	44.0	43.5	44.0	42.7	43.0	43.7	41.5	42.5	42.0	42.5	42.5	41.5	42.5	43.0	42.5	17
18	44.0	44.5	44.3	44.3	43.5	44.0	44.3	43.3	43.0	43.5	42.7	43.5	43.0	43.7	43.5	43.0	18
19	45.5	44.5	44.3	44.5	44.5	44.3	44.3	43.5	43.7	43.5	43.0	43.7	43.3	43.7	43.7	43.7	19
20	45.0	44.3	44.5	44.5	44.0	44.3	44.0	43.7	44.5	45.0	44.5	44.0	44.0	44.0	44.0	44.0	20
21	45.5	45.0	44.5	44.3	44.7	44.5	44.7	44.0	45.0	45.0	45.0	44.5	44.7	44.3	44.2	44.3	21
22	45.0	44.0	45.0	44.0	44.0	44.3	44.5	44.3	45.0	45.0	43.5	45.0	45.0	45.0	44.5	44.5	22
23	46.0	44.5	44.7	47.0	44.7	44.0	44.7	44.5	44.5	45.7	46.0	45.5	45.5	45.0	45.0	44.7	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Hour \ Day
	15° +																
Midnight	44.7	47.0	47.0	46.5	46.0	44.7	45.5	45.5	45.7	45.5	45.5	45.3	45.0	45.7		45.2	Midnight
1	44.7	44.0	46.5	47.0	45.5	43.5	45.0	45.5	46.0	45.7	45.5	45.0	45.5	45.7		45.2	1
2	44.5	46.3	46.0	45.3	45.3	43.5	44.5	45.0	49.5	44.5	45.0	44.0	45.0	45.7		45.0	2
3	45.0	46.0	45.7	44.0	45.5	43.0	44.5	44.5	47.0	44.5	45.0	44.0	43.5	44.7		44.7	3
4	45.0	45.7	44.3	44.3	46.5	42.3	44.5	43.0	49.0	44.0	45.3	43.7	44.0	44.3		44.6	4
5	45.0	45.5	44.5	44.5	46.0	41.5	42.5	44.7	49.5	44.0	45.5	44.0	44.5	44.3		44.7	5
6	42.7	45.0	44.5	43.5	45.5	41.7	44.0	46.5	45.5	44.0	45.5	43.5	44.5	44.0		44.4	6
7	47.0	46.0	43.0	41.0	44.3	43.0	44.5	47.5	45.0	44.5	45.0	42.5	44.7	44.0		44.7	7
8	44.5	46.5	46.0	40.3	45.7	46.0	44.7	49.0	47.0	46.5	47.0	44.0	44.0	46.0		46.4	8
9	45.0	47.5	45.0	41.0	46.7	47.5	46.0	49.0	49.0	49.5	49.5	49.5	50.0	49.0		47.8	9
10	50.0	48.0	45.0	43.5	46.0	48.0	46.5	45.0	50.5	50.5	51.0	49.5	51.5	50.0		48.0	10
11	44.7	48.0	42.0	43.5	44.5	45.0	45.0	46.0	50.5	49.0	48.5	49.0	50.0	49.0		46.1	11
Noon	44.0	45.0	40.5	42.5	43.0	42.5	44.0	42.5	47.0	46.5	45.3	47.5	45.3	45.5		43.7	Noon
13	44.0	43.0	40.3	41.5	41.0	41.5	42.5	41.5	45.5	44.7	43.0	46.3	45.0	43.5		42.3	13
14	44.5	43.0	40.0	43.3	42.0	41.0	43.0	41.5	44.0	44.0	40.7	44.3	44.0	42.5		41.7	14
15	43.5	43.0	41.0	43.0	40.7	41.5	43.0	42.0	43.0	43.5	40.3	42.5	43.0	42.5		41.8	15
16	45.0	42.5	42.0	42.0	41.5	42.5	44.5	42.5	44.0	43.0	40.7	42.5	42.5	42.5		42.0	16
17	45.3	43.5	44.0	44.0	42.5	44.0	47.0	43.5	44.5	43.5	43.0	43.0	43.0	43.0		43.3	17
18	46.0	44.5	43.5	44.7	44.5	44.5	48.0	44.0	44.7	44.3	44.0	43.5	44.0	44.0		44.1	18
19	48.0	45.5	43.0	44.5	44.7	44.3	50.5	44.5	46.5	44.5	45.0	44.0	44.3	44.3		44.6	19
20	52.0	45.7	45.3	45.5	45.0	45.5	50.5	45.3	46.0	45.3	45.0	44.2	45.0	44.5		45.1	20
21	50.5	46.0	48.0	45.5	45.3	46.0	39.7	46.0	46.7	45.7	45.7	44.7	45.7	44.6		45.5	21
22	48.0	45.0	44.5	46.3	44.5	46.5	49.0	46.0	46.5	45.7	46.0	45.5	45.5	45.3		45.2	22
23	46.0	48.0	47.0	46.0	45.0	45.5	50.5	44.0	44.5	45.7	45.8	46.0	46.0	45.5		45.6	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)

APRIL, 1939

.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	421	420	425	414	399	431	445	450	453	456	466	433	450	449	448	451	Midnight
1	419	420	431	414	380	433	447	449	436	460	439	444	447	452	456	455	1
2	438	422	431	420	408	[illegible]	450	451	446	454	440	460	456	455	456	452	2
3	435	424	464	420	415	438	453	454	447	465	453	453	457	455	457	453	3
4	431	449	452	424	418	441	454	458	455	463	462	446	454	454	453	456	4
5	432	442	441	430	420	443	454	458	457	468	452	449	459	454	454	460	5
6	427	433	440	430	421	445	456	459	454	468	452	450	458	458	454	460	6
7	423	436	437	429	418	447	456	463	464	470	457	450	459	460	459	458	7
8	427	431	431	433	428	446	450	462	465	473	456	449	464	471	461	460	8
9	432	445	431	437	445	450	445	469	468	460	456	464	467	482	461	465	9
10	436	450	444	447	456	450	452	481	465	473	463	464	467	492	461	470	10
11	438	462	456	454	461	463	470	492	473	483	474	463	474	494	460	471	11
Noon	440	464	449	449	464	478	480	501	465	489	482	462	471	498	465	487	Noon
13	427	464	428	447	463	478	482	506	481	473	475	461	476	485	467	500	13
14	417	454	427	437	454	472	470	490	472	467	456	455	463	469	457	485	14
15	404	433	425	429	436	460	456	472	455	463	436	438	446	454	451	469	15
16	397	417	419	427	431	448	453	467	457	456	458	431	446	456	449	460	16
17	398	415	407	427	432	442	446	461	452	421	443	433	442	452	450	460	17
18	404	417	410	438	416	445	458	460	452	420	433	439	446	452	451	460	18
19	405	417	416	431	437	445	457	455	459	426	426	443	449	449	445	460	19
20	405	413	407	431	428	444	448	454	458	446	437	444	446	447	447	460	20
21	413	415	410	436	428	442	443	453	453	433	433	448	449	452	447	460	21
22	413	442	408	437	431	444	447	451	449	433	465	448	449	451	447	460	22
23	417	423	419	424	428	443	446	431	475	443	440	449	449	445	451	461	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	461	346	384	374	402	392	402	374	362	380	407	417	425	423		419	Midnight
1	463	373	385	404	404	410	400	383	330	377	408	427	422	420		42[illegible]	1
2	478	364	395	400	402	414	407	384	265	392	412	433	419	420		42[illegible]	2
3	471	365	412	410	410	425	420	387	309	403	414	437	433	422		429	3
4	476	365	422	418	410	422	418	402	277	393	415	433	427	428		429	4
5	483	366	421	410	417	426	423	403	292	389	419	428	426	427		43[illegible]	5
6	528	372	423	417	415	417	434	406	290	392	420	424	427	428		43[illegible]	6
7	508	378	416	428	427	436	450	412	315	399	423	430	432	435		430	7
8	412	398	419	432	423	427	462	417	352	407	430	435	433	443		436	8
9	398	398	426	434	425	435	457	413	362	423	433	430	442	450		440	9
10	391	406	436	436	414	440	450	415	361	432	437	422	450	458		444	10
11	415	425	462	440	401	433	380	423	360	434	440	420	454	466		448	11
Noon	373	400	450	433	416	432	387	423	339	430	441	425	473	468		448	Noon
13	353	418	454	420	413	427	384	415	344	422	433	425	443	463		444	15
14	371	421	446	407	407	423	348	412	324	413	420	421	420	453		434	14
15	333	404	447	394	400	417	345	403	306	404	417	415	415	443		422	15
16	300	384	427	388	388	416	302	402	310	400	415	406	408	434		414	16
17	310	367	410	393	383	410	314	405	334	395	410	412	407	430		412	17
18	270	365	367	399	385	393	327	408	352	398	410	409	415	428		410	18
19	245	380	347	387	387	383	303	407	367	407	415	403	418	417		409	19
20	248	386	334	392	393	363	313	418	365	406	416	412	420	420		410	20
21	236	358	334	401	384	368	337	415	386	403	410	411	420	415		410	21
22	323	390	369	393	387	382	336	502	357	407	410	411	417	408		419	22
23	358	370	361	395	390	377	380	473	387	409	414	412	418	419		421	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)

APRIL, 1939

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	844	846	844	844	848	844	843	841	845	842	841	847	843	843	842	841	Midnight
1	847	846	842	844	854	843	842	841	845	842	845	845	843	842	842	840	1
2	846	845	842	843	847	841	841	839	843	842	844	843	843	841	843	841	2
3	844	845	840	843	846	841	840	839	842	842	843	843	843	841	843	841	3
4	846	841	840	843	845	841	839	838	840	841	841	844	842	842	843	842	4
5	845	844	843	842	845	841	840	838	839	839	843	843	842	842	843	842	5
6	846	844	844	843	846	842	840	838	840	838	842	843	842	841	843	842	6
7	847	846	847	847	847	843	842	839	841	840	843	842	846	841	842	843	7
8	850	850	850	848	848	848	848	845	847	847	846	847	847	846	848	847	8
9	845	848	849	846	844	849	848	846	849	845	845	849	842	852	850	857	9
10	841	844	839	844	835	843	833	843	841	839	843	847	832	851	845	841	10
11	835	837	824	838	828	834	819	837	823	830	833	837	824	848	834	832	11
Noon	828	828	816	835	828	825	812	827	811	837	825	827	825	834	822	821	Noon
13	825	823	815	836	830	826	809	824	809	821	830	826	825	830	820	817	13
14	828	822	821	840	830	830	812	820	813	830	831	823	830	830	823	820	14
15	835	831	826	841	834	833	817	822	825	834	835	826	833	831	823	823	15
16	840	837	834	843	836	837	824	828	832	835	838	830	837	836	826	826	16
17	843	842	840	845	839	840	830	835	837	838	839	838	842	839	830	831	17
18	845	844	843	844	841	842	834	837	837	845	841	841	842	841	834	837	18
19	849	843	844	843	842	842	835	837	838	843	842	841	843	840	837	837	19
20	847	844	846	844	843	842	836	839	839	844	844	842	843	841	838	839	20
21	852	847	847	844	844	842	839	841	841	845	845	843	843	842	840	839	21
22	847	843	846	843	845	843	840	843	843	846	842	843	843	842	841	839	22
23	852	843	844	844	845	843	841	845	840	847	844	843	843	841	841	838	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	838	866	860	860	856	857	856	858	858	865	857	853	853	851		850	Midnight
1	837	854	857	862	853	853	854	862	867	864	857	853	853	851		849	1
2	836	866	854	852	853	853	853	861	883	863	857	851	853	851		849	2
3	836	864	857	851	853	852	851	859	873	858	857	850	851	850		848	3
4	836	862	852	851	853	850	851	856	875	859	856	853	853	851		847	4
5	836	863	853	853	852	851	847	857	873	860	855	853	853	851		848	5
6	835	863	853	849	853	851	850	857	867	860	855	853	853	851		847	6
7	835	864	852	847	851	851	850	857	869	857	854	851	854	852		848	7
8	851	86[illegible]	854	848	855	857	853	858	869	858	858	857	856	854		852	8
9	859	87[illegible]	850	853	857	858	852	859	869	860	863	863	861	854		853	9
10	863	865	843	856	854	855	848	857	869	858	864	864	858	849		849	10
11	852	854	834	851	847	846	851	847	864	849	849	859	846	840		840	11
Noon	845	845	828	842	842	835	845	837	852	841	838	851	833	830		832	Noon
13	853	841	832	839	834	831	848	838	847	841	834	848	834	827		830	13
14	850	837	832	838	835	832	854	839	850	844	835	848	834	828		832	14
15	845	836	836	837	833	833	856	841	852	842	839	846	834	829		834	15
16	860	840	840	839	837	835	863	843	860	843	845	847	846	833		839	16
17	857	849	846	846	853	841	867	846	859	849	851	850	847	839		843	17
18	864	853	853	849	851	846	867	847	862	852	852	851	849	845		846	18
19	865	858	857	851	854	850	875	849	865	852	853	853	849	847		848	19
20	887	856	865	856	855	855	875	851	863	855	854	853	851	849		850	20
21	885	863	870	857	858	859	870	854	863	857	854	853	852	849		841	21
22	867	858	859	858	858	863	869	853	865	857	854	854	852	851		850	22
23	863	864	863	856	858	854	875	841	865	857	853	855	853	849		850	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, 1939.

Month and day 1939	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		
APR.	mbs.	°C	°C	°C	%	mbs.	o	m.p.s		°C	°C	°C	°C	°C	°C	°C	mms.	mins	hrs.	%
1	966.7	24.9	3.0	20.2	75	23.7	70	5.4	7	21.2	22.4	25.4	21.7	26.2	20.8	5.4	14.7	70	9.6	81
2	966.2	24.5	3.7	18.6	69	21.4	90	5.4	7	20.8	22.2	23.3	22.1	25.8	19.2	6.6	2.1	25	6.0	50
3	965.7	24.5	2.7	20.4	78	24.0	90	5.8	8	21.3	22.3	24.5	22.8	25.9	20.4	5.5	2.3	20	6.6	56
4	965.5	25.9	3.8	20.1	70	23.5	90	3.6	8	22.3	24.4	26.9	23.3	28.3	21.8	6.5	8.9	80	8.8	75
5	968.1	26.0	2.4	22.5	81	27.3	70	2.2	8	22.3	23.5	23.7	22.1	27.6	21.6	6.0	28.9	95	4.9	42
6	968.6	24.9	2.5	21.0	79	24.9	70	4.9	9	21.8	23.3	25.3	21.4	26.4	21.0	5.4	3.9	25	10.0	85
7	967.4	24.4	2.9	19.8	76	23.1	90	5.4	4	20.5	22.3	23.8	20.8	25.9	20.3	5.6	2.5	20	9.3	79
8	965.4	24.7	3.2	19.9	75	23.2	70	2.7	5	20.4	22.3	25.5	22.3	26.9	20.2	6.7	0.7	10	9.7	83
9	965.1	23.1	0.6	22.2	95	26.8	70	5.8	10	22.1	22.1	23.3	23.1	25.6	21.8	3.8	34.8	185	2.2	19
10	966.6	25.5	2.6	21.7	79	26.0	70	5.4	4	22.4	24.0	26.3	22.3	27.6	21.8	5.8	0.0	0	10.6	91
11	967.7	24.1	2.2	19.7	77	23.0	90	4.9	4	20.5	23.0	24.3	20.8	26.1	19.9	6.2	0.1	0	10.8	92
12	967.7	24.1	2.8	19.7	77	23.0	90	4.9	4	20.5	23.0	24.3	20.8	26.1	19.9	6.2	0.1	0	10.8	92
13	966.1	23.8	2.0	20.7	83	24.4	90	2.7	10	20.3	23.6	25.4	22.1	26.9	20.0	6.9	0.1	0	5.6	48
14	964.7	25.9	4.0	19.9	70	23.2	CALM		3	21.3	23.5	25.3	21.4	27.6	20.3	7.3	0.0	0	6.0	52
15	966.4	21.9	0.8	20.8	93	24.6	110	10.7	10	20.3	21.4	20.8	19.5	24.6	19.5	5.1	24.3	540	2.1	18
16	967.6	21.1	0.6	20.2	95	23.7	105	9.4	9	19.2	20.3	22.2	21.0	23.4	19.2	4.2	4.2	110	9.0	78
17	968.1	23.3	3.0	18.6	75	21.4	90	4.9	7	19.3	21.4	23.6	20.4	24.7	18.8	5.9	1.6	25	8.9	77
18	967.1	23.2	2.7	18.9	77	21.8	90	5.4	6	19.8	20.8	23.5	20.7	24.8	18.8	6.0	3.2	20	9.1	78
19	966.9	23.5	2.7	19.2	77	22.2	90	8.1	2	20.1	22.0	24.2	21.3	25.1	19.7	5.4	0.3	5	10.7	93
20	967.4	23.4	3.2	18.3	73	21.0	90	6.7	2	20.4	22.3	24.3	21.3	25.4	20.1	5.3	0.0	0	10.7	93
21	969.3	23.5	4.5	16.2	64	18.4	65	6.7	7	20.1	22.4	23.8	20.7	25.0	19.4	5.6	0.0	0	10.8	94
22	970.3	23.0	3.1	18.1	74	20.8	90	6.3	7	19.1	22.3	22.8	20.3	24.6	19.1	5.5	4.3	45	10.5	91
23	970.2	20.9	1.4	18.7	87	21.6	90	4.9	10	18.9	20.3	23.6	20.3	24.6	18.4	6.2	4.7	40	7.3	64
24	968.9	23.9	3.8	17.8	69	20.4	90	5.4	9	19.1	21.8	22.2	20.3	24.2	18.6	5.6	7.3	75	4.5	39
25	967.0	22.0	1.6	19.5	87	22.7	70	4.9	9	20.3	21.2	23.3	20.4	24.6	19.4	5.2	1.0	10	8.9	78
26	969.1	23.9	3.4	18.7	73	21.6	90	4.5	4	20.8	21.8	24.4	20.8	26.0	19.4	6.6	0.5	10	10.2	90
27	968.7	23.5	2.3	19.9	80	23.2	70	5.4	7	20.5	21.3	23.1	21.3	25.6	20.5	5.1	2.3	25	9.4	82
28	967.6	24.2	2.2	20.8	82	24.6	70	3.1	9	20.3	20.8	23.6	21.5	25.3	19.9	5.4	13.0	110	7.3	64
29	967.7	23.9	2.0	20.8	83	24.6	70	4.5	7	20.3	21.8	24.3	21.2	25.8	20.3	5.5	5.6	45	0.8	86
30	967.8	24.3	3.8	18.3	69	21.0	70	5.4	5	20.3	21.3	24.3	19.7	25.6	19.6	6.0	0.0	0	10.9	96
Mean	967.4	23.8	2.6	19.8	785	23.1	...	5.1	6.8	20.6	22.1	24.0	21.3	25.7	20.0	5.7	176.6	1640	8.20	70.7
Average	966.5	23.3	2.0	20.0	817	23.3	...	4.2	6.4	...	...	...	...	25.3	19.3	6.0	287.1	...	6.50	56.4
Column	1	2	3	4	5	6	7m	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	+ 42.2 mbs	Amount of Rain	- 66.8 mms.
Temperature of the Air	+ 2.6°C	Duration of Bright Sunshine	+ 10.4 hrs.
Vapour Pressure	+ 2.2 mbs.	Mean of Maximum Temperatures	+ 2.3°C
Relative Humidity	- 5.0%	Mean of Minimum Temperatures	+ 2.0°C
Velocity of Wind	0.0 m.p.s.	Absolute Maximum Temperature	+ 1.4°C
Amount of Cloud	- 0.3	Absolute Minimum Temperature	+ 1.0°C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF APRIL, 1939

Month and Day 1939	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		
APRIL	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	min	mms	
1	1007.4	+ 0.9	28.2	22.6	5.6	25.2	+ 0.4	2.4	21.6	+ 0.2	80	- 2	25.8	21.5	10.0	100	8.2	4.5
2	1006.6	+ 0.1	28.1	21.9	6.2	24.5	- 0.3	2.3	21.0	- 0.4	81	- 1	24.9	19.7	2.3	35	6.6	6.1
3	1005.9	- 0.7	28.9	22.9	6.0	25.3	+ 0.6	2.1	22.2	+ 0.9	83	+ 1	26.8	21.7	1.4	55	4.9	7.1
4	1005.7	- 1.0	29.7	22.5	7.2	25.6	+ 1.1	1.8	23.2	+ 1.9	86	+ 4	28.4	19.8	0.9	65	4.6	6.9
5	1008.3	+ 1.5	29.0	23.0	6.0	25.4	+ 0.7	1.4	23.4	+ 2.1	89	+ 7	28.8	21.5	14.8	115	4.5	7.2
6	1008.9	+ 2.0	28.2	23.1	5.1	25.4	+ 0.8	2.5	21.6	+ 0.4	79	- 3	25.8	22.0	0.4	5	4.3	6.1
7	1007.3	+ 0.3	28.2	22.5	5.7	25.0	+ 0.4	2.6	21.1	- 0.1	79	- 2	25.0	21.2	0.9	5	5.7	4.6
8	1005.3	- 1.7	28.6	22.3	6.3	25.3	+ 0.8	2.8	21.1	0.8	77	- 4	25.0	20.0	0.3	10	6.0	4.6
9	1005.0	- 2.1	27.3	23.1	4.2	24.7	+ 0.2	1.0	23.2	+ 2.1	91	+10	28.4	21.4	42.0	605	4.4	8.1
10	1006.7	- 0.5	28.9	23.8	5.1	25.7	+ 1.3	2.1	22.6	+ 1.6	83	+ 2	27.4	22.6	0.2	5	6.5	6.8
11	1007.8	+ 0.6	28.5	23.3	5.2	25.4	+ 1.0	2.4	21.8	+ 0.8	80	- 1	26.1	21.5	0.7	5	5.4	4.3
12	1007.6	+ 0.3	28.1	21.1	7.0	24.5	+ 0.2	2.5	20.6	- 0.3	79	- 2	24.2	19.0	0.1	5	5.0	4.0
13	1005.8	- 1.5	28.7	21.8	6.9	24.9	+ 0.6	2.0	21.9	+ 1.0	84	+ 3	26.3	19.0	0.0	...	5.0	3.7
14	1004.9	- 2.5	28.7	21.9	6.8	24.6	+ 0.4	1.8	21.9	+ 1.1	79	- 3	26.3	19.9	11.8	120	4.8	4.8
15	1006.6	- 0.9	26.5	22.0	4.5	23.8	- 0.4	1.8	21.1	+ 0.3	85	+ 3	25.0	19.6	2.8	110	3.3	6.9
16	1008.4	+ 0.9	27.9	23.1	4.8	24.8	+ 0.7	3.2	19.8	- 0.8	74	- 7	23.2	22.4	0.0	...	4.2	3.5
17	1008.3	+ 0.7	27.6	20.9	6.7	24.1	+ 0.1	3.3	18.9	- 1.7	73	- 8	21.8	18.8	0.0	...	6.4	5.3
18	1007.2	- 0.5	27.7	22.3	5.4	24.2	+ 0.2	2.9	19.6	- 1.0	76	- 5	22.8	20.5	0.1	5	5.4	6.0
19	1007.4	- 0.4	27.8	22.4	5.4	24.9	+ 1.0	3.4	19.7	- 0.8	73	- 8	23.0	20.5	0.0	...	5.6	2.9
20	1008.4	+ 0.5	28.0	22.7	5.3	24.9	+ 1.0	3.6	19.4	- 1.1	71	-10	22.5	21.1	0.0	...	6.9	3.6
21	1010.2	+ 2.3	27.7	21.6	6.1	24.3	+ 0.5	3.3	19.2	- 1.2	73	- 8	22.2	19.0	0.2	15	6.2	4.3
22	1011.3	+ 3.3	27.2	21.0	6.2	23.6	- 0.2	3.2	18.6	- 1.8	74	- 7	21.4	19.0	3.3	65	5.1	6.4
23	1010.7	+ 2.6	27.0	20.0	7.0	23.4	- 0.3	2.9	18.7	- 1.6	75	- 6	21.6	17.4	0.7	35	4.0	7.3
24	1009.6	+ 1.4	27.2	21.3	5.9	23.8	+ 0.1	2.6	19.7	- 0.6	78	- 3	23.0	19.3	1.2	40	5.1	7.5
25	1008.4	+ 0.2	27.1	21.3	5.8	23.5	- 0.1	2.1	20.3	+ 0.1	82	+ 1	23.8	19.4	2.0	60	3.5	5.8
26	1009.1	+ 0.8	28.3	20.4	7.9	24.0	+ 0.5	2.6	19.9	- 0.2	78	- 3	23.2	16.5	0.0	...	5.0	2.7
27	1008.6	+ 0.2	27.7	22.3	5.4	24.0	+ 0.5	1.6	21.7	+ 1.6	87	+ 6	26.0	20.3	4.0	75	4.4	6.1
28	1007.8	- 0.7	27.7	21.9	5.8	24.4	+ 1.0	1.7	21.9	+ 1.9	86	+ 5	26.3	19.9	4.6	150	4.3	4.7
29	1008.5	- 0.1	27.5	22.3	5.2	24.4	+ 0.1	1.9	21.5	+ 1.5	84	+ 3	25.6	20.8	5.0	140	4.8	5.5
30	1008.2	- 0.5	27.3	19.4	7.9	23.6	+ 0.3	2.4	19.9	0.0	80	- 1	23.2	17.4	0.0	...	4.1	3.3
Mean	1007.7	+ 0.2	28.0	22.0	6.0	24.6	+ 0.5	2.4	20.9	+ 0.2	80.0	- 1.3	24.8	20.1	109.8	1825	5.1	5.4
Average	1007.5	...	27.6	21.1	6.5	24.1	...	2.2	20.7	...	81.3	...	24.4	20.4	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, 1939

No cyclonic activity was observed during the month. The first half was on the whole comparatively quiet, with high temperature and the occurrence of occasional showers of short duration : the 9th was the most important rainday of the month, precipitation was due to a distant depression accompanied by thunderstorm. From the 15th onwards an important reinforcement of the trade wind current took place : but it was only from the 20th that the high pressure wave reached Mauritius and the incursion of cooler air was noted. This caused a drop in humidity, notwithstanding some light precipitation brought along by the trades. Towards the end of the month high temperature and humidity with comparatively calm weather again prevailed.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF APRIL, 1939

Month and Day 1939	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 Feet	WEATHER (0h 3h 6h 9h 12h 15h 18h 21h 24h)
APR.	hrs.	%	m.p.s.	m.p.s.	°C	°C	°C	°C	
1	10.2	86	3.5	+ 0.3	25.7	27.3	28.2	28.5	bcqo bc b bc b
2	7.0	59	3.6	+ 0.4	25.7	27.3	28.2	28.5	o bcro c oro c bc
3	5.2	44	3.8	+ 0.6	25.7	27.3	28.1	28.2	c cro o bc b
4	7.4	63	2.7	- 0.5	25.8	27.3	28.1	28.2	b bc cro c cro
5	8.3	70	2.6	- 0.6	25.9	27.3	28.1	28.2	bcro b bc cro orr oro
6	10.6	90	3.9	+ 0.7	25.9	27.3	28.1	28.4	o c bc bcdo bc
7	10.8	92	3.9	+ 0.7	25.9	27.3	28.1	28.3	bc bcro bc b
8	10.1	86	3.2	- 0.1	25.8	27.3	28.1	28.3	b bcro bc b bc
9	2.2	19	3.1	- 0.2	25.8	27.2	28.0	28.2	oro orr o bcl b
10	10.5	90	3.2	- 0.1	25.8	27.3	27.9	27.9	o bc c bc b bro
11	8.7	74	3.0	- 0.3	25.9	27.3	27.9	28.1	b bc bcro bc b
12	10.5	90	2.6	- 0.7	25.9	27.3	27.9	28.1	bro b bc c bc b
13	8.7	75	2.0	- 1.3	25.9	27.3	27.9	27.9	b bc b
14	6.2	53	1.7	- 1.6	25.9	27.3	27.9	28.1	b bc cro bcro bc
15	5.9	51	5.3	+ 2.0	25.9	27.2	27.9	27.8	o c bcro oqroro cqroro bq
16	9.7	84	6.5	+ 3.2	26.0	27.3	27.6	27.7	b bc b
17	8.7	75	3.7	+ 0.4	25.9	27.3	27.7	27.5	b bc c bc b
18	8.2	71	4.5	+ 1.2	25.9	27.2	27.6	27.4	bc cqo bcqo bcqoro bc
19	10.6	92	5.4	+ 2.1	25.8	27.3	27.5	27.2	bc b bc b
20	10.5	91	5.2	+ 1.9	25.9	27.1	27.5	27.1	b bc b
21	10.2	89	4.2	+ 0.9	25.9	27.2	27.4	27.1	bc bcro bc b
22	7.5	65	4.3	+ 1.0	25.8	27.3	27.3	27.0	cro bc cqdo cq bc bcro
23	6.8	59	3.4	+ 0.1	25.6	27.1	27.2	26.6	o cro cqo oqoro bc b
24	5.0	43	4.3	+ 1.0	25.7	27.1	27.1	26.3	bro bc cro c cro
25	7.8	68	2.9	- 0.4	25.6	27.1	27.0	26.3	oro bc bcro bc b
26	10.4	91	3.0	- 0.3	25.9	27.1	26.9	26.4	b bc b
27	8.2	72	3.3	- 0.0	25.9	27.0	26.8	26.6	bcro bc bcro b
28	10.3	90	2.8	- 0.5	25.7	27.0	26.8	26.6	b bc bcro bc cro
29	9.3	82	3.0	- 0.3	25.9	27.1	26.8	26.6	o c c bc b
30	10.8	95	2.7	- 0.6	25.9	27.0	26.8	26.4	b bc
Mean	8.54	73.6	3.58	+03.0	25.85	27.22	27.61	27.53	
Average	7.55	55.0	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, 1939

Element	Highest	hrs.	Date	Lowest	Date
Atmospheric Pressure	1012.3mbs	at 09.00 & 10.00 hrs	on 22nd	1003.4mbs	at 15.00 hrs on14th
Temperature of the air ...	29.7°C	at 14.40 hrs	on 4th	19.4°C	at 23.30 hrs on30th
Daily Range of Temperature of the Air	7.9°C		on 26th & 30th	4.2°C	on 9th
Temperature of the Dew Point ...	24.6°C	at 13.00 hrs	on 9th	16.7°C	at 04.00 hrs on23rd
Minimum on Grass				17.4°C	on 23rd &30th
Relative Humidity	97.8%	at 13.00 hrs	on 9th	58.5%	at 13.00 hrs on 9th
Vapour Pressure	31.0mbs	at 13.00 hrs	on 9th	19.0mbs	at 04.00 hrs on23rd
Evaporation in 24 hrs ...	8.2mms		on 1st	3.3mms	on15th
Wind Velocity	8.9mps	at 14.00 hrs	on 16th	0.6mps	at 20.00 & 23.00 hrs on30th
Rainfall in 24 hrs	42.1mms ending 13.00 hrs		on 9th		
Duration of Sunshine ...	10.8hrs		on 7 & 30th	2.2hrs	on 9th

Mean Day Temperature of Air 26.05°C Mean Night Temperature of Air 23.12°C

Average 22.39°C

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
...	4	18	8	...	10	8	1	3	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).

APRIL, 1939

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	081	079	069	061	073	093	091	068	051	068	078	092	076	057	058	085	Midnight
1	075	073	062	053	072	088	084	063	048	059	073	090	070	052	057	080	1
2	069	069	058	050	071	087	080	058	043	058	070	082	068	048	054	078	2
3	062	065	054	048	070	083	073	053	040	058	067	080	062	042	053	072	3
4	060	061	050	046	070	081	070	051	038	055	066	078	060	042	052	070	4
5	065	062	052	049	071	082	071	053	039	058	067	079	060	042	052	068	5
6	069	067	057	052	074	083	072	054	042	062	067	081	068	047	058	071	6
7	077	070	062	058	081	089	078	058	048	067	070	082	072	052	062	081	7
8	079	079	068	062	087	095	082	061	053	072	077	085	072	057	067	087	8
9	081	082	070	063	097	101	085	063	053	075	082	089	070	058	071	096	9
10	082	080	071	061	099	102	085	063	057	078	084	085	070	058	078	096	10
11	080	072	067	059	093	100	080	060	058	077	082	078	060	052	072	092	11
Noon	077	066	058	057	087	097	072	057	052	070	080	071	054	042	067	087	Noon
13	067	057	052	053	080	087	063	050	046	062	072	069	044	038	058	080	13
14	063	052	050	048	077	081	058	042	040	060	070	060	042	036	058	075	14
15	060	049	047	043	072	078	053	039	037	058	069	060	040	034	057	071	15
16	061	048	046	047	078	079	057	040	039	057	069	062	041	038	058	072	16
17	066	052	047	051	081	080	058	041	042	058	071	065	044	041	061	078	17
18	071	058	050	053	082	082	062	046	049	060	078	066	050	047	065	082	18
19	078	063	058	058	086	087	068	048	053	069	085	070	052	051	075	088	19
20	081	070	063	063	088	092	078	052	062	075	091	078	059	055	080	097	20
21	086	075	069	072	097	098	079	057	068	080	098	081	060	061	086	101	21
22	089	074	070	077	098	098	080	055	070	082	098	080	060	060	087	102	22
23	086	072	066	074	093	095	074	055	069	081	098	079	058	058	086	101	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	100	077	072	086	100	117	118	110	093	092	093	090	089	090		083	Midnight
1	092	070	070	082	095	115	113	107	090	080	093	084	082	089		079	1
2	086	069	069	080	090	110	110	104	087	088	090	080	080	084		076	2
3	084	067	067	072	089	109	105	102	083	083	087	077	078	080		072	3
4	084	066	063	069	088	110	102	092	080	086	087	072	078	079		070	4
5	084	064	060	071	087	110	101	094	080	088	086	071	077	080		071	5
6	086	069	061	079	094	112	107	097	082	090	086	075	080	084		074	6
7	092	075	070	080	102	118	108	102	086	093	090	081	085	088		079	7
8	096	080	076	089	108	119	112	104	090	100	096	086	090	092		084	8
9	101	084	080	093	112	123	114	110	100	102	101	088	092	096		088	9
10	092	083	083	088	115	123	116	110	102	103	100	089	093	092		088	10
11	088	080	077	085	110	117	112	107	092	100	090	082	090	085		083	11
Noon	082	074	074	082	103	110	108	102	082	096	082	072	080	078		077	Noon
13	076	068	068	078	100	103	100	091	078	084	075	066	075	069		070	13
14	072	066	067	074	091	102	095	082	073	080	070	062	072	067		066	14
15	068	062	065	073	091	102	093	079	070	078	070	060	070	064		067	15
16	068	062	065	076	094	101	094	080	070	079	070	061	072	067		065	16
17	070	063	068	078	100	107	099	084	073	081	075	065	079	070		068	17
18	075	066	073	083	102	108	104	088	077	085	079	070	084	073		072	18
19	080	071	080	087	108	111	108	090	078	088	083	077	090	082		077	19
20	083	077	088	095	111	119	110	093	085	095	088	086	100	088		083	20
21	086	078	092	101	116	119	113	097	090	098	092	091	102	089		088	21
22	087	078	092	101	118	119	114	097	091	098	092	090	103	088		088	22
23	082	074	089	102	118	118	112	096	092	098	091	090	102	087		087	23

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

Hour \ Day	APRIL, 1939																													
	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	7	1	9	3	7	10	6	3	10	10	2	1	3	1	9	2	1	3	4	1	5	5	10	5	10	1	5	1	10	1	4.9
1	8	1	9	3	5	10	6	3	10	10	3	1	3	1	9	2	2	3	4	1	4	6	10	5	10	1	5	1	10	1	4.9
2	9	1	9	3	4	9	8	3	10	10	3	1	3	1	10	2	2	5	4	1	4	9	9	7	10	1	5	1	10	1	5.2
3	5	1	9	5	4	9	8	1	10	10	4	1	4	1	10	2	3	5	4	1	6	8	9	8	10	1	7	1	9	1	5.2
4	6	1	9	5	4	8	5	1	10	10	4	6	2	3	7	3	3	7	3	1	6	8	9	3	8	1	7	1	9	1	5.0
5	6	1	9	5	3	8	4	8	10	10	4	4	2	1	7	2	3	8	4	2	7	3	9	1	6	1	7	1	9	1	4.9
6	6	1	9	5	3	8	4	3	10	9	3	1	2	1	8	3	3	9	4	3	5	3	9	4	5	1	5	1	9	1	4.6
7	8	3	9	7	5	8	6	5	10	8	3	3	3	2	8	4	4	9	3	3	8	4	9	5	7	2	8	3	8	2	5.4
8	6	6	10	8	7	7	5	5	10	7	4	4	4	4	7	5	7	8	2	4	9	7	8	6	7	3	7	5	7	3	5.9
9	6	8	10	9	3	3	6	6	10	5	5	5	6	6	7	6	8	8	2	3	5	2	8	4	9	3	8	6	6	5	5.5
10	5	9	9	8	7	6	4	4	10	6	5	6	6	8	10	4	7	7	4	3	5	6	10	8	9	4	6	6	5	4	6.5
11	6	9	10	9	7	5	4	4	10	5	5	8	7	6	10	6	7	6	3	3	6	8	10	9	7	3	8	6	6	4	5.6
Noon	5	10	10	8	7	6	5	4	10	6	6	8	7	5	8	6	9	6	4	3	5	9	10	10	5	3	6	6	6	4	6.6
13	3	9	9	7	8	6	5	4	10	8	6	7	6	6	8	6	9	6	4	4	5	9	9	9	5	4	7	6	6	5	6.5
14	3	9	8	8	9	5	5	4	9	8	7	6	6	7	10	5	8	7	3	4	5	8	8	9	5	4	8	6	6	5	6.5
15	2	9	7	8	8	5	6	4	8	9	7	6	6	8	10	8	8	8	4	5	6	8	4	9	5	4	8	6	6	6	6.5
16	4	9	7	8	9	5	5	3	7	6	6	6	5	8	9	4	8	6	5	6	6	6	6	9	5	4	6	6	4	6	6.1
17	4	10	5	9	9	4	5	3	6	6	5	5	5	9	8	3	8	5	4	6	5	6	6	9	5	3	4	5	3	5	5.7
18	6	8	5	9	9	4	3	2	5	6	8	3	3	9	3	3	9	5	1	8	3	5	7	9	3	3	10	5	1	4	5.3
19	3	8	1	8	10	4	5	5	7	5	5	3	3	7	2	3	9	5	3	3	1	5	10	9	3	3	8	5	1	3	5.0
20	2	8	2	9	10	3	2	6	3	4	2	2	2	5	2	3	3	5	1	4	1	4	3	9	3	3	8	6	1	3	4.0
21	1	7	3	8	10	3	2	7	3	3	2	2	2	4	2	3	2	4	1	5	1	3	3	9	2	2	2	6	1	3	3.5
22	1	7	3	8	10	4	2	9	3	3	2	2	1	3	2	2	2	5	1	3	3	3	1	9	2	3	2	8	1	5	3.6
23	1	7	3	8	10	4	2	9	3	2	2	3	1	6	2	1	2	4	1	3	1	6	1	9	2	4	2	9	1	5	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	APRIL, 1939																														
	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	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	0	2	2	0	25	24	27	0	0	15	33	30	41	0	12	2	11	0	10	16	12	8	5	4	0	18	6	18	5	23	5.9
8	53	22	36	45	56	54	60	37	0	60	60	60	60	57	36	40	54	2	60	60	58	57	18	41	22	60	36	60	37	60	22.7
9	56	60	47	60	40	60	60	60	0	60	60	60	60	60	33	34	57	60	60	60	60	54	46	38	42	60	47	60	60	60	26.2
10	60	60	43	42	60	54	60	60	0	60	42	60	60	60	29	60	37	58	60	60	60	6	26	54	9	60	48	60	60	60	24.5
11	60	53	45	35	48	60	60	60	0	60	60	60	60	60	10	60	23	58	60	60	60	23	9	37	22	60	60	60	60	60	24.0
Noon	60	36	38	58	60	60	54	60	6	60	60	60	45	60	38	60	52	47	60	60	60	52	10	14	56	60	60	60	60	60	25.4
13	60	47	46	18	60	60	60	60	0	60	60	60	60	49	60	60	60	60	60	60	60	47	60	28	60	60	58	60	60	60	26.9
14	60	55	46	53	52	60	60	60	22	60	56	60	55	10	32	60	60	45	60	60	60	29	60	28	60	60	58	34	46	60	25.4
15	60	60	6	60	35	60	60	60	7	60	22	60	44	0	43	60	60	37	60	60	60	55	60	17	60	60	35	60	56	60	23.9
16	60	15	3	57	38	52	60	60	46	60	31	60	39	17	40	60	60	51	60	60	60	60	60	39	60	60	40	60	49	60	24.6
17	60	12	0	8	22	55	60	60	37	60	39	51	0	0	16	60	48	58	60	60	56	57	55	0	55	43	42	60	43	60	20.6
18	20	0	0	10	0	34	28	32	12	13	0	8	0	0	2	25	2	15	22	16	8	0	0	0	25	20	3	25	22	23	6.2
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, AS DEDUCED FROM THE PHOTOGRAPHIC RECORDS

(To obtain temperatures on the Absolute Scale add 273)

APRIL, 1939

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	23.9	23.0	23.3	21.4	23.4	22.5	23.5	22.4	24.8	24.2	24.5	23.3	23.0	21.6	23.6	21.7	Midnight
1	23.7	22.8	22.9	21.3	23.3	22.3	23.0	22.1	24.5	23.9	24.7	23.4	23.0	21.8	23.4	21.5	1
2	23.2	22.8	22.4	20.7	23.7	22.4	23.0	22.0	23.3	23.1	24.6	22.5	23.3	21.9	23.2	21.4	2
3	23.6	22.6	22.3	20.7	23.8	22.7	23.6	22.8	23.7	23.2	24.7	22.3	23.1	22.0	23.2	21.4	3
4	23.3	22.2	22.1	20.5	23.0	22.2	23.3	22.8	23.3	23.0	23.7	21.8	22.9	21.8	23.3	21.4	4
5	23.3	22.5	22.4	20.5	23.1	22.2	23.7	22.8	23.5	22.8	23.6	22.0	22.7	21.4	22.8	21.2	5
6	23.0	22.1	22.0	20.4	23.3	22.4	23.9	22.8	23.3	22.5	23.7	22.2	22.7	21.4	22.3	21.2	6
7	23.0	22.2	22.3	21.1	23.7	22.7	24.3	23.2	24.2	23.5	24.7	22.8	23.3	22.2	23.0	21.7	7
8	25.7	24.2	23.5	22.2	25.2	23.4	26.5	24.7	26.3	25.1	26.3	23.6	25.3	23.0	24.6	22.9	8
9	26.5	23.4	26.3	22.6	26.8	24.0	27.7	25.0	27.0	25.1	27.0	24.0	26.0	23.3	26.5	23.0	9
10	27.5	23.4	27.0	22.5	27.1	23.8	28.0	24.8	27.7	25.2	27.1	24.1	27.0	23.6	27.5	23.2	10
11	27.6	22.8	27.2	22.9	27.7	24.2	28.3	25.1	27.8	25.3	27.3	23.9	27.7	23.7	27.8	22.6	11
Noon	28.0	23.0	27.4	23.2	28.0	24.0	29.0	25.0	28.3	25.7	27.8	24.0	27.8	23.1	28.0	22.9	Noon
13	28.1	23.1	27.5	23.6	27.8	24.0	28.2	24.5	28.7	25.4	27.7	23.8	28.2	23.7	28.0	22.2	13
14	28.0	22.5	27.8	23.6	28.6	24.5	28.4	25.0	25.9	24.2	28.2	24.0	27.8	23.2	28.2	23.5	14
15	27.7	22.9	27.5	23.4	27.6	24.0	28.5	25.0	27.2	25.2	27.8	23.2	27.6	22.8	27.7	23.3	15
16	27.6	23.0	26.4	23.2	27.3	23.9	28.3	24.9	27.2	24.9	27.1	23.0	27.2	22.6	27.6	23.3	16
17	26.8	23.5	25.5	23.2	26.8	23.6	26.8	24.7	25.6	24.6	26.3	22.8	26.1	22.6	26.7	23.3	17
18	25.3	23.3	23.8	22.9	25.6	23.3	25.7	24.7	25.3	24.1	25.2	22.4	25.1	22.4	25.6	23.2	18
19	24.4	22.9	23.6	22.4	25.0	22.9	25.3	24.4	24.3	23.6	24.3	22.4	24.4	22.2	25.0	22.9	19
20	24.3	22.6	23.6	22.4	25.0	23.0	25.2	24.6	24.3	23.7	24.0	22.3	23.9	22.1	24.7	22.7	20
21	23.8	22.5	23.5	22.4	24.6	22.9	24.9	24.2	24.0	23.3	23.9	22.3	24.4	21.0	24.5	23.3	21
22	23.7	22.1	23.5	22.4	24.2	22.7	25.0	24.3	23.9	23.0	23.4	22.1	23.6	21.5	24.3	23.2	22
23	23.2	21.7	23.9	22.6	23.6	22.4	24.8	24.2	24.4	23.4	23.1	21.9	23.6	21.9	24.4	23.2	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	24.7	23.6	24.0	22.9	23.7	22.8	23.1	22.1	22.2	21.0	23.7	22.7	22.6	21.4	23.8	21.1	Midnight
1	24.7	23.9	24.2	23.2	23.7	22.8	22.9	21.9	22.0	21.0	23.6	22.7	22.0	21.2	23.8	20.9	1
2	24.4	23.6	24.3	23.2	23.5	22.7	22.7	21.6	22.1	21.5	23.2	22.2	22.4	21.4	23.7	20.6	2
3	24.1	23.5	24.1	23.1	23.5	22.6	22.3	21.2	22.0	21.1	22.6	21.7	23.0	21.4	23.7	21.2	3
4	24.0	23.5	24.0	23.1	23.6	22.6	22.3	21.1	21.9	21.1	22.3	21.3	22.8	21.2	23.7	21.1	4
5	24.0	23.4	24.3	23.1	23.6	22.1	21.6	20.6	21.8	21.1	22.0	21.2	22.9	21.4	23.7	20.9	5
6	23.8	23.2	24.3	23.2	23.7	22.2	21.1	20.1	21.9	21.1	21.9	21.1	23.0	21.8	23.6	21.6	6
7	23.7	23.3	24.4	23.7	24.2	22.6	21.7	20.5	22.0	21.5	22.7	21.8	23.4	22.0	23.6	21.4	7
8	23.3	22.6	26.5	24.4	26.0	23.8	25.0	22.3	26.0	24.0	25.8	23.4	24.7	22.7	25.0	22.1	8
9	24.1	23.6	26.2	23.7	26.7	23.8	26.0	22.7	27.0	24.2	27.1	23.3	25.4	23.4	25.1	21.9	9
10	24.7	24.1	27.8	24.5	25.7	23.5	27.5	23.1	27.7	24.3	27.7	23.2	24.8	23.4	26.3	22.6	10
11	24.1	23.6	28.1	24.5	27.6	23.8	27.7	23.3	27.8	24.1	27.8	23.6	24.0	23.2	27.4	23.3	11
Noon	25.0	24.1	28.7	24.9	28.0	24.3	27.6	23.3	27.7	24.1	28.3	23.5	25.0	23.2	27.0	22.8	Noon
13	25.0	24.7	27.7	24.1	28.0	23.4	27.6	23.1	28.3	24.2	28.0	23.7	25.8	23.6	27.0	22.2	13
14	27.1	24.9	28.0	24.3	27.3	23.1	27.8	23.6	28.6	24.2	27.0	24.6	24.7	22.8	27.3	22.7	14
15	26.3	24.1	28.2	24.3	27.6	23.5	27.2	23.2	27.6	24.1	25.5	24.4	24.8	22.5	27.0	22.3	15
16	26.7	24.2	27.6	24.1	26.0	23.0	26.8	22.2	27.7	23.8	26.5	24.6	24.5	22.3	26.5	21.9	16
17	26.0	23.7	26.7	24.1	26.2	23.1	26.1	22.3	26.4	23.4	25.0	23.9	23.4	22.0	25.6	21.6	17
18	25.4	23.9	25.5	23.4	25.6	22.7	24.9	22.2	25.7	23.8	24.6	23.7	23.5	21.6	24.5	21.6	18
19	24.9	23.7	25.0	23.4	25.3	22.9	24.2	22.3	25.0	23.4	23.3	23.1	22.9	21.2	24.1	21.2	19
20	24.8	23.8	24.6	23.2	25.3	22.9	23.5	21.8	24.5	23.2	23.5	22.5	23.1	21.2	23.8	21.1	20
21	24.6	23.3	24.2	23.0	25.0	22.8	22.9	21.6	24.0	22.8	23.1	22.0	23.6	21.0	23.4	21.0	21
22	24.5	23.3	24.2	23.0	24.7	22.6	22.9	21.7	23.8	22.6	22.7	21.8	23.9	20.9	23.4	20.6	22
23	24.1	23.1	24.0	22.9	24.6	22.4	22.6	21.4	23.7	22.7	22.8	21.6	24.0	20.8	23.4	20.8	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)

APRIL, 1939

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	23.3	3.1	22.6	1.6	23.0	2.0	23.6	2.7	23.2	2.9	22.7	2.1	21.7	1.4	22.7	1.9	Mid-night
1	22.6	2.8	22.5	1.5	23.0	2.2	23.5	2.6	22.2	2.3	22.3	1.6	22.0	1.7	22.6	1.6	1
2	22.1	2.4	23.0	1.9	22.9	2.2	23.3	2.3	22.6	2.3	22.1	2.2	22.0	2.9	22.3	1.5	2
3	21.6	2.1	22.4	1.4	22.6	1.7	23.4	2.5	23.2	2.2	22.0	2.0	20.7	2.1	21.3	1.1	3
4	21.9	2.1	22.6	2.3	23.0	2.3	23.2	2.5	23.0	1.8	21.8	1.8	20.3	2.2	21.7	1.9	4
5	21.7	2.2	22.4	2.4	23.3	2.6	23.0	2.7	22.5	1.7	21.4	1.8	20.2	1.6	21.7	2.6	5
6	21.0	2.1	22.7	2.4	23.5	2.6	22.7	2.4	22.1	2.1	21.0	1.7	20.7	1.4	21.6	2.4	6
7	21.7	2.3	22.7	2.1	23.7	2.6	23.2	2.8	22.0	2.0	21.6	2.3	22.0	1.8	22.0	2.3	7
8	24.4	3.5	23.0	2.4	25.4	3.1	25.3	3.8	24.7	3.4	24.4	2.9	23.7	2.7	24.1	3.1	8
9	26.0	4.7	25.7	3.7	26.3	4.2	26.4	4.6	25.6	4.4	25.6	4.4	24.7	3.7	24.7	3.5	9
10	25.7	4.4	26.0	3.4	26.7	4.8	27.0	5.1	26.3	4.9	23.9	2.5	25.1	4.5	26.5	4.3	10
11	27.0	5.3	26.7	5.0	27.5	4.9	26.7	4.7	27.0	5.4	26.0	4.5	25.0	3.0	26.4	[illegible]	11
Noon	27.0	5.4	27.0	5.0	27.7	5.2	27.7	5.5	27.2	5.2	26.2	4.7	24.8	2.1	25.0	2.7	Noon
13	27.0	5.4	27.0	4.8	27.6	5.6	27.7	5.5	27.0	5.0	26.4	4.3	26.3	4.6	25.6	3.6	13
14	27.0	5.4	27.0	4.5	27.4	5.4	27.6	5.2	26.9	5.1	25.2	3.3	27.0	5.1	25.9	3.7	14
15	26.8	5.3	25.2	3.2	27.0	5.0	27.6	5.3	26.7	5.4	26.0	5.0	26.7	5.7	26.2	3.6	15
16	26.4	4.4	25.9	3.7	26.5	4.8	26.8	3.9	26.3	4.9	26.1	6.0	26.4	5.1	25.9	3.7	16
17	25.1	4.2	25.3	3.5	25.9	4.4	26.0	3.8	25.4	4.3	25.0	4.2	25.3	4.2	25.3	3.3	17
18	24.0	3.5	24.4	2.8	24.8	3.4	23.9	2.1	24.1	3.3	23.8	3.7	24.0	3.2	24.3	2.5	18
19	23.3	1.9	24.0	3.0	24.3	2.9	23.9	3.1	23.2	2.7	23.4	3.4	23.1	2.5	23.3	1.6	19
20	23.2	2.0	23.6	2.6	24.3	2.7	23.9	3.0	22.9	2.5	22.8	3.6	22.8	2.2	22.8	1.7	20
21	23.1	2.1	23.5	2.4	24.0	2.7	24.1	3.3	22.7	2.0	22.8	3.5	22.3	2.0	23.0	1.5	21
22	23.3	1.9	23.2	2.2	23.9	2.6	24.0	3.3	23.0	2.5	22.4	2.7	22.3	1.9	22.9	1.6	22
23	22.8	1.6	23.1	2.5	24.0	2.9	23.6	3.0	22.9	1.9	22.4	2.4	22.7	1.9	22.4	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.			Air	Excess of air over Evap.	
Midnight	22.6	1.3	21.5	1.3	23.0	1.5	22.7	1.0	23.0	0.5	22.1	0.9			23.2	1.5	Mid-night
1	22.0	0.7	21.3	1.2	23.1	1.3	22.3	0.9	22.9	0.5	22.0	0.8			23.0	1.4	1
2	22.1	0.9	20.7	1.4	22.[illegible]	0.9	22.0	0.8	22.7	0.5	21.6	0.8			22.7	1.4	2
3	22.1	0.7	20.7	1.1	22.3	1.1	22.1	0.9	22.9	0.6	21.7	0.9			22.7	1.3	3
4	21.9	1.1	21.3	1.0	22.3	1.0	22.0	0.8	23.1	0.6	22.1	1.1			22.7	1.4	4
5	21.9	0.9	21.1	1.0	22.2	0.6	22.1	0.8	22.7	0.5	21.9	1.2			22.6	1.4	5
6	21.8	1.0	21.0	1.2	22.3	0.7	22.3	0.9	23.1	0.8	21.6	1.1			22.5	1.4	6
7	21.9	1.0	21.5	1.2	22.9	1.0	23.1	0.9	23.2	0.8	22.5	1.5			22.9	1.4	[illegible]
8	23.0	1.1	24.3	2.5	24.2	1.2	24.8	1.5	24.8	1.5	24.5	2.4			24.9	2.2	8
9	23.5	1.5	25.8	3.6	25.3	2.3	26.3	2.8	26.0	2.8	25.9	3.5			26.0	3.2	9
10	22.8	1.3	26.4	3.9	25.5	2.3	26.7	3.0	26.1	3.1	26.2	4.0			26.4	3.4	10
11	24.5	1.9	26.9	4.4	26.2	3.0	27.1	3.1	26.1	2.9	26.6	3.9			26.9	3.8	11
Noon	26.0	3.7	27.5	4.6	26.9	3.7	27.1	3.1	26.6	3.6	27.1	4.2			27.2	4.0	Noon
13	27.1	5.1	27.6	4.8	25.6	3.5	27.1	3.4	27.1	3.5	27.0	4.3			27.3	4.2	13
14	26.8	5.6	27.6	5.1	27.3	4.2	27.0	3.2	27.0	3.8	27.0	4.3			27.2	4.1	14
15	26.4	4.6	27.0	4.7	25.4	2.2	26.8	2.9	26.9	3.7	26.8	4.6			26.9	4.0	15
16	26.1	4.1	26.8	4.4	24.9	1.7	26.6	2.8	26.2	3.3	26.6	4.7			26.6	3.8	16
17	25.3	3.1	25.6	3.6	24.8	1.6	26.0	2.6	25.4	3.1	25.3	3.4			25.7	3.1	17
18	24.1	2.3	24.4	2.6	23.6	1.0	24.2	1.0	24.3	2.0	24.0	2.8			24.6	2.2	18
19	23.0	1.8	23.7	1.9	23.4	1.0	23.6	1.3	23.4	1.3	22.9	2.1			24.0	1.9	19
20	23.0	1.8	23.4	1.7	23.1	0.8	23.3	1.1	23.3	1.2	21.7	1.7			23.7	1.7	20
21	22.7	1.6	23.3	1.7	23.1	0.8	23.3	1.1	23.0	1.1	20.5	1.3			23.5	1.7	21
22	22.4	1.5	23.0	1.4	23.3	0.9	23.1	0.6	22.7	1.0	20.0	1.4			23.4	1.7	22
23	21.9	1.2	23.0	1.7	23.3	1.2	22.7	0.5	22.4	1.2	19.5	1.3			23.2	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, 1939

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, 1939

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	08	2.[illegible]	10	2.2	10	3.5	12	1.1	09	2.2	08	2.5	11	2.1	10	4.2	11	2.8	09	1.9	10	1.7	10	1.6	10	1.1	10	2.4	30	1.5	11	7.2
1	10	2.1	10	1.2	10	3.3	13	0.9	06	1.7	08	3.3	11	2.0	11	3.0	10	2.9	09	1.3	10	1.5	10	1.6	10	1.7	10	2.9	30	1.6	10	6.3
2	10	2.8	10	1.7	09	3.5	13	1.7	06	1.8	08	3.8	11	2.4	10	2.8	09	3.1	09	3.6	10	1.6	10	1.6	11	1.6	10	1.5	30	0.9	12	6.5
3	10	3.2	10	1.6	10	3.1	11	1.6	07	1.2	08	3.5	11	2.6	12	2.8	10	3.0	10	2.1	11	2.2	10	2.1	11	1.2	10	1.1	14	2.8	12	5.9
4	10	3.9	10	2.0	11	3.3	11	1.8	06	1.9	08	3.8	11	2.2	14	2.1	07	2.8	10	2.9	10	2.3	10	1.9	11	1.1	10	1.2	15	1.1	12	5.9
5	10	3.0	11	2.2	06	2.0	11	1.6	07	1.8	08	3.3	11	2.1	12	1.8	09	1.9	10	2.8	10	2.7	10	1.8	11	1.1	10	1.3	15	1.5	10	5.1
6	10	1.9	11	1.9	08	1.8	11	2.2	06	1.7	08	3.5	11	2.1	10	2.3	10	1.2	10	2.7	11	2.5	10	1.7	11	1.3	10	1.6	12	1.5	11	6.3
7	07	2.1	10	2.3	10	3.9	10	1.8	06	1.2	08	3.9	11	2.8	11	2.3	07	2.7	12	3.6	12	3.8	10	1.8	12	1.0	10	0.7	12	2.0	10	6.5
8	10	4.0	11	2.5	09	4.3	10	3.3	07	1.6	07	4.1	11	3.7	11	2.2	08	3.6	09	4.5	10	4.2	10	2.5	11	1.9	11	2.0	10	3.7	11	6.7
9	09	5.5	10	4.6	11	5.1	10	4.1	06	2.9	08	4.5	11	4.4	08	4.3	08	2.5	08	5.5	10	4.9	09	3.4	10	2.8	11	2.4	11	4.5	09	7.3
10	08	5.3	09	6.8	10	5.7	12	4.1	08	3.3	08	5.0	12	5.2	10	4.0	08	3.9	08	5.2	10	4.4	09	4.2	11	3.1	11	1.9	12	6.3	10	8.5
11	09	4.8	12	6.1	09	5.6	09	3.2	09	3.6	08	5.3	11	5.3	09	4.2	04	4.4	09	4.4	07	4.2	09	4.6	09	3.3	07	2.8	12	6.4	11	8.7
Noon	08	5.3	08	6.0	08	5.7	10	3.9	05	3.8	08	5.2	08	5.5	08	3.7	05	4.7	09	4.5	05	4.5	09	4.6	09	3.4	07	2.4	10	8.0	10	8.3
13	08	5.5	10	6.1	10	6.1	08	4.1	05	4.1	09	6.3	09	5.8	10	2.9	06	3.7	08	4.2	09	4.8	10	4.2	08	3.3	07	2.8	12	8.5	09	8.7
14	08	4.6	08	6.2	09	5.6	09	4.4	08	4.0	10	6.5	12	6.2	08	4.1	07	5.5	06	4.6	05	4.6	06	4.3	08	3.1	07	2.4	12	8.2	10	8.9
15	09	4.1	09	5.5	11	5.4	12	4.5	06	3.5	09	5.4	09	5.6	09	3.9	05	4.3	10	4.2	07	4.1	07	3.8	06	2.5	11	1.8	12	8.4	09	8.3
16	09	4.6	09	5.6	12	5.4	12	3.7	06	3.5	09	5.7	12	5.8	09	4.4	08	4.7	08	4.1	10	3.5	08	3.6	09	2.0	20	0.7	12	8.0	12	7.9
17	09	4.5	08	4.4	11	4.7	10	3.9	11	2.6	07	5.0	08	5.2	10	4.2	08	3.8	09	3.5	08	3.6	08	2.9	08	2.1	19	1.7	12	7.1	10	6.4
18	08	3.4	11	3.1	12	4.4	09	2.6	10	3.2	09	3.1	10	3.6	11	3.2	08	2.8	08	2.9	08	2.5	08	2.3	08	1.1	20	0.8	10	7.1	10	5.3
19	08	2.1	10	1.1	11	3.2	10	2.5	11	1.9	10	2.0	10	3.3	11	2.4	08	2.7	10	1.3	11	1.8	10	1.3	08	1.3	30	1.2	11	7.4	11	4.4
20	11	2.3	11	4.4	11	2.6	08	2.1	10	2.0	10	2.3	10	3.8	11	3.0	08	2.1	10	2.2	10	2.2	10	1.2	10	1.6	30	0.8	10	7.8	11	4.9
21	11	2.2	11	2.3	13	2.0	08	1.5	08	3.1	10	2.7	12	4.4	09	2.9	08	2.6	10	1.7	10	2.0	10	1.7	10	1.8	30	1.1	11	6.2	10	3.9
22	10	1.9	11	2.8	13	1.2	08	1.7	10	3.2	09	1.8	10	2.9	12	1.5	08	2.6	10	1.5	10	2.2	10	1.8	10	2.2	30	1.5	11	6.5	10	4.3
23	10	1.6	09	3.8	13	1.5	10	1.8	09	2.7	10	2.4	11	3.2	11	3.4	09	2.1	10	1.5	10	1.2	10	1.4	10	1.8	30	2.0	09	6.8	09	4.4

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	10	4.4	10	2.7	12	3.9	09	4.5	09	3.5	10	3.2	10	3.0	11	2.9	09	1.8	10	1.1	11	1.6	10	2.9	12	1.9	10	2.1		2.7
1	10	3.4	10	2.8	11	3.9	09	4.1	10	2.8	09	3.7	08	2.8	09	4.2	07	1.4	10	1.6	10	1.5	10	2.3	11	2.3	10	1.2		2.5
2	10	3.4	12	3.8	12	3.2	10	4.1	10	3.2	12	3.4	09	3.5	11	4.5	09	2.5	10	1.3	08	1.2	10	2.1	10	2.1	10	1.6		2.7
3	11	2.7	14	1.8	11	3.5	10	4.3	09	3.9	10	3.0	10	2.0	11	4.2	09	1.5	10	1.3	08	1.9	10	1.8	10	2.0	10	1.6		2.5
4	11	3.3	12	4.0	12	4.0	11	4.2	09	2.6	10	2.6	10	2.9	10	4.0	10	2.0	10	1.6	08	2.0	10	2.3	09	2.3	10	2.9		2.7
5	11	2.5	12	3.7	12	4.6	10	4.1	10	2.9	10	2.4	11	2.0	09	5.3	11	2.6	10	1.9	10	2.1	10	2.2	07	2.5	11	2.4		2.6
6	11	2.3	10	2.7	12	4.4	10	4.0	10	2.3	10	2.2	11	2.0	09	6.7	11	2.2	10	1.6	10	1.8	10	2.2	08	3.1	11	2.5		2.5
7	11	2.3	12	4.2	10	4.2	10	4.3	10	2.3	11	3.0	11	2.2	09	5.8	11	2.6	10	1.8	09	2.6	10	2.9	08	2.5	11	2.8		2.8
8	12	3.5	10	4.0	10	5.5	10	5.1	09	3.5	10	3.6	08	4.0	08	5.7	10	2.8	10	2.6	10	3.3	11	2.6	06	2.9	10	2.8		3.6
9	12	4.5	09	6.5	10	6.2	09	6.6	09	5.4	09	5.5	09	5.0	09	4.7	05	3.9	09	4.2	08	4.8	08	3.9	06	4.0	08	3.8		4.6
10	12	5.8	09	6.8	08	6.9	09	6.5	10	5.6	08	5.1	08	5.5	10	6.3	07	3.5	07	4.0	08	5.1	08	4.3	06	4.2	08	5.3		5.1
11	09	5.7	08	6.7	10	7.3	09	6.8	09	6.0	09	6.6	10	4.4	11	5.3	12	3.7	09	4.3	09	5.2	06	3.6	07	4.4	08	5.2		5.1
Noon	11	5.3	10	6.1	11	7.4	10	6.1	09	8.5	08	7.5	08	4.7	08	4.6	09	4.8	08	4.2	06	5.8	06	3.7	08	4.7	08	5.5		5.3
13	09	5.3	09	6.3	09	7.9	09	6.3	08	6.2	09	7.4	11	5.8	10	5.3	08	5.1	09	4.4	09	5.0	06	3.9	06	4.4	08	5.0		5.3
14	11	5.2	09	5.6	09	7.3	09	6.5	08	7.9	06	7.7	09	5.1	08	6.2	10	4.8	09	4.7	08	4.6	07	3.6	08	3.7	08	4.7		5.4
15	13	4.8	07	5.0	09	7.2	09	6.0	10	5.5	11	6.6	09	5.2	10	5.2	10	4.4	10	4.8	10	5.1	08	3.9	05	4.0	08	3.9		4.9
16	09	5.0	11	6.3	10	7.0	10	6.4	09	7.4	11	6.1	10	5.2	09	5.1	10	4.3	09	5.1	08	4.4	06	3.3	08	4.2	11	3.7		4.9
17	09	4.8	10	5.9	10	6.4	10	4.9	09	6.0	11	5.0	11	4.0	09	3.3	11	4.0	09	4.9	10	3.8	07	3.0	08	3.5	10	2.1		4.2
18	10	3.2	10	4.2	10	4.8	09	5.9	09	3.3	11	3.1	11	2.4	12	2.6	10	2.4	10	3.3	08	3.6	09	1.8	08	2.6	10	3.1		3.3
19	07	1.8	10	3.9	10	4.4	10	4.3	10	2.7	09	3.4	11	1.8	09	2.6	10	2.1	10	2.5	09	2.7	10	2.1	08	2.0	10	0.7		2.6
20	09	1.9	11	3.0	11	4.4	09	4.9	10	2.2	10	2.5	11	2.2	09	2.1	10	2.1	10	2.4	09	2.6	10	2.9	10	2.1	10	0.6		2.7
21	09	2.5	10	3.8	09	5.2	09	5.3	10	1.8	10	3.0	10	2.3	09	1.8	10	2.2	12	2.6	10	1.9	10	2.1	10	2.2	10	0.7		2.6
22	11	1.9	11	3.9	09	4.4	09	5.3	11	2.5	11	3.3	10	2.3	10	2.3	10	2.5	10	2.8	10	2.4	10	2.3	10	2.4	10	0.7		2.7
23	10	3.8	10	3.9	08	4.8	09	4.1	12	3.1	11	3.3	10	3.1	10	1.9	10	1.8	10	2.3	09	2.6	12	2.9	10	2.1	10	0.6		2.7

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) APRIL, 1939.

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	-	1	29	-	-	-	-	5	14	9	2	-	-	-	-	-	-	-	-
9	-	7	23	-	-	1	2	17	5	5	-	-	-	-	-	-	-	-	-
15	2	6	22	-	-	2	2	14	6	5	-	1	-	-	-	-	-	-	-
21	-	1	29	-	-	-	-	8	15	6	-	-	-	-	-	-	-	-	1
Totals	-	-	-	-	4	13	4	44	43	25	2	1	-	-	-	-	-	-	1

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR APRIL, 1939

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	..	..	..	..	0.1	..	..	..	0.3	..	..	0.1	..	..	..	..	..	..	..	..	..	1.6	..	..	1.0	..	..	..	1.4	..
2	0.8	..	..	..	..	..	..	..	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	0.1	..
3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	0.1	0.1	..	..	..	..	..
4	..	..	0.5	..	..	..	0.9	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	2.2	..
5	0.9	..	0.4	..	..	..	..	..	1.7	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	1.0	..	1.3	..
6	..	..	0.5	..	..	..	..	0.2	1.3	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..
7	5.0	0.4	..	..	..	..	..	..	5.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	3.2	0.2	..	..	..	..	..	..	1.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..
9	..	..	..	..	..	..	..	..	10.4	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..
10	..	..	..	..	..	..	..	..	0.3	..	0.7	..	..	..	0.4	..	..	..	..	..	..	0.2	..	..	0.2	..	0.1	..	..	..
11	..	..	..	0.2	..	..	..	..	13.2	..	..	..	..	..	1.2	..	..	..	..	..	..	..	0.3	..	0.2	..	..	..	..	..
Noon	..	..	..	..	..	0.4	..	..	2.5	..	..	..	..	..	0.4	..	..	..	..	..	..	..	0.3	0.7	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	3.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	0.4	..	..	..	..	..	..	..	..	5.5	0.1	..	..	0.1	..	..	..	..	..	..	..	..	..	0.1	..	..
15	..	..	..	..	0.6	..	..	..	..	..	..	..	..	2.0	0.1	..	..	..	..	..	..	..	..	..	..	..	2.1	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..
17	..	1.2	0.1	..	1.8	..	..	..	..	..	..	..	..	3.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	0.2	..	..	..	..	..	..	..	..	..	..	..	0.8	0.1	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..
19	..	..	..	..	9.2	..	..	..	..	..	..	..	..	0.1	0.1	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..
20	..	..	..	0.4	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..
21	..	..	..	..	1.9	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..
23	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.4	..	..	..
24	..	0.2	..	0.1	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	1.3	..	..	0.2	..	..	0.8	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR APRIL, 1939

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	3.5	..	0.7	..	..	..	..	..	2.0	..	..	..	..	..	..	0.1	..	1.7	0.3	..	..	0.7	..	..	0.3	..	..	..	6.5	..
2	0.8	..	..	0.2	..	2.5	..	..	0.5	..	..	..	..	..	..	0.2	..	0.0	..	..	..	0.4	0.2	0.5	..	..	..	..	..	..
3	..	..	0.1	..	..	..	..	..	0.4	..	..	..	..	..	2.2	0.5	..	0.2	..	..	..	0.5	..	0.7	0.1	..	..	..	0.1	..
4	0.2	..	0.2	..	..	..	..	..	7.4	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	0.4	..	0.1	..	..	..
5	..	..	0.7	..	..	..	..	..	6.8	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..
6	..	..	..	..	..	..	..	0.3	3.8	..	..	..	..	..	0.2	0.3	..	..	..	..	..	..	1.0	..	..	..	0.2	..	..	..
7	..	..	..	..	..	..	0.4	0.1	1.4	..	..	..	..	..	1.4	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	2.3	..	..	..	0.1	..	..	..	1.7	..	0.7	..	..	..	1.3	0.3	..	..	..	..	..	..	..	..	..	..	0.1	0.6	..	..
9	7.4	..	..	..	..	..	..	..	..	..	0.3	..	..	..	0.3	..	..	..	..	..	..	..	2.7	..	0.1	..	..	0.7	..	..
10	..	..	..	0.1	..	..	..	..	..	..	0.8	..	..	..	2.2	0.4	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..
11	..	..	..	..	1.5	..	..	..	..	..	1.3	..	..	..	0.5	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	0.4	0.2	..	..	..	..	0.7	..	..	..	..	..	1.0	0.6	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..
13	..	..	0.2	..	..	..	..	..	10.1	..	0.3	..	0.1	..	2.0	0.2	..	..	..	..	..	..	..	1.5	..	..	..	1.9	..	..
14	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	1.3	..	..	..	..	..	..	..	..	..	1.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	1.9	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	1.0	..	0.3	..	..	..	..	..	..	..	..	2.0	..	..	..	..	..	..	..	..	0.8	..	..	..	0.3	..	..
18	..	..	..	3.5	..	0.1	0.8	..	..	..	..	..	..	..	1.9	..	0.2	..	..	..	..	..	..	0.3	..	..	..	..	..	..
19	..	..	..	0.3	6.4	..	0.3	..	..	..	..	0.1	..	..	1.8	..	0.2	..	..	..	..	..	..	1.2	..	0.3	0.6	..	..	..
20	..	0.1	..	..	6.4	..	0.8	..	..	..	..	..	..	..	5.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	0.2	..	0.4	2.4	..	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	0.2	1.3	1.8	..	..
22	0.5	..	..	0.9	..	0.7	..	0.3	..	..	0.3	..	..	..	0.9	..	..	0.2	..	..	..	0.4	..	..	..	..	..	1.2	..	..
23	..	0.9	..	1.9	..	0.2	0.2	..	..	..	..	..	..	..	0.3	..	1.2	..	..	..	..	0.7	..	1.8	..	..	..	..	..	..
24	..	0.4	..	..	..	..	..	..	..	..	0.6	..	..	..	0.3	..	..	..	..	..	..	1.6	..	0.3	..	..	..	6.3	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR APRIL, 1939

RIVER SYSTEM	STATIONS	Approximate Altitude in Feet	Total Fall		Normal in Inches	Number of Days
			Inches	Millimetres		
1	Mare Seche	20	4.08	103.6	5.95	16
	Saint Antoine	50	5.16	130.8	5.47	15
	Bel Mont	50	6.25	158.8	6.01	13
	Poudre d'Or	20	7.58	192.5	5.88	13
	Mon Loisir S.E.	300	4.42	112.3	6.79	18
	Forbach	300	5.82	147.8	5.20	18
	Couroupa	...	3.20	81.2	6.91	13
	Labourdonnais	290	5.63	143.0	6.21	15
	Mapou Water Office	...	4.22	107.2	...	10
	Beau Sejour	300	7.07	179.6	7.34	21
	Mont Piton	650	5.90	149.9	7.37	20
	Mon Choix	700	6.89	175.0	6.74	19
	Antoinette	640	6.27	159.3	7.40	15
	Mon Songe	620	5.87	149.1	7.72	17
	Botanical Gardens	325	6.61	167.9	6.18	14
	The Observatory	179	4.32	109.8	5.12	23
	Solitude	175	4.28	108.7	4.13	90
	Saint Andre	90	5.28	134.1	5.30	11
	La Nicoliere	...	6.53	165.9	12.16	23
	California	...	6.24	158.5	...	11
	Australia	...	...	...	...	..
2 & 3	Union Regnard (Flacq S.E.)	600	8.24	209.3	8.77	16
	Constance d'Arffat (L.S.)	100	7.80	198.1	5.93	16
	Rich Fund	600	7.40	188.0	9.64	24
	La Joffrette	...	10.22	259.6	...	18
	Belle Vue Allendy	...	7.14	181.4	9.30	14
4	Sans Souci	900	13.22	335.8	15.21	28
	Beau Champ (G.R.S.E.)	40	5.55	141.0	7.53	19
	Olivia	200	8.19	208.0	10.96	24
	Trois Ilots	...	5.45	138.4	...	20
	Belle Rive	400	9.32	236.7	14.19	25
	Sebastopol	700	8.82	224.0	...	22
	Bonne Veine	400	12.81	325.4	15.09	23
5	Rose Belle	850	11.58	294.1	15.40	27
	New Grove	650	13.74	349.0	15.12	23
	Mon Tresor	...	9.22	234.2	...	20
	Mon Desert (Carie)	75	8.55	225.2	6.77	18
	Ferney	20	7.00	177.8	9.90	16
	Sauveterre	...	7.17	182.1	...	18
	Tivoli	1300	10.57	268.5	15.08	25
	La Flora	1050	11.33	287.8	16.37	26
	Riche Bois	650	8.05	204.5	12.15	25
6	Britannia (Estate)	700	11.25	260.4	11.61	25
	Savannah (Mill)	200	6.76	171.7	8.19	12
	St. Aubin	300	5.39	136.9	9.00	18
	Saint Avold	900	9.47	240.5	12.84	24
	Colmar	400	8.97	227.8	10.42	22
	Union S.E.	...	6.69	169.9	8.55	16
	Fontenelle	320	7.86	199.6	9.29	17
	Choisy	200	5.67	144.0	6.62	10
	Beau Bois	...	7.71	195.8	...	20
	Bel Air	...	5.24	133.1	8.29	12
	St Felix	...	7.23	183.6	...	11
7, 8, 9 & 10	Bel Ombre	40	5.37	136.4	6.61	19
	Beau Champ B. du Cap	70	4.81	122.2	7.65	19
	Frederica	...	5.74	145.8	7.04	18
	Pierrefonds	...	3.12	79.2	6.08	15
	Sainte Marie	...	6.11	155.2	...	18
	Hussonia Ltd.	...	...	...	...	..
11	Curepipe Gardens	1850	14.14	359.2	11.76	26
	Mare aux Vacoas G.End	1850	12.16	308.9	16.19	27
	Mare aux Vacoas (Arnaud)	1830	13.22	335.8	14.93	28
	La Marie Filter Beds	1700	9.54	242.3	9.55	26
	Sophie	...	12.30	312.4	...	27
	Reunion	1420	7.52	191.0	7.85	25
	Aerological Station	1393	6.95	176.6	10.98	25
	Phoenix	...	6.09	154.7	...	16
	Quatre Bornes	...	3.01	76.5	...	13
	Quatre Bornes (Board)	1090	3.82	97.0	3.81	7
	Le Reduit Dep. of Agriculture	1000	3.23	82.0	4.85	22
	Alma	1460	11.08	281.4	12.95	19
	Bagatelle	1250	8.23	209.0	7.33	18
	Highlands	1300	9.26	235.2	8.64	23
	Trianon	950	3.78	96.0	5.70	15
	Val Ory	1100	2.36	59.9	5.79	7
	Bassin	...	3.85	97.8	7.27	11
	Hermitage	1450	9.83	249.7	13.25	23
	Ebene	...	3.63	92.2	...	20
	Bega	...	3.44	87.4	...	19
	Mon Reve	...	4.94	125.5	...	20
	Mont-Pevril	...	4.38	111.3	...	19
	Minissy	1150	6.14	156.0	7.55	20
	Plaisance	...	9.14	232.2	...	16
	La Ferme	350	1.37	34.8	4.75	5
	Line Barracks	...	1.84	46.6	...	11

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION, VACOAS 424.5 METRES ABOVE SEA LEVEL, DURING THE MONTH OF APRIL, 1939

Day \ Type	Time	St & Fs		Cumulus Cu.St &C.		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus		Time	St. & Fs.		Cumulus Cu.St. &c.		Alto Cu. Alto St.		Cirro. Cumulus		Cirro Stratus		Cirrus	
		Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height		Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height
		0		0		0		0		0		0			0		0		0		0		0		0	
1	10¼	...	...	105	13.1	...	...	...	...	...	...	270	...	15½	97	23.6*	90	16.5*	...	...	...	...	...	...	...	...
2	10¼	...	...	90	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	11[illegible]	22.1*	...	...	...	...	...	...	180	2.5*	...	...
4	10¼	45	8.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	10¼	45	21.2	60	13.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	9¾	90	18.6	75	16.4	...	...	...	...	...	...	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	9¾	75	23.7	90	16.8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	...	...	...	...	...	...	300*	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	...	...	...	...	...	...	300*	...	...	...	...	...
14	9½	...	...	...	...	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	14¾	90	7.7	105	6.9	...	...	...	...	...	...	330	2.4	15¼	...	...	90*	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	15½	...	...	120	...	255	2.5	240	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	15½	95	23.4*	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	...	...	90	15.8*	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

The Direction is that from which the Cloud travels counting North (0°) East (90°) South (180°). The Velocity-Height Ratio is given in milliradians per sec.

* Observatory Pamplemousses.

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°5'39"S., - LONGITUDE 3h50m12.6s

R E S U L T S

O F

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

F O R T H E M O N T H O F

M A Y, 1 9 3 9

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

DIRECTOR

PUBLISHED IN 1962 BY

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DIRECTOR OF METEOROLOGICAL SERVICES, MAURITIUS

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF MAY, 1939

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)	HRH = 10,000	ZRZ = 10,000
MAY								
1	13°46'.1	.22394	...	8.0	149	...	334	...
2	44.9	383	...	9.5	70	...	157	...
3	45.3	400	.29851	6.5	37	33	83	98
4	45.2	419	846	8.2	35	35	78	104
5	45.2	429	842	9.7	21	35	47	104
6	45.1	438	...	8.2	124	...	278	...
7	45.2	396	851	7.5	65	22	146	66
8	44.8	409	848	8.8	46	23	103	69
9	44.8	419	849	8.5	31	23	69	69
10	45.3	428	844	10.5	29	30	65	90
11	45.7	438	843	9.5	41	27	92	81
12	45.2	442	839	9.0	32	27	72	81
13	45.2	442	838	11.0	31	32	70	95
14	46.0	448	836	9.7	18	29	41	86
15	45.4	446	837	6.7	55	22	124	65
16	45.3	426	843	5.0	92	19	206	57
17	46.0	433	842	9.0	61	30	137	89
18	45.2	431	842	6.5	53	27	119	80
19	45.5	425	841	8.0	32	29	72	86
20	45.3	425	840	4.0	34	31	76	92
21	45.1	433	844	6.5	90	24	202	72
22	45.8	424	844	6.5	78	22	175	66
23	45.3	423	844	5.5	58	20	130	60
24	45.2	433	846	6.0	58	13	130	39
25	45.5	430	840	6.0	48	25	108	74
26	45.2	429	846	5.5	38	11	85	33
27	45.7	432	84[illegible]	6.8	33	21	74	63
28	45.3	443	841	9.3	45	28	101	83
29	45.2	426	843	9.0	93	23	208	69
30	46.5	427	842	7.5	26	24	58	72
31	46.5	445	838	7.0	28	36	63	107
Mean	13°45'.45	.22427	.29843	7.72	53.3	25.7	119.5	76.8

Description of the Principal Magnetic Disturbances

Declination Slightly disturbed during second half of 1st and first half of 2nd. Fluctuations do not exceed 6' amplitude. 6th to 10th. Very slightly disturbed in parts. Very slightly disturbed during second half of 21st first half of 22nd. and first half of 24th. Moderately disturbed on 29th.

Horizontal Force 1st 10^h40^m - Sudden commencement of a moderate storm of long duration; the largest fluctuations occur between 1st 15^h30^m and 2nd 4^h. Rapid fluctuations of 50 γ to 60 γ during this period. The absolute range amounts to 175 γ. The disturbance gradually subsides on 3rd. 6th - Sudden commencement at 0^h40^m with an abrupt increase of 55 γ of a very moderately disturbed period which lasts until the first hours of 10th. From 6th 16^h30^m to 6th 18^h00^m rapid decrease of 80 γ. Irregular waves of lesser importance (25 γ - 30 γ) follow. 17th 22^h to 18th 0^h - large positive wave of 35 γ. Very moderately disturbed trace from 21st to 25th. Occasional important fluctuations during this period : the absolute range on 21st is 100 γ. Rapid decrease of 60 γ from 12^h to 14^h30^m on 22nd. Sharp positive wave of 40 γ between 3^h and 4^h on 23rd. Sharp positive wave of 35 γ between 19^h and 20^h on 25th. 28th - Sudden commencement at 0^h50^m of a very moderate storm which subsides during the early hours of 30th. The more important fluctuations occur during the first half of 29th. Rapid fluctuations which attain 35 γ at times.

Vertical Force Very slightly disturbed on 1st and 2nd. Register lost in part. 6th to 10th - Moderately disturbed in parts. Fluctuations do not exceed 10 γ. Very moderately disturbed at times from 21st to 25th with only minor pulsations in the trace. 29th - Slightly disturbed with small pulsations in the trace.

T = .37331 : Mean Dip = 53°04'.52 : X = .21783 : Y = -.05333 : Z = .29843

✓ 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, 1939

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
2.14.34	13.42.9	4.12.00	.22421	2.14.47	53.07.06	.29840
12.11.45	13.46.0	11.10.06	.22448	12.12.04	53.01.25	.29821
19.15.06	13.44.3	[illegible]	.22457	19.[illegible].21	53.0[illegible].8[illegible]	.298[illegible]
26.14.2[illegible]	13.41.8	2[illegible]	.2244[illegible]	19.15.21	53.02.82	.29816
		27.10.12	.22443	26.14.35	53.04.87	.29833
		31.10.28	.22458			

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

MAY, 1939

13°+

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	46.0	51.5	47.5	46.0	45.0	45.5	46.0	46.0	46.5	46.0	45.5	45.7	46.0	45.7	45.5	46.0	Midnight
1	45.7	49.0	47.0	46.3	45.3	45.5	47.0	45.5	46.7	45.5	45.5	45.5	46.0	46.0	45.3	46.0	1
2	45.5	49.0	46.0	45.7	45.0	44.0	46.7	45.3	44.0	45.0	45.5	45.3	45.5	45.7	45.2	45.5	2
3	45.5	48.0	47.0	46.5	45.5	45.0	47.0	45.3	46.3	45.5	45.0	45.0	45.3	45.5	45.0	45.3	3
4	45.0	43.5	47.3	46.0	45.5	45.5	45.5	44.3	45.0	45.5	44.7	45.0	44.7	45.0	44.7	44.0	4
5	45.0	44.5	47.5	45.5	45.5	45.3	46.0	42.5	44.5	45.3	44.3	44.7	44.7	44.7	44.5	44.3	5
6	44.3	43.0	46.0	45.5	45.7	45.0	44.0	43.0	44.0	45.0	44.5	44.7	44.5	45.0	44.5	44.0	6
7	44.0	42.0	45.0	45.3	46.0	45.5	40.0	44.0	44.0	44.5	45.5	45.0	45.0	45.0	44.5	46.0	7
8	45.7	43.0	46.0	47.5	48.0	46.0	43.5	46.0	42.5	46.5	48.0	46.5	47.0	47.5	46.0	45.0	8
9	49.0	44.0	48.0	49.0	51.0	48.0	44.0	48.0	48.0	49.0	51.5	49.0	50.5	50.5	48.5	46.7	9
10	50.0	44.5	49.0	49.5	50.0	49.5	46.5	49.5	48.5	50.5	51.5	49.5	51.5	52.0	49.0	47.5	10
11	48.0	42.5	45.0	47.0	46.0	47.0	47.0	47.5	48.0	50.0	50.0	47.5	48.5	50.0	48.5	47.0	11
Noon	49.5	43.0	43.0	45.0	43.7	44.0	46.0	44.3	45.3	48.0	47.0	46.0	45.0	48.0	46.5	45.5	Noon
13	44.5	44.0	43.5	43.0	41.5	42.7	46.0	42.5	43.0	45.0	45.0	44.7	42.5	46.5	45.0	44.7	13
14	43.0	44.0	43.0	41.7	41.5	41.3	43.0	40.7	41.0	41.0	43.5	43.5	41.3	44.3	44.0	44.0	14
15	43.0	42.5	42.5	41.3	41.3	42.5	42.0	42.0	40.0	40.0	42.0	41.5	40.7	42.7	42.5	42.5	15
16	44.0	43.7	42.7	42.5	42.3	42.0	42.5	41.7	41.0	41.0	42.3	40.5	40.5	42.3	42.3	42.7	16
17	43.5	44.0	43.5	43.3	43.5	42.0	43.5	44.0	42.7	42.7	42.7	42.5	43.0	43.0	43.5	44.5	17
18	45.0	45.3	44.5	44.3	44.3	44.5	44.7	42.3	44.5	44.0	44.0	44.0	44.5	44.3	44.7	45.5	18
19	46.0	44.0	44.3	44.7	44.5	46.0	46.5	45.5	45.0	45.0	44.3	44.7	45.3	45.3	45.5	46.0	19
20	46.7	46.3	44.5	44.7	46.0	46.7	46.0	46.0	46.3	45.3	45.3	45.5	45.5	46.0	46.3	46.0	20
21	49.5	46.0	44.7	45.0	46.0	46.5	46.7	46.7	46.0	45.5	45.7	45.5	45.7	46.3	46.0	46.3	21
22	50.3	46.0	45.3	44.7	45.7	46.7	47.5	47.3	46.0	46.0	46.0	46.0	46.2	46.0	46.3	46.0	22
23	51.0	46.5	45.5	45.3	46.0	46.5	47.0	46.0	46.3	45.5	46.0	46.0	46.0	46.0	46.0	46.0	23

13°+

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	46.0	45.5	46.3	45.7	46.5	48.0	46.3	46.0	44.5	47.0	46.0	46.7	46.0	47.5	46.5	46.3	Midnight
1	46.3	45.7	46.4	46.0	46.0	47.0	46.0	46.5	47.7	47.5	46.3	46.5	45.7	47.5	46.3	46.3	1
2	45.0	45.5	45.5	45.5	46.0	46.5	46.5	46.5	45.5	46.5	45.7	44.0	45.0	47.5	46.3	45.7	2
3	45.5	45.5	45.5	45.5	45.5	46.7	46.0	44.5	46.5	45.0	45.0	46.0	45.0	48.0	46.5	45.8	3
4	45.3	45.3	44.7	46.0	45.0	46.0	47.0	43.0	45.5	44.5	44.0	44.7	44.0	47.0	46.3	45.1	4
5	45.5	44.3	44.3	44.5	45.7	44.0	46.0	46.7	44.0	44.0	44.5	43.5	42.5	46.7	46.0	44.9	5
6	45.0	44.0	43.0	44.5	45.0	43.5	45.0	46.5	44.0	43.0	44.0	44.5	42.5	46.5	46.0	44.5	6
7	44.7	41.0	41.0	43.0	43.0	41.5	44.0	42.0	43.0	43.7	43.5	41.0	40.0	45.7	46.0	43.7	7
8	46.7	41.5	41.5	43.0	43.0	43.0	45.0	43.0	44.0	44.0	45.0	43.0	42.0	47.0	47.0	44.9	8
9	50.5	45.0	44.0	44.7	44.0	44.0	46.0	45.0	47.0	45.0	48.0	47.0	44.0	48.5	50.0	47.3	9
10	51.5	47.5	47.5	46.0	44.0	44.7	46.5	45.5	48.0	46.0	49.5	50.0	47.5	50.0	50.5	48.5	10
11	49.5	47.5	49.0	46.7	43.7	48.0	46.5	46.0	47.5	46.0	48.3	49.7	49.0	49.0	49.5	47.6	11
Noon	48.0	46.5	49.0	46.5	44.7	48.0	46.0	45.0	44.5	44.7	46.7	47.5	46.5	47.0	48.0	45.9	Noon
13	45.5	45.5	48.0	45.0	44.0	46.0	46.0	44.0	43.5	43.0	46.0	46.0	45.5	45.0	46.0	44.6	13
14	43.5	44.5	46.0	43.7	42.0	44.0	46.0	43.0	42.0	42.0	45.0	43.0	44.3	44.0	44.5	43.2	14
15	42.5	42.7	43.5	43.0	42.3	45.0	45.0	41.5	42.0	43.0	43.5	40.7	44.0	42.5	43.5	42.4	15
16	42.7	42.7	43.5	43.5	43.0	45.0	43.5	42.5	43.0	43.3	42.7	42.0	43.5	43.5	43.7	42.7	16
17	44.5	46.0	45.5	45.0	44.5	46.5	45.0	45.0	46.0	45.5	44.0	44.5	44.5	44.5	45.0	44.1	17
18	44.7	46.0	46.5	46.3	46.0	47.0	46.7	46.7	46.5	46.5	45.7	45.3	46.0	45.7	46.3	45.2	18
19	45.3	46.5	46.5	46.5	46.5	47.5	47.5	46.5	46.5	47.0	46.5	45.7	46.5	46.0	46.5	45.8	19
20	46.0	46.3	46.3	47.0	46.3	47.7	47.5	47.5	46.5	46.7	46.7	46.5	47.0	46.3	46.7	46.3	20
21	46.0	47.0	46.0	46.7	48.0	47.5	49.0	47.5	47.5	47.0	46.7	46.5	48.0	46.7	46.7	46.6	21
22	46.0	46.3	46.3	46.7	47.5	47.5	49.0	47.3	47.5	47.3	46.7	46.7	47.7	46.5	46.3	46.5	22
23	47.0	46.3	46.3	46.5	48.5	47.0	47.0	47.5	47.5	46.0	46.5	46.5	48.0	47.0	46.0	46.6	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)

M A Y, 1 9 3 9

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	412	338	380	403	422	426	402	408	413	415	430	437	445	439	451	433	Midnight
1	416	355	380m	405	423	471	390	420	414	418	432	437	446	437	453	433	1
2	420	372	403	408	424	464	407	418	430	423	433	438	446	439	453	441	2
3	423	370	417	413	426	460	393	420	428	425	434	439	448	440	458	443	3
4	427	408	407	414	428	460	413	418	425	423	438	440	449	442	459	450	4
5	428	408	401	423	433	462	407	420	430	423	439	441	450	445	462	458	5
6	430	393	420	423	431	464	437	433	428	428	444	443	452	449	466	472	6
7	456	390	415	421	435	470	423	418	430	432	449	446	453	452	470	450	7
8	440	396	415	421	437	475	404	421	431	437	452	445	456	452	468	442	8
9	444	388	409	421	428	472	412	420	423	444	453	447	450	449	470	450	9
10	443	377	403	420	432	472	407	412	428	440	453	454	443	453	469	441	10
11	462	383	402	416	425	478	393	399	424	434	452	458	448	455	467	432	11
Noon	443	386	410	420	440	480	402	395	428	430	453	458	442	452	467	410	Noon
13	430	405	402	429	440	467	390	402	417	424	440	454	436	450	452	398	13
14	415	404	390	438	437	462	395	407	415	423	436	439	430	451	440	380	14
15	404	385	387	432	437	435	360	387	400	423	432	430	437	446	430	400	15
16	386	375	389	424	432	430	372	391	410	423	416	426	436	443	418	402	16
17	345	372	387	417	427	415	380	400	406	432	427	428	425	445	420	399	17
18	332	383	390	418	423	356	378	392	401	430	430	438	432	445	417	412	18
19	330	387	388	420	425	375	380	397	403	434	430	441	442	449	415	414	19
20	318	361	397	417	419	372	382	403	413	433	431	442	441	452	417	417	20
21	308	373	398	415	421	397	388	405	420	426	432	440	436	452	428	417	21
22	302	386	403	412	422	377	394	403	416	430	432	441	437	450	430	418	22
23	295	383	407	417	421	392	395	422	415	427	432	443	441	448	428	421	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
	.22000 + (C.G.S.UNIT)																
Midnight	423	428	418	423	417	401	419	417	426	422	432	433	440	408	435	419	Midnight
1	421	425	424	423	419	409	421	420	416	435	427	440	443	418	436	423	1
2	429	423	425	435	426	420	416	418	426	430	427	446	448	413	438	427	2
3	431	432	430	438	428	413	410	435	414	435	429	445	452	412	438	428	3
4	432	428	433	432	440	420	436	459	424	440	433	447	442	416	438	433	4
5	433	453	438	433	447	426	433	438	430	437	433	450	436	420	442	435	5
6	438	452	442	439.	448	428	436	440	446	442	435	457	443	425	443	440	6
7	440	456	450	437	456	429	438	445	442	448	437	453	475	434	450	441	7
8	450	458	443	436	459	448	447	447	442	446	445	462	458	458	453	443	8
9	457	453	457	436	459	450	449	448	454	438	445	468	450	438	453	443	9
10	452	447	448	438	456	447	450	448	446	433	447	467	435	438	453	440	10
11	454	448	447	433	453	458	453	457	435	434	449	452	416	436	463	439	11
Noon	457	450	447	425	457	470	440	453	450	428	443	442	443	432	458	439	Noon
13	453	443	440	420	462	440	431	446	447	429	436	438	420	427	460	433	13
14	449	439	434	430	470	424	432	437	440	423	429	447	417	427	460	430	14
15	440	432	434	430	462	422	413	436	430	412	418	438	406	417	449	421	15
16	433	421	427	420	450	421	404	432	422	410	416	423	397	420	440	416	16
17	427	414	425	420	435	410	405	428	418	411	417	438	382	423	437	413	17
18	426	410	428	420	423	408	414	429	418	417	420	427	401	425	441	412	18
19	420	405	428	412	404	392	416	413	406	418	422	428	408	428	440	412	19
20	408	406	430	405	391	492	408	401	428	420	427	430	407	430	440	413	20
21	401	410	429	407	382	408	395	416	422	421	430	430	416	432	440	413	21
22	396	407	433	408	382	408	396	419	422	421	430	437	395	434	440	412	22
23	420	410	427	408	380	414	403	406	423	435	430	436	402	437	442	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)

MAY, 1939

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	851	...	863	857	849	...	854	853	852	852	847	847	844	843	840	843	Midnight
1	850	...	861	854	849	...	855	852	852	851	847	847	844	843	840	842	1
2	849	...	857	853	848	...	858	850	848	848	847	846	844	843	839	842	2
3	848	...	857	853	848	...	852	849	847	848	846	846	843	843	839	841	3
4	848	...	857	852	847	...	849	848	848	847	846	845	843	843	839	841	4
5	849	...	858	851	847	...	850	845	847	847	846	845	843	843	839	841	5
6	839	...	856	853	848	840	848	847	847	847	845	845	843	842	839	840	6
7	851	...	853	853	848	842	843	848	846	846	846	844	843	841	837	842	7
8	854	...	857	857	854	845	852	853	852	850	852	847	845	843	843	845	8
9	857	...	858	857	856	850	854	856	860	853	854	847	850	844	846	852	9
10	850	...	853	848	842	847	862	854	857	853	850	843	847	840	843	846	10
11	836	...	840	835	827	837	854	846	845	849	838	830	830	828	833	845	11
Noon	827	843	830	825	823	826	847	838	839	842	833	821	823	818	828	839	Noon
13	827	848	836	822	821	824	843	839	837	833	832	821	818	818	827	836	13
14	831	846	836	824	822	829	841	833	837	823	832	822	818	815	825	833	14
15	833	846	836	828	823	833	840	833	840	824	827	820	820	817	824	833	15
16	840	843	840	835	831	836	843	839	846	831	834	825	827	823	826	834	16
17	...	854	846	844	837	837	847	845	849	837	838	837	837	833	834	843	17
18	...	857	852	848	844	848	850	846	853	843	843	842	843	847	839	847	18
19	...	856	853	849	845	855	853	853	853	845	844	843	843	841	842	847	19
20	...	859	857	851	849	855	854	853	854	846	845	843	843	842	844	847	20
21	...	863	857	852	849	853	855	854	853	846	846	844	843	841	844	845	21
22	...	861	857	853	849	857	856	856	850	847	847	845	844	841	844	846	22
23	...	860	857	853	848	854	855	854	853	848	847	844	843	841	843	846	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	846	843	847	843	847	854	848	848	845	847	847	844	843	847	843	848	Midnight
1	845	843	845	843	845	850	837	850	842	847	848	844	842	847	843	847	1
2	844	843	844	843	843	847	847	849	833	846	847	841	842	846	843	846	2
3	844	843	843	843	843	847	847	847	828	844	847	844	842	846	843	845	3
4	844	843	843	840	842	846	843	843	830	843	846	842	842	846	843	844	4
5	845	843	843	842	842	843	843	846	834	843	846	842	843	846	843	844	5
6	845	842	842	842	841	845	843	845	836	842	846	840	844	846	843	844	6
7	845	837	837	843	837	840	842	839	849	840	844	841	842	844	843	843	7
8	849	843	844	841	843	845	845	839	843	844	846	850	848	847	847	847	8
9	853	850	850	846	847	850	844	845	851	850	845	852	853	850	851	851	9
10	849	853	852	850	845	846	846	844	851	849	843	847	852	848	846	848	10
11	841	843	849	848	843	843	843	838	846	846	838	843	848	843	835	841	11
Noon	834	838	841	839	844	839	842	843	835	845	835	834	840	836	823	835	Noon
13	825	833	834	831	841	833	843	844	827	846	834	833	838	837	817	832	13
14	823	827	830	828	835	832	837	846	826	848	831	824	831	826	815	829	14
15	824	826	823	823	832	835	836	848	831	847	827	824	830	827	817	829	15
16	828	831	825	819	834	836	833	845	837	846	831	834	831	833	824	833	16
17	837	841	833	826	840	842	839	851	844	847	838	842	838	840	837	840	17
18	843	847	839	835	844	846	842	848	845	848	841	844	844	843	842	844	18
19	844	848	842	840	847	849	844	850	847	851	842	843	845	845	843	846	19
20	848	851	843	847	854	851	851	849	847	849	843	843	848	847	843	848	20
21	848	851	843	847	854	851	851	849	847	849	843	844	848	847	843	848	21
22	848	847	843	847	854	849	853	851	847	848	843	844	847	846	843	848	22
23	852	847	843	847	856	848	849	845	847	847	844	843	848	845	842	848	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, 1939

Month and day 1939	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	967.2	24.2	2.5	[illegible]	79	23.8	105	4.0	4	18.4	22.8	24.7	22.0	26.3	18.4	7.9	...	...	8.1	72
2	968.8	23.5	1.4	21.5	88	25.6	90	2.7	10	21.1	22.8	24.4	22.3	26.2	20.7	5.5	0.2	0	6.3	56
3	969.7	25.0	2.2	21.8	82	26.1	70	1.3	9	21.3	22.6	24.8	22.0	26.0	20.9	5.1	4.5	30	5.2	46
4	968.8	24.3	2.8	19.9	76	23.2	80	3.1	3	21.3	21.7	23.1	20.8	26.1	20.8	5.3	1.4	15	6.6	58
5	969.0	23.3	4.0	16.8	67	19.1	50	4.5	3	19.0	29.3	24.3	19.0	25.7	18.7	7.0	...	...	9.8	87
6	969.1	23.6	3.3	17.9	70	20.5	180	3.1	7	16.8	20.3	23.3	20.0	25.6	16.5	9.1	0.9	15	10.5	93
7	971.0	21.8	2.9	17.2	75	19.6	110	6.7	5	19.3	19.8	22.0	19.0	23.3	18.5	4.8	1.2	15	10.1	89
8	969.1	21.9	2.0	18.8	83	21.7	110	8.5	4	18.8	20.3	21.8	20.2	22.4	18.6	3.8	1.4	95	7.0	63
9	968.9	22.3	1.1	20.6	90	24.2	110	4.0	9	20.1	20.1	22.3	19.9	23.9	19.9	4.0	1.5	100	3.0	27
10	970.5	22.5	3.3	17.2	72	19.6	100	8.9	3	19.8	20.9	22.5	19.7	23.4	19.7	3.7	3.7	55	10.6	95
11	973.0	21.8	3.9	15.4	67	17.5	100	3.6	4	17.6	19.5	21.6	18.7	22.9	17.6	3.3	0.8	10	9.6	86
12	973.2	20.9	3.4	15.3	70	17.4	90	6.7	7	17.6	18.6	20.1	18.1	22.4	17.6	4.8	3.4	55	7.4	66
13	971.7	21.0	3.1	15.9	73	18.1	90	5.4	5	17.5	17.5	20.7	18.6	23.1	17.4	5.7	3.5	50	8.4	75
14	972.1	21.5	2.6	17.2	77	19.6	80	6.7	6	18.1	19.3	22.1	19.6	23.0	18.1	4.9	1.1	10	8.3	74
15	972.3	22.0	3.0	17.2	74	19.6	70	4.5	6	18.7	18.7	22.5	19.1	24.0	17.8	6.2	1.6	20	9.1	81
16	971.9	21.3	3.4	17.4	79	19.9	90	6.3	9	18.6	19.6	22.5	17.8	23.3	17.7	5.6	...	...	9.4	85
17	971.6	22.2	5.7	12.2	53	14.2	110	4.5	0	17.4	19.9	22.6	18.4	23.6	15.6	8.0	1.4	15	10.6	95
18	970.5	21.9	2.7	17.4	76	19.9	100	4.9	6	17.7	19.1	21.7	18.3	23.3	17.5	5.8	4.3	55	9.8	88
19	969.4	21.2	3.1	16.1	73	18.3	110	2.2	2	17.7	19.7	22.1	18.1	23.2	17.3	5.9	...	...	10.7	96
20	967.8	21.0	2.1	17.6	81	20.1	105	4.5	8	17.3	17.6	22.6	19.6	23.5	17.0	6.5	0.4	5	7.9	71
21	969.0	[illegible]	[illegible]	18.5	75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.3	19.9	24.0	18.6	[illegible]	[illegible]	65	8.8	70
22	968.0	23.2	3.0	18.6	75	21.4	75	2.7	4	16.9	21.0	22.9	19.8	24.9	18.6	6.3	6.7	95	8.2	74
23	970.9	21.0	2.2	17.4	80	19.9	90	4.5	7	19.1	20.4	21.9	19.3	22.6	18.6	4.0	2.0	25	8.9	81
24	970.8	21.3	3.7	15.1	68	17.2	90	8.1	2	18.8	20.1	21.6	17.3	22.7	17.3	5.4	0.1	0	10.2	93
25	971.2	22.1	3.6	16.2	69	18.4	70	3.1	2	16.6	20.6	21.9	18.5	23.4	16.6	6.8	...	...	9.3	85
26	970.1	22.2	3.3	16.8	71	19.1	80	3.6	4	18.1	20.7	22.1	18.6	23.6	17.4	6.2	0.5	5	8.9	81
27	968.2	21.6	2.2	16.4	73	18.7	90	2.2	9	18.4	19.8	22.4	20.6	23.8	17.6	6.2	...	...	1.7	15
28	970.7	22.4	3.5	16.7	70	19.0	85	4.9	5	18.5	20.8	22.7	19.3	23.9	17.4	6.5	0.1	0	10.1	91
29	971.4	22.5	3.2	17.4	73	19.9	100	1.8	3	17.3	20.3	24.1	17.6	25.6	15.8	9.8	...	...	9.8	89
30	970.1	21.2	1.7	18.5	85	21.3	90	0.9	5	16.0	20.8	20.8	18.8	23.9	15.6	8.3	6.8	145	5.0	45
31	968.5	20.9	3.5	18.6	87	21.4	CALM		1	18.0	18.8	21.3	17.7	22.4	16.4	6.0	...	...	10.5	95
Mean	970.0	22.2	2.9	17.5	75.2	20.1	...	4.3	5.1	18.5	20.2	22.5	19.3	23.9	17.9	6.0	50.8	880	8.35	74.9
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	- 6.9 mms
Temperature of the Air	+ 2.9°C	Duration of Bright Sunshine	+ 13.1 hrs.
Vapour Pressure	+ 1.5 mbs	Mean of Maximum Temperatures	+ 2.7°C
Relative Humidity	+ 7.5 %	Mean of Minimum Temperatures	+ 1.7°C
Velocity of Wind	+ 0.5 m.p.s.	Absolute Maximum Temperature	+ 2.2°C
Amount of Cloud	- 0.5	Absolute Minimum Temperature	+ 1.0°C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF M A Y, 1939

Month and Day 1939	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		
MAY	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	min.	mms.	
1	1007.8	- 1.1	28.3	18.1	10.2	23.3	0.0	2.0	20.2	+ 0.3	83	+ 2	23.7	17.0	0.0	...	4.7	3.8
2	1009.4	+ 0.6	28.1	22.0	6.1	24.7	+1.5	1.9	21.9	+ 2.1	85	+ 4	26.3	18.8	0.0	...	4.0	4.8
3	1010.1	+ 1.2	27.9	22.1	5.8	24.7	+1.5	1.7	22.2	+ 2.4	86	+ 5	26.6	19.5	1.0	45	4.1	5.1
4	1009.8	+ 0.8	27.7	21.5	6.2	24.0	+0.9	1.6	21.7	+ 2.0	87	+ 7	26.0	20.0	3.6	95	4.3	5.7
5	1009.8	+ 0.8	27.7	20.1	7.6	23.5	+0.5	2.3	19.9	+ 0.3	80	0	23.2	17.2	0.0	...	3.5	2.9
6	1010.7	+ 1.6	28.5	19.0	9.5	23.3	+0.4	2.8	18.8	- 0.5	76	- 4	21.7	15.4	0.0	...	4.0	3.0
7	1011.7	+ 2.5	26.9	21.4	5.5	23.5	+0.7	3.1	18.7	- 0.5	75	- 5	21.6	18.5	0.0	...	5.2	4.1
8	1010.5	+ 1.2	26.6	21.7	4.9	23.5	+0.8	2.6	19.4	+ 0.2	78	- 2	22.5	19.5	0.0	...	5.1	7.5
9	1009.7	+ 0.4	27.8	22.4	5.4	24.2	+1.6	2.3	20.6	+ 1.6	80	0	24.2	21.4	0.2	10	3.7	7.1
10	1011.7	+ 2.3	26.9	20.5	6.4	24.0	+1.5	3.7	18.1	- 0.9	70	- 10	20.8	18.2	0.3	40	5.2	4.5
11	1013.9	+ 4.4	26.1	20.5	5.6	22.9	+0.5	4.2	16.0	- 2.8	65	- 15	18.2	18.2	0.4	50	6.2	4.0
12	1013.4	+ 3.8	25.7	19.8	5.9	22.1	-0.3	3.1	17.1	- 1.7	73	- 7	19.5	17.5	1.1	60	6.0	6.3
13	1012.9	+ 3.2	26.5	20.1	6.4	22.4	+0.1	2.7	18.1	- 0.6	77	- 3	20.8	18.8	2.9	75	5.2	5.6
14	1013.4	+ 3.7	26.2	20.2	6.0	22.8	+0.5	2.7	18.5	- 0.2	77	- 3	21.3	17.5	4.7	75	4.8	6.5
15	1013.3	+ 3.5	26.0	20.1	5.9	22.5	+0.3	3.0	17.7	- 0.9	74	- 6	20.3	18.4	1.0	40	3.9	4.0
16	1012.7	+ 2.8	26.1	19.3	6.8	21.8	-0.4	3.7	15.7	- 2.9	68	- 12	17.8	17.5	0.0	...	4.8	3.5
17	1012.9	+ 2.9	26.6	17.7	8.9	21.6	[illegible]	3.7	15.5	- 3.0	68	- 12	17.6	14.5	0.0	...	5.5	2.8
18	1012.0	+ 1.9	26.1	19.9	6.2	22.1	+0.1	2.5	18.1	- 0.3	78	- 2	20.8	14.0	5.8	135	4.6	5.9
19	1009.8	- 0.4	26.3	17.5	8.8	21.5	-0.5	2.8	16.9	- 1.5	75	- 5	19.2	13.5	0.0	...	4.2	3.0
20	1007.5	- 2.8	26.7	17.0	9.7	21.6	-0.3	2.9	16.9	- 1.4	75	- 5	19.2	13.0	0.0	...	4.5	3.0
21	1006.9	- 3.5	26.7	20.6	6.1	22.9	+1.0	2.0	19.8	+ 1.5	83	+ 3	23.1	16.0	0.7	25	4.1	5.5
22	1008.9	- 1.5	26.9	20.9	6.0	23.3	+1.5	2.0	20.2	+ 2.0	83	+ 3	23.7	18.8	3.5	65	3.9	4.6
23	1011.6	+ 1.1	26.1	20.7	5.4	22.8	+1.1	2.6	18.9	+ 0.6	78	- 2	21.7	18.8	2.7	75	4.8	6.4
24	1011.8	+ 1.3	25.3	18.4	6.9	22.0	+0.3	2.8	17.5	- 0.8	76	- 4	20.0	15.4	2.0	85	4.9	3.7
25	1011.2	+ 0.6	26.0	17.0	9.0	21.2	-0.5	2.5	17.1	- 1.0	77	- 3	19.5	14.0	1.5	20	4.7	2.9
26	1011.0	+ 0.4	25.6	19.1	6.5	22.1	+0.5	2.3	18.5	+ 0.7	80	+ 1	21.3	16.4	0.4	5	4.1	6.7
27	1010.1	- 0.6	25.9	19.7	6.2	22.5	+0.9	2.2	19.0	+ 1.2	81	+ 2	22.0	17.4	0.2	10	3.7	7.5
28	1011.8	+ 1.1	26.1	18.5	7.6	21.8	+0.2	2.3	18.2	+ 0.5	80	+ 1	20.9	15.2	0.0	...	3.7	5.0
29	1011.8	+ 1.0	26.3	16.6	9.7	21.4	-0.1	2.3	17.7	0.0	80	+ 1	20.3	13.6	0.0	...	4.5	2.5
30	1010.2	- 0.7	25.7	16.7	9.0	20.9	-0.5	1.4	18.7	+ 1.1	88	+ 9	21.6	13.8	11.9	105	3.2	5.0
31	1009.1	- 1.8	25.3	18.8	6.5	21.1	-0.3	2.9	16.4	- 1.2	75	- 4	18.7	15.5	0.0	...	4.7	2.7
Mean	1010.9	+ 1.0	26.6	19.6	7.0	22.6	+0.4	2.6	18.5	- 0.1	77.8	- 2.1	21.4	16.9	43.8 Sum	1005 Sum	4.5	4.7
Average	1009.9	...	25.9	19.1	6.8	22.2	...	2.3	18.6	...	79.9	...	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 M a y, 1939

The weather of this month was markedly anticyclonic and comparatively dry in spite of 18 days of light rainfall.

Pressure was markedly above normal during the greater part of the month : temperature was generally high and humidity often well below the average. The period of the 10th to the 20th was very windy and particularly dry in this respect, and on one day a shortage of as much as 15% of the normal humidity was recorded. Frequent light rainfall was recorded however but the total amount for the month was only 47% of the average. A large percentage of the possible sunshine with consequent large evaporation were other noteworthy features.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF MAY, 1939

Month and Day 1939	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 Feet	WEATHER 0h	3h	6h	9h	12h	15h	18h	21h	24h
MAY	hrs	%	m.p.s	°C	°C	°C	°C	°C									
1	7.9	70	2.2	- 1.1	25.9	26.8	26.8	26.8	bo		b		bc		c	bc	b
2	8.7	77	2.4	- 0.9	25.7	26.8	26.8	26.8		b		bc			c	bc	b
3	8.2	73	2.0	- 1.3	25.9	26.8	26.8	27.0	b		bcro			bc		b	bro
4	7.8	69	3.0	- 0.3	25.8	26.8	26.8	27.1	b		bcro	bc		c	bcro		b
5	11.3	91	2.1	- 1.2	25.6	26.8	26.8	26.9		b		bc				b	
6	7.4	65	3.6	+ 0.3	25.7	26.8	26.8	26.7		bo				bc			b
7	8.3	73	4.9	+ 1.6	25.7	26.8	26.8	26.8		b				bc			
8	6.3	56	4.9	+ 1.6	25.6	26.7	26.6	26.4			bc				c		
9	11.5	94	3.9	+ 0.6	25.6	26.8	26.6	26.5	cro	c				bc			
10	8.3	74	6.5	+ 3.2	25.4	26.8	26.5	26.6		bc		bq				bcq	bcqro
11	9.9	88	5.9	+ 2.6	25.5	26.8	26.5	26.4	bcqro			bcq			bq	bcq	
12	8.5	76	4.9	+ 1.6	25.5	26.7	26.4	26.1	cqro	c				bc			bcro
13	8.8	79	4.1	+ 0.8	25.5	26.7	26.3	25.7	bcro		bc			c	bcro	bc	bcro
14	9.5	85	4.4	+ 1.1	25.4	26.6	26.2	25.6		cro	bcqro			cq		bc	
15	9.8	88	4.1	+ 0.8	25.4	26.7	26.1	25.6		cro	bcro		bc			b	
16	8.6	77	3.6	+ 0.3	25.3	26.7	26.0	25.1		b					bc		
17	9.9	89	3.1	- 0.1	25.3	26.7	25.8	24.8			b			bc		b	
18	8.7	78	4.2	+ 0.8	25.4	26.6	25.6	24.8	cro	bcro	b			bc		bcro	bc
19	10.3	93	2.8	- 0.4	25.3	26.6	25.6	24.8		bc					b		
20	9.0	81	3.0	- 0.2	25.4	26.6	25.5	24.7		b	bc		b		bc		b
21	6.7	60	3.4	+ 0.2	25.5	26.6	25.3	24.7	b		bc	cro			bc		b
22	10.2	92	3.3	+ 0.1	25.4	26.6	25.3	25.0	cro	bcro		b		bc			b
23	9.5	86	4.7	+ 1.5	25.3	26.5	25.3	25.1	bc		c		bc	b	bcro	c	cro
24	9.5	86	4.2	+ 1.0	25.4	26.5	25.3	25.1	oro	c	bc				b		
25	9.3	85	2.7	- 0.5	25.3	26.4	25.3	24.7				b				bcro	cro
26	8.9	81	2.9	- 0.3	25.3	26.2	25.3	24.6	c			bc				cro	bc
27	6.6	60	2.1	- 1.1	25.3	26.2	25.2	24.7	c			c				bc	
28	9.9	90	2.8	- 0.4	25.5	26.3	25.2	24.7			bc				b		bc
29	9.3	85	1.7	- 1.6	25.6	26.2	25.2	24.5	bc		b			bc		b	bo
30	6.2	56	2.2	- 1.1	25.4	26.2	25.2	24.7	bo		b		bco		cro		bc
31	9.0	82	3.4	+ 0.1	25.4	26.2	25.1	24.5	bc					b			
Mean	8.77	78.7	3.51	+0.25	25.49	26.60	25.97	25.60									
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, 1939

Element	Highest	hrs	Date	Lowest	Date
Atmospheric Pressure	1015.5 mbs	at 10.00	on 11th	1005.7 mbs	at 15.00 hrs on 21st
Temperature of the Air ...	28.5°C	at 13.05	on 6th	16.6°C	at 06.45 hrs on 29th
Daily Range of Temperature of the Air	10.2°C		on 1st	4.9°C	on 8th
Temperature of the Dew Point	23.2°C	at 14.00	on 4th	15.4°C	at 06.00 hrs on 30th
Minimum on Grass				13.0°C	on 20th
Relative Humidity	96.8 %	at 18.00	on 30th	48.0 %	at 13.00 hrs on 20th
Vapour Pressure	28.4 mbs	at 14.00	on 4th	17.5 mbs	at 06.00 hrs on 30th
Evaporation in 24 hrs.	6.2 mms		on 11th	3.2 mms	on 30th
Wind Velocity	8.2 mps	at 14.00	on 10th	0.6 mps	at 05.00 hrs on 1st 08.00 hrs on 30th
Rainfall in 24 hrs	11.9 mms ending 20.00		on 30th		
Duration of Sunshine		at 10.5	on 9th	6.2 hrs	on 30th

Mean Day Temperature of Air 24.41°C Average 24.08°C Mean Night Temperature of Air 20.90°C Average 20.58°C

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
...	9	18	4	...	6	10	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 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).

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	085	091	102	103	108	110	125	113	103	108	138	143	132	132	147	138	Midnight
1	078	089	102	101	104	109	123	110	101	103	137	141	128	130	143	130	1
2	074	084	101	095	103	102	120	108	098	103	130	138	123	127	140	127	2
3	071	082	098	091	101	098	115	106	090	103	129	133	118	120	134	123	3
4	068	080	098	090	098	098	115	102	088	104	129	130	118	120	130	120	4
5	067	082	098	089	094	098	115	101	087	104	139	132	120	120	130	120	5
6	070	087	103	092	095	100	119	103	088	109	134	139	125	125	130	125	6
7	076	095	107	097	101	098	125	110	092	113	141	142	130	129	134	129	7
8	080	100	109	102	105	105	129	115	100	120	148	146	133	134	140	132	8
9	085	107	113	107	108	110	130	118	102	122	152	150	140	140	144	138	9
10	186	107	114	109	108	112	128	119	103	125	155	150	140	142	145	137	10
11	080	103	110	102	101	107	124	115	102	122	150	143	138	140	140	131	11
Noon	075	097	103	097	093	102	117	109	093	117	143	140	131	137	133	123	Noon
13	070	093	097	090	083	097	113	101	090	110	135	130	125	130	125	123	13
14	067	088	089	088	080	093	107	095	083	107	130	120	120	127	120	115	14
15	065	086	084	085	079	092	106	091	080	107	128	118	118	125	118	113	15
16	170	084	086	087	080	097	107	092	085	110	127	120	118	127	118	113	16
17	073	088	088	088	083	103	108	093	090	115	128	122	122	130	118	118	17
18	080	092	094	091	090	109	109	098	097	120	136	125	124	135	120	120	18
19	087	097	098	098	096	117	115	102	100	123	137	130	128	140	125	123	19
20	091	103	103	106	102	126	118	107	110	129	143	133	135	147	133	138	20
21	093	108	107	110	108	130	120	107	111	137	145	137	140	150	139	137	21
22	093	108	106	110	109	130	118	106	113	139	145	136	141	151	140	140	22
23	092	107	104	109	112	130	115	103	111	140	145	135	139	150	139	139	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	138	130	119	095	070	082	112	128	118	117	100	116	130	118	102	115	Midnight
1	138	130	119	095	070	082	112	128	118	117	100	116	130	118	102	115	
2	130	124	110	086	068	078	110	123	113	110	097	113	120	110	098	108	2
3	127	120	105	080	061	073	108	117	110	109	092	109	118	105	092	104	3
4	123	118	100	077	058	072	109	117	109	109	090	107	115	103	088	103	4
5	125	117	101	076	060	075	109	117	107	109	090	107	115	102	097	103	5
6	130	119	103	078	066	080	113	120	109	110	095	113	118	105	092	106	6
7	134	123	107	082	070	085	128	122	113	113	102	118	123	110	097	111	7
8	140	127	110	088	075	090	120	123	118	119	106	123	120	116	100	115	8
9	143	130	113	090	078	094	126	127	122	123	110	127	130	118	105	119	9
10	142	130	113	089	080	092	128	129	122	120	110	124	131	117	102	120	10
11	140	127	105	080	075	090	122	123	120	117	105	120	124	110	096	115	11
Noon	130	117	098	073	070	089	120	117	116	113	100	116	120	102	090	109	Noon
13	122	112	090	064	060	080	112	111	109	106	093	110	113	093	080	102	13
14	117	110	084	060	058	080	110	108	103	100	090	105	110	088	076	98	14
15	113	108	080	059	057	082	108	107	100	095	090	109	106	083	073	96	15
16	113	110	080	059	060	084	104	108	099	115	090	110	105	083	076	97	16
17	117	110	082	061	063	090	108	109	101	118	093	113	107	085	078	100	17
18	120	112	083	063	069	093	112	111	104	100	097	118	110	089	081	103	18
19	125	115	088	068	075	098	116	116	109	105	105	125	115	092	088	108	19
20	130	120	093	072	080	107	123	121	112	108	110	130	119	098	097	114	20
21	134	123	096	073	080	110	127	121	115	110	117	136	120	100	100	117	21
22	133	123	098	073	082	112	129	121	118	110	118	135	120	103	100	118	22
23	132	122	098	072	081	112	128	120	117	108	117	134	120	103	098	117	23

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

Hour \ Day	MAY, 1939																														
	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	2	2	3	3	1	1	5	9	5	2	4	4	9	5	1	2	5	4	1	2	5	5	10	0	7	6	4	5	0	5	3.8
1	0	3	2	3	3	1	1	5	9	5	5	8	5	9	6	1	2	7	3	1	3	8	7	10	0	7	6	4	5	0	4	4.3
2	0	1	4	3	1	0	2	3	9	6	3	8	5	9	8	1	3	10	3	1	3	10	7	10	1	2	9	5	5	0	3	4.5
3	1	3	3	4	1	0	2	6	9	7	5	8	7	8	7	2	3	10	5	1	4	9	8	8	1	8	9	4	3	0	5	4.9
4	1	3	5	5	1	0	2	7	9	6	4	8	7	5	7	2	2	9	5	1	4	7	8	8	1	8	8	5	3	1	4	4.7
5	1	2	9	5	1	0	3	8	9	8	4	7	6	6	8	2	3	6	4	2	5	6	9	8	1	7	8	5	3	2	2	4.8
6	2	3	9	8	2	0	3	7	9	8	4	8	4	9	8	3	3	5	4	2	5	4	9	8	2	5	8	5	1	2	2	4.9
7	2	3	6	7	4	1	5	7	7	6	4	8	5	7	5	3	2	4	4	4	6	4	8	5	2	4	8	5	1	1	2	4.5
8	2	4	6	6	6	1	6	6	7	4	4	8	6	6	3	2	2	4	4	6	7	3	8	1	1	4	8	6	1	1	2	4.4
9	3	5	6	6	8	1	7	6	6	8	4	7	7	5	2	2	1	3	4	8	8	3	7	1	1	3	8	6	1	1	2	4.3
10	7	6	6	5	5	4	5	7	6	2	3	6	5	5	4	4	3	3	4	4	10	3	5	2	1	5	8	6	3	4	2	4.6
11	7	7	7	5	5	5	6	7	6	3	3	6	6	5	4	5	3	4	3	2	8	3	4	1	2	7	8	6	3	8	2	4.9
Noon	6	6	6	4	4	9	5	8	7	3	4	6	8	5	5	5	5	5	3	1	6	4	3	1	3	8	9	6	4	8	2	5.1
13	7	7	6	10	4	7	6	8	7	3	4	5	8	6	5	3	5	6	3	2	7	5	2	2	3	8	9	6	4	10	3	5,5
14	7	7	6	10	5	6	8	8	7	3	4	5	8	6	5	5	4	9	3	3	7	6	3	2	4	8	9	6	5	8	3	5.8
15	8	9	6	8	5	4	4	8	7	3	5	5	8	8	2	5	4	7	2	3	7	6	2	2	4	7	7	6	5	7	3	5.4
16	8	9	6	10	3	6	8	9	7	3	4	4	7	7	2	4	3	5	3	4	7	5	4	2	4	3	7	4	4	9	3	5.1
17	8	9	5	6	3	7	3	9	7	4	3	4	5	6	2	3	3	6	2	4	6	5	6	2	3	4	7	2	3	9	3	4.8
18	8	8	5	5	2	7	3	8	7	5	3	4	3	4	2	4	2	5	2	7	6	4	7	2	3	5	7	1	2	10	3	4.7
19	5	5	4	5	1	5	4	9	7	6	3	5	3	6	2	5	2	6	2	6	5	3	8	2	3	8	7	2	2	9	3	4.6
20	2	5	3	6	1	3	4	9	6	6	4	8	3	7	2	7	2	6	2	3	5	3	8	2	4	9	7	5	2	7	2	4.6
21	2	3	3	6	1	2	5	9	6	3	6	7	3	6	1	7	2	7	2	2	3	2	7	2	6	9	6	7	0	10	2	4.4
22	2	3	3	4	1	2	4	9	5	5	4	6	3	6	1	5	2	5	1	1	3	2	8	2	8	9	5	6	0	6	1	3.9
23	2	3	2	3	1	1	4	9	5	4	5	6	7	6	1	4	4	5	1	1	4	1	8	1	9	9	5	6	0	6	1	4.0

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

Hour Ending \ Day	MAY, 1939																															
	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	30	15	20	0	26	30	8	0	22	22	30	0	0	7	2	0	2	0	10	15	3	18	0	0	8	9	5	6	17	15	18	5.1
8	60	55	60	27	60	60	58	49	60	60	53	5	53	39	50	12	42	57	60	29	40	60	53	28	60	57	44	50	60	60	60	25.3
9	60	60	60	49	60	60	60	56	60	60	60	46	56	56	60	46	60	60	60	12	30	60	60	60	60	60	33	60	60	60	60	28.4
10	60	60	60	60	60	60	57	53	60	60	60	60	36	60	60	56	60	60	60	60	46	60	44	60	60	60	60	60	60	60	60	29.9
11	45	60	45	60	60	56	40	56	60	60	60	38	50	60	56	48	60	60	60	60	21	60	60	60	60	55	60	60	60	55	60	28.4
Noon	55	45	38	60	60	34	28	46	60	60	60	57	39	60	60	55	60	60	60	60	50	60	60	60	60	22	30	60	29	24	60	26.2
13	60	16	30	60	60	37	28	14	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	40	1	60	50	17	60	25.9
14	60	45	60	47	60	19	57	30	60	53	60	60	60	60	60	60	60	53	60	60	54	60	60	60	39	55	4	60	60	8	38	26.3
15	29	49	60	48	60	44	60	34	60	54	60	60	60	58	60	54	60	30	60	60	42	60	60	60	40	60	51	60	60	49	42	27.4
16	17	60	31	15	49	19	60	33	60	8	57	60	60	49	58	60	60	27	60	60	55	60	60	60	50	58	49	60	43	15	19	23.9
17	0	33	30	32	58	19	39	4	56	4	54	56	52	54	56	57	60	43	58	56	0	52	51	57	52	56	58	50	54	7	54	21.8
18	0	26	0	10	6	3	2	0	10	0	8	8	6	5	7	7	9	12	12	7	0	5	0	5	10	4	2	5	6	0	10	3.1
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)

MAY, 1939

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	19.5	1.0	22.4	1.0	23.0	0.9	23.3	0.7	21.4	1.3	20.2	1.0	22.9	2.2	22.1	2.3	Mid-night
1	19.3	1.1	22.2	0.9	22.7	0.9	23.0	0.6	21.4	1.3	20.0	1.0	22.5	2.1	22.3	2.6	1
2	18.8	1.1	22.3	0.8	22.7	0.8	23.0	0.8	20.8	1.0	19.9	1.2	22.1	1.9	22.3	2.7	2
3	18.7	1.1	22.8	0.8	22.4	0.8	22.4	0.7	21.0	1.0	19.7	0.9	21.9	1.8	22.3	2.7	3
4	18.7	1.0	23.0	1.0	22.5	0.8	22.3	0.6	21.5	1.3	19.2	1.0	21.9	1.9	21.7	2.2	4
5	18.3	1.0	23.2	1.0	22.3	0.7	22.4	0.5	20.6	1.0	19.0	1.0	21.7	1.9	22.0	2.6	5
6	18.2	1.0	22.7	0.9	23.1	0.7	22.7	0.5	20.7	1.0	19.2	1.0	21.8	2.2	22.0	2.2	6
7	19.2	1.2	23.2	0.9	23.6	0.7	23.0	0.7	21.3	1.3	19.2	0.9	21.8	2.2	22.0	2.3	7
8	23.3	1.1	25.1	1.6	25.2	1.6	24.2	1.1	24.0	2.0	22.0	1.5	23.8	3.2	24.0	3.5	8
9	26.2	2.9	26.0	2.2	26.1	2.1	25.5	2.1	25.0	2.9	25.1	2.4	25.0	4.3	24.8	3.7	9
10	27.2	3.7	27.1	3.4	27.0	2.9	26.6	3.1	26.0	1.2	26.4	4.2	25.8	4.5	25.2	3.4	10
11	26.8	3.4	27.5	3.5	26.5	2.6	27.1	3.3	26.7	4.4	27.4	4.9	26.0	4.5	25.6	3.7	11
Noon	27.2	3.3	27.6	4.0	26.6	2.7	27.2	3.9	26.6	4.1	27.7	4.9	26.8	5.1	26.0	4.0	Noon
13	27.7	4.3	26.0	2.7	27.6	3.6	27.6	4.2	27.3	4.8	28.3	5.7	26.3	5.3	25.5	3.5	13
14	27.6	4.1	27.0	3.3	27.8	3.8	23.2	1.3	27.1	4.2	27.6	5.0	26.7	4.8	25.7	3.9	14
15	27.0	4.0	27.0	3.0	27.8	3.6	25.0	1.5	27.1	4.4	26.7	4.7	26.3	4.8	25.5	3.4	15
16	26.5	3.3	27.5	3.8	26.8	3.1	23.8	0.8	26.7	4.1	25.7	4.2	25.0	3.7	24.9	3.0	16
17	26.0	2.7	26.3	2.9	26.0	2.5	24.7	1.5	26.1	3.4	25.0	3.7	24.0	3.5	23.4	1.7	17
18	25.0	1.9	25.1	1.9	25.0	1.8	23.9	1.4	25.5	3.2	23.9	3.1	22.9	3.1	23.0	1.8	18
19	24.2	1.4	24.2	1.6	24.2	1.3	23.6	1.3	23.1	1.6	23.6	2.9	22.0	2.3	23.0	1.9	19
20	23.9	1.3	24.0	1.3	23.7	1.1	23.0	1.7	22.4	1.5	23.6	3.3	22.1	2.4	22.5	1.2	20
21	23.3	1.1	23.6	1.3	23.5	1.2	22.7	1.7	21.3	1.1	23.3	3.1	22.2	2.5	22.7	1.4	21
22	22.8	1.0	23.3	1.1	23.4	1.0	22.3	1.7	21.0	0.9	23.0	2.6	21.7	2.6	23.0	1.8	22
23	22.8	1.0	23.3	1.1	23.5	0.9	21.9	1.5	20.4	0.7	23.3	2.5	22.0	2.3	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	22.9	1.2	23.3	2.6	20.5	1.3	21.3	2.9	20.5	1.3	20.3	1.0	21.8	2.1	20.5	2.3	Mid-night
1	23.1	1.3	23.3	3.2	20.6	1.4	20.9	2.8	20.6	1.6	20.3	1.1	21.7	2.0	20.4	2.6	1
2	22.8	1.0	23.3	3.3	21.0	2.4	20.2	1.7	20.4	1.5	20.5	0.5	21.2	1.7	20.4	3.0	2
3	22.7	1.0	23.2	3.3	21.3	3.1	19.9	2.2	20.7	1.9	20.3	1.0	21.3	1.2	19.7	1.9	3
4	22.7	0.9	23.1	3.3	21.3	3.0	20.3	2.4	20.6	1.9	20.2	1.0	20.7	1.1	20.3	1.7	4
5	22.6	0.9	23.2	3.3	21.3	3.0	20.3	2.2	20.5	1.8	20.5	1.3	20.8	1.4	20.0	1.6	5
6	22.6	1.1	23.3	3.4	21.5	3.1	20.3	2.0	20.5	1.9	21.0	1.5	20.6	1.3	19.6	1.7	6
7	22.7	1.2	23.2	3.3	21.4	2.7	20.4	2.2	20.5	1.5	21.1	1.4	21.2	1.6	19.9	2.1	7
8	23.5	1.7	24.3	4.2	23.1	3.9	22.0	3.0	23.0	2.9	22.5	2.0	23.2	3.5	21.2	2.8	8
9	24.4	2.4	25.1	5.1	23.5	4.5	23.7	4.3	23.7	3.5	24.0	3.4	24.5	4.5	24.2	5.2	9
10	26.1	3.1	26.0	5.2	25.0	6.0	24.4	5.1	24.1	3.9	25.0	4.0	24.6	4.4	23.9	4.7	10
11	27.1	4.1	26.4	5.6	25.7	6.7	24.0	4.2	25.0	4.2	25.1	3.6	24.5	4.5	24.2	4.7	11
Noon	27.7	4.7	26.6	5.6	26.1	6.7	24.9	5.2	25.5	4.5	25.9	5.0	25.6	5.1	25.3	6.0	Noon
13	27.1	3.8	26.7	5.6	25.9	6.6	24.8	4.8	25.8	5.0	25.5	4.5	25.5	5.3	25.3	5.8	13
14	26.8	3.8	26.4	5.4	25.6	6.1	25.4	5.2	25.9	5.1	25.2	4.4	25.7	5.7	25.4	6.1	14
15	26.8	3.8	26.0	4.7	25.0	6.0	25.0	5.5	25.0	4.0	25.0	4.6	25.3	5.8	24.9	6.7	15
16	25.0	2.8	25.4	4.5	24.6	5.8	24.3	4.6	25.0	4.8	24.7	4.0	24.8	5.3	24.5	6.5	16
17	24.1	2.7	24.7	3.9	23.4	4.9	23.3	4.0	22.9	2.6	24.2	3.6	23.8	4.6	23.1	5.9	17
18	23.6	2.5	23.4	3.0	22.3	4.1	21.8	2.4	22.0	2.2	23.3	2.9	22.0	2.8	21.5	4.9	18
19	23.4	2.2	23.0	2.9	22.1	4.4	21.2	2.2	21.8	2.6	22.3	2.6	21.0	2.1	19.6	2.6	19
20	23.4	2.2	23.0	2.3	22.3	4.2	22.2	2.0	21.3	1.6	22.5	2.7	20.5	1.7	19.6	1.9	20
21	23.0	2.0	22.6	2.4	22.4	3.7	20.6	1.4	21.4	1.9	22.1	2.3	20.2	1.8	20.1	2.9	21
22	22.7	1.6	21.5	2.3	21.7	3.1	21.0	1.6	20.7	1.0	22.0	2.4	20.3	2.0	19.7	2.6	22
23	23.2	2.2	20.9	1.3	20.7	2.8	20.2	1.9	20.6	1.0	21.9	2.3	20.4	2.0	20.0	3.1	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)

MAY, 1939

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	19.0	2.6	20.2	1.3	20.6	1.6	18.1	1.1	20.6	1.3	21.0	1.2	22.1	1.4	21.4	0.9	Mid-night
1	17.8	2.1	20.3	1.2	20.0	1.6	17.7	1.3	21.0	1.2	21.3	1.3	22.0	1.2	21.1	0.9	1
2	19.7	2.7	20.3	0.6	18.9	1.3	17.0	1.0	21.1	1.3	21.4	0.6	21.9	1.0	21.0	0.9	2
3	19.0	2.0	20.2	0.9	18.3	1.3	17.3	1.0	21.5	1.6	21.3	0.7	21.5	1.5	21.2	1.2	3
4	18.3	2.3	20.6	1.1	17.8	1.1	17.3	1.0	22.0	1.9	21.3	0.7	21.6	1.4	21.4	1.5	4
5	18.3	2.3	20.1	1.0	18.7	1.4	18.0	1.2	21.8	1.7	21.7	0.9	21.6	1.4	21.2	1.7	5
6	18.6	2.1	20.2	1.4	17.8	1.4	18.0	1.5	21.3	1.3	21.2	0.9	21.8	1.0	21.1	1.8	6
7	19.6	2.8	19.9	1.2	17.8	1.2	17.4	1.1	21.4	1.4	21.2	0.9	21.3	1.7	21.0	2.1	7
8	22.2	3.8	22.6	2.6	22.0	2.2	21.5	1.9	23.5	2.5	22.7	1.0	23.3	3.2	22.6	3.1	8
9	24.5	5.5	23.9	3.4	24.0	3.7	22.8	2.5	24.0	2.7	24.7	2.4	24.5	3.7	23.7	4.1	9
10	24.9	6.9	24.7	4.2	24.6	4.4	25.0	5.2	23.3	2.1	25.3	2.4	24.0	3.1	24.2	4.6	10
11	25.3	6.3	25.4	4.9	25.8	4.8	25.8	5.3	24.7	2.7	26.4	3.9	25.3	5.0	24.8	5.0	11
Noon	25.0	5.8	25.9	5.0	26.2	5.7	26.2	6.2	25.6	3.4	26.0	3.5	25.6	6.6	24.9	5.2	Noon
13	25.7	6.5	25.8	5.3	25.9	5.3	26.4	7.2	26.3	4.1	26.2	4.2	25.7	6.2	25.1	5.2	13
14	25.3	6.0	24.0	3.0	25.8	5.6	26.2	6.1	26.4	4.3	26.3	4.0	25.7	5.0	25.0	5.2	14
15	24.8	5.6	24.5	4.2	25.5	5.5	25.8	5.2	24.7	2.6	26.0	3.8	25.3	4.7	24.9	5.4	15
16	24.8	5.3	22.3	2.1	24.7	5.3	25.4	4.6	24.7	2.7	25.4	3.3	24.8	4.0	24.2	4.9	16
17	23.7	4.9	22.6	3.0	23.5	4.0	24.3	3.8	23.6	2.1	24.0	2.3	23.3	2.1	23.1	3.9	17
18	22.0	3.3	21.6	2.3	21.5	2.5	23.0	3.0	22.7	1.7	23.0	1.7	21.7	1.5	21.3	2.3	18
19	20.8	2.8	21.2	2.3	20.7	2.4	22.2	2.5	22.0	1.2	22.7	1.5	21.7	1.3	20.5	2.2	19
20	20.0	2.5	21.3	2.2	20.2	2.2	21.5	2.1	21.6	1.0	22.3	1.5	21.6	1.5	19.7	1.8	20
21	19.0	2.0	20.6	1.5	20.0	2.0	20.7	1.8	21.5	1.0	22.3	1.5	21.4	1.2	19.2	1.5	21
22	19.5	1.5	20.5	1.5	19.1	1.5	20.1	1.6	21.4	1.0	22.3	1.0	21.5	1.2	18.2	1.5	22
23	20.7	1.8	20.6	1.6	18.8	1.5	20.1	1.2	21.7	1.1	22.4	1.7	20.9	0.8	18.6	1.4	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	18.6	1.4	20.1	1.1	20.3	0.6	20.2	1.1	20.6	1.2	18.4	1.1	20.4	1.1	20.9	1.4	Mid-night
1	18.2	1.2	20.5	1.4	20.5	0.7	19.7	1.1	19.6	1.1	17.9	1.0	20.1	1.2	20.7	1.4	1
2	17.7	1.1	20.1	1.4	20.6	0.6	20.1	1.3	19.0	1.1	17.7	1.0	19.7	1.1	20.6	1.4	2
3	17.5	1.1	20.1	1.3	20.3	0.6	19.9	1.2	18.3	1.0	17.3	1.0	20.0	1.8	20.4	1.4	3
4	17.0	0.8	20.0	1.2	20.2	0.8	19.1	1.1	17.5	1.0	17.2	0.9	19.8	1.8	20.4	1.4	4
5	17.1	0.9	20.1	1.4	19.7	0.9	18.7	1.1	17.1	0.9	17.0	0.8	19.9	2.2	20.3	1.4	5
6	17.3	1.0	20.0	1.8	20.1	0.8	18.5	1.1	17.0	0.8	16.8	0.8	19.2	2.0	20.3	1.5	6
7	17.2	1.0	19.3	1.4	20.5	0.8	18.7	0.8	16.7	0.7	17.0	0.8	18.8	1.8	20.4	1.5	7
8	21.3	1.6	22.3	2.2	22.6	1.6	22.0	1.8	20.8	1.3	21.6	1.6	21.2	3.2	22.8	1.4	8
9	23.7	3.3	24.1	3.9	23.2	2.3	23.7	2.9	23.9	3.2	23.4	2.6	23.0	4.5	24.3	3.4	9
10	24.9	5.1	24.5	4.1	24.4	3.4	24.3	3.5	25.0	4.5	25.2	4.0	23.5	4.7	25.1	4.1	10
11	25.3	4.8	24.5	4.0	25.2	4.1	25.6	5.1	25.3	5.0	25.0	3.5	24.0	4.5	25.6	4.4	11
Noon	25.5	4.8	24.7	4.7	25.0	4.2	25.0	4.3	25.5	4.3	24.9	2.4	24.7	5.2	25.9	4.7	Noon
13	25.0	5.5	25.1	4.5	25.0	4.4	25.5	4.5	25.9	4.5	24.7	2.9	24.2	4.9	26.0	4.9	13
14	25.2	5.0	25.0	4.4	25.2	4.1	25.0	4.2	26.1	4.1	23.4	0.9	23.8	4.4	25.8	4.5	14
15	24.5	4.6	24.8	4.0	25.7	4.2	25.2	4.7	25.7	4.4	24.0	2.0	23.5	4.3	25.5	4.4	15
16	23.6	4.0	24.6	3.8	25.0	4.7	24.2	4.0	25.4	3.4	22.5	0.9	23.0	3.6	24.8	3.9	16
17	23.3	4.1	23.5	2.9	24.2	3.9	23.5	3.2	24.7	3.2	22.1	1.2	22.5	3.3	24.0	3.3	17
18	21.4	2.4	22.2	1.7	23.4	2.7	22.4	2.3	22.9	2.6	21.0	0.3	20.8	2.0	22.7	2.4	18
19	20.7	1.9	21.3	1.3	23.0	2.2	21.3	1.9	21.4	2.1	20.9	0.7	20.5	2.3	22.0	2.0	19
20	20.4	1.5	21.3	1.3	22.6	1.8	21.1	1.7	20.2	1.4	20.8	0.6	20.0	2.5	21.7	1.8	20
21	20.3	1.3	21.0	0.8	21.7	1.7	20.7	1.4	19.2	1.2	20.8	1.0	19.1	2.0	21.4	1.8	21
22	21.2	1.6	21.0	0.9	21.2	1.3	20.0	1.2	19.0	1.3	20.8	0.8	17.9	1.5	21.1	1.6	22
23	20.8	1.0	20.6	0.9	20.6	1.2	19.2	1.0	18.5	1.2	20.5	0.8	17.5	1.5	21.0	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 M A Y, 1 9 3 9.

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 Y, 1 9 3 9

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	10	1.2	10	1.1	10	1.6	08	1.8	07	1.2	10	1.6	12	4.4	12	4.4	12	3.7	11	4.9	10	7.2	11	3.5	11	4.3	09	3.0	09	2.8	09	3.8
1	10	0.9	10	1.7	11	0.9	08	2.5	08	2.1	11	0.9	12	3.6	12	4.8	11	3.9	12	6.5	09	5.5	09	4.3	10	3.7	08	2.7	09	2.4	09	3.8
2	10	0.8	11	1.1	11	1.8	11	1.7	08	1.1	11	2.6	12	2.4	11	4.7	11	3.4	12	6.4	11	5.2	09	4.3	11	3.7	12	1.5	08	3.1	10	3.2
3	10	1.1	12	1.2	10	1.3	11	1.7	08	1.9	11	1.8	13	2.7	11	3.6	10	3.1	12	6.0	11	6.2	10	4.7	09	3.7	11	2.8	08	3.9	10	3.0
4	10	1.1	12	1.6	12	1.3	11	1.9	07	1.7	11	1.3	13	2.2	11	3.5	11	2.8	12	5.6	11	5.1	09	4.2	11	3.3	10	2.3	09	4.8	10	3.6
5	10	0.6	12	0.7	12	0.8	11	2.2	08	1.4	11	2.1	13	2.3	12	4.7	12	3.5	12	5.8	09	4.6	10	3.3	10	3.2	10	2.7	09	4.4	09	3.7
6	10	0.9	12	1.5	08	1.3	10	2.0	08	1.5	11	2.3	12	2.5	12	4.5	12	2.4	12	5.9	10	6.1	09	3.1	08	3.4	11	2.7	09	4.1	09	3.0
7	10	1.5	12	1.6	10	1.8	09	1.8	08	1.3	11	1.6	12	2.1	12	4.4	12	2.7	12	5.5	12	5.5	11	3.1	08	3.2	09	3.2	08	4.8	09	2.0
8	10	1.0	11	2.9	11	2.1	08	3.0	08	1.6	11	1.2	12	4.4	11	4.6	12	3.3	12	5.8	10	6.8	09	5.0	09	3.7	09	4.3	08	4.4	08	4.4
9	09	3.6	11	3.4	09	2.8	08	3.6	06	2.7	18	2.0	12	6.5	11	5.0	13	4.6	12	7.1	09	6.2	11	5.5	09	4.1	08	6.3	10	5.5	09	5.4
10	13	4.1	11	4.2	06	2.2	07	3.0	04	4.1	16	1.8	12	7.4	12	5.5	12	4.6	12	6.9	08	7.5	10	5.9	12	5.0	09	6.8	09	6.2	09	5.2
11	10	4.0	11	3.6	07	2.2	06	4.8	05	3.9	d21	2.5	11	7.2	11	6.8	09	3.7	11	7.4	10	8.1	11	6.3	10	6.0	09	7.4	10	6.0	08	4.9
Noon	10	4.6	09	3.1	06	3.1	08	4.9	06	3.6	14	4.2	12	7.2	12	7.1	11	4.3	09	7.7	09	7.7	11	6.7	08	5.5	08	7.0	08	5.7	08	5.2
13	11	4.4	09	4.4	07	3.2	07	4.5	03	3.8	14	6.0	11	6.9	10	6.0	12	5.2	12	8.0	09	7.5	09	6.2	08	6.0	08	7.1	08	5.6	08	5.2
14	08	4.3	11	3.9	08	2.8	08	4.8	02	3.3	12	6.0	12	6.2	10	6.7	12	5.8	12	8.2	08	8.2	10	6.5	11	5.6	08	6.3	09	5.9	09	5.2
15	08	3.4	09	3.7	10	2.8	06	4.9	02	2.1	11	7.4	12	7.8	11	5.6	12	6.1	11	7.6	08	7.2	12	6.6	11	5.2	08	6.0	08	5.5	09	5.0
16	08	3.1	12	3.9	08	2.6	04	3.1	04	1.8	12	7.4	11	6.5	11	5.8	12	5.1	12	7.6	09	7.0	09	6.5	09	5.5	08	6.5	08	5.0	08	5.7
17	09	3.0	10	3.0	08	3.0	06	3.0	30	1.8	12	7.0	11	6.4	10	4.8	12	4.5	10	5.9	08	5.9	09	5.3	10	3.6	08	5.1	08	3.9	09	3.3
18	10	2.1	10	2.6	08	1.8	07	2.7	30	1.1	11	6.0	12	5.6	11	4.4	12	4.6	10	5.2	09	4.6	10	4.4	10	2.7	08	4.6	09	2.6	10	2.0
19	10	1.3	10	1.7	09	1.6	07	3.5	30	0.8	11	5.3	11	4.4	11	4.1	12	3.4	10	4.4	09	5.2	10	4.4	11	3.8	08	3.3	09	1.9	10	1.8
20	10	0.8	10	1.7	09	1.5	07	3.1	30	1.6	13	3.8	12	6.2	11	4.2	12	3.6	12	6.6	08	6.1	11	4.5	10	3.2	08	4.1	09	1.4	11	1.8
21	10	1.5	11	1.6	09	1.4	07	2.8	d11	1.8	13	2.4	12	4.4	11	4.4	11	3.1	12	6.0	09	5.2	12	4.8	11	4.1	08	4.5	10	2.1	11	2.3
22	10	1.7	11	1.3	10	1.8	07	2.6	11	1.6	13	3.6	12	4.5	12	4.2	12	1.8	12	6.6	11	4.0	09	4.3	08	3.7	08	3.0	10	3.0	11	2.0
23	10	1.3	10	1.6	10	1.5	07	1.5	11	1.8	12	5.3	12	3.5	12	3.9	12	3.5	11	6.5	11	2.6	12	4.4	11	3.4	09	3.2	09	3.3	11	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	10	1.9	11	1.8	11	2.5	10	1.6	10	1.9	10	2.5	09	4.6	08	4.7	09	2.2	10	1.9	11	2.0	10	1.6	11	1.7	11	1.9	12	2.0	2.8
1	10	1.9	11	2.2	11	2.0	12	1.8	10	1.9	11	2.1	09	4.5	08	4.5	08	1.9	11	3.0	10	2.4	10	1.5	11	1.6	11	1.8	12	2.5	2.8
2	11	2.3	11	1.9	11	1.3	11	2.0	11	2.6	08	1.6	09	5.5	08	3.8	11	2.1	09	2.5	06	1.9	09	2.3	11	1.7	11	1.1	12	2.4	2.7
3	11	2.3	13	3.8	14	1.5	11	1.6	11	2.1	12	1.1	10	4.2	09	3.8	11	2.3	10	2.5	09	1.4	10	2.2	11	1.5	10	1.2	12	3.9	2.7
4	11	2.1	11	4.0	14	1.8	11	2.1	12	2.6	12	1.0	11	3.1	09	4.2	11	2.0	11	1.5	09	2.0	10	1.3	11	1.3	11	1.2	12	4.3	2.6
5	11	1.8	10	2.0	14	2.2	11	1.7	11	2.5	10	2.0	09	3.1	09	4.1	11	2.2	11	2.0	09	2.2	10	1.3	11	1.4	11	1.6	12	4.8	2.6
6	11	2.0	11	3.5	14	0.8	11	0.7	12	1.8	10	1.8	09	3.8	09	4.1	11	1.8	09	1.6	09	2.3	10	1.1	11	1.5	11	0.8	12	3.0	2.5
7	11	2.5	10	2.4	14	1.0	16	1.6	10	2.6	09	2.3	10	3.5	09	5.0	11	1.9	09	2.2	09	2.3	10	1.2	11	1.8	11	1.2	10	1.8	2.6
8	11	3.1	11	3.7	14	1.7	13	2.0	11	3.8	10	2.5	09	4.4	08	5.3	11	1.7	09	1.9	10	2.3	10	1.4	11	0.7	11	0.6	12	4.5	3.2
9	09	3.9	12	4.9	11	3.7	14	2.8	11	3.7	11	3.1	09	5.4	08	5.9	09	2.2	06	3.3	09	3.5	09	3.4	10	1.9	12	1.4	12	4.0	4.1
10	11	4.9	11	5.6	09	4.9	12	5.2	09	5.4	08	3.6	08	6.3	08	7.2	08	2.9	07	4.3	09	3.3	09	4.6	10	2.2	14	1.8	10	5.0	4.8
11	08	5.4	12	5.5	09	5.3	08	5.1	11	4.7	09	4.0	11	7.1	08	6.3	09	3.8	07	4.8	09	3.4	09	5.1	08	4.9	d21	1.8	10	4.2	4.9
Noon	11	5.2	11	5.9	11	4.5	11	5.1	10	5.4	08	4.1	08	7.1	08	5.6	08	3.7	09	4.4	06	2.6	08	5.6	d22	2.1	21	1.3	11	4.1	5.0
13	10	5.5	12	6.1	11	4.7	10	5.2	10	5.4	09	4.0	10	6.4	08	5.5	09	4.4	08	4.0	10	2.4	09	5.0	24	2.8	29	1.2	10	5.4	5.1
14	10	5.5	08	5.3	12	4.6	09	4.7	09	5.5	06	4.6	11	5.8	10	5.4	08	4.4	08	4.0	09	2.9	08	5.9	22	2.7	30	1.5	08	3.5	5.0
15	10	4.9	10	6.1	11	4.9	09	4.7	10	5.3	12	4.7	09	5.5	09	4.8	09	4.4	06	3.7	06	2.9	10	5.3	24	2.0	31	1.2	12	4.3	4.9
16	10	4.6	12	4.9	11	4.3	10	5.0	08	4.5	11	4.5	09	6.0	08	5.0	08	4.1	07	3.9	10	1.9	09	5.0	27	2.3	d12	2.3	10	4.1	4.7
17	12	4.0	12	4.4	10	4.4	12	4.4	10	3.2	11	4.4	09	4.4	09	3.6	08	3.0	09	3.3	10	1.7	09	4.2	29	1.1	10	4.1	10	3.4	4.0
18	12	1.8	12	4.4	10	2.3	12	3.9	09	3.1	11	3.5	08	3.8	09	2.9	08	1.8	09	2.6	10	0.7	09	2.0	d10	1.1	09	4.7	12	2.7	3.2
19	12	1.1	12	3.6	10	1.6	12	2.1	10	2.9	10	4.4	10	3.6	09	2.5	08	2.1	11	1.9	10	0.7	10	1.5	11	1.9	10	4.6	12	2.5	2.8
20	12	1.7	10	2.6	10	1.9	12	1.5	10	2.3	10	4.0	10	3.5	09	1.8	09	1.8	10	3.0	10	0.8	10	1.6	10	1.1	10	3.9	12	3.3	2.9
21	12	0.7	10	4.0	10	1.9	12	1.8	10	3.1	10	4.1	10	3.4	09	2.0	09	1.4	11	2.0	10	1.7	10	1.3	10	1.1	11	3.4	12	2.5	2.8
22	12	2.2	10	2.9	10	1.8	12	1.5	10	2.3	11	3.8	08	4.7	08	2.1	10	3.1	11	2.4	10	1.7	10	1.8	10	1.6	10	3.4	12	2.2	2.8
23	12	2.2	10	2.9	10	1.0	10	2.0	09	2.8	11	4.6	07	3.4	09	2.1	09	2.9	11	2.2	10	1.7	10	1.8	10	1.6	09	4.2	11	1.8	2.8

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS, MAY, 1939)

Force (0-12)																				
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	-	-	-	-	5	9	16	1	-	-	-	-	-	-	-	-
9	-	7	24	-	-	-	2	13	2	12	1	-	1	-	-	-	-	-	-
15	1	10	20	1	1	-	3	10	5	10	-	-	-	-	-	1	-	-	-
21	-	1	30	-	-	-	-	6	10	15	-	-	-	-	-	-	-	-	-
Totals				1	1	-	5	34	26	53	2	-	1	-	-	1	-	-	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR M A Y, 1939

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
1h	..	..	..	..	..	..	..	..	..	..	0.4	..	0.3	..	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	0.5	..	4.4	..	..	..	2.1	..	..	..	1.8	..	1.3	..	..	0.2	..	..	..	..
3	..	..	..	..	..	..	..	..	0.2	..	..	0.5	..	..	0.1	..	..	1.1	..	..	..	1.6	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	1.5	..	..	..	0.1	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	0.5	0.1	..	..	..	..	..	..	..	..	..	0.1	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	0.3	..	..	..	..	..	..	..	..	..	..	0.1	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.0	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	2.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.7	..
17	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	7.2	..
19	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	0.2	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	0.4	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	2.1	..	..	..	..	..	..	..	..	..	0.2	..	0.4	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	0.8	..	1.0	..	..	..	..	..	..
24	..	..	0.2	..	..	..	..	..	..	0.3	..	0.1	..	..	..	..	..	..	..	..	..	..	1.4	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR M A Y, 1939

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	..	..	..	..	..	..	..	..	..	..	0.1	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	0.1	..	..	..	..	0.2	..	0.3	..	0.1	0.3	..	..	..	..	..	..	0.5	0.6	0.2	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	0.7	..	..	0.3	..	..	..	..	..	0.1	..	0.3	..	..	..	..	..
4	..	..	..	..	..	..	0.7	..	0.2	..	..	0.2	..	..	0.6	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.6	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	2.4	..	..	..	..	..	0.5	0.1	..	0.4	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	0.2	..	..	..	..	..	0.1	..	..	..	..	0.1	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	0.1	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	1.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	0.1	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	..
14	..	..	..	..	..	..	..	..	..	..	..	..	1.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..
15	..	..	..	0.5	..	..	..	..	..	..	..	1.0	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	1.4	..
16	..	..	..	0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	0.2	..
17	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	3.7	..	..	..	0.1	..	..	..	0.3	..
18	..	..	..	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..	..	..	..	1.4	..	..	..	..	..	..	..	0.5	..
19	..	..	..	..	..	..	..	0.3	0.2	..	..	0.6	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	1.6	..
20	..	..	..	..	..	0.3	..	0.3	..	0.3	..	..	..	..	..	..	..	..	..	..	0.1	..	0.4	..	..	..	..	..	..	0.8	..
21	..	..	..	..	..	..	..	0.3	..	0.4	..	0.1	0.1	..	..	..	0.3	..	..	..	..	0.1	0.5	..	..	..	..	..	..	0.6	..
22	..	..	..	..	..	..	0.4	0.3	..	1.9	..	0.3	0.6	..	..	..	0.2	..	..	..	1.9	..	0.5	..	..	..	..	..	..	0.1	..
23	..	..	..	..	..	0.6	0.1	0.2	..	0.8	..	..	0.4	..	..	..	0.9	0.3	..	..	0.4	0.4	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	0.2	0.4	..	..	0.2	..	..	..	..	..	..	0.4	0.5	0.4	..	..	0.1	..	0.1	..	0.1	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR M A Y, 1939

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall Inches	Total Fall Millimetres	Normal in Inches	Number of days
1	Mare Seche	20	1.93	49.0	6.30	10
	St Antoine	50	1.57	39.9	4.41	7
	Bel Mont	50	1.71	43.4	4.27	5
	Poudre d'Or	20	1.95	49.5	4.22	5
	Mon Loisir S.E.	300	2.00	50.8	5.61	10
	Forbach	300	...	...	4.63	..
	Couroupa	...	1.84	46.6	7.08	6
	Labourdonnais	290	1.73	44.0	4.90	11
	Mapou Water Office	...	2.10	53.3	...	9
	Beau Sejour	300	2.83	71.9	6.13	16
	Mont Piton	650	2.43	61.7	5.64	15
	Mon Choix	700	1.90	48.3	5.18	14
	Antoinette	640	3.52	89.4	6.13	15
	Mon Songe	620	3.19	81.0	6.29	15
	Botanical Gardens	325	2.53	64.3	4.57	13
	The Observatory	179	1.73	43.9	3.92	18
	Solitude	175	1.96	49.8	3.62	9
	St Andre-Cour	90	1.54	39.1	4.10	8
	La Nicoliere	...	2.93	74.4	9.63	21
	California	...	3.17	80.5	6.06	14
	Australia	...	3.05	77.5	...	15
2 & 3	Union Regnard S.E.	600	3.96	100.6	7.66	19
	Crossroads d'Arifat (L.S.)	100	3.78	96.0	5.93	19
	Rivière Noire	600	4.49	114.0	8.61	23
	La Joffrette	...	4.93	125.2	...	16
	Belle Vue Allendy	...	3.49	88.6	7.62	20
4	Sans Souci	900	12.27	311.7	13.54	22
	Beau Champ (G.R.S.E.)	40	3.66	93.0	5.79	17
	Olivia	200	6.96	176.8	10.30	19
	Trois Ilots	...	5.07	128.8	...	21
	Belle Rive	400	9.13	231.9	...	21
	Sebastopol	700	10.17	258.3	...	19
	Bonne Veine	400	7.62	193.5	10.27	21
5	Rose Belle	850	9.32	236.7	14.83	24
	New Grove	650	9.98	253.5	14.93	26
	Mon Tresor	...	3.52	89.4	...	18
	Mon Desert Carie	75	3.02	76.7	7.10	19
	Ferney	20	4.65	118.1	9.45	15
	Sauveterre	...	2.67	77.8	...	19
	Tivoli	1300	11.34	288.0	13.67	23
	La Flora	1050	9.15	232.4	14.06	24
	Riche Bois	650	6.55	166.4	8.92	22
6	Britannia S.E.	700	8.13	206.5	10.55	22
	Savannah Mill	200	3.79	96.3	7.97	17
	St Aubin	300	4.69	119.1	6.75	23
	St. Avold	900	8.45	214.6	11.84	23
	Colmar	400	8.12	206.2	8.30	22
	Union S.E.	...	4.95	125.7	7.17	18
	Fontenelle	320	7.52	191.0	7.24	17
	Choisy	200	2.80	71.1	6.20	8
	Beau Bois	...	9.88	251.0	...	22
	Bel Air	...	4.20	106.7	6.74	15
	St Felix	...	5.42	137.7	...	13
7, 8, 9 & 10	Mal Ombre	40	4.75	120.7	6.16	15
	Beau Champ B. du Cap	70	4.90	124.5	6.03	16
	Frederica	...	5.14	130.6	6.84	15
	Pierrefonds	...	0.28	7.1	4.43	3
	Sainte Marie	...	6.75	171.5	...	16
	Hussonia	...	...	...	...	..
11	Curepipe Garden	1840	6.89	175.0	9.58	24
	Mare aux Vacoas G. End	1850	6.59	167.4	13.23	24
	Mare aux Vacoas Arnaud	1830	9.54	242.3	12.74	25
	La Marie Filter Beds	1700	3.90	99.1	8.48	21
	Sophie	...	8.79	223.2	...	27
	Reunion	1420	2.22	56.4	6.46	17
	Aerological Station	1393	2.00	50.8	7.75	23
	Phoenix	...	2.55	64.8	...	15
	Quatre Bornes	...	0.73	18.5	...	7
12	Quatre Bornes Board	1090	1.03	26.2	2.82	6
	Le Reduit Dep. of Agriculture	1100	1.37	34.8	3.60	21
	Alma	1460	6.22	158.0	10.15	18
	Bayatelle	1250	3.90	99.1	5.31	18
	Highlands	1300	3.15	80.0	6.11	19
	Trianon	950	1.68	26.4	4.00	12
	Val Ory	1100	1.23	31.2	4.50	7
	Bassin	...	.15	3.8	4.90	2
	Hermitage	1450	4.80	121.9	9.65	18
	Ebene	...	1.62	41.1	...	17
	Bega	...	1.57	39.9	...	14
	Mon Reve	...	1.92	48.8	...	17
	Mont Pevril	...	1.59	40.4	...	15
	Minissy	1150	2.59	65.8	5.30	18
	Plaisance	...	2.06	52.3	...	13
	La Ferme	350	0.14	3.6	3.30	3
13	Line Barracks	...	0.38	9.7	...	8

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION VACOAS, 424.5 METRES ABOVE SEA LEVEL, DURING THE MONTH OF M A Y, 1 9 3 9.

Date \ Type	Time	St & Fs. Dir.	St & Fs. Vel/Height	Cumulus Cu.St. & c. Dir.	Cumulus Cu.St. & c. Vel/Height	Alto Cu. Alto St. Dir.	Alto Cu. Alto St. Vel/Height	Cirro Cumulus Dir.	Cirro Cumulus Vel/Height	Cirro Stratus Dir.	Cirro Stratus Vel/Height	Cirrus Dir.	Cirrus Vel/Height	Time	St & Fs. Dir.	St & Fs. Vel/Height	Cumulus Cu.St. & c. Dir.	Cumulus Cu.St. & c. Vel/Height	Alto Cu. Alto St. Dir.	Alto Cu. Alto St. Vel/Height	Cirro Cumulus Dir.	Cirro Cumulus Vel/Height	Cirro Stratus Dir.	Cirro Stratus Vel/Height	Cirrus Dir.	Cirrus Vel/Height
		0		0		0		0		0		0			0		0		0		0		0		0	
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	9¼	30	...	120	11.0*	...	...	...	...	...	...	120	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	10¼	...	...	...	...	60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	13	...	...	120	15.9	255	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	10¼	105	12.9	90	12.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	10	120	5.3	135	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	9½	150	8.6	120	13.8*	120	...	...	...	...	...	...	...	10½	105	31.5	180	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	14¾	90	12.3	105	10.8	...	...	...	...	...	...	...	...
26	9½	130	...	120	...	...	...	...	...	...	...	...	...	14½	60	11.9	75	...	300	...	...	...	...	...	205	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	9½	...	...	90	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	9¾	120	...	90	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

The Direction is that from which the Cloud travels counting North (0°) East (90°) South (180°). The Velocity-Heigh Ratio is given in milliradians per sec.

* Observatory, Pamplemousses.

MAURITIUS

ROYAL ALFRED OBSERVATORY

LATITUDE 20°51'39"S., - LONGITUDE 3h50m12.6"

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

JUNE, 1939

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

DIRECTOR

PUBLISHED IN 1962 BY

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF J U N E, 1939 •

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)	HRH : 10000	ZRZ : 10000
JUNE								
1	13°46'.4	.22152	.29830	6.8	62	33	140	98
2	46.1	441	837	6.7	53	30	119	89
3	46.5	438	838	7.3	37	32	83	95
4	46.3	433	838	6.0	29	36	65	107
5	46.5	438	839	6.0	36	28	81	83
6	46.2	439	839	8.0	28	26	63	77
7	46.6	440	838	8.0	22	30	49	89
8	46.7	445	839	7.5	27	23	61	69
9	46.3	447	837	6.3	21	22	47	66
10	46.6	458	835	5.7	36	24	81	72
11	47.0	453	835	5.5	27	23	61	69
12	46.7	453	837	6.3	38	19	86	57
13	47.5	456	837	7.5	41	25	92	75
14	46.1	395	848	8.5	167	27	374	81
15	47.0	407	850	6.0	50	19	112	57
16	47.[illegible]	403	850	5.5	67	20	150	60
17	47.[illegible]	427	845	6.0	50	32	112	96
18	46.2	422	847	6.3	67	29	150	87
19	46.7	427	849	5.7	50	15	112	45
20	46.4	423	847	5.0	31	21	69	63
21	47.2	427	847	6.0	32	23	72	69
22	46.9	435	844	6.0	33	33	74	99
23	47.0	434	848	6.2	28	13	63	39
24	46.9	434	849	6.7	26	11	58	33
25	46.7	439	845	8.5	19	22	43	66
26	47.1	452	842	8.5	33	23	74	69
27	47.2	447	838	10.0	60	40	135	119
28	47.3	445	840	8.7	62	30	130	89
29	47.1	439	843	7.0	59	33	132	99
30	47.0	441	842	5.7	43	34	96	101
Mean	13°46.74	.22436	.29842	6.80	44.5	25.9	99.3	77.3

Description of the Principal Magnetic Disturbances

Declination - 14th . Moderately disturbed; small irregular waves occasionally in the trace. 27th. Slightly disturbed; the absolute range for the day amounts to 10'.

Horizontal Force

1st to 5th. Slightly disturbed. On 3rd at 14h 20m to 15h 40m rapid decrease of 37 γ . On 4th at 20h 20m crest of a negative wave of 20 γ . On 14th intense storm during second half; storm begins with a gradual but increasingly disturbed trace during the last hours of 13th and the 14th; at 20h 50m crest of a positive wave of 34 γ.

Large irregular fluctuations in the trace from 11h to 16h; the absolute range amounts to 175 γ . From 14th at 18h the storm gradually subsides down.

18th, 19th and 20th. Slightly disturbed.

26th and 27th. Short-lived disturbances in the trace at times. On 27th at 0h 15m to 1h 30m sharp positive wave of 25 γ . On 27th at 3h 30m to 4h 30m positive wave of 25 γ .

On 29th - slightly disturbed.

Vertical Force

On 3rd and 4th - slightly disturbed.

On 14th - very moderately disturbed; minor pulsations on a very irregular trace. On 18th, 19th and 20th - slightly disturbed.

On 27th - slightly disturbed in parts.

On 29th - slightly disturbed.

T = .37335 : Mean Dip = 53°37'.80 : X = .21790 : Y = -.05344 : Z = .29842

✓ 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 N E, 1939

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.	° '	
2.12.38	13.44.3	7.12.12	.22446	2.12.53	53.02.50	.29828
12.14.13	13.44.6	14. 9.49	.22463	12.14.29	53.02.31	.29820
20.13.09	13.45.3	16. 9.31	.22412	20.13.20	53.03.50	.29836
27.15.13	13.41.1	23. 9.32	.22441	27.15.29	53.03.12	.29824
		28. 9.47	.22476			

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

JUNE, 1939

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hour \ Day
							13° +										
Midnight	46.0	47.0	47.0	46.7	46.7	46.5	46.5	46.7	46.5	47.0	47.0	47.0	47.0	48.0	49.0	47.3	Midnight
1	46.5	47.0	47.0	46.5	46.5	46.5	46.5	46.7	46.5	46.7	47.0	47.3	47.3	47.5	48.0	47.5	1
2	46.5	47.0	47.5	46.7	46.7	46.5	46.5	46.7	46.5	46.5	47.0	46.5	47.5	46.5	48.5	46.7	2
3	46.5	46.5	47.0	47.3	46.7	46.7	46.7	46.0	46.5	47.3	46.7	47.0	47.5	44.5	46.5	45.0	3
4	46.7	47.0	47.3	47.0	47.0	46.7	47.0	46.5	46.5	47.0	47.0	47.0	47.0	46.0	46.5	46.7	4
5	46.5	47.5	47.0	47.5	47.0	47.0	46.7	46.5	46.7	47.0	46.5	47.0	47.0	42.0	46.0	47.0	5
6	46.3	46.5	47.0	46.5	47.0	47.0	46.7	46.7	46.5	47.0	46.5	47.3	46.3	42.5	46.0	45.5	6
7	45.0	46.0	46.5	45.5	45.5	46.7	46.5	45.5	46.3	46.0	46.0	45.5	45.0	42.5	45.5	44.0	7
8	46.5	45.5	47.0	47.0	45.7	47.0	47.5	47.0	46.7	47.7	47.0	47.5	46.5	43.0	45.5	43.5	8
9	48.7	47.0	48.0	47.5	47.5	48.0	50.0	58.5	48.5	47.0	48.0	47.0	48.5	45.0	46.5	45.0	9
10	49.3	49.0	49.0	47.5	49.5	49.5	50.5	49.7	49.0	48.7	49.5	48.5	51.0	[illegible]7.0	48.5	48.0	10
11	48.5	47.5	49.0	47.3	49.0	48.7	48.5	50.0	47.5	48.5	49.0	49.3	51.5	49.0	49.7	47.5	11
Noon	47.5	45.7	46.0	47.0	48.0	47.0	47.5	48.7	46.0	47.0	48.0	47.5	50.5	48.0	50.0	48.0	Noon
13	46.0	43.0	46.5	46.0	45.0	43.5	45.5	46.5	45.0	46.0	47.0	46.5	48.5	47.5	47.0	47.0	13
14	43.0	42.3	44.5	44.0	43.5	42.5	44.3	44.3	43.5	44.5	46.0	45.0	46.0	44.5	46.0	47.5	14
15	42.5	42.5	42.3	42.0	43.5	41.5	42.7	42.5	42.7	43.0	44.5	43.0	44.0	41.0	45.0	46.5	15
16	43.0	44.0	41.7	42.7	43.5	42.0	42.5	43.5	43.0	43.3	44.0	43.5	44.5	44.5	44.0	46.0	16
17	45.5	45.0	44.5	44.5	45.5	45.0	44.5	45.5	45.0	45.5	46.0	46.0	46.5	46.5	46.0	46.7	17
18	46.5	45.5	46.7	46.0	46.5	46.7	46.0	46.7	46.7	47.0	47.0	47.0	47.0	46.0	47.0	48.0	18
19	45.5	46.0	46.7	46.7	46.5	46.7	46.5	47.0	47.3	47.5	47.5	47.5	47.5	48.5	47.0	48.0	19
20	46.7	47.0	46.5	48.0	47.0	47.0	47.0	48.0	47.2	48.0	47.7	47.7	48.5	48.5	47.5	49.0	20
21	47.5	46.7	47.0	47.3	48.0	47.0	47.5	47.5	47.3	48.0	47.5	48.0	48.0	49.5	47.3	49.0	21
22	47.5	47.0	47.0	47.0	47.0	47.0	47.3	47.0	47.3	47.5	47.5	47.5	48.0	49.5	47.5	48.3	22
23	47.7	47.5	47.0	47.3	47.0	47.0	47.2	47.0	47.2	47.5	47.5	47.5	48.0	49.5	47.5	48.3	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Day \ Hour
							13° +										
Midnight	47.5	47.0	47.3	47.0	47.3	50.5	47.5	47.5	47.3	47.0	47.5	47.5	48.5	48.0		47.3	Midnight
1	47.3	46.5	47.5	47.0	47.0	47.5	47.5	47.3	46.7	47.5	47.5	47.5	43.0	47.5		47.1	1
2	47.0	46.7	47.0	46.3	46.7	47.0	46.5	47.0	46.5	47.0	47.7	47.3	47.0	47.7		46.9	2
3	47.0	47.0	46.5	45.0	46.5	47.5	45.5	46.5	46.3	47.0	48.0	47.0	47.0	47.5		46.6	3
4	47.0	46.7	44.0	46.5	46.5	46.0	46.5	46.3	46.0	47.0	47.5	47.3	47.0	47.5		46.7	4
5	47.0	46.0	46.0	46.7	47.0	45.7	45.0	46.7	46.5	46.7	47.5	47.3	47.5	46.5		46.6	5
6	47.0	43.0	46.5	46.7	47.0	46.0	45.5	46.7	46.7	46.5	46.3	47.0	47.3	45.0		46.3	6
7	46.0	43.0	44.5	45.5	45.0	46.0	45.5	45.0	46.5	47.0	47.0	46.5	46.0	45.5		45.6	7
8	46.5	44.5	44.5	45.5	46.7	47.0	46.5	46.0	47.5	49.0	48.0	47.3	47.0	46.5		46.3	8
9	48.0	45.5	46.0	44.0	48.5	47.0	49.0	48.0	48.5	50.5	49.3	50.0	46.0	49.0		47.7	9
10	48.3	46.7	[illegible]	46.5	49.3	48.0	50.5	49.5	50.0	50.3	50.7	51.0	48.7	49.0		49.0	10
11	49.5	46.5	[illegible]	46.5	49.5	47.0	50.3	49.7	50.5	50.0	51.5	50.5	49.0	49.0		48.9	11
Noon	48.0	45.5	47.3	45.5	46.5	45.5	48.0	48.0	48.0	48.0	50.0	50.0	50.0	48.0		47.7	Noon
13	46.0	45.5	45.0	45.0	44.5	44.7	46.0	46.0	44.5	45.5	46.0	46.7	46.5	46.0		45.8	13
14	44.7	45.0	44.7	44.3	43.5	44.5	45.0	44.0	42.3	44.0	41.5	44.0	46.0	45.0		44.3	14
15	43.5	44.5	44.5	44.7	45.0	44.5	44.3	43.0	42.0	42.5	41.5	42.3	43.0	43.3		43.3	15
16	44.0	43.7	45.5	45.5	45.0	45.5	44.7	44.0	43.0	42.0	43.5	43.5	43.5	43.5		43.8	16
17	46.5	45.0	[illegible]	[illegible]	47.0	47.0	46.0	46.5	46.0	44.5	45.0	45.0	45.5	45.5		45.7	17
18	47.3	47.0	48.0	47.5	48.0	47.8	47.5	47.7	47.3	46.7	46.5	47.0	46.7	47.3		47.0	18
19	[illegible]	48.7	49.0	46.5	49.0	48.3	47.7	48.0	47.7	47.3	48.0	47.3	47.0	48.0		47.4	19
20	48.0	49.0	49.7	49.0	48.7	48.5	48.5	48.0	48.0	48.0	48.0	47.5	49.5	48.0		48.0	20
21	48.0	49.3	49.0	49.0	49.0	48.5	48.3	48.5	48.0	48.5	48.0	48.0	47.5	48.0		48.0	21
22	48.0	49.0	48.3	48.0	48.5	48.5	48.3	48.3	48.0	48.5	48.0	48.0	48.0	48.3		47.9	22
23	48.3	48.5	48.0	48.0	49.0	48.0	47.0	48.0	48.0	48.0	48.3	48.5	48.0	47.7		47.8	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)

J U N E, 1 9 3 9

. 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	443	429	425	429	425	430	433	436	439	443	451	450	451	432	371	406	Midnight
1	440	440	430	428	430	430	435	436	442	446	449	449	452	440	389	408	1
2	446	441	431	435	431	431	435	437	445	448	450	457	453	435	391	415	2
3	443	450	440	438	432	435	437	439	446	447	450	455	454	450	403	418	3
4	443	449	439	437	435	433	437	440	448	443	450	452	453	438	406	417	4
5	452	460	441	439	439	436	439	443	449	447	453	451	452	457	410	425	5
6	454	468	442	443	437	437	445	445	450	455	459	453	460	485	413	423	6
7	460	452	450	444	443	441	448	450	450	462	464	460	467	451	417	437	7
8	463	456	453	445	450	442	451	458	451	470	469	467	467	457	420	420	8
9	463	457	446	440	453	447	453	463	455	472	467	471	473	450	421	415	9
10	470	452	447	443	454	453	443	462	459	475	462	475	479	457	421	415	10
11	481	455	453	449	458	458	446	460	460	479	463	470	470	455	421	412	11
Noon	485	451	457	447	453	451	450	450	458	471	461	466	467	410	418	395	Noon
13	481	440	450	442	447	456	450	447	460	467	453	460	462	350	410	380	13
14	473	446	456	436	445	450	443	448	448	460	443	450	457	320	403	385	14
15	457	440	440	430	440	442	435	447	442	460	444	437	453	321	398	400	15
16	452	430	420	421	440	440	431	443	440	450	446	437	443	331	385	392	16
17	451	429	427	425	429	433	432	441	446	461	442	437	450	337	403	383	17
18	451	431	435	423	430	432	436	440	441	456	446	439	458	318	407	388	18
19	440	427	425	423	422	431	437	442	442	457	446	443	452	332	405	379	19
20	423	429	424	420	423	430	438	441	442	456	447	447	440	321	409	370	20
21	430	425	420	425	431	433	436	440	441	451	447	447	455	349	407	385	21
22	430	419	423	420	430	432	437	439	441	455	446	449	445	351	408	393	22
23	431	415	428	423	428	433	436	437	442	454	467	450	438	362	404	400	23

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

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Hour \ Day
Midnight	405	423	421	415	421	420	428	429	430	441	450	437	430	429		429	Midnight
1	409	433	425	421	421	423	430	427	432	440	473	437	437	432		433	1
2	410	432	429	423	422	430	438	429	431	445	453	437	450	435		435	2
3	412	423	427	440	426	430	439	431	440	440	442	441	457	437		438	3
4	419	435	445	441	433	431	435	436	445	441	460	442	455	436		439	4
5	420	437	445	429	432	435	438	438	438	444	461	445	455	440		442	5
6	421	450	448	431	430	438	440	440	439	451	463	446	453	442		435	6
7	423	457	442	429	437	442	447	441	439	455	468	452	457	445		448	7
8	430	448	450	424	445	448	444	452	442	462	472	453	450	451		450	8
9	433	444	445	435	439	440	447	453	445	467	466	453	453	455		451	9
10	440	450	440	431	441	445	445	447	441	465	460	457	461	453		451	10
11	447	440	431	433	440	450	439	440	430	473	467	460	460	463		452	11
Noon	455	425	432	425	421	453	437	441	440	472	463	472	445	471		448	Noon
13	454	423	435	427	414	450	430	432	448	458	462	480	452	457		443	13
14	445	407	426	431	415	435	431	430	449	453	450	476	442	431		436	14
15	430	395	420	418	413	425	428	431	448	441	433	457	436	441		430	15
16	418	405	411	415	425	430	427	427	440	443	427	435	425	435		425	16
17	417	405	404	404	425	435	425	427	435	448	427	433	410	428		425	17
18	423	390	414	413	420	434	430	429	435	455	418	437	407	430		425	18
19	423	391	402	407	427	434	431	427	437	450	413	442	410	432		424	19
20	425	397	400	407	423	433	432	429	438	452	418	430	402	437		423	20
21	427	401	417	410	425	430	425	430	435	450	422	429	425	431		426	21
22	425	393	420	415	427	426	419	431	439	448	435	418	428	432		426	22
23	421	410	418	418	425	427	428	430	439	447	434	423	427	435		428	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, 1939

.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	841	843	845	845	845	843	844	844	843	842	838	838	840	839	856	850	Midnight
1	840	841	842	845	843	843	843	843	843	842	839	839	840	837	854	849	1
2	839	839	842	843	842	843	843	843	843	842	839	838	840	838	853	848	2
3	839	838	841	843	841	842	843	843	842	842	839	839	840	836	850	847	3
4	840	839	841	842	841	842	842	842	842	841	839	840	841	840	852	850	4
5	840	840	840	842	840	842	842	842	841	841	839	840	841	839	852	851	5
6	838	839	841	841	840	842	841	841	840	840	838	840	837	837	852	850	6
7	844	839	840	840	838	839	840	839	838	836	836	837	840	839	850	849	7
8	847	842	843	843	842	842	847	842	839	834	837	838	844	844	852	852	8
9	844	845	844	843	847	847	850	843	840	838	840	841	846	848	854	856	9
10	835	843	844	839	848	849	845	840	838	837	841	842	846	853	855	855	10
11	827	838	841	835	843	841	837	841	833	833	838	839	841	848	848	852	11
Noon	817	832	829	829	836	829	832	839	831	827	832	833	836	844	844	850	Noon
13	814	822	823	823	826	823	827	830	827	822	821	826	828	843	840	847	15
14	816	816	816	813	820	823	822	823	821	818	818	823	823	840	837	847	14
15	822	817	814	816	824	826	820	823	823	821	820	824	821	844	838	840	15
16	834	825	823	828	829	828	822	827	827	824	826	832	825	856	843	838	16
17	838	838	836	839	835	836	830	834	836	830	834	840	835	857	850	844	17
18	839	837	839	842	840	839	837	839	838	835	836	842	838	862	853	851	18
19	843	840	843	843	842	842	[illegible]	[illegible]	840	837	837	842	841	863	853	854	19
20	845	844	834	849	845	843	841	842	840	837	838	840	842	863	853	858	20
21	843	844	846	844	846	843	842	843	841	838	839	842	839	861	853	857	21
22	843	846	846	846	845	844	843	843	841	838	839	840	839	859	853	856	22
23	843	846	846	846	845	845	843	843	842	838	839	839	838	855	852	854	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	853	848	851	852	852	855	850	850	849	846	843	845	846	847		846	Midnight
1	851	847	850	851	851	850	850	850	849	846	842	845	853	856		845	1
2	850	846	848	849	850	849	848	850	849	846	843	845	843	845		845	2
3	850	846	848	848	848	849	847	849	848	846	843	845	842	845		844	3
4	850	846	844	847	849	847	847	848	847	846	846	845	842	845		844	4
5	851	845	846	849	849	847	846	848	847	846	843	846	843	845		844	5
6	852	845	847	840	850	847	847	847	848	846	843	845	843	845		844	6
7	850	845	845	847	849	846	845	846	847	845	840	843	841	845		843	7
8	853	849	848	848	851	847	847	848	848	847	840	844	844	850		845	8
9	855	853	852	854	853	847	852	854	852	849	844	845	846	854		848	9
10	852	857	853	853	853	847	855	856	850	847	843	844	849	850		847	10
11	847	853	848	850	846	842	848	853	848	842	833	839	850	844		843	11
Noon	840	847	845	843	839	830	846	847	842	831	826	828	853	833		836	Noon
13	831	843	842	835	830	822	842	847	830	826	812	821	833	825		829	13
14	827	836	843	833	830	826	842	846	831	827	807	816	824	822		826	14
15	823	829	841	836	838	833	842	845	835	832	821	818	823	820		828	15
16	826	830	843	837	843	838	843	847	840	834	828	827	832	825		833	16
17	836	839	849	843	844	843	848	850	846	843	840	838	843	837		840	17
18	846	847	852	847	847	846	848	851	848	845	844	844	848	845		844	18
19	848	854	853	850	850	848	849	850	848	845	846	844	850	848		846	19
20	850	855	856	853	850	849	849	850	847	845	847	846	856	848		847	20
21	850	855	854	853	851	849	850	850	847	844	847	846	850	848		847	21
22	850	855	853	853	851	850	850	849	847	844	847	846	849	848		847	22
23	849	858	853	853	852	851	851	849	846	844	846	846	848	847		847	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 N E, 1939

Month and Day 1939	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	969.6	21.4	4.0	14.6	65	16.6	90	2.7	4	15.8	19.8	21.3	17.1	22.7	15.4	7.3	0.0	0	10.4	95
2	970.6	21.1	3.9	14.5	66	16.5	100	4.5	1	15.8	18.8	20.8	16.7	22.4	15.4	7.0	0.0	0	10.7	97
3	970.2	21.5	3.6	15.5	69	17.6	90	5.4	8	15.9	18.3	22.2	17.4	23.4	14.4	9.0	0.0	0	10.6	97
4	970.2	19.4	0.4	18.8	96	21.7	70	4.9	10	17.8	18.4	21.2	19.9	23.3	17.6	5.9	5.3	60	3.4	31
5	970.4	23.2	1.9	20.3	83	23.8	70	2.7	8	19.9	21.9	22.6	21.3	24.6	19.3	5.3	2.1	25	6.3	58
6	972.5	20.2	0.6	19.3	95	22.4	80	4.9	10	21.1	19.5	20.3	19.9	22.4	19.4	3.0	34.6	390	0.2	2
7	970.6	19.3	1.4	17.0	87	19.4	90	6.3	10	17.9	18.3	21.4	19.9	22.4	17.4	5.0	2.7	85	0.3	3
8	969.1	21.3	1.1	19.6	90	22.8	CALM		10	19.9	19.6	21.2	18.9	22.6	18.6	4.0	20.6	410	0.1	1
9	966.5	21.9	2.0	18.8	82	21.7	CALM		9	18.0	17.9	20.0	16.9	22.0	16.6	5.4	10.7	170	3.9	36
10	969.7	19.9	3.0	15.9	73	18.1	120	5.4	4	16.9	17.9	19.8	15.9	21.2	15.9	5.3	1.3	15	10.6	97
11	971.6	19.2	2.6	14.8	76	16.8	110	6.3	3	14.9	16.0	20.3	17.2	20.6	14.6	6.0	5.1	100	7.9	72
12	973.6	19.6	4.5	11.6	60	13.7	110	6.7	0	16.2	17.7	19.7	16.2	20.7	15.7	5.0	2.9	50	10.5	96
13	972.4	16.5	0.3	16.0	97	18.2	100	4.5	10	15.2	16.2	17.7	16.7	19.1	14.5	4.6	5.0	60	5.2	48
14	974.1	19.6	3.6	13.3	67	15.3	105	7.2	7	14.2	17.7	18.6	14.8	20.4	13.8	6.6	0.1	0	9.7	89
15	974.2	17.8	1.4	15.5	86	17.6	90	3.1	6	15.1	16.7	18.2	14.1	20.2	14.1	6.1	2.4	35	7.6	70
16	972.7	19.4	3.1	14.0	71	16.0	110	5.4	3	13.2	18.2	18.0	16.6	21.4	13.1	8.3	0.5	15	7.6	70
17	973.1	20.0	3.9	13.2	65	15.2	90	4.5	2	15.3	18.2	20.1	15.4	21.2	14.6	6.6	0.0	0	10.2	94
18	974.3	20.1	4.1	12.9	63	14.9	80	4.5	5	12.1	18.2	20.3	16.7	21.4	12.1	9.3	0.0	0	10.4	95
19	974.4	20.2	4.0	13.2	64	15.2	80	4.9	7	16.0	18.8	20.9	16.4	21.6	15.1	6.5	0.0	0	10.2	94
20	974.1	19.8	3.4	13.9	69	15.9	90	2.7	7	16.3	16.2	19.9	17.2	21.0	15.8	5.2	7.5	100	5.5	50
21	971.9	19.5	2.0	16.3	82	18.5	90	3.6	4	16.2	17.2	20.4	17.0	21.4	15.9	5.5	3.3	45	9.1	83
22	970.4	20.3	3.4	14.5	69	16.5	90	4.5	3	16.9	18.6	21.6	16.2	22.6	16.1	6.5	0.0	0	6.9	63
23	970.9	20.9	3.0	15.9	73	18.1	100	2.7	3	15.6	19.2	21.3	18.0	22.2	15.2	7.0	0.0	0	10.7	98
24	971.9	18.4	1.0	16.7	90	19.0	105	4.9	9	17.3	17.2	19.3	17.2	20.6	17.1	3.5	4.0	80	7.7	71
25	972.0	19.5	3.6	13.2	67	15.2	95	5.4	0	15.7	16.2	19.8	15.4	20.9	15.1	5.8	0.0	0	9.2	84
26	970.1	20.7	4.2	13.4	63	15.4	70	2.7	3	12.0	19.3	21.2	20.1	22.6	11.9	10.7	0.0	0	10.4	95
27	968.1	20.7	5.2	11.4	55	13.5	CALM		2	14.3	19.8	20.6	15.5	23.6	13.1	10.5	0.0	0	6.5	60
28	968.6	18.1	1.8	15.0	82	17.1	130	4.0	7	13.4	17.8	19.8	15.8	21.6	13.3	8.3	0.0	0	9.0	83
29	972.9	20.0	3.8	13.4	66	15.4	130	2.7	2	14.8	18.3	20.4	16.3	21.3	14.4	6.9	0.9	10	10.3	95
30	973.4	19.5	3.9	12.6	64	14.6	110	7.2	1	15.3	18.3	19.3	16.3	21.3	14.9	6.4	0.0	0	10.0	92
Mean	971.5	20.0	2.8	15.1	74.5	17.4	...	4.1	5.3	16.0	18.1	20.3	17.1	21.7	15.3	6.4	109.0	1650	7.11	65.0
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	+ 42.2 mbs.	Amount of Rain	- 17.8 mms.
Temperature of the Air	+ 2.5°C	Duration of Bright Sunshine	- 17.7 hrs.
Vapour Pressure	+ 1.7 mbs.	Mean of Maximum Temperatures	+ 2.7°C
Relative Humidity	- 4.8 %	Mean of Minimum Temperatures	+ 1.4°C
Velocity of Wind	+ 0.1 m.p.s.	Absolute Maximum Temperature	+ 1.4°C
Amount of Cloud	- 0.2	Absolute Minimum Temperature	+ 1.3°C

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF J U N E, 1939

Month and Day 1939	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	Mean Amount of Cloud (Scale 0-10)
JUNE	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	min.	mms.	
1	1010.0	- 0.9	25.6	15.5	10.1	19.9	- 1.4	[illegible]	14.8	- 2.7	72	- 7	16.8	12.0	0.0	...	3.7	3.2
2	1011.2	+ 0.2	25.0	16.0	9.0	20.5	- 0.7	3.3	14.9	- 2.5	70	- 9	16.9	11.5	0.0	...	4.3	2.4
3	1011.0	0.0	25.2	15.9	9.3	20.9	- 0.3	2.7	16.4	- 1.0	76	- 3	18.7	12.5	0.0	...	4.2	3.2
4	1010.8	- 0.4	24.2	19.8	4.4	21.9	+ 0.8	1.1	20.2	+ 2.9	90	+11	23.7	17.5	19.9	270	4.2	8.5
5	1011.7	+ 0.4	26.0	22.0	4.0	23.6	+ 2.6	1.4	21.5	+ 4.3	88	+ 9	25.6	20.5	1.2	65	1.5	7.8
6	1013.5	+ 2.1	[illegible]	20.3	3.6	[illegible]	[illegible]	0.9	[illegible]	[illegible]	[illegible]	+15	[illegible]	[illegible]	[illegible]	245	2.2	10.0
7	1012.5	+ 1.0	24.1	19.6	4.5	21.5	+ 0.6	1.2	19.6	+ 2.7	89	+11	22.8	18.0	5.3	345	2.2	9.6
8	1009.4	- 2.2	25.8	20.6	5.2	22.5	+ 1.7	1.1	20.8	+ 4.0	90	+12	24.6	19.5	25.2	285	1.6	10.0
9	1007.8	- 3.9	24.7	18.7	6.0	21.5	+ 0.7	1.6	19.0	+ 2.2	86	+ 8	22.0	18.6	10.7	320	1.1	6.5
10	1010.9	- 0.9	24.2	15.0	9.2	20.4	- 0.3	3.0	15.4	- 1.3	73	- 5	17.5	11.5	0.7	35	3.5	2.4
11	1013.3	+ 1.4	24.0	15.0	9.0	19.7	- 1.0	2.6	15.3	- 1.4	76	- 2	17.4	11.5	0.1	5	3.5	5.5
12	1014.2	+ 2.2	24.2	18.1	6.1	20.4	- 0.2	3.2	15.0	- 1.6	71	- 7	17.1	15.5	0.0	...	4.9	2.5
13	1014.4	+ 2.3	23.0	16.0	7.0	19.6	- 1.0	2.7	15.1	- 1.5	75	- 3	17.2	11.4	2.0	15	3.8	5.9
14	1016.0	+ 3.8	23.5	16.4	7.1	19.6	- 1.0	3.6	13.3	- 2.3	67	-11	15.3	11.5	0.0	...	3.6	3.3
15	1015.4	+ 3.1	23.8	14.7	9.1	19.1	- 1.4	3.0	13.9	- 2.6	72	- 6	15.9	11.0	0.6	15	3.6	4.6
16	1014.3	+ 1.9	23.7	13.2	10.5	18.5	- 2.0	1.9	15.2	- 1.3	81	+ 3	17.3	10.2	2.9	60	3.5	6.2
17	1014.7	+ 2.2	23.7	17.0	6.7	19.8	- 0.6	3.2	14.4	- 2.0	71	- 7	16.4	12.6	0.0	...	3.2	3.6
18	1015.5	+ 2.9	23.8	14.3	9.5	19.5	- 0.9	3.7	13.0	- 3.4	66	-12	15.0	10.0	0.0	...	4.5	4.0
19	1016.0	+ 3.2	24.5	17.2	7.3	20.7	+ 0.4	3.7	14.4	- 1.9	67	-11	16.4	14.4	0.0	...	4.5	2.7
20	1014.8	+ 1.9	24.5	18.0	6.5	20.9	+ 0.5	2.8	16.2	- 0.1	74	- 4	18.4	14.8	1.2	25	3.6	6.9
21	1012.7	- 0.3	24.3	18.1	6.2	20.7	+ 0.4	2.2	17.1	+ 0.8	80	+ 2	19.5	14.2	0.3	20	4.3	5.0
22	1011.2	- 1.9	24.6	16.8	7.8	20.2	0.0	2.5	16.0	- 0.2	77	- 1	18.2	14.4	0.0	...	3.8	5.5
23	1012.3	- 0.9	25.4	15.5	9.9	20.4	+ 0.2	2.7	15.9	- 0.3	75	- 3	18.1	12.5	0.0	...	3.6	1.5
24	1013.2	- 0.1	24.1	18.9	5.2	20.7	+ 0.5	2.5	16.6	+ 0.4	77	- 1	18.9	13.5	2.0	40	4.3	7.0
25	1012.7	- 0.7	24.8	16.7	8.1	19.9	- 0.3	3.1	14.6	- 1.6	72	- 6	16.6	13.5	0.0	...	3.9	3.5
26	1010.8	- 2.7	24.4	14.0	10.4	18.8	- 1.3	2.8	14.0	- 2.1	74	- 4	16.0	10.0	0.0	...	4.5	3.4
27	1009.0	- 4.5	24.6	14.1	10.5	19.1	- 1.0	2.6	14.7	- 1.4	76	- 2	16.7	9.2	0.0	...	3.0	3.9
28	1010.6	- 3.0	23.7	14.4	9.3	18.7	- 1.4	2.4	14.7	- 1.4	77	- 1	16.7	12.0	0.0	...	3.0	5.5
29	1014.1	+ 0.5	24.4	15.7	8.7	19.6	- 0.5	3.1	14.3	- 1.8	72	- 6	16.3	12.0	0.0	...	3.3	4.8
30	1015.0	+ 1.3	24.0	14.2	9.8	19.8	- 0.3	3.9	13.1	- 3.0	65	-13	15.1	10.6	0.0	...	3.4	2.9
Mean	1012.6	+ 0.3	24.4	16.7	7.7	20.4	- 0.2	2.6	16.0	- 0.6	76.4	- 0.2	18.4	[illegible]	Sum 91.2	Sum 2245	3.5	5.1
Average	1012.3	...	24.4	17.0	7.4	20.6	...	2.4	16.6	...	76.6	...	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, 1939

The weather of this month was quite seasonal. The anticyclones to the south were generally strong and pressure slightly above normal, but winds in general were light to moderate.

The period from the 4th to the 9th was very wet and rainy, the heaviest falls were registered during this period and the monthly amount was 40% above normal. The air temperature was near normal. Although the percentage of possible sunshine was slightly below normal, evaporation during the month was normal.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF J U N E, 1939

Month and Day 1939	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
JUNE	hrs	%	m.p.s.	m.p.s.	°C	°C	°C	°C	0h 3h 6h 9h 12h 15h 18h 21h 24h
1	9.5	86	2.5	- 0.7	25.7	26.1	25.0	24.3	b bc b bc b
2	9.9	90	3.5	+ 0.2	25.5	26.1	24.8	23.9	bo b bc
3	9.7	89	2.8	- 0.5	25.9	26.0	24.7	23.8	bc b
4	1.3	12	2.9	- 0.4	25.7	25.9	24.6	23.9	bcro cro or bc
5	5.9	54	2.9	- 0.4	25.6	26.0	24.6	24.1	bcro c bcro cro c clt oro
6	0.0	0	2.3	- 1.0	25.5	26.0	24.6	24.5	ororo oro ororo
7	0.2	2	2.5	- 0.8	25.4	26.0	24.6	24.1	ororo o cro o c cro
8	1.3	12	1.6	- 1.8	25.4	25.9	24.6	24.1	o oro o ororo
9	4.9	45	1.6	- 1.8	25.4	25.9	24.5	24.1	ororo oro c cro bc b
10	10.4	95	3.3	- 0.1	25.6	25.9	24.5	24.1	bcro b
11	8.3	76	3.4	0.0	25.5	25.9	24.5	23.9	bc cro c bc b
12	10.3	94	4.3	+ 0.9	25.4	25.9	24.4	23.6	b bc b
13	7.7	71	4.0	+ 0.6	25.6	25.8	24.3	23.2	bc bcpo c bc b
14	8.6	79	4.0	+ 0.5	25.4	25.8	24.2	23.1	b bc b
15	9.4	86	3.2	- 0.3	25.3	25.9	24.0	22.8	bc cro bc b bc
16	4.5	41	2.8	- 0.7	25.2	25.9	23.8	22.6	bcro b cro bc b
17	9.0	83	3.8	+ 0.3	25.3	26.0	23.6	22.5	b bc b
18	10.5	95	3.5	0.0	25.3	26.0	23.5	22.2	b bc
19	9.9	91	3.7	+ 0.1	25.3	25.9	23.4	22.3	b bc b
20	6.3	58	3.5	- 0.1	25.2	25.5	23.3	22.6	cro c bc bcro
21	10.1	93	3.5	- 0.1	25.2	25.4	23.3	22.7	cro bc b
22	4.9	45	2.2	- 1.4	25.2	25.4	23.3	22.8	b bc c bc
23	10.5	96	2.5	- 1.1	25.2	25.4	23.3	22.7	bc b
24	6.6	61	4.1	+ 0.5	25.2	25.4	23.3	22.8	bc c cro bc c
25	9.1	83	3.1	- 0.6	25.2	25.4	23.3	22.8	c bc b
26	7.6	70	1.9	- 1.8	25.2	25.4	23.3	22.6	bc b bc
27	8.5	78	1.7	- 2.0	25.2	25.4	23.2	22.4	b b bc c bc b
28	3.0	28	2.6	- 1.1	25.3	25.4	23.1	22.4	bc c bc b
29	5.7	52	2.9	- 0.8	25.1	25.0	23.1	22.2	b bc b bc c
30	10.1	93	4.1	+ 0.4	25.1	25.0	23.0	22.0	bc b bc
Mean	7.12	65.3	3.02	-0.47	25.37	25.72	23.92	23.17	
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 J U N E, 1939

Atmospheric Pressure	1017.2 mbs	at 10.00	on 14th	1006.2 mbs	at 15.00hrs and 16.00hrs	on 9th
Temperature of the Air	26.0°C	at 11.30	on 5th	13.2°C	at 03.10hrs	on16th
Daily Range of Temperature of the Air	10.5°C		on 15th	3.6°C		on 6th
Temperature of the Dew Point	22.5°C	at 11.00	on 5th	9.6°C	at 04.00hrs	on18th
Minimum on Grass				9.2°C		on27th
Relative Humidity	97.1 %	at 04.00	on 9th	47.2 %	at 11.00hrs	on12th
Vapour Pressure	27.3 mbs	at 11.00	on 5th	12.0 mbs	at 04.00hrs	on18th
Evaporation in 24 hrs	4.9 mms		on 12th	1.1 mm		on 9th
Wind Velocity	7.5 mps	at 13.00	on 14th	0.6 mbs		often
Rainfall in 24 hrs	35.9 mms	ending 13.00	on 9th			
Duration of Sunshine	10.5 hrs		on 18th & 23rd	0.0 hr		on 6th

Mean Day Temperature of Air 22.17°C Average 22.26°C Mean Night Temperature of Air 18.53°C Average 18.74°C

NUMBER OF DAYS OF

Mean Cloud Amount: 0	1 - 3	4 - 6	7 - 9	10	Rainfall: 0.1 - 9.9 mms.	10.0 - 19.9 mms.	20.0 - 24.9 mms.	25.0 - 49.9 mms.	50.0 & over mms.	Lightning	Thunderstorm
...	11	11	5	3	4	5	1	3	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).

JUNE, 1939

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	098	117	119	113	119	130	151	117	087	090	130	148	147	157	167	152	Midnight
1	097	115	113	112	117	120	150	112	085	092	129	143	140	157	162	150	1
2	095	112	110	109	116	120	144	108	080	091	123	142	139	152	159	147	2
3	090	108	107	104	110	120	140	101	073	090	120	139	133	150	153	140	3
4	089	109	103	102	107	119	138	100	073	091	120	140	133	150	152	138	4
5	088	108	103	101	103	127	132	098	071	092	121	140	136	149	152	137	5
6	092	109	108	105	108	129	130	100	072	098	125	142	140	152	156	140	6
7	098	113	112	108	113	130	130	103	078	108	132	144	142	158	156	145	7
8	102	119	117	112	119	137	128	104	082	111	138	151	149	167	159	151	8
9	108	124	121	118	123	148	130	107	086	118	143	155	154	170	162	154	9
10	107	124	120	121	126	147	130	107	083	120	147	153	156	172	167	152	10
11	110	120	115	112	122	137	129	102	082	117	140	150	152	171	162	150	11
Noon	102	117	111	109	118	130	122	094	080	112	132	143	148	161	159	145	Noon
13	092	109	101	100	111	129	112	085	072	104	125	132	139	154	150	140	13
14	089	102	099	099	110	126	110	080	067	100	123	129	132	151	143	133	14
15	088	098	097	093	109	122	107	077	062	102	123	127	131	150	143	132	15
16	099	099	098	094	110	123	102	077	062	103	125	130	131	152	143	130	16
17	095	102	101	098	113	130	109	078	068	109	128	132	137	157	145	130	17
18	101	103	105	104	117	131	110	079	073	112	132	139	142	160	147	132	18
19	109	111	110	108	122	144	116	082	078	118	141	142	149	163	151	138	19
20	112	115	113	113	123	152	120	089	084	127	147	147	153	170	154	142	20
21	113	119	117	118	129	159	121	089	088	130	149	148	155	168	158	147	21
22	114	120	118	120	130	157	121	090	090	132	151	150	156	170	157	149	22
23	117	120	116	120	130	157	120	089	091	131	150	150	157	169	154	148	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	148	155	162	165	147	120	123	131	140	120	105	098	130	155	131		Midnight
1	147	154	160	160	140	119	129	130	138	117	101	095	130	157	129		1
2	144	153	159	160	138	114	120	129	132	113	098	090	130	154	126		2
3	142	150	158	160	132	110	120	128	132	110	092	089	129	150	123		3
4	142	148	155	157	130	110	119	128	130	110	088	090	128	149	123		4
5	140	148	154	154	130	110	118	127	132	110	087	090	129	145	121		5
6	142	150	157	154	130	110	120	132	137	110	088	093	133	147	123		6
7	147	152	160	156	130	112	122	139	139	113	092	098	139	153	127		7
8	152	159	163	160	135	114	129	143	142	117	098	107	142	160	132		8
9	157	166	170	164	139	119	131	145	145	119	099	113	151	163	137		9
10	158	170	171	163	138	120	130	147	144	119	099	113	151	164	137		10
11	155	163	169	159	135	117	129	142	140	117	093	112	149	161	134		11
Noon	150	160	162	152	127	110	123	132	132	108	090	108	143	154	128		Noon
13	140	151	155	142	120	102	117	127	120	098	080	098	136	144	119		13
14	133	148	152	135	113	100	114	122	113	093	077	093	134	140	115		14
15	138	147	150	130	110	099	112	118	110	090	073	096	130	139	113		15
16	138	147	152	130	112	102	113	120	110	092	075	099	135	140	114		16
17	140	150	152	130	115	103	117	123	113	095	078	107	138	141	118		17
18	143	152	154	132	118	107	119	125	115	098	082	110	143	141	121		18
19	147	154	158	135	121	111	123	130	118	103	087	115	149	147	126		19
20	151	160	161	139	123	117	127	140	122	110	092	120	153	149	131		20
21	153	163	163	142	123	122	129	140	122	109	097	125	158	151	133		21
22	156	163	166	143	123	123	132	142	122	110	099	129	159	152	135		22
23	156	162	165	133	123	123	132	142	121	109	099	130	157	151	134		23

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

Hour \ Day	JUNE, 1939																														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	2	0	2	5	7	10	10	10	10	4	5	3	4	4	3	5	3	1	3	4	10	1	5	0	8	2	2	2	0	5	4.3
1	2	0	4	5	7	10	10	10	10	5	5	4	5	3	3	7	4	1	3	7	9	1	5	1	8	2	2	4	0	5	4.7
2	2	0	5	8	7	10	10	10	10	3	4	3	5	3	4	7	4	2	3	7	9	1	4	5	8	3	3	5	1	3	5.0
3	3	0	4	7	7	10	10	10	10	2	7	3	6	2	4	7	2	2	4	10	9	2	5	5	8	4	4	8	3	2	5.2
4	4	0	3	7	7	10	10	10	10	1	7	5	6	3	6	8	3	2	5	9	8	2	2	7	8	4	4	8	4	2	5.5
5	4	1	3	8	8	10	10	10	10	1	8	5	8	2	10	8	3	3	5	9	6	2	2	9	7	5	5	9	7	1	6.0
6	4	1	3	10	8	10	10	10	10	2	8	5	8	2	10	9	3	3	4	9	5	2	2	9	5	5	4	9	8	1	6.0
7	4	1	3	10	7	10	10	10	10	2	8	3	6	2	8	8	3	3	4	8	4	3	1	9	4	2	3	9	5	1	5.4
8	5	2	2	10	7	10	10	10	9	2	8	1	5	3	7	7	3	3	4	7	3	3	1	9	3	1	3	8	4	1	5.0
9	5	2	2	10	6	10	10	10	9	3	8	1	4	3	6	5	3	3	4	7	2	5	0	8	3	1	2	8	2	1	4.8
10	5	2	2	10	6	10	10	10	9	2	7	1	6	3	6	6	4	4	3	7	5	6	1	8	1	2	3	8	4	2	5.1
11	3	2	3	10	7	10	10	10	9	3	6	1	7	3	6	8	8	4	2	7	5	6	1	6	1	2	3	8	4	3	5.3
Noon	3	3	3	10	10	10	10	10	9	3	4	1	7	3	4	9	7	6	2	7	6	5	1	8	1	3	6	8	5	3	5.6
13	2	3	3	10	8	10	10	10	10	2	6	1	8	3	5	10	6	6	2	8	5	9	1	8	1	3	5	5	5	3	5.6
14	2	5	3	10	8	10	10	10	8	1	7	1	9	5	3	8	6	6	2	8	5	9	1	7	1	2	5	5	6	3	5.5
15	2	2	4	10	8	10	9	10	7	3	8	1	10	7	2	9	6	6	2	2	6	9	1	6	2	3	5	7	6	3	5.5
16	5	3	4	10	8	10	9	10	3	2	6	1	8	7	2	4	4	5	2	4	5	9	1	4	2	4	6	6	4	3	5.1
17	4	3	4	10	8	10	9	10	3	2	6	2	7	5	2	7	5	5	2	4	5	9	1	6	4	4	8	5	2	3	5.2
18	4	3	5	10	6	9	9	10	2	3	2	2	5	5	2	5	3	4	2	4	4	9	2	6	4	3	8	4	6	3	4.8
19	3	4	4	8	10	9	10	2	2	2	2	4	3	2	4	3	4	2	7	4	9	1	7	2	6	5	2	8	3	4.7
20	3	5	2	6	10	10	9	10	1	2	2	3	3	3	4	2	1	7	1	6	3	7	1	9	3	6	3	1	8	4	4.5
21	3	5	2	6	10	10	9	10	1	2	2	3	3	3	4	2	1	7	1	6	3	7	1	9	3	6	3	1	8	4	4.5
22	2	5	2	7	10	10	9	10	1	1	2	3	3	2	4	2	1	5	1	7	2	8	0	9	1	5	1	1	8	5	4.2
23	1	5	2	7	10	10	9	10	1	3	3	4	3	2	4	2	1	5	1	6	2	6	0	9	1	3	1	1	8	5	4.2

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

Hour Ending \ Day	JUNE, 1939																														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	0	12	6	0	0	0	0	0	0	17	3	10	0	0	0	0	0	20	0	6	10	5	10	0	0	0	4	0	0	8	1.8
8	40	60	60	18	23	0	0	2	0	58	50	58	21	60	29	4	25	58	38	4	60	60	60	0	47	40	48	10	25	60	17.0
9	43	60	60	0	48	0	0	16	0	60	55	60	60	60	58	16	60	60	60	8	60	60	60	0	60	60	60	0	60	60	20.5
10	60	60	60	0	50	0	0	26	6	60	13	60	55	60	60	59	60	60	60	40	60	43	60	23	60	60	60	0	60	60	22.3
11	60	60	60	28	55	0	0	20	50	60	34	60	52	54	60	50	50	60	60	58	60	28	60	60	60	60	60	0	60	60	24.0
Noon	60	60	60	32	38	0	0	10	17	60	41	60	24	60	60	4	42	60	60	24	60	39	60	60	60	60	19	22	60	60	21.2
13	60	60	60	2	22	0	0	5	11	60	60	60	25	60	60	10	46	60	60	50	60	18	60	57	60	58	60	28	18	60	20.8
14	60	48	60	0	31	0	0	0	32	60	60	60	60	45	60	58	60	60	60	44	60	36	60	42	60	57	60	30	0	60	22.1
15	60	60	60	0	28	0	12	0	60	60	60	60	48	14	60	10	60	60	60	35	60	3	60	53	60	40	60	18	0	60	20.3
16	60	60	60	0	40	0	2	0	60	60	60	60	60	45	60	31	60	60	60	60	60	0	60	55	60	20	45	24	20	60	21.7
17	53	52	35	0	20	0	0	0	56	57	55	57	56	57	58	23	60	51	55	40	45	0	60	45	57	0	35	45	38	55	19.0
18	13	0	0	0	0	0	0	0	9	12	12	14	0	0	0	0	20	20	20	10	10	0	20	0	0	0	0	0	2	0	2.6
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)

J U N E, 1939

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	17.2	1.5	17.3	1.7	17.7	1.7	19.8	0.9	22.7	1.4	22.9	0.7	20.1	0.6	21.5	0.5	Mid-night
1	16.9	1.4	17.0	1.7	17.4	1.5	20.5	1.2	22.5	1.3	23.0	0.6	20.0	0.6	21.6	0.6	1
2	16.6	1.4	16.7	1.7	18.4	1.6	21.4	1.6	22.1	0.9	23.1	0.5	19.8	0.6	21.4	0.6	2
3	16.3	1.3	16.6	1.6	17.7	1.8	21.0	1.0	22.1	1.0	21.7	0.4	19.8	0.6	21.4	0.6	3
4	16.0	1.3	16.0	1.9	16.7	1.9	21.0	1.2	22.1	1.0	21.9	0.6	19.6	0.4	21.4	0.5	4
5	15.7	1.2	17.0	2.3	16.7	1.7	21.2	1.2	22.0	0.9	21.9	0.5	19.7	0.5	21.3	0.5	5
6	15.5	1.2	16.8	2.2	16.1	1.3	21.0	0.7	22.2	0.9	21.5	0.5	19.8	0.8	21.2	0.6	6
7	16.5	1.4	18.4	1.9	17.9	2.2	20.7	0.9	22.3	0.9	21.6	0.5	20.2	1.0	21.2	0.6	7
8	19.0	3.0	21.3	3.2	20.9	3.1	21.6	0.8	23.2	1.2	21.6	0.5	21.0	1.4	22.2	0.8	8
9	23.0	4.0	23.1	4.0	23.4	4.6	21.7	0.9	24.6	1.8	21.8	0.5	21.9	1.7	23.9	1.6	9
10	23.6	4.5	23.3	4.0	24.2	4.0	21.0	0.7	24.8	2.2	22.3	0.5	21.9	1.7	24.2	1.9	10
11	24.1	5.0	24.4	5.4	24.8	4.1	23.3	1.6	25.0	1.7	22.8	0.8	22.1	1.6	24.9	2.4	11
Noon	25.0	5.8	24.9	5.5	24.9	4.7	23.2	0.0	25.3	2.3	23.3	1.1	23.1	2.3	25.7	3.0	Noon
13	25.2	6.4	24.1	4.8	24.9	4.5	23.7	2.0	25.1	2.1	23.4	1.3	23.7	2.3	25.1	2.3	13
14	25.4	6.4	23.7	5.0	25.0	5.7	22.3	0.5	25.7	2.7	22.9	0.9	23.7	2.1	24.7	2.4	14
15	25.0	6.3	24.1	5.0	24.7	4.9	23.0	1.0	25.4	2.3	22.9	1.2	23.9	2.5	23.0	1.0	15
16	24.0	5.6	23.6	5.0	24.0	3.9	22.4	0.6	25.0	2.1	22.9	2.0	23.8	2.2	23.3	1.4	16
17	22.6	5.0	22.9	4.5	23.0	3.3	22.0	0.9	24.7	1.9	22.2	2.1	23.0	1.7	23.3	1.1	17
18	20.5	3.2	20.7	3.3	21.8	2.2	22.2	0.8	23.6	1.2	22.0	1.0	22.2	1.1	22.7	0.8	18
19	19.3	2.5	20.5	3.2	20.7	1.7	22.3	1.1	23.3	0.9	22.0	0.8	21.3	1.0	22.3	0.9	19
20	18.0	1.7	20.6	3.2	20.3	1.5	22.3	1.2	23.1	0.9	21.8	0.6	21.3	0.9	22.1	0.8	20
21	17.7	1.7	20.1	2.7	20.0	1.2	22.2	1.4	23.2	0.9	21.0	1.0	21.3	0.8	21.6	0.6	21
22	17.8	1.6	19.9	2.5	19.9	1.1	22.5	1.3	23.2	1.0	20.5	0.5	21.3	0.6	20.7	0.4	22
23	17.5	1.5	18.6	2.2	19.9	1.5	22.7	1.4	23.2	0.9	20.3	0.7	21.4	0.6	20.8	0.5	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	20.6	0.5	20.7	1.8	15.0	1.0	19.0	1.7	18.1	1.4	18.0	2.7	17.1	2.3	15.0	1.2	Mid-night
1	20.4	0.4	20.6	1.7	15.4	1.0	18.7	1.5	17.8	1.6	17.2	2.5	16.4	2.0	15.7	1.1	1
2	20.4	0.5	20.4	1.4	16.5	1.1	18.8	1.5	17.7	1.9	16.7	2.4	16.0	1.7	14.5	1.1	2
3	20.3	0.4	19.6	1.3	16.6	1.2	18.5	1.3	16.7	1.9	16.7	2.4	15.6	1.3	13.3	1.0	3
4	20.3	0.3	19.8	2.0	16.3	0.9	18.4	1.1	18.0	2.0	16.8	2.6	17.3	1.0	14.0	1.0	4
5	20.2	0.4	20.0	2.4	16.7	1.0	18.4	1.0	17.8	2.5	18.2	3.5	15.9	1.3	15.0	1.0	5
6	20.2	0.4	19.7	2.2	17.1	0.9	18.7	2.2	16.7	1.7	18.0	2.7	17.2	1.2	16.0	1.5	6
7	20.1	0.4	19.6	2.2	17.5	1.0	19.0	2.6	17.3	1.0	18.3	2.8	18.1	1.3	16.7	1.2	7
8	20.3	0.4	20.9	2.7	20.0	1.4	20.8	3.6	19.2	2.0	20.1	3.4	18.9	1.6	17.3	0.5	8
9	21.3	0.8	22.3	3.3	21.5	2.2	22.2	4.9	21.5	3.2	21.6	4.0	21.5	3.0	21.0	3.0	9
10	22.2	1.4	22.8	3.5	20.7	1.7	23.0	5.7	20.9	2.8	22.4	4.6	21.9	3.9	21.5	3.5	10
11	23.8	2.8	23.5	4.3	23.8	4.8	23.5	6.7	22.1	3.6	21.0	3.1	23.0	5.2	22.6	4.1	11
Noon	24.0	2.9	24.0	5.0	23.4	4.7	24.0	6.4	21.0	2.3	22.8	5.5	23.4	6.1	21.0	2.3	Noon
13	24.2	2.9	24.1	5.1	23.7	4.9	23.9	6.4	22.9	4.7	23.0	5.5	23.7	6.5	19.5	1.3	13
14	23.5	1.7	23.9	5.6	23.7	5.0	23.6	5.4	22.8	5.0	22.6	4.8	23.4	6.6	22.5	3.8	14
15	24.5	2.5	23.6	5.3	23.1	5.4	23.0	4.7	22.3	4.0	22.5	5.2	23.2	6.2	21.2	2.2	15
16	24.4	3.7	22.5	5.3	22.7	5.0	22.4	4.8	22.2	4.2	21.9	5.2	22.4	5.2	21.5	2.5	16
17	23.4	3.0	21.4	5.0	21.5	4.1	21.3	4.0	21.2	3.5	21.3	4.9	21.4	4.2	21.4	3.1	17
18	21.2	2.2	19.8	3.6	20.0	3.7	20.0	3.0	19.8	2.7	19.4	3.5	19.7	3.0	19.8	2.1	18
19	19.5	1.5	17.8	1.8	19.0	2.9	19.6	2.7	19.4	2.4	18.4	3.1	18.3	2.3	19.3	1.9	19
20	19.0	1.4	17.2	2.0	18.6	2.6	19.2	2.2	19.3	2.4	18.3	3.0	17.8	2.0	18.9	1.9	20
21	20.0	1.6	16.5	1.9	19.1	2.1	18.1	1.8	18.6	2.4	18.3	3.1	16.9	1.9	18.7	1.7	21
22	20.7	2.3	16.0	1.7	19.3	2.1	18.6	2.0	18.6	2.5	18.7	2.8	15.7	1.4	18.3	1.5	22
23	20.6	1.8	15.3	1.3	19.2	1.9	18.4	1.4	17.8	2.0	17.6	2.4	15.3	1.3	18.5	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 obtain temperatures on the absolute scale add 273)

J U N E, 1939

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	18.5	1.7	17.0	3.1	18.2	2.1	19.1	1.4	19.1	0.8	19.4	1.7	17.7	1.1	19.7	1.5	Midnight
1	17.9	1.4	17.1	3.1	18.6	2.3	18.6	1.4	19.1	1.3	18.9	1.6	17.8	1.2	19.3	1.2	1
2	17.3	1.3	17.6	3.1	19.0	2.3	18.6	1.5	19.3	1.1	18.4	1.4	17.4	1.1	19.7	1.3	2
3	17.7	1.6	16.4	3.1	19.7	2.8	18.4	1.1	18.9	1.3	18.1	1.3	17.5	1.0	20.0	1.8	3
4	17.5	1.8	14.6	2.6	20.0	3.5	18.7	1.2	18.8	1.5	17.6	1.3	17.3	1.1	19.5	1.1	4
5	17.4	1.6	14.7	2.6	19.9	3.6	18.5	1.3	18.6	1.2	17.5	1.2	16.2	1.2	19.5	1.2	5
6	18.0	1.9	15.1	2.8	18.8	3.0	18.2	1.1	18.2	1.0	17.2	1.1	16.7	1.2	19.3	1.3	6
7	18.3	2.1	16.0	3.1	18.7	2.6	18.6	1.6	18.1	0.9	16.9	1.1	15.7	1.0	19.3	0.7	7
8	19.3	1.9	20.1	3.1	20.8	3.6	20.2	2.7	20.9	1.7	19.2	1.4	19.3	1.3	19.7	0.9	8
9	21.4	2.8	22.2	4.4	22.6	4.6	21.2	2.9	22.4	2.6	22.5	3.3	22.7	3.5	20.9	1.9	9
10	22.6	4.9	22.6	4.8	23.0	5.0	22.5	4.5	23.0	3.2	23.0	3.8	23.7	4.4	21.5	2.1	10
11	22.3	4.3	22.9	5.1	23.6	5.4	23.7	4.4	23.1	3.8	23.8	4.6	24.4	5.4	23.5	4.0	11
Noon	22.9	4.3	23.7	5.7	24.0	5.9	23.9	5.3	23.2	3.9	23.8	4.8	25.0	5.8	23.7	4.5	Noon
13	23.0	4.8	23.4	6.1	24.3	5.8	23.7	4.2	23.7	4.1	23.7	4.6	24.7	5.5	23.2	4.1	13
14	23.5	4.7	23.0	5.8	24.1	5.9	24.4	5.6	24.0	4.7	24.1	5.0	24.6	5.3	23.4	4.4	14
15	23.1	5.0	22.6	5.6	23.8	5.7	24.0	5.5	23.5	3.8	23.0	3.9	24.2	5.1	23.0	4.3	15
16	22.6	5.1	22.3	5.6	23.3	5.3	23.3	4.5	22.6	3.5	22.8	3.7	23.6	4.3	22.4	4.0	16
17	21.5	4.5	21.3	4.3	22.2	4.5	22.4	3.6	21.9	2.6	22.2	3.3	22.3	3.3	21.6	3.7	17
18	19.9	3.6	19.8	3.1	20.6	3.4	20.9	2.6	21.0	2.1	20.8	2.5	21.5	3.3	20.6	3.2	18
19	19.3	3.5	19.4	3.0	19.3	2.6	20.9	2.5	20.0	1.7	19.8	2.0	19.4	1.6	19.8	2.8	19
20	18.9	3.5	18.9	2.4	18.0	2.0	20.9	2.6	19.7	1.6	19.1	2.1	19.5	1.7	19.4	2.4	20
21	18.5	3.4	19.6	2.6	17.5	2.0	20.4	2.0	19.4	1.7	18.4	1.6	19.4	1.6	19.9	2.7	21
22	18.4	3.3	19.0	2.2	17.4	1.7	20.5	2.3	19.3	1.7	17.7	1.4	19.3	1.5	19.4	2.1	22
23	17.1	3.2	18.6	2.3	17.7	1.5	20.3	2.2	19.7	1.9	17.3	1.2	18.1	0.9	19.3	2.2	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	18.7	2.0	16.2	1.7	16.3	1.2	15.7	1.2	16.5	1.7	18.4	1.7			18.4	1.4	Midnight
1	18.7	2.5	15.5	1.5	15.9	1.1	15.4	1.1	16.9	1.7	16.6	1.6			18.3	1.5	1
2	18.8	2.5	14.3	1.4	15.4	1.0	15.2	1.1	16.1	1.5	15.2	1.3			18.1	1.4	2
3	18.5	2.1	14.2	1.2	15.6	1.2	15.0	1.0	15.8	1.5	14.4	1.4			17.8	1.4	3
4	19.0	1.7	14.7	1.4	14.9	1.1	14.8	1.0	15.9	1.3	15.0	1.2			17.8	1.4	4
5	18.4	1.4	14.3	1.1	14.6	1.3	14.3	1.1	16.0	1.4	17.5	2.7			17.8	1.5	5
6	19.0	2.2	14.3	1.1	15.5	1.3	15.6	1.2	15.8	1.3	18.1	3.4			17.9	1.5	6
7	17.6	1.3	14.2	1.0	16.0	1.3	17.0	0.8	17.2	1.7	17.9	3.4			18.2	1.4	7
8	20.2	3.0	16.3	0.8	18.6	1.8	18.6	1.3	18.6	2.3	19.5	4.0			20.0	2.0	8
9	20.5	2.8	21.6	3.4	21.5	3.8	20.0	2.0	21.0	3.7	21.4	4.8			21.9	3.0	9
10	22.3	4.1	22.7	4.5	22.6	4.4	21.3	3.0	22.3	4.6	22.6	5.2			22.5	3.5	10
11	23.1	5.0	23.6	5.4	23.4	5.0	21.8	3.5	23.4	5.4	23.3	6.0			23.4	4.2	11
Noon	23.6	5.8	23.6	5.4	23.3	4.1	22.5	3.9	24.0	5.9	23.7	6.6			23.7	4.5	Noon
13	23.7	6.1	23.8	5.3	24.3	5.3	23.0	4.5	23.1	5.5	23.6	6.2			23.7	4.5	13
14	23.3	5.9	24.0	6.0	24.0	4.7	23.0	4.6	22.7	4.9	23.4	6.4			23.7	4.6	14
15	23.0	5.0	23.3	5.8	23.7	4.7	22.9	4.3	22.3	4.6	23.0	6.0			23.4	4.3	15
16	22.3	4.4	22.3	4.1	23.1	4.2	22.1	4.5	22.0	4.5	22.3	6.0			22.9	4.1	16
17	21.3	3.6	21.2	3.5	22.7	3.8	20.8	3.6	21.4	4.0	21.5	5.7			22.0	3.5	17
18	19.4	2.6	19.4	2.4	21.2	2.9	19.4	3.0	20.3	2.9	19.8	4.4			20.7	2.7	18
19	18.0	1.8	18.9	2.1	19.0	2.1	19.0	2.7	20.0	2.8	19.3	4.2			19.8	2.2	19
20	17.7	1.9	18.6	1.9	17.9	1.7	18.6	2.4	19.6	2.3	19.0	3.8			19.5	2.1	20
21	18.0	2.3	18.3	1.7	17.2	1.5	18.0	2.2	19.3	2.3	19.2	2.8			19.2	1.9	21
22	17.3	2.3	18.2	1.8	16.3	1.4	17.4	2.1	19.3	2.5	19.7	2.5			19.0	1.8	22
23	17.4	2.2	16.8	1.2	16.0	1.3	17.2	2.0	18.8	1.9	19.9	2.5			18.7	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 JUNE, 1939

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 *)

JUNE, 1939

Hour \ Day	1 Dir.	1 Vel.	2 Dir.	2 Vel.	3 Dir.	3 Vel.	4 Dir.	4 Vel.	5 Dir.	5 Vel.	6* Dir.	6* Vel.	7 Dir.	7 Vel.	8* Dir.	8* Vel.	9* Dir.	9* Vel.	10 Dir.	10 Vel.	11 Dir.	11 Vel.	12 Dir.	12 Vel.	13 Dir.	13 Vel.	14 Dir.	14 Vel.	15 Dir.	15 Vel.	16 Dir.	16 Vel.
Mid-night	11	0.8	11	2.4	10	1.8	10	1.6	07	2.4	11	2.7	17	1.2	10	0.8	20	0.8	12	2.9	12	1.6	10	3.2	08	1.7	12	2.7	12	2.0	16	1.9
1	11	2.0	10	2.5	10	1.4	10	2.8	08	2.5	10	4.0	17	0.8	10	1.6	20	0.6	14	3.0	11	1.4	11	4.3	11	2.6	11	2.6	12	1.6	12	1.6
2	11	1.2	10	2.4	10	1.9	08	2.9	08	2.2	09	3.3	16	2.8	10	1.1	20	1.0	14	1.6	12	0.8	12	4.4	11	2.4	11	2.3	12	1.9	12	1.5
3	11	1.9	10	2.4	10	1.7	07	2.6	08	2.8	06	3.1	16	0.9	10	1.1	20	0.8	13	1.2	12	1.1	11	4.2	12	1.3	11	1.9	10	2.5	12	1.4
4	11	1.5	10	2.8	10	2.2	07	2.9	08	2.3	07	3.4	16	0.8	07	1.0	20	0.6	12	3.1	14	2.3	07	1.6	11	4.2	11	2.8	11	1.7	12	1.8
5	11	1.7	10	2.4	10	1.6	08	3.2	08	3.2	08	2.4	16	0.9	10	1.0	20	0.6	12	2.9	13	1.3	08	1.1	11	3.0	12	4.3	11	1.6	12	2.2
6	11	1.6	10	1.7	10	2.0	06	2.4	08	2.7	08	3.0	11	2.4	10	0.9	20	0.7	14	1.5	18	0.7	11	3.7	11	2.9	11	3.5	10	2.1	12	1.7
7	12	2.4	10	2.6	10	2.6	09	4.0	08	2.8	07	2.0	12	2.9	10	1.0	20	1.0	12	3.1	13	1.4	11	3.5	12	2.1	12	4.2	10	2.8	12	1.2
8	13	0.8	10	3.4	09	1.1	10	2.9	08	2.9	09	1.9	09	4.1	10	0.7	20	0.8	13	2.8	13	1.7	11	3.4	12	3.5	11	4.5	11	3.6	11	1.7
9	10	2.4	09	4.1	06	3.3	06	3.9	08	3.5	07	1.9	09	4.4	07	1.0	20	0.8	13	4.0	11	4.5	12	5.0	10	4.4	12	5.5	10	5.1	11	2.8
10	09	3.5	11	4.8	07	4.4	06	4.1	06	3.4	07	1.7	09	4.1	03	2.3	23	0.9	12	5.8	10	3.4	12	6.4	11	6.9	11	6.8	11	5.6	10	5.1
11	10	4.1	08	5.7	08	5.3	08	4.9	07	3.6	11	2.3	09	4.1	03	2.8	23	1.9	12	6.1	12	5.4	12	6.7	11	5.7	10	7.2	12	6.2	12	5.2
Noon	11	4.3	08	4.8	07	5.2	07	4.1	05	3.7	08	3.0	10	4.3	01	3.4	24	3.0	12	5.8	11	6.3	11	5.9	09	6.1	08	7.1	09	6.4	10	4.8
13	10	4.0	09	5.4	07	5.5	07	3.8	08	3.6	08	3.9	09	5.5	32	3.6	20	4.4	14	6.1	12	6.6	12	5.9	11	5.3	12	7.5	12	5.8	11	4.7
14	09	3.9	09	5.0	08	5.0	08	1.9	06	2.9	06	3.3	08	4.1	03	3.0	20	3.2	12	6.2	11	6.5	10	6.6	11	6.5	12	6.5	10	6.1	08	5.0
15	09	4.1	10	5.7	07	4.6	07	1.8	08	2.9	07	3.7	06	4.1	32	3.1	20	3.2	12	5.1	12	6.5	11	6.5	12	6.0	10	6.2	11	4.9	05	4.0
16	11	4.4	10	5.2	07	4.0	02	3.1	09	2.4	08	3.2	08	3.0	32	1.5	d19	3.2	12	5.8	12	5.5	09	5.9	12	6.7	11	5.3	12	5.2	07	3.3
17	10	3.8	09	3.9	08	3.6	06	1.7	10	2.2	08	1.8	07	2.7	32	0.6	19	1.2	12	4.3	12	4.6	10	4.7	11	5.6	10	3.0	12	3.6	11	3.5
18	11	2.2	10	3.1	08	1.7	07	1.2	10	1.4	08	1.4	10	1.2	32	1.1	16	1.6	13	1.4	12	3.3	10	3.9	11	3.8	11	2.0	12	1.5	11	2.6
19	10	1.0	10	2.9	08	1.7	07	2.0	10	2.4	14	0.8	10	1.5	32	1.0	16	1.1	12	1.1	12	3.1	10	3.4	12	2.8	11	2.1	12	1.2	12	1.6
20	10	1.1	10	2.8	08	1.7	07	2.4	10	2.5	18	1.8	10	0.9	05	0.6	16	0.6	12	1.2	11	2.6	10	2.9	11	3.5	11	1.9	16	1.6	12	1.9
21	10	1.8	10	3.1	09	1.7	07	2.4	10	2.9	d25	0.6	10	1.0	05	2.0	15	1.8	12	1.8	11	3.4	10	2.8	12	2.4	11	2.8	16	1.0	11	2.4
22	10	2.1	10	2.7	10	2.4	08	3.0	11	3.1	17	1.0	10	1.5	20	2.4	14	1.8	12	1.9	12	3.6	12	4.4	12	3.1	11	2.5	16	0.9	11	1.9
23	11	2.1	10	2.3	10	1.8	06	2.8	10	3.0	17	1.0	10	1.1	20	1.3	12	1.6	12	2.2	12	3.1	10	2.7	11	2.7	12	2.2	16	1.3	11	2.1

Hour \ Day	17 Dir.	17 Vel.	18 Dir.	18 Vel.	19 Dir.	19 Vel.	20 Dir.	20 Vel.	21 Dir.	21 Vel.	22 Dir.	22 Vel.	23 Dir.	23 Vel.	24 Dir.	24 Vel.	25 Dir.	25 Vel.	26 Dir.	26 Vel.	27* Dir.	27* Vel.	28 Dir.	28 Vel.	29 Dir.	29 Vel.	30 Dir.	30 Vel.	Mean Velocity
Mid-night	10	2.6	10	2.7	11	2.2	09	3.4	06	3.1	10	2.5	11	1.5	10	2.5	11	3.1	11	1.7	13	1.2	11	2.2	13	2.9	13	1.3	2.1
1	10	2.4	11	3.1	11	2.7	10	2.8	12	3.5	10	1.8	12	1.8	11	2.3	12	2.1	11	1.1	13	1.8	12	1.8	12	2.8	13	1.0	2.2
2	10	2.1	11	2.7	11	3.4	12	2.5	12	4.1	10	2.6	12	1.7	10	3.0	11	2.2	11	1.2	13	1.8	12	2.4	12	2.4	13	1.1	2.2
3	13	2.2	12	2.3	11	4.0	09	2.7	12	2.7	10	1.9	12	1.7	12	3.2	11	2.7	11	1.5	13	1.8	12	2.3	12	2.0	12	1.6	2.1
4	12	3.3	12	1.4	11	4.7	11	4.8	10	2.9	11	2.0	12	1.1	12	2.6	11	2.8	11	1.5	11	1.2	12	1.8	12	2.0	11	2.4	2.3
5	12	2.7	12	1.7	10	3.6	12	2.5	11	2.4	11	1.8	13	1.1	11	3.1	10	2.5	11	1.9	14	1.1	12	1.6	12	1.6	11	3.5	2.1
6	11	3.8	12	1.8	11	3.0	05	0.7	11	2.4	11	1.8	14	1.5	11	3.3	11	2.6	11	2.0	13	1.5	12	2.3	12	1.5	12	4.2	2.2
7	10	3.6	12	2.3	11	3.0	11	2.3	11	2.0	12	1.4	14	0.7	07	2.0	10	2.2	11	1.7	10	1.8	10	1.6	12	2.3	12	4.0	2.3
8	10	2.8	12	3.2	11	3.4	12	1.8	10	2.9	11	1.4	14	0.6	11	3.5	12	3.0	11	1.3	10	1.7	11	2.1	13	3.1	12	3.9	2.5
9	09	3.1	09	4.3	09	4.4	11	3.9	11	3.9	10	2.8	11	2.8	10	4.2	11	4.5	11	2.0	10	1.0	12	1.5	13	4.2	13	3.9	3.4
10	12	3.0	12	6.0	09	5.0	10	4.4	09	4.9	08	4.2	11	3.4	10	5.6	11	5.0	10	2.3	10	1.1	14	3.1	13	3.2	11	5.3	4.2
11	11	6.3	10	6.3	11	5.8	04	5.2	08	5.0	08	3.5	08	3.7	11	5.9	12	5.0	07	2.9	03	1.3	14	3.3	11	2.5	13	5.9	4.7
Noon	09	5.5	10	5.8	10	5.6	11	5.0	08	5.1	09	3.1	14	4.1	12	7.0	11	4.5	08	3.1	25	2.1	12	3.1	11	3.3	11	6.4	4.7
13	09	5.5	11	6.5	09	5.8	09	5.4	09	4.9	07	3.1	13	4.4	08	6.5	09	5.2	11	2.9	24	2.8	12	2.7	11	2.6	12	6.3	4.9
14	11	5.9	09	5.7	11	6.2	11	5.9	09	5.3	09	4.0	12	4.6	09	6.9	11	5.3	09	3.5	27	2.4	13	2.0	11	2.6	12	6.0	4.7
15	10	6.0	11	5.6	09	5.4	09	4.7	08	5.4	09	2.5	13	4.4	10	6.8	09	5.0	11	1.8	25	2.2	12	2.4	12	3.7	11	7.1	4.5
16	11	5.6	10	5.2	11	4.8	09	5.0	09	5.1	12	0.8	12	4.1	10	6.3	11	4.7	14	1.8	27	1.8	12	4.4	13	4.8	12	6.3	4.3
17	10	5.7	09	4.0	11	4.2	10	4.4	09	4.0	11	3.0	10	2.7	10	5.6	10	4.0	11	1.8	28	1.7	12	3.3	12	5.1	10	4.5	3.5
18	11	3.6	11	2.5	10	2.4	10	2.9	10	2.9	11	1.7	11	2.1	10	3.7	10	1.5	11	1.9	31	1.5	13	3.6	12	3.6	12	3.8	2.4
19	10	3.9	11	2.5	10	1.5	11	3.5	10	2.3	11	1.2	11	1.7	10	2.7	10	0.7	11	2.4	31	1.4	13	4.2	12	2.3	10	4.0	2.1
20	10	2.9	10	2.6	10	1.6	10	3.4	10	2.4	11	2.4	12	2.6	10	2.7	10	1.3	11	1.5	11	1.9	13	2.4	14	2.2	10	2.8	2.1
21	11	2.5	11	2.7	10	1.6	10	2.8	10	2.3	11	1.1	11	2.6	10	2.5	11	1.4	12	1.5	11	1.8	12	2.7	13	3.3	11	2.5	2.2
22	11	2.8	11	2.4	11	1.5	11	3.3	10	2.0	12	1.8	11	2.7	11	2.9	11	1.7	13	1.6	11	2.1	12	2.4	13	4.0	10	4.9	2.5
23	11	2.4	11	2.1	10	1.5	12	2.7	10	3.1	12	1.7	11	1.5	10	3.2	10	1.8	13	1.5	11	2.0	12	2.6	13	3.5	10	3.7	2.2

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS), J U N E, 1 9 3 9

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	3	5	19	-	1	-	1	-	-	-	-	-
9	-	1	29	-	-	-	2	8	6	13	-	-	-	1	-	-	-	-	-
15	-	9	21	1	-	1	1	10	4	11	-	-	-	1	-	1	-	-	-
21	-	-	30	-	-	1	-	2	9	15	-	2	-	-	-	1	-	-	-
Totals				1	-	2	4	23	24	58	-	3	-	3	-	2	-	-	-

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR J U N E, 1939

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	1.6	..	4.3	..	..	..	..	..	..	0.2	..	..	..	0.1	0.1	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	0.2	1.1	..	2.5	0.7	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..
3	..	..	..	0.5	0.1	3.3	0.3	..	0.7	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	1.2	1.4	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	0.1	0.3	..	2.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	1.3	..	1.4	0.2	..	..	..	0.1	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	0.2	..	0.4	..	..	0.1	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	1.9	..	..	..	..	..	..
8	..	..	..	0.3	..	0.1	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	3.1	0.2	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	3.7	..	0.1	..	..	..	..	..	..	1.9	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..
11	..	..	..	..	0.1	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Noon	..	..	..	0.1	..	0.1	..	..	..	..	..	..	0.1	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	2.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	3.8	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	1.8	..	[illegible]	..	1.2	[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	2.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	3.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	1.4	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	5.9	..	1.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	1.3	..	13.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	1.1	..	3.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	0.8	1.3	0.2	5.0	..	..	..	..	..	..	..	..	..	..	..	.7	..	..	..	..	..	..	..	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR JUNE, 1939

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	0.4	0.8	..	1.3	1.0	..	0.6	..	..	..	..	..	..	..	..	1.6	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	0.8	..	1.7	0.1	..	0.2	..	..	..	..	..	..	..	1.3	1.0	..	..	1.2	..	..	..	..	..	..
3	..	..	..	..	..	2.0	0.9	..	0.3	0.2	..	0.3	..	..	..	..	..	..	..	0.7	0.6	..	..	0.4	..	..	..	..	..	..
4	..	..	..	..	..	3.4	0.1	..	0.2	..	..	0.2	0.4	..	0.9	..	..	..	..	1.5	..	..	..	1.4	..	..	..	..	..	..
5	..	..	..	..	..	19.5	..	0.3	0.3	..	0.1	..	0.4	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	0.4	..	0.4	0.9	..	1.0	..	0.4	..	0.6	..	..	..	..	..	..	..	..	0.7	..	..	..	..	..	..
7	..	..	..	0.7	..	..	0.1	1.9	..	..	0.4	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	1.2	..	..	2.3	..	0.5	..	0.6	..	..	..	..	0.3	..	..	..	0.3	..	..	..	..	..	..
9	..	..	..	..	..	..	..	0.3	..	..	0.6	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	2.2	..	..	..	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Noon	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	0.4	2.3	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	1.8	0.2	..	..	..	0.4	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	0.3	1.2	..	..	..	1.1	..	..	..	0.5	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	0.7	..	..	..	0.3	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	0.6	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..
19	..	..	..	0.1	..	0.2	..	0.3	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	1.1	..	1.4	..	..	..	0.3	..	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..
21	..	..	..	0.1	..	1.0	..	3.0	..	..	..	0.5	..	0.1	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..
22	..	..	..	0.1	0.5	4.6	..	4.0	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..
23	..	..	..	0.2	..	1.5	..	2.2	0.2	..	0.4	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..
24	..	..	..	0.3	0.1	0.5	..	2.5	2.2	..	0.2	0.6	..	..	..	..	..	..	..	2.1	..	..	..	..	..	..	..	..	0.2	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR J U N E, 1 9 3 9

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall Inches	Total Fall Millimetres	Normal in Inches	Number of days
1	Mare Seche	20	4.44	112.8	2.41	15
	St Antoine	50	4.32	109.7	2.40	11
	Bel Mont	50	4.31	109.5	2.85	7
	Poudre d'Or	20	4.43	112.5	2.74	7
	Mon Loisir S.E.	300	4.33	110.0	3.91	13
	Forbach	300	...	...	2.55	..
	Couroupa	...	3.83	97.2	2.43	7
	Labourdonnais	290	3.15	80.0	3.02	9
	Mapou Water Office	...	3.23	82.0	...	5
	Beau Sejour	300	4.27	108.5	4.05	15
	Mont Piton	650	3.57	90.7	4.59	13
	Mon Choix	700	3.04	77.2	4.36	12
	Antoinette	640	4.64	117.9	4.40	10
	Mon Songe	620	4.39	111.5	4.48	14
	Botanical Gardens	325	4.48	113.8	3.01	15
	The Observatory	179	3.59	91.2	2.41	14
	Solitude	175	3.76	95.5	1.38	7
	St Andre-Cour	90	3.30	83.8	1.87	4
	La Nicoliere	...	5.19	131.8	5.29	16
	California	...	5.77	146.6	4.71	9
	Australia	...	4.90	124.5	...	12
2 & 3	Union Regnard S.E.	600	5.06	128.5	5.04	17
	Constance d'Arifat	100	3.89	98.8	4.18	16
	Rich Fund	600	4.11	104.4	4.57	19
	La Joffrette	...	4.15	105.4	...	15
	Belle Vue Allendy	...	4.54	115.3	3.74	17
4	Sans Souci	900	7.83	198.9	10.16	18
	Beau Champ G.R.S.E.	40	3.26	82.8	4.10	18
	Olivia	200	5.34	135.6	6.03	19
	Trois Ilots	...	4.43	112.5	...	16
	Belle Rive	400	7.04	178.8	6.27	20
	Sebastopol	700	5.69	144.5	...	17
	Bonne Veine	400	6.18	157.0	6.55	17
5	Rose Belle	850	9.96	253.0	8.31	22
	New Grove	650	11.10	281.9	9.60	20
	Mon Tresor	...	4.98	126.5	...	14
	Mon Desert Carie	75	3.19	81.0	3.78	17
	Ferney	20	5.10	147.3	6.20	12
	Sauveterre	...	3.34	84.8	...	13
	Tivoli	1300	8.50	215.9	9.35	20
	La Flora	1050	10.02	254.5	8.16	19
	Riche Bois	650	7.40	188.0	5.87	17
6	Britannia Estate	700	6.73	170.9	8.19	19
	Savannah Mill	200	4.75	120.7	4.84	15
	St Aubin	300	6.93	176.0	4.94	20
	St Avold	900	7.66	194.6	7.72	18
	Colmar	400	7.15	181.6	6.75	15
	Union S.E.	...	7.80	198.1	3.37	12
	Fontenelle	320	7.32	185.9	4.61	14
	Choisy	200	2.96	75.2	3.25	5
	Beau Bois	...	7.62	193.5	...	21
	Bel Air	...	6.16	156.5	3.42	8
	St Felix	...	7.50	190.5	...	8
7, 8, 9 & 10	Bel Ombre	40	6.58	167.1	3.64	18
	Beau Champ Baie du Cap	70	6.42	163.1	2.79	18
	Frederica	...	7.36	186.9	3.27	17
	Pierrefonds	...	2.84	72.1	1.11	13
	Ste Marie	...	6.48	164.6	...	16
	Hussonia	...	...	...	...	...
11	Curepipe Gardens	1840	6.74	171.2	7.55	20
	Mare aux Vacoas G.End	1850	8.19	208.0	7.79	21
	Mare aus Vacoas Arnaud	1830	11.70	297.2	10.62	20
	La Marie Filter Beds	1700	4.91	124.7	6.01	16
	Sophie	...	9.21	234.0	...	25
	Reunion	1420	4.84	122.9	4.60	15
	Aerological Station	1393	4.29	109.0	3.85	17
	Phoenix	...	4.04	102.6	...	11
	Quatre Bornes	...	2.76	70.1	...	13
12	Quatre Bornes Board	1090	3.47	88.1	...	9
	Le Reduit Dept.of Agriculture	1000	3.69	93.8	2.33	20
	Alma	1460	6.36	161.5	7.84	17
	Bagatelle	1250	5.52	140.2	4.33	15
	Highlands	1300	5.46	138.7	4.78	16
	Trianon	950	3.52	89.4	2.71	14
	Val Ory	1100	4.32	109.7	3.10	13
	Bassin	...	2.69	68.3	1.35	11
	Hermitage	1450	5.24	133.1	7.27	16
	Ebene	...	3.70	94.0	...	14
	Bega	...	3.84	97.5	...	13
	Mon Reve	...	3.89	98.8	...	13
	Mont Pevril	...	3.44	87.4	...	12
	Minissy	1150	3.83	97.3	3.00	13
	Plaisance	...	3.17	80.5	...	11
	La Ferme	350	2.63	66.8	1.35	8
	Line Barracks	...	2.85	72.4	...	11

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION, VAGOAS, 424.5 METRES ABOVE SEA LEVEL, DURING THE MONTH OF JUNE, 1939

Type / Day	Time	St. & Fs.		Cumulus Cu. St. & c		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus		Time	St. & Fs.		Cumulus Cu.St & c		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus	
		Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height		Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height
1	10	...	...	120	10.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	15¼	...	...	240	5.8	255	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	...	135	17.4	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	13¼	150	5.9*	...	...	...	...	...	...	...	...	...	...
22	9¾	...	...	...	...	330	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	11¼	...	...	90	8.3*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	11¼	...	...	330	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

The direction is that from which the cloud travels counting North (0°) East (90°) South (180°). The velocity-height ratio is given in milliradians per sec.

* Observatory Pamplemousses.

C/ma 40
40 m

NEW SERIES (MONTHLY) VOL. XXVI PART X

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MAURITIUS

ROYAL ALFRED OBSERVATORY

LATITUDE 20°5' 39" S., LONGITUDE 3h50m12.6s

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

OCTOBER, 1940

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

DIRECTOR

PUBLISHED IN 1964 BY

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Table I - Results of Magnetical Observations made during the month of October, 1940

Month and Day	Mean Declination (West)	Mean Horizontal Force (C.G.S. Units)	Mean Vertical Force (C.G.S. Units)	Daily Range (Unit)				
October								
1	14°01'2	.22363	.29890	11.3	106	38	238	113
3	2.0	381	892	5.7	65	27	146	80
6	1.5	416	887	9.0	68	30	52	90
8	...	...	893	...	..	16	..	48
10	2.9	409	890	10.3	39	31	88	92
12	2.4	425	887	5.0	38	23	85	69
14	2.0	432	884	8.6	43	35	96	104
16	1.9	424	884	9.8	47	38	106	113
18	2.1	436	886	11.5	39	22	87	66
20	2.0	426	887	7.0	37	20	83	60
22	2.2	420	886	9.5	61	24	137	72
24	2.3	423	888	9.0	25	13	56	39
26	1.5	426	893	8.5	134	20	300	60
28	2.6	404	892	7.0	18	26	40	77
30	2.3	433	889	6.0	28	25	63	74
Mean	14°2'.18	.22416	.29889	8.39	4.75	25.6	106.4	76.5

Description of the Principal Magnetic Disturbance

Declination. 1d. Disturbed during second half; trace becomes quiet after 2d.1h. Well marked waves of the order of 35 with small oscillations superposed.

2d. Slightly disturbed.

3d. 21h.30m. to 23h.45m. Single large positive wave - bay disturbance - (47).

6d. Slightly disturbed with sudden commencement at 13h. 45m.

7d.,8d. and first part of 9d. Moderately disturbed. Bay-disturbance (32)starting at 3h. 15m.

15d. Slightly disturbed.

16d. Single large positive wave (35) between 21h. and 23h.

18d.,19d. & 20d. Very moderately disturbed. Irregular features at times followed by small pulsations.

21d. & 22d. Slightly disturbed.

25d. from 18h. & 26d. Disturbed; very irregular oscillations in general; absolute range on 26d.-(153).

29d. starting at 6h.-small bay-disturbances (25).

Vertical Force. 1d. Disturbed during second half - irregular oscillations

7d. & 8d. Slightly disturbed

18d.,19d.& 20d.Small pulsations throughout

25d. Second half and 26d. Very moderately disturbed; minor features of irregular character.

T = .37361, Mean Dip = 53°7'.75 X = .21746 Y = -.05437 Z = .29889

TABLE II - Results of ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF SEPTEMBER, 1940

Declination (West)		Horizontal Force		Dip (South)		Resulting
Day and hour	Observed Value	Day and hr	Observed Value	Day and hour	Observed Value	Vertical Force
d. h. m.	° '	d. h. m.		d. h. m.	° '	
1.14. 57	13.54 .4	4.11.18	.22440	1.14.17	53.09.50	.29897
8.14. 52	13.57. 3	9. 9.50	22481	8.15.06	53.13.95	.29899
15.14. 48	13.53. 5	12.10.41	.22440	15.14.58	53.05.25	.29876
18.15. 05	13.55. 6	16.10.40	.22447	18.14.54	53.04.32	.29875
25.14. 30	13.55. 7	19. 9.41	.22428	25.14.42	53.04.03	.29877
31.15. 16	13.57. 6	23. 9.28	.22432	31.15.28	53.07.25	.29882
		31. 9.30	.22426			

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

OCTOBER, 1940

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	627	640	633	633	630	627	633	..	660	630	633	633	625	627	623	623	Midnight
1	623	643	635	630	630	627	635	..	650	633	640	635	625	627	625	622	1
2	630	638	637	633	630	627	..	..	630	630	640	635	630	627	625	625	2
3	630	638	638	625	635	625	..	640	620	627	640	640	630	630	625	625	3
4	630	640	637	630	635	625	..	640	580	630	640	633	627	635	630	630	4
5	607	640	640	630	635	625	..	640	580	630	640	633	627	635	630	630	5
6	610	635	630	620	623	630	607	615	623	630	635	633	635	639	637	635	6
7	600	635	635	600	620	610	610	..	627	640	635	630	655	645	650	645	7
8	620	645	633	610	623	623	615	..	630	660	640	635	660	653	663	655	8
9	630	655	630	620	625	630	620	..	645	675	647	637	665	645	665	645	9
10	640	657	627	637	637	643	623	..	655	683	645	635	660	635	655	647	10
11	650	640	620	650	635	645	635	620	650	670	640	630	640	620	625	630	11
Noon	610	625	613	640	620	635	625	600	635	650	630	620	615	595	600	600	Noon
13	610	625	613	640	620	635	625	600	635	650	630	620	615	595	600	600	13
14	537	600	557	590	567	560	..	570	585	595	590	590	575	567	567	557	14
15	550	600	570	590	570	555	575	580	583	585	580	595	583	580	585	575	15
16	580	610	595	600	585	660	580	600	597	580	587	605	600	597	600	590	16
17	590	620	610	620	615	590	595	620	605	595	600	617	615	615	615	610	17
18	595	620	620	623	620	605	610	633	617	607	615	620	623	623	617	620	18
19	610	615	617	622	623	613	625	635	620	617	617	622	620	620	617	613	19
20	620	620	620	623	620	615	...	645	623	623	623	623	620	620	615	620	20
21	640	630	627	630	625	625	530	660	627	625	625	623	622	620	620	625	21
22	650	623	635	627	625	627	550	660	625	627	627	625	625	623	630	643	22
23	650	630	630	630	627	630	550	663	630	630	630	627	627	625	627	635	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	635	623	625	630	627	630	627	627	627	627	650	630	640	630	630	631	Midnight
1	630	625	635	590	620	610	625	625	625	640	645	635	635	630	633	629	1
2	625	625	617	615	617	613	623	625	625	620	630	635	635	630	630	635	2
3	627	620	620	625	625	620	620	623	623	640	643	630	635	635	635	629	3
4	625	630	625	630	627	625	627	625	625	630	645	630	635	637	635	629	4
5	630	633	630	627	635	630	633	627	627	643	655	630	637	640	630	633	5
6	630	635	635	627	635	635	640	630	625	630	640	630	640	640	640	632	6
7	645	650	640	635	650	647	655	647	635	630	647	643	650	645	655	638	7
8	650	667	640	635	663	655	660	655	640	640	665	660	647	650	657	646	8
9	647	675	655	650	663	660	665	660	640	635	667	660	650	645	650	650	9
10	640	670	650	647	665	660	655	650	635	625	660	655	660	635	645	649	10
11	625	630	645	630	640	640	640	640	620	610	640	630	640	625	600	634	11
Noon	595	610	600	610	620	615	615	620	600	590	620	610	620	600	585	614	Noon
13	575	580	575	585	590	585	580	590	565	565	590	590	610	595	560	586	13
14	567	563	560	580	577	565	563	570	557	560	580	595	600	590	555	573	14
15	575	560	565	590	587	585	560	575	570	575	590	597	597	595	570	579	15
16	590	580	580	600	610	590	580	587	590	580	600	600	600	595	557	591	16
17	610	605	600	620	620	610	605	610	610	610	620	607	617	610	615	610	17
18	620	617	610	625	620	613	617	625	620	615	627	617	623	623	623	618	18
19	620	615	620	623	623	620	620	625	615	600	625	623	623	620	625	619	19
20	620	620	625	625	627	625	623	627	610	600	630	625	620	620	625	621	20
21	623	620	630	627	635	627	625	627	615	620	630	627	622	622	627	626	21
22	621	623	627	627	633	630	627	630	610	630	635	630	625	623	630	628	22
23	620	627	630	630	635	630	630	627	620	645	645	635	630	627	630	631	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)

OCTOBER, 1964.

.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	391	352	368	389	400	409	400	...	342	399	393	407	420	421	429	422	Midnight
1	410	353	375	393	400	408	402	...	353	401	395	407	413	419	427	427	1
2	400	361	386	397	401	410	...	...	365	405	395	405	425	421	427	421	2
3	403	365	385	408	402	413	...	...	375	406	397	410	420	420	428	425	3
4	402	366	387	402	403	416	...	372	405	409	396	427	417	421	431	421	4
5	421	373	390	407	407	417	..	390	390	411	403	436	417	422	437	421	5
6	410	380	393	410	403	417	418	390	392	411	402	429	419	421	440	424	6
7	405	393	400	415	406	422	421	395	397	412	401	433	425	422	442	437	7
8	403	401	400	412	407	427	427	397	398	412	402	435	427	427	451	437	8
9	401	402	397	415	414	431	427	380	400	415	407	433	430	440	453	434	9
10	399	408	399	421	425	437	425	371	407	424	410	432	436	445	450	438	10
11	408	410	405	429	437	443	405	365	413	427	419	437	437	457	451	442	11
Noon	405	411	403	431	435	442	383	356	411	431	416	442	438	462	460	427	Noon
13	407	417	395	425	437	443	378	350	405	425	416	440	436	455	455	432	13
14	397	411	390	427	435	453	...	347	398	418	415	443	440	450	442	437	14
15	375	393	380	425	423	432	387	340	392	403	410	435	441	442	445	437	15
16	372	389	370	413	412	420	375	337	391	394	401	421	431	437	433	439	16
17	360	378	363	402	400	394	342	340	392	392	401	425	422	433	425	430	17
18	351	365	365	398	391	385	347	354	393	393	401	422	419	430	437	418	18
19	360	365	367	396	394	397	315	385	395	402	400	421	417	427	425	404	19
20	354	369	363	395	401	392	308	372	392	406	397	414	416	425	422	399	20
21	335	363	367	395	404	390	304	381	395	407	397	415	417	423	419	395	21
22	315	357	385	399	406	389	291	385	394	406	397	418	417	424	423	405	22
23	335	365	403	400	403	393	297	377	396	398	402	417	418	428	420	410	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	400	431	421	418	417	419	410	415	421	465	371	411	412	422	431	407.2	Midnight
1	410	435	410	435	421	420	414	413	420	450	381	405	420	423	426	409.1	1
2	420	435	427	431	429	427	413	414	423	440	400	403	418	427	427	412.2	2
3	420	446	431	425	430	432	412	417	423	420	389	409	419	428	426	413.2	3
4	425	440	430	421	430	424	413	419	423	420	385	405	419	426	429	414.2	4
5	430	437	423	423	429	423	415	420	424	442	385	405	418	430	430	416.8	5
6	435	435	427	424	432	424	415	419	425	442	389	405	417	431	425	417.1	6
7	442	440	428	425	435	422	419	419	432	437	387	403	418	430	420	419.6	7
8	442	442	423	427	440	429	420	419	439	434	380	404	423	432	418	421.1	8
9	450	443	424	431	440	440	429	420	446	448	369	407	423	440	425	424.4	9
10	460	455	430	434	437	430	437	427	453	457	380	415	427	446	435	429.5	10
11	467	435	435	440	433	437	441	433	459	460	380	412	426	450	443	433.3	11
Noon	472	431	431	450	438	445	437	435	461	477	384	410	422	448	442	434.4	Noon
13	479	449	410	450	439	446	437	438	467	475	387	403	415	447	446	433.7	13
14	480	452	415	432	436	437	437	437	465	456	381	399	412	449	435	430.3	14
15	467	450	420	425	415	410	430	430	453	440	372	402	408	440	423	421.3	15
16	454	441	411	421	417	385	430	427	438	445	367	401	409	435	416	414.5	16
17	440	435	391	417	423	389	417	423	430	438	378	397	411	426	417	408.6	17
18	433	424	405	413	421	403	417	421	438	410	390	399	417	425	412	406.8	18
19	427	427	410	417	420	408	419	419	447	380	385	400	416	429	405	406.2	19
20	427	425	410	416	410	410	419	419	449	395	397	403	417	428	395	405.7	20
21	428	426	410	418	420	411	416	418	450	355	393	402	420	428	398	404.0	21
22	431	420	411	416	420	412	417	421	465	343	394	401	420	429	406	404.9	22
23	432	413	412	413	417	410	417	420	460	352	397	403	421	428	417	406.9	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, 1940

.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	890	898	897	893	893	893	893	908	905	895	893	892	888	887	887	888	Midnight
1	887	899	897	893	893	893	892	908	903	895	894	892	889	887	887	887	1
2	888	897	894	892	892	893	892	907	900	895	895	893	889	887	887	887	2
3	888	897	893	891	892	892	892	905	899	895	896	893	889	887	887	887	3
4	888	897	893	890	892	891	893	902	895	895	896	893	889	889	887	888	4
5	887	896	893	891	891	891	890	902	899	896	893	892	892	883	888	889	5
6	887	895	893	887	889	888	888	894	901	895	894	891	893	891	888	891	6
7	890	896	893	888	890	889	889	895	901	898	894	892	895	893	892	892	7
8	896	898	897	894	893	894	894	899	902	902	898	893	897	897	893	894	8
9	898	900	896	901	897	897	899	903	903	902	899	893	897	893	892	892	9
10	900	897	897	907	899	897	902	907	907	898	898	893	895	888	887	888	10
11	897	894	895	905	895	893	905	910	907	892	895	889	887	882	882	878	11
Noon	883	889	886	896	885	885	905	910	907	880	889	883	875	868	872	867	Noon
13	867	879	877	883	880	873	900	903	902	872	883	874	866	862	853	867	13
14	886	873	874	873	877	867	897	897	898	871	877	870	863	864	867	859	14
15	873	877	878	873	881	868	894	897	896	874	878	873	867	873	876	869	15
16	883	878	884	873	885	873	893	898	896	877	884	882	876	880	883	876	16
17	887	883	888	879	890	879	895	900	894	882	889	883	883	884	886	882	17
18	891	887	889	885	890	887	897	902	895	887	890	884	884	886	886	884	18
19	893	889	891	887	891	887	893	900	895	888	891	885	885	885	885	886	19
20	897	892	893	888	891	888	903	903	895	890	892	886	886	885	886	889	20
21	904	896	896	889	891	893	904	905	895	891	892	887	887	886	887	892	21
22	904	896	897	892	891	893	909	905	896	892	892	888	887	887	890	895	22
23	902	897	893	892	892	893	909	906	895	893	892	889	887	887	888	888	23

.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	892	888	891	889	891	890	892	889	889	887	902	895	894	892	890	892.6	Midnight
1	891	887	890	886	889	887	892	890	890	886	901	895	892	892	890	892.1	1
2	888	887	888	887	889	888	892	890	890	889	898	896	892	892	890	891.7	2
3	888	887	888	887	889	888	892	890	890	893	900	897	893	892	890	891.8	3
4	888	888	888	888	889	888	893	890	891	893	901	897	893	892	891	891.9	4
5	888	889	890	888	890	889	893	890	891	892	901	898	894	893	892	892.3	5
6	890	892	889	889	891	890	893	891	890	890	899	899	896	893	893	891.9	6
7	892	895	889	891	894	892	894	893	891	888	900	902	900	898	897	893.6	7
8	892	893	890	892	897	892	894	893	891	896	902	902	902	898	897	895.9	8
9	891	892	893	893	896	890	894	893	893	897	906	897	902	894	891	896.3	9
10	883	883	893	892	893	885	892	892	892	894	905	890	897	892	880	894.3	10
11	879	882	888	888	888	885	884	888	888	894	900	884	889	888	868	890.3	11
Noon	867	875	875	878	882	877	876	885	885	892	892	880	882	883	865	883.0	Noon
13	860	873	867	873	877	872	870	880	880	888	889	876	878	877	862	876.2	13
14	863	874	864	875	873	868	868	881	876	883	886	877	878	873	866	874.1	14
15	872	879	865	881	879	874	872	881	877	888	889	883	882	875	878	878.1	15
16	879	883	870	887	887	883	878	884	885	892	897	887	887	882	887	883.5	16
17	883	886	877	890	886	888	884	888	890	893	901	888	889	887	888	887.2	17
18	884	886	882	888	884	887	886	889	890	893	900	892	891	888	888	888.8	18
19	885	887	883	887	884	887	886	888	885	896	897	894	892	889	891	889.1	19
20	887	887	887	887	886	888	886	888	883	893	898	896	892	889	893	890.5	20
21	887	888	889	890	890	889	887	888	883	897	897	894	892	890	896	892.0	21
22	888	891	889	891	888	891	888	889	883	903	897	894	892	891	896	893.1	22
23	888	891	890	891	889	892	888	889	885	903	897	894	892	891	894	892.8	23

TABLE VI - RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT THE AEROLOGICAL STATION, VACOAS (424.5 metres above mean sea level) during the MONTH OF OCTOBER, 1940

Month and day 1940	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)	Temperature of the air: 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
October	mbs.	°C	°C	°C	%	mbs.	o	mps		°C	°C	°C	°C	°C	°C	°C	mms	mins.	hrs	%
1	972.2	21.4	4.3	14.0	64	16.0	67	5.4	3	16.4	19.8	21.8	16.9	23.4	16.1	7.3	0.0	...	10.8	89
2	971.5	21.2	3.9	14.6	66	16.6	56	5.8	4	16.2	20.4	22.4	17.5	23.2	16.2	7.0	0.6	15	10.6	86
3	971.7	21.6	3.2	16.4	72	18.5	67	4.5	6	16.5	19.4	19.9	17.4	23.0	16.0	7.0	6.0	195	4.0	33
4	972.4	20.3	2.4	16.3	78	18.5	67	6.7	6	16.9	17.5	20.8	16.5	22.5	16.5	6.0	3.3	115	8.7	71
5	972.6	20.7	3.0	15.7	73	17.7	67	5.8	3	15.6	19.9	21.2	17.2	22.6	15.6	7.0	2.3	115	11.0	89
6	970.8	21.1	2.8	16.5	75	18.8	45	4.5	6	16.1	19.9	22.3	16.4	23.6	16.0	7.6	0.0	...	9.1	74
7	969.7	22.1	2.8	17.6	76	20.1	45	2.2	9	16.7	21.4	21.2	17.3	24.0	16.7	7.3	10.6	460	5.2	42
8	971.0	21.7	3.3	16.3	71	18.5	90	2.7	5	17.8	21.7	22.2	18.4	23.6	17.8	5.8	0.0	...	11.2	90
9	970.5	21.7	2.5	17.7	78	20.3	45	5.8	4	17.3	21.5	23.9	19.0	24.8	17.0	7.8	0.8	35	9.6	77
10	969.3	22.0	2.7	17.7	77	20.3	360	2.2	6	18.6	21.8	23.7	20.9	25.0	18.1	6.9	0.5	20	9.4	76
11	968.8	22.6	1.9	19.7	83	22.8	315	0.9	9	20.0	20.9	22.9	21.2	25.4	19.7	5.7	0.3	5	3.3	27
12	969.9	22.5	2.6	18.4	77	21.0	112	3.6	8	20.8	20.8	21.1	19.1	24.8	19.1	5.7	13.0	220	6.4	52
13	971.0	21.3	4.6	13.3	61	15.3	90	3.6	8	14.8	19.3	20.3	15.8	22.2	14.7	7.5	0.0	...	9.3	75
14	970.9	19.7	4.9	10.7	56	12.9	90	3.1	6	14.3	18.3	21.3	17.3	23.6	12.4	11.2	0.3	5	7.0	56
15	979.0	20.3	4.5	12.3	60	14.3	90	4.9	9	15.5	15.9	19.7	16.1	22.5	15.5	7.0	1.0	60	7.8	62
16	972.6	20.5	3.0	15.4	73	17.5	67	3.1	6	14.9	20.4	19.8	16.5	22.0	14.7	7.3	0.0	...	5.1	41
17	972.0	21.0	3.2	15.7	71	17.8	67	3.1	8	15.3	20.4	20.3	17.1	22.2	14.9	7.3	0.0	...	6.1	49
18	970.5	20.9	3.5	15.1	70	17.2	56	3.6	9	16.1	19.5	22.4	17.4	24.2	15.8	8.4	0.2	10	8.1	65
19	968.7	23.0	4.3	15.9	64	18.1	360	2.9	6	16.4	22.8	23.6	19.8	24.5	16.2	8.3	0.0	...	6.3	50
20	969.6	23.9	5.1	15.5	60	17.6	360	0.9	8	17.4	22.4	23.5	19.3	25.2	16.8	8.4	0.8	65	5.7	45
21	970.3	23.5	4.8	15.6	61	17.6	67	4.0	2	17.4	21.1	24.5	18.3	26.0	17.1	8.9	0.0	...	9.0	71
22	971.0	21.9	2.9	17.2	75	19.6	56	6.3	6	16.7	21.6	24.1	19.0	25.8	16.7	9.1	0.0	...	10.4	83
23	972.6	23.4	4.7	15.6	61	17.7	67	3.1	4	18.3	21.8	23.7	19.2	25.3	18.1	7.2	0.2	5	11.4	91
24	972.1	21.4	2.7	16.9	75	19.2	101	2.7	8	17.9	19.5	20.7	18.5	24.5	17.7	6.8	0.0	...	7.2	57
25	971.5	21.9	3.0	17.1	74	19.5	112	3.6	6	17.8	21.5	22.3	18.2	24.5	17.2	7.3	0.0	...	10.8	85
26	971.1	22.0	4.2	15.0	65	17.1	90	8.5	5	18.0	21.8	21.5	18.4	24.1	18.0	6.1	0.6	30	11.1	87
27	971.8	22.2	4.3	15.0	64	17.1	67	7.2	6	17.0	21.5	22.2	19.5	23.7	17.0	6.7	0.0	...	10.4	82
28	971.0	22.3	3.2	17.1	72	19.5	112	3.6	3	18.4	21.6	21.7	18.8	25.0	17.9	7.1	0.8	40	5.6	44
29	969.6	20.8	1.9	17.7	83	20.3	67	4.0	9	18.2	20.3	23.7	17.0	24.6	18.2	6.4	1.0	135	7.3	57
30	969.3	23.0	3.6	17.2	70	19.6	56	2.2	8	16.8	22.5	23.2	19.3	26.9	16.8	10.1	0.0	...	6.3	49
31	970.2	23.9	4.1	17.4	67	19.9	67	3.6	4	18.9	22.0	25.0	19.9	26.4	18.8	7.6	0.3	5	11.3	88
Mean	971.1	21.8	3.5	16.1	70.1	18.3	...	4.0	6.1	17.0	20.6	22.2	18.2	24.2	16.8	7.4	42.6	1535	8.24	65.9
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	+ 41.1 mbs	Amount of Rain	-12.4 mms.
Temperature of the Air	+0.6 °C	Duration of Sunshine	+0.39 hrs.
Vapour Pressure	+1.7 mbs	Mean of Maximum Temperatures	+ 2.9°C
Relative Humidity	-1.9 %	" " Minimum Temperatures	+ 2.0°C
Velocity of the Wind	-0.6 m.p.s.	Absolute Maximum Temperature	+ 2.2°C
Amount of Cloud	-1.2	" Minimum Temperature	+ 2.5°C
Greatest Rainfall intensity			

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF OCTOBER 1940

Month & day 1940	Atmospheric Pressure		Temperature of the Air					Excess of air temp. over Evaporation temp.	Temperature of the Dew Point		Relative Humidity (Saturation=100)		Vapour Pressure	Minimum on the grass	Rainfall			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 the Beckly Pluviograph	Duration	Amount of Evaporation	
October	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	mins	mms	
1	1013.2	+0.4	26.0	18.2	7.8	21.5	+0.1	3.3	16.0	-0.3	71	- 2	18.2	14.3	0.6	5	5.8	2.6
2	1012.9	+0.2	25.7	18.4	7.3	21.5	+0.1	3.1	16.5	+0.2	73	0	18.8	15.8	0.2	25	6.3	4.1
3	1013.5	+0.8	25.8	19.0	6.8	21.3	-0.2	2.7	16.8	+ 0.4	75	- 2	19.1	16.3	0.6	10	4.6	7.5
4	1014.4	+1.8	25.6	18.7	6.9	21.4	-0.1	3.4	15.7	-0.7	70	- 3	17.8	16.2	0.0	...	4.8	4.9
5	1014.0	+1.5	25.5	18.1	7.4	21.3	-0.3	3.3	15.8	-0.6	71	- 2	17.9	15.1	4.0	115	6.8	4.8
6	1011.7	-0.8	26.2	18.3	7.9	21.6	0.0	3.2	16.4	0.0	73	0	18.7	15.9	0.0	...	6.4	3.7
7	1011.0	-1.4	27.3	18.9	8.4	22.3	+0.6	2.6	18.1	+1.6	77	+ 4	20.8	15.0	15.6	200	6.4	5.8
8	1012.0	-0.3	26.2	19.2	7.0	22.3	+ 0.6	2.3	18.7	+2.2	80	+ 7	21.6	16.7	2.1	45	4.4	7.4
9	1011.6	-0.6	27.0	19.0	8.0	22.5	+ 0.7	2.4	18.7	+2.1	79	+ 6	21.6	16.5	1.1	45	6.0	5.8
10	1009.8	-2.3	28.2	20.4	7.8	24.0	+ 2.2	2.3	20.4	+3.8	81	+ 8	24.0	17.6	0.0	...	5.5	6.5
11	1009.5	-2.5	29.0	22.2	6.8	24.7	+ 2.9	1.9	21.9	+5.3	85	+13	26.3	19.9	0.9	10	5.0	7.9
12	1010.9	-1.1	29.1	18.9	10.2	23.5	+ 1.6	2.6	19.4	+2.7	78	+ 6	22.5	14.3	2.2	10	4.4	8.3
13	1012.8	+0.9	25.6	15.9	9.7	20.3	- 1.6	4.0	13.4	-3.3	65	- 7	15.4	11.3	0.0	...	6.4	4.3
14	1012.2	+0.4	26.0	14.9	11.1	21.0	- 1.0	4.5	13.2	-3.6	61	-11	15.2	10.7	0.3	25	6.6	6.3
15	1013.3	+1.6	25.7	17.7	8.0	21.1	- 0.9	4.1	14.1	-2.7	64	- 8	16.1	14.2	0.1	5	7.0	7.5
16	1014.2	+2.6	26.0	17.6	8.4	21.3	- 0.8	4.6	13.4	-3.5	61	-11	15.4	13.5	0.0	...	7.0	3.9
17	1013.2	+1.7	26.0	18.0	8.0	21.5	- 0.6	4.1	14.6	-2.3	65	- 7	16.6	15.0	0.0	0.0	7.6	4.7
18	1011.1	-0.3	26.0	17.9	8.1	21.6	- 0.6	3.2	16.4	-0.6	73	+ 1	18.7	14.1	0.0	...	6.5	5.5
19	1010.1	-1.3	28.9	17.3	11.6	22.6	+ 0.4	3.4	17.1	+0.1	71	- 1	19.5	13.4	0.0	...	5.7	3.0
20	1011.9	+0.6	27.9	19.2	8.7	23.0	+ 0.7	3.1	18.1	+1.1	74	+ 2	20.8	15.3	0.0	...	5.9	4.1
21	1011.9	+0.6	28.0	18.6	9.4	22.8	+ 0.5	3.3	17.5	+0.4	72	0	20.0	15.2	0.0	...	6.9	3.1
22	1013.0	+1.8	28.0	18.5	9.5	23.3	+ 0.9	3.7	17.4	+0.2	70	- 2	19.9	14.3	0.0	...	7.8	2.1
23	1014.1	+3.0	27.3	20.6	6.7	23.3	+ 0.8	3.3	18.0	+0.6	72	0	20.6	15.0	0.0	...	7.5	4.8
24	1013.3	+2.2	26.1	19.6	6.5	22.2	- 0.3	2.8	17.7	+0.3	76	+ 4	20.3	16.6	0.7	15	5.9	3.5
25	1012.2	-1.2	28.3	20.0	8.3	23.4	+ 0.8	3.5	17.3	0.0	69	- 3	19.8	17.2	0.0	...	6.5	5.7
26	1012.8	+1.9	27.6	20.1	7.5	23.4	+ 0.8	4.0	16.9	- 0.4	67	- 5	19.2	18.9	0.0	...	8.2	3.3
27	1013.6	+2.8	27.6	18.8	8.8	22.9	+ 0.2	3.9	16.6	- 0.8	68	- 4	18.9	14.2	0.0	...	8.5	3.1
28	1011.9	+1.2	28.5	20.0	8.5	23.3	+ 0.6	3.0	18.6	+ 1.2	75	+ 3	21.4	17.3	0.4	10	9.2	3.8
29	1010.5	-0.1	29.0	18.6	10.4	23.2	+ 0.4	3.2	18.1	+ 0.6	73	+ 1	20.8	14.7	0.0	...	8.0	4.5
30	1010.5	-0.1	29.0	18.6	10.4	23.2	+ 0.4	3.2	18.1	+ 0.6	73	+ 1	20.8	14.7	0.0	...	8.0	4.5
31	1011.5	+0.9	28.9	20.7	8.2	24.4	+ 1.5	3.5	18.9	+ 1.4	71	- 1	21.8	18.5	0.0	...	6.7	2.8
Mean	1012.2	+ 0.6	27.1	18.8	8.3	22.4	+ 0.3	3.3	17.1	+ 0.2	72.0	- 0.3	19.6	15.6	30.2	575	6.5	4.9
Average	1011.6	...	26.8	18.0	8.8	22.1	...	3.2	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

Weather Summary for the month of October 1940

Though the anticyclone to the South started to weaken mean atmospheric pressure was slightly above normal.

Rainfall was below normal and mean temperature was near normal.

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF OCTOBER 1940

Month and Day 1938	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
October	hrs	%	m.p.s.	m.p.s.	°C	°C	°C	°C	0h 3h 6h 9h 12h 15h 18h 21h 24h
1	10.3	84	3.5	-0.1	24.1	23.9	23.9	23.9	b bc bc b
2	10.5	85	3.7	+ 0.1	24.1	23.9	23.9	23.9	b bc c bc b
3	2.3	19	3.2	-0.4	24.1	23.9	23.9	24.0	b bc c o c bc c
4	9.6	78	3.8	+ 0.2	24.1	23.9	23.9	24.0	bc b o uc bc or o bc
5	9.8	80	4.2	+0.6	24.2	23.9	23.9	24.0	bc or o b bc b bc
6	10.1	82	3.5	- 0.1	24.2	23.9	23.9	24.0	b bc c bc b
7	8.1	66	3.0	-0.5	24.1	23.9	24.0	24.2	b bc c o or o r o
8	10.5	85	3.2	-0.3	24.1	24.0	24.0	24.2	or o c bc bcq c or o o
9	9.5	77	2.8	-0.7	24.1	24.0	24.1	24.6	b bc c c
10	8.3	67	3.4	-0.1	24.1	24.0	24.2	24.9	bc c o bc
11	6.2	50	2.8	-0.7	24.1	24.0	24.4	25.3	bc o c o c
12	5.8	47	2.6	-0.9	24.1	24.0	24.5	25.4	c o c c
13	8.6	69	3.4	-0.1	24.1	24.0	24.7	25.1	bc bc c bc b
14	7.8	62	2.7	-0.8	24.1	24.0	24.7	24.4	bc c b bc o
15	5.1	41	3.7	+0.2	24.1	24.0	24.6	24.6	o c bc b
16	9.2	74	4.0	+0.6	24.1	24.0	24.5	24.3	b bc c bc b
17	6.3	50	3.9	+0.5	24.1	24.0	24.5	24.4	b bc c b bc
18	6.8	54	3.3	-0.1	24.1	24.1	24.5	24.1	bc bc c bc b
19	11.6	93	2.5	-0.9	24.0	24.1	24.7	24.1	b bc c b
20	7.6	60	2.5	-0.9	24.0	24.1	24.4	24.5	b b bc o bc b
21	11.6	92	3.1	-0.3	24.1	24.2	24.4	24.8	b bc b b
22	11.3	90	3.1	-0.3	24.0	24.1	24.6	25.0	b uc b
23	10.2	81	3.5	+0.1	24.2	24.2	24.7	25.4	c or o bc c bc b
24	10.1	80	4.2	+0.8	24.1	24.3	24.7	25.1	b o c b
25	10.1	80	4.2	+0.8	24.1	24.3	24.7	25.1	bc o b bc b
26	10.8	85	5.0	+1.6	24.1	24.2	24.9	25.1	b c ucq b
27	11.3	89	4.7	+1.3	24.0	24.3	25.2	25.4	b c bc bc
28	6.1	48	3.8	+0.4	24.1	24.2	25.0	25.3	b c b
29	7.4	58	3.2	-0.2	24.0	24.3	25.2	25.7	bc or o c bc b
30	7.3	57	2.7	-0.7	24.1	24.2	25.2	25.4	b bc c b
31	11.9	93	4.0	+0.6	24.1	24.3	25.2	25.7	b bc c b
Mean	8.63	69.0	3.43	-0.04	24.10	24.06	24.48	24.71	
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, 1940

Element	Highest	Date	Lowest	Date
Atmospheric Pressure	1016.0mbs at 21 hrs on 4th		1008.0 mbs	often
Temperature of the air	29.1°C at 13.55 hrs on 12th		14.9°C at 6.05 hrs on 14th	
Daily Range of Temperature of the Air	11.6°C	on 19th	6.5°C	on 24th
Temperature of the Air				
Daily Range of Temperature of the Dew Point	29.1°C at 13.55 hrs on 12th		14.9°C at 6.05 hrs on 14th	
Temperature of the Dew Point	22.5°C at 11 hrs on 11th		10.7°C	10.9°C on 14th. 12 h on 14th
Relative Humidity	94.9% at 03.00hrs on 8th		40.8% at 12.00 hrs on 14th	
Vapour Pressure	27.3 mbs at 11.00 hrs on 11th		13.0 mbs at 12.00 on 14th	
Evaporation in 24 hours	9.2 mms on 28th		4.4 mms	on 8th & 12th
Wind Velocity	7.7 m.p.s. at 15 h on 26th; 11 hrs on 27th		0.9 m.p.s at 19hrs on 9th	
Rainfall in 24 hours	16.7 mms ending 19.00 hrs on 8th			
Duration of Sunshine	11.9 hrs on 31st		2.3 hrs on 3rd	
Mean Day Temperature of Air Average	24.60°C Mean Night Temperature of Air 20.20°C Average 19.77°C			

Number of days of:-

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 & over	Lightning	Thunderstorm
...	8	18	5	...	8	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).

October, 1940

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
Midnight	150	137	139	149	155	140	118	120	123	116	097	107	132	133	131	149	Mid-night
1	143	130	134	144	155	133	116	116	119	110	095	103	130	127	126	145	1
2	139	128	131	138	148	127	111	112	117	102	087	100	130	121	121	140	2
3	131	124	130	133	143	120	106	110	111	097	081	094	126	120	120	134	3
4	131	122	128	133	142	119	101	111	113	096	080	093	126	120	113	131	4
5	131	126	130	132	141	118	102	113	119	100	084	093	128	125	120	138	5
6	132	130	135	140	144	120	106	120	120	101	091	099	130	129	123	140	6
7	136	133	140	143	149	121	109	125	125	106	098	109	133	130	130	149	7
8	141	140	149	146	150	124	111	130	130	108	102	113	138	131	137	150	8
9	142	140	148	151	149	122	114	131	128	110	106	117	139	131	141	152	9
10	141	138	145	150	149	120	112	132	125	109	107	118	137	130	141	151	10
11	139	136	137	149	145	117	111	127	121	103	100	114	131	127	140	150	11
Noon	130	130	130	145	138	112	109	122	115	094	096	105	124	120	139	145	Noon
13	121	121	123	141	130	108	102	112	111	090	087	097	119	111	130	138	13
14	118	116	119	137	125	101	098	111	101	084	083	090	111	105	125	133	14
15	116	114	116	132	121	101	097	110	101	080	081	090	110	101	123	131	15
16	114	115	117	131	120	100	097	110	104	080	083	095	112	102	127	130	16
17	119	117	123	132	126	103	110	113	106	083	090	102	116	109	130	130	17
18	120	120	128	140	130	110	107	118	110	090	091	111	122	113	137	136	18
19	130	127	135	150	136	115	115	124	117	094	099	120	131	120	140	142	19
20	134	132	144	155	141	120	121	127	120	100	102	124	135	127	142	150	20
21	140	139	150	160	143	121	127	130	122	102	108	131	141	131	150	150	21
22	140	140	151	159	143	122	126	130	120	105	109	134	140	132	151	151	22
23	137	139	151	158	142	120	122	130	119	100	109	135	137	135	150	151	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	147	130	108	119	132	124	142	150	133	122	141	140	120	113	120	130	midnight
1	140	123	102	118	130	121	140	142	130	117	139	136	112	107	116	126	1
2	134	117	100	113	123	120	131	136	127	114	135	130	108	100	111	121	2
3	130	115	093	111	121	120	131	132	126	114	132	126	101	096	108	117	3
4	128	115	091	113	120	120	131	130	124	112	131	122	100	097	107	116	4
5	130	116	090	116	120	121	136	131	126	120	131	123	102	098	106	118	5
6	131	120	086	120	123	126	141	136	128	125	138	123	105	101	111	122	6
7	139	120	092	122	127	132	148	142	130	130	141	128	111	110	118	127	7
8	143	121	102	127	126	139	150	142	133	131	146	130	117	110	120	130	8
9	146	121	106	126	124	137	150	145	132	132	146	130	116	113	122	131	9
10	142	120	107	125	123	132	148	140	131	132	145	126	115	111	121	130	10
11	140	114	103	120	120	129	146	136	125	130	141	122	112	108	119	126	11
Noon	135	111	100	114	117	125	140	129	120	126	134	118	109	101	117	121	Noon
13	128	105	095	110	109	120	132	120	113	121	129	112	102	094	111	114	13
14	121	101	091	107	102	116	130	118	110	120	124	107	094	091	105	109	14
15	120	099	087	103	100	112	127	115	106	117	123	100	090	088	101	107	15
16	119	098	088	106	101	114	129	116	108	118	121	100	090	088	102	108	16
17	120	097	091	109	103	122	131	118	108	121	126	101	091	094	109	111	17
18	124	101	099	113	110	130	140	124	112	130	129	108	096	101	115	117	18
19	125	105	106	120	116	141	146	136	120	136	134	113	106	110	121	124	19
20	132	109	111	124	124	149	150	140	122	141	140	119	111	117	127	129	20
21	136	109	118	132	126	151	153	141	127	150	145	122	118	124	127	134	21
22	135	109	121	135	130	152	153	141	127	150	145	122	118	124	127	134	22
23	134	107	120	136	127	149	151	139	125	146	144	121	118	124	126	132	23

TABLE IX - AMOUNT OF CLOUDS AT EVERY HOUR OF THE DAY (0 = Clear Sky; 10 = Overcast Sky).

Hour \ Day	October, 1940																															
	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	1	3	6	7	1	1	10	3	7	5	9	5	4	10	3	1	6	1	0	2	0	8	2	4	3	1	0	6	0	2	3.6
1	0	2	3	5	7	1	1	10	3	7	5	9	5	6	10	3	1	7	1	0	2	0	8	1	5	3	1	0	6	0	2	3.7
2	0	3	5	4	10	1	1	10	3	7	6	9	3	8	10	3	1	7	1	0	2	0	10	0	9	3	1	0	8	0	2	4.1
3	0	5	8	3	10	1	1	8	2	7	7	9	2	10	10	3	1	7	1	1	2	0	10	0	9	3	1	tr	10	0	2	4.3
4	tr	5	8	3	10	2	1	6	2	6	7	9	2	6	10	4	1	7	1	1	3	0	10	0	9	3	1	1	10	1	2	4.2
5	1	5	10	2	3	2	1	4	2	5	9	9	4	4	9	6	3	7	1	1	3	0	5	0	7	3	1	2	10	2	2	4.0
6	1	5	10	2	3	2	1	3	2	4	9	9	4	2	9	8	3	7	1	2	4	tr	2	tr	6	3	1	3	10	3	2	3.9
7	1	5	10	5	2	3	1	4	3	5	9	9	5	3	8	7	4	7	3	3	4	1	1	3	5	3	1	4	8	4	2	4.3
8	3	5	10	7	2	5	4	5	3	5	9	9	5	5	7	6	5	6	5	4	4	2	4	6	4	3	4	6	8	5	2	5.1
9	4	4	10	10	3	6	6	6	4	5	9	9	6	6	7	6	6	5	7	5	4	4	6	9	4	3	7	7	8	6	3	6.0
10	4	3	9	6	4	6	7	6	4	8	8	9	7	4	7	5	6	6	6	6	4	4	7	6	4	7	7	7	7	6	5	6.0
11	6	7	6	6	3	6	7	6	6	7	7	6	7	6	7	6	8	6	6	6	5	4	7	9	6	7	6	7	8	6	5	6.3
Noon	6	7	8	6	3	7	7	6	6	7	8	7	9	3	8	6	8	6	7	6	4	3	7	8	6	8	4	7	9	6	6	6.4
13	6	6	6	6	6	7	7	6	6	6	7	9	7	3	8	5	9	7	7	6	5	3	4	7	6	4	4	8	6	7	6	6.1
14	6	7	5	7	6	6	7	7	7	7	7	7	6	3	8	5	8	7	5	5	4	4	5	9	6	4	4	9	7	8	5	6.2
15	7	6	6	6	5	6	8	6	9	7	7	9	6	2	9	3	8	9	7	5	6	4	5	9	7	3	5	9	3	8	4	6.3
16	6	5	7	5	4	6	9	7	9	8	8	9	5	6	9	3	8	6	6	7	5	3	3	6	7	3	5	6	3	9	4	6.0
17	4	4	8	3	3	5	9	8	9	9	9	8	4	9	8	3	8	4	4	10	4	3	1	3	7	3	5	3	3	10	4	5.6
18	3	4	8	3	3	5	10	8	9	9	10	8	3	9	8	3	8	4	1	10	3	3	tr	2	7	2	5	3	3	10	3	5.4
19	2	3	8	10	4	3	10	10	9	7	9	8	1	10	6	2	6	4	1	10	2	2	2	1	6	2	4	1	2	3	2	4.8
20	1	2	8	7	5	2	10	1	1	6	8	8	1	10	5	1	4	4	0	5	2	2	3	1	4	2	3	1	1	3	1	4.1
21	0	2	8	2	6	2	10	9	9	6	8	8	2	10	3	1	3	4	0	2	1	2	5	1	3	2	2	1	0	3	1	3.7
22	0	1	8	1	5	2	10	9	9	5	8	8	2	10	3	1	4	1	0	2	0	1	3	1	3	2	1	1	0	3	1	3.4
23	0	1	8	1	3	2	10	9	9	5	8	8	2	10	3	1	5	1	0	1	0	1	3	1	3	2	1	1	0	3	0	3.3

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

Hour \ Day	October, 1940																															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	31	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	0	0	0	0	0	0	0.2
7	26	37	0	40	17	13	40	45	45	15	15	11	18	0	1	0	50	35	46	23	49	49	54	58	60	42	17	25	8	27	50	15.3
8	60	55	0	41	50	55	60	60	60	57	17	6	55	0	29	4	25	60	60	60	60	50	52	50	60	60	60	53	30	60	60	23.5
9	60	56	0	27	60	40	60	60	60	60	24	0	50	40	33	33	40	60	60	60	60	60	43	0	60	60	30	48	15	60	60	23.5
10	60	60	0	33	60	60	60	60	60	60	31	15	60	60	45	60	60	54	60	60	60	60	60	37	60	44	60	60	49	60	60	26.9
11	60	60	2	60	60	60	45	60	60	28	45	40	33	60	15	60	14	60	60	60	60	60	52	10	10	47	60	53	47	60	60	25.3
Noon	60	47	5	60	60	60	45	60	60	50	45	57	36	60	0	60	9	45	60	60	60	60	23	22	60	36	60	57	10	60	60	24.1
13	60	45	21	51	60	60	44	60	60	60	54	60	33	60	30	50	23	16	60	35	60	60	27	7	60	57	60	17	0	60	60	23.5
14	60	50	40	50	60	60	60	60	60	37	53	60	21	60	48	60	47	20	60	43	60	60	60	15	60	60	60	0	50	35	60	25.5
15	60	60	58	60	55	60	60	60	57	48	50	25	51	60	20	60	9	15	60	38	60	60	60	5	60	60	60	9	60	11	60	24.5
16	49	57	13	60	52	60	8	60	50	45	33	31	60	51	41	60	35	0	55	14	60	60	60	6	45	60	60	13	60	6	60	22.1
17	46	60	0	51	38	54	4	40	0	32	2	39	60	18	34	60	57	6	60	4	60	60	60	60	15	60	60	0	60	0	60	19.3
18	18	44	0	42	16	23	0	3	0	8	0	2	48	0	13	42	10	37	57	0	47	40	55	54	1	57	57	21	52	0	60	13.5
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	4	0	0	7	7	0	1	0	6	0.4

The total amount of registered sunshine was 267.6 hrs, and the total possible sunshine was 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 Absolute Scale add 273)

OCTOBER, 1940

Hour \ Day	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	20.2	2.2	19.1	1.4	19.5	1.7	19.3	1.2	19.1	2.3	19.0	2.0	19.8	1.9	20.2	0.7	Midnight
1	20.0	2.4	18.9	1.4	19.3	1.6	19.6	1.4	18.7	1.1	18.8	1.9	19.5	1.7	20.1	0.6	1
2	19.2	2.0	18.4	1.3	20.0	1.9	19.2	1.2	18.6	1.5	18.8	1.8	19.1	1.2	20.2	0.6	2
3	18.5	1.5	19.0	2.0	20.0	1.5	19.0	1.4	18.3	1.2	18.9	1.9	19.0	1.1	20.2	0.5	3
4	18.3	1.3	18.9	1.0	19.5	1.9	18.9	1.3	18.7	0.9	18.7	1.7	19.0	1.1	20.0	0.7	4
5	18.2	1.4	18.6	1.4	19.1	2.0	18.9	1.6	18.6	1.6	18.6	1.5	19.0	1.1	19.5	0.8	5
6	18.3	1.4	18.4	1.3	19.0	1.9	18.9	1.6	18.1	1.4	18.9	1.6	19.1	1.1	19.3	1.0	6
7	20.5	2.6	20.2	1.9	19.7	2.1	20.6	2.3	19.2	2.2	20.4	1.9	21.3	1.7	21.8	1.8	7
8	23.0	4.7	23.0	3.7	20.7	2.4	22.9	3.6	21.6	3.4	22.2	2.9	23.0	2.6	23.3	2.6	8
9	24.0	5.1	23.8	4.6	21.5	2.2	23.0	3.6	23.3	5.0	24.0	4.3	24.7	4.5	24.4	4.2	9
10	24.5	5.1	24.8	5.1	21.4	2.1	24.6	5.0	24.1	5.6	25.0	5.0	25.1	4.2	24.9	4.4	10
11	24.8	5.6	23.4	5.0	23.3	3.5	24.6	5.5	24.6	5.8	25.1	5.0	25.6	4.1	25.9	5.0	11
Noon	25.1	6.0	25.0	5.5	24.2	4.2	25.1	6.0	25.1	6.1	25.1	5.1	25.7	4.6	25.9	5.5	Noon
13	25.3	5.6	25.0	5.5	24.5	4.5	24.7	6.2	25.1	5.6	25.3	5.3	26.7	5.3	25.6	4.6	13
14	25.2	5.9	25.1	5.9	25.3	5.3	24.2	5.3	25.0	6.0	25.5	5.8	27.0	5.3	25.6	4.7	14
15	24.8	5.6	24.8	5.3	24.9	5.7	24.6	5.8	23.8	4.7	25.0	5.9	25.6	4.8	24.9	4.2	15
16	23.0	3.2	23.7	4.7	23.2	4.1	23.5	5.7	24.0	5.1	24.2	5.6	24.2	3.7	24.0	3.0	16
17	22.9	3.8	23.1	4.1	22.9	3.9	22.8	5.1	23.0	4.0	23.3	4.9	23.8	3.4	23.0	2.5	17
18	21.9	3.8	22.1	3.3	22.0	3.0	21.7	4.2	22.0	3.8	22.3	3.7	23.4	3.3	21.6	1.4	18
19	21.0	2.1	21.0	2.8	21.3	2.4	20.2	3.0	21.0	3.0	21.0	2.8	23.1	2.7	21.4	1.1	19
20	20.1	2.3	20.3	2.2	20.1	2.0	20.3	3.1	20.5	2.5	19.8	2.2	21.0	1.0	21.1	1.0	20
21	19.6	2.2	19.9	2.0	20.3	2.1	19.5	2.5	20.3	2.5	19.4	1.7	20.5	0.6	21.0	1.0	21
22	19.0	1.6	19.7	2.0	10.1	1.8	19.2	2.3	20.0	2.4	19.2	1.4	20.1	0.6	20.9	1.6	22
23	19.3	1.6	19.6	1.9	19.2	1.1	19.0	2.3	19.2	1.9	19.6	1.8	20.1	0.9	20.0	1.0	23

Hour \ Day	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	20.3	1.0	21.1	1.1	23.0	1.1	23.2	0.9	18.9	2.6	18.6	2.1	19.3	1.7	18.3	2.3	Midnight
1	19.9	0.9	20.8	1.0	23.0	1.0	23.3	0.8	18.0	2.0	18.6	2.1	19.4	1.6	18.0	2.4	1
2	19.9	0.9	20.6	1.0	22.5	1.0	23.0	0.9	17.2	2.0	17.8	2.7	18.9	2.0	17.9	2.3	2
3	19.9	1.5	21.0	1.0	22.4	0.9	23.0	0.9	17.0	1.9	16.9	2.2	19.0	2.2	18.1	2.1	3
4	19.3	1.3	20.9	0.9	22.4	0.9	23.0	0.9	17.8	2.1	16.7	2.4	18.4	2.3	18.3	2.8	4
5	19.1	1.1	21.1	1.0	22.3	0.9	23.0	0.9	16.2	1.3	16.0	2.4	18.3	1.9	18.6	2.8	5
6	19.3	1.2	21.0	1.0	22.5	0.8	22.1	0.9	15.9	1.6	14.9	1.6	19.0	2.1	19.1	2.9	6
7	22.0	2.1	22.3	0.9	23.9	1.1	22.9	1.2	18.2	1.9	17.8	1.8	20.0	2.9	20.8	3.7	7
8	23.1	3.2	24.1	2.2	25.1	1.9	23.1	0.9	21.0	2.8	21.0	4.2	22.2	4.1	23.0	6.0	8
9	24.4	3.9	25.3	2.9	26.1	2.1	23.2	1.3	23.5	5.7	23.2	6.7	23.8	6.6	24.1	6.9	9
10	25.2	5.0	26.7	4.1	27.0	3.3	25.1	2.4	24.7	6.9	25.0	7.8	24.9	7.1	25.1	7.6	10
11	25.8	5.2	26.0	3.7	27.9	3.7	27.0	3.2	24.3	6.3	24.4	7.8	24.1	6.8	25.2	7.0	11
Noon	26.2	5.2	27.7	4.6	27.8	3.8	27.2	4.1	25.0	7.1	25.1	8.0	24.1	6.2	25.3	7.3	Noon
13	26.1	5.0	27.7	4.7	28.0	4.0	28.2	5.2	24.9	6.9	25.1	7.5	25.0	7.0	25.5	7.8	13
14	26.3	5.0	26.6	3.6	27.4	3.5	28.9	5.9	24.8	7.0	25.6	7.6	24.2	6.6	25.1	7.5	14
15	22.9	2.6	26.0	3.5	26.4	3.3	25.9	4.1	24.0	6.8	25.1	7.1	23.9	6.3	24.5	6.5	15
16	22.9	2.6	26.0	3.5	26.4	3.3	25.1	5.0	23.8	7.2	24.0	6.3	23.0	5.8	24.0	6.7	16
17	23.1	2.1	24.6	2.3	24.5	1.4	24.0	4.8	22.7	6.2	22.9	5.4	22.0	5.0	22.8	5.7	17
18	23.1	2.1	24.6	2.3	24.5	1.4	22.4	3.8	21.0	4.9	22.0	4.7	21.1	4.2	21.4	4.6	18
19	22.2	1.1	24.1	1.8	24.0	1.3	21.4	3.3	19.7	3.6	21.6	4.1	19.9	3.6	20.3	3.6	19
20	21.9	0.9	23.9	1.7	23.8	1.2	20.7	2.7	17.9	2.6	21.0	4.3	19.3	3.2	19.9	3.3	20
21	21.9	1.1	23.6	1.5	23.7	1.1	20.6	2.8	17.3	2.2	20.7	3.5	19.0	2.9	19.2	2.9	21
22	21.5	1.3	23.4	1.3	23.6	1.0	20.2	2.9	16.6	1.6	20.7	3.4	19.1	2.9	19.0	3.0	22
23	21.1	1.0	23.2	1.1	23.6	0.9	19.9	2.9	16.8	1.9	19.4	2.4	19.0	2.9	18.6	2.6	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, 1940

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	18.4	2.4	19.3	2.2	18.6	1.4	19.3	1.2	19.7	1.7	20.1	1.9	21.9	1.6	20.7	1.7	Mid-night
1	18.2	2.2	18.9	1.9	18.6	1.6	20.0	1.6	19.3	1.4	19.8	1.6	21.3	1.3	20.3	1.6	1
2	18.1	2.1	19.9	2.5	18.1	1.1	20.3	1.1	19.1	1.5	19.6	1.5	21.1	1.5	20.1	1.6	2
3	18.5	2.4	19.9	2.6	18.0	1.0	20.4	1.2	19.0	1.4	19.0	1.4	21.2	1.2	20.1	1.8	3
4	18.5	2.3	19.0	1.9	17.9	1.0	19.8	1.0	18.9	1.3	18.8	1.4	21.0	1.8	20.2	1.4	4
5	18.9	2.3	18.1	1.5	17.9	1.0	19.4	0.9	19.1	1.2	18.8	1.3	21.3	1.5	19.6	1.6	5
6	18.4	2.2	18.6	1.4	18.8	1.0	19.7	1.0	19.1	1.2	19.5	1.4	21.0	1.7	20.1	1.9	6
7	21.8	3.9	22.1	3.2	22.0	2.0	22.8	2.0	22.3	2.0	22.3	2.4	23.6	2.6	22.9	2.9	7
8	22.4	4.4	23.1	4.2	23.7	3.6	24.9	3.9	24.0	3.6	24.9	3.9	23.9	3.3	23.3	3.3	8
9	24.0	6.3	25.0	5.9	25.3	4.3	25.8	4.7	25.3	5.1	26.0	5.3	25.0	4.0	23.0	2.9	9
10	25.0	7.4	25.5	5.9	26.2	6.0	26.1	5.2	25.9	5.1	26.8	6.5	25.9	5.2	25.4	4.9	10
11	24.0	6.2	25.0	5.0	27.1	5.9	27.4	5.9	26.8	5.9	27.3	7.1	25.2	5.0	23.3	2.3	11
Noon	24.7	7.1	24.2	5.0	27.7	6.1	26.9	5.5	26.7	5.7	27.8	6.8	25.7	5.5	25.1	4.5	Noon
13	24.6	6.5	24.7	4.8	28.0	6.8	26.9	5.9	27.0	6.0	27.2	6.3	27.0	6.8	25.6	4.7	13
14	24.3	6.3	24.1	4.3	28.5	6.6	27.0	6.0	27.0	5.9	26.9	6.7	26.9	6.1	23.7	3.2	14
15	24.1	6.2	24.3	5.1	27.0	6.4	26.4	5.8	26.0	5.0	27.1	7.0	26.4	5.7	23.7	3.3	15
16	24.1	5.9	23.8	4.7	26.2	6.1	24.8	4.6	25.9	5.1	26.1	6.1	26.0	5.9	23.8	3.7	16
17	22.6	4.5	22.9	3.6	25.4	5.4	24.0	3.9	24.5	3.9	25.1	5.1	25.0	4.5	24.0	4.4	17
18	21.9	3.9	21.7	2.7	24.6	4.5	23.2	3.1	23.2	3.1	23.9	3.9	23.3	3.3	22.8	3.7	18
19	10.7	2.9	20.6	1.9	22.4	2.8	22.7	2.7	22.6	3.0	23.1	2.9	22.1	2.9	21.3	2.3	19
20	20.2	2.5	20.0	1.8	21.1	2.1	21.6	2.1	21.6	2.5	22.3	2.1	21.6	2.4	21.1	2.2	20
21	20.2	2.4	19.3	1.3	20.1	1.9	21.0	1.7	21.6	2.4	21.9	1.9	21.7	1.9	21.0	2.0	21
22	20.4	2.5	19.6	1.5	19.3	1.6	20.2	1.4	21.1	2.5	21.5	1.5	21.2	2.1	20.7	1.9	22
23	20.7	3.1	18.6	1.0	19.1	1.3	20.0	1.5	20.2	2.1	21.3	1.3	20.9	1.9	20.7	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	20.4	1.8	21.9	2.4	20.1	2.5	21.4	2.1	21.5	1.2	20.1	1.8	21.9	1.4	20.1	1.7	Mid-night
1	20.3	1.6	22.1	2.8	19.3	2.1	21.2	2.0	21.5	1.2	19.9	1.8	21.9	1.4	19.9	1.6	1
2	20.4	2.0	21.8	2.7	19.0	2.0	21.0	1.9	21.1	1.1	19.1	1.4	21.9	1.4	19.7	1.6	2
3	20.7	1.8	21.6	2.5	19.2	2.0	20.7	1.7	20.9	1.4	19.6	1.4	21.6	1.5	19.7	1.6	3
4	20.9	1.8	21.4	2.3	19.6	2.0	20.3	1.4	21.0	1.0	19.7	1.5	21.0	1.2	19.6	1.5	4
5	20.6	1.9	21.0	2.1	19.1	1.8	20.0	1.8	20.7	0.9	18.7	1.4	21.1	1.3	19.3	1.5	55
6	20.9	2.3	21.1	2.0	19.7	1.8	20.9	1.9	21.0	1.1	19.0	1.3	21.0	1.2	19.5	1.6	6
7	23.1	3.1	23.3	3.3	22.1	2.4	22.9	2.9	21.6	1.4	22.5	2.2	22.7	1.3	21.6	2.2	7
8	24.8	4.7	23.7	3.3	24.0	4.8	24.4	4.2	22.3	2.4	24.2	3.1	25.1	3.9	23.3	3.5	8
9	25.9	5.1	26.0	5.3	24.9	5.9	25.4	4.7	24.1	3.1	25.8	4.8	26.3	4.8	24.5	4.5	9
10	26.1	5.2	25.9	5.8	26.0	5.9	27.0	6.0	24.9	4.1	26.9	5.8	27.2	6.2	25.7	5.6	10
11	26.9	6.2	26.9	6.3	26.5	6.9	27.2	6.1	25.1	5.0	27.7	6.5	28.1	6.5	25.7	5.5	11
Noon	27.7	7.4	26.7	6.5	27.0	7.7	27.7	6.0	25.2	5.4	28.0	6.5	28.1	6.9	26.1	5.9	Noon
13	27.7	6.6	27.0	6.7	26.9	7.6	25.9	4.6	25.5	5.4	27.8	6.6	28.0	6.6	26.2	6,9	13
14	26.9	5.7	26.9	6.7	26.6	6.5	26.0	4.9	26.2	5.9	26.9	5.9	27.7	6.0	26.0	5.7	14
15	26.6	6.0	25.7	5.7	26.5	6.4	26.0	4.2	26.1	6.3	26.2	4.3	27.7	5.8	25.5	5.4	15
16	24.3	4.3	25.2	6.8	25.0	5.5	25.6	4.4	26.1	7.6	25.9	4.9	27.3	5.5	24.7	5.1	16
17	23.9	4.6	23.9	4.6	24.0	4.8	24.1	3.0	25.1	6.4	25.0	4.4	26,0	4.7	23.9	4.4	17
18	23.0	3.7	22.9	3.9	23.1	3.8	23.2	2.9	23.1	4.4	24.0	3.4	24.6	3.7	22.8	3.5	18
19	22.5	3.3	21.9	3.0	22.4	2.8	22.2	1.9	21.1	2.9	23.0	2.4	23.2	2.4	21.8	2.7	19
20	22.3	3.5	21.2	2.4	22.4	2.7	21.7	1.5	20.7	2.6	22.4	2.3	22.8	2.0	21.1	2.3	20
21	22.1	3.1	21.2	2.3	22.0	2.4	22.0	1.3	20.1	2.3	22.0	2.0	22.8	1.9	20.8	2.0	21
22	22.0	3.0	21.1	2.8	21.8	2.1	21.7	1.1	19,9	2.0	22.0	1.9	22.7	1.9	20.6	2.0	22
23	21.9	2.7	21.0	2.8	21.5	2.0	21.8	0.9	19.9	2.0	22.1	1.4	23.0	2.3	20.3	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 OCTOBER 1940

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 *)

OCTOBER, 1940

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	08	3.7	10	2.2	10	3.2	10	2.0	09	2.3	09	3.0	10	2.3	12	1.8	09	1.5	06	1.6	32	2.0	26	2.1	14	1.5	12	2.4	10	1.2	10	2.6
1	09	4.2	10	2.4	10	1.5	11	2.4	07	4.4	08	3.6	11	1.7	11	1.8	07	1.9	06	1.6	32	2.3	26	2.7	14	1.3	11	1.9	13	1.6	10	2.6
2	09	1.8	10	2.5	11	2.1	11	1.8	09	4.1	08	3.3	11	1.9	10	2.3	10	2.1	06	1.5	32	1.8	26	2.0	13	1.7	11	1.9	12	2.4	10	2.2
3	09	1.5	09	3.2	06	2.3	11	2.2	08	2.2	09	6.2	11	2.1	10	2.0	09	3.9	06	1.8	32	1.9	26	1.8	13	2.5	11	2.1	12	2.4	10	2.4
4	10	2.1	09	1.9	11	3.1	10	2.6	07	1.6	09	2.5	11	2.4	10	2.4	09	3.1	06	1.8	32	2.1	26	1.9	13	2.1	11	2.4	12	2.8	10	2.8
5	10	2.9	11	1.9	10	3.0	10	2.9	10	2.8	09	3.0	10	2.5	10	2.2	09	2.7	06	2.7	32	1.3	26	2.2	13	1.3	11	2.4	11	2.8	11	2.4
6	10	2.5	11	1.9	09	4.0	10	2.3	11	3.5	09	3.7	10	2.0	10	1.8	09	2.5	06	1.1	32	1.1	19	1.1	13	1.8	11	2.8	10	2.1	11	2.2
7	10	3.2	10	2.5	10	2.7	11	2.5	10	3.8	11	3.7	10	2.7	10	3.0	10	2.4	06	2.1	31	2.0	16	1.1	13	1.3	11	1.3	10	2.7	11	2.9
8	08	4.1	08	4.1	11	2.0	10	3.8	09	4.3	10	3.4	09	3.0	09	4.4	07	3.9	03	3.8	30	3.3	16	1.3	13	3.4	11	1.9	11	3.1	10	3.7
9	08	5.0	06	5.1	04	1.9	10	4.8	08	5.0	05	4.2	08	3.9	07	4.4	07	4.1	02	4.1	29	3.8	16	1.0	12	6.0	09	2.8	10	4.7	09	5.7
10	08	4.7	08	4.2	08	3.3	09	5.8	08	6.0	08	5.2	07	3.3	08	4.5	05	4.2	01	4.4	30	3.9	16	1.3	12	4.9	10	4.0	08	4.9	10	5.2
11	08	5.0	09	5.9	10	4.9	09	6.1	08	5.8	09	5.2	07	3.8	06	4.5	08	3.9	01	6.9	28	4.6	22	2.9	11	5.2	08	3.8	10	4.4	11	5.0
Noon	05	5.1	08	4.8	06	4.9	09	5.8	10	6.2	08	5.3	05	5.1	06	5.1	06	4.1	32	6.1	29	4.6	22	3.8	13	4.5	04	2.7	11	5.7	09	5.2
13	07	4.6	07	5.7	07	3.6	08	6.1	08	6.4	07	5.0	06	4.4	08	5.0	07	4.1	31	6.0	28	4.4	22	4.8	12	5.3	09	3.4	11	6.1	09	5.3
14	08	4.4	11	4.5	06	4.2	10	6.1	08	5.5	09	4.7	07	4.4	08	5.1	07	3.5	01	5.3	30	5.0	16	4.3	12	6.7	07	2.6	09	5.5	09	5.8
15	09	4.3	06	5.0	11	4.7	09	6.3	08	5.8	08	4.4	07	4.4	07	5.1	08	4.5	32	4.5	29	5.2	12	4.2	12	6.8	09	3.3	10	5.9	10	5.8
16	09	4.7	08	5.2	09	4.6	08	6.0	08	5.6	10	4.2	06	4.4	08	4.3	09	2.9	32	4.7	29	3.9	14	5.5	12	5.7	10	4.1	10	6.2	09	6.1
17	09	4.4	08	5.4	10	3.8	09	5.3	09	5.8	10	3.6	07	312	06	4.0	08	2.0	01	4.4	27	3.5	13	5.7	12	4.9	09	4.1	11	5.0	09	6.0
18	08	3.0	09	4.4	09	3.3	10	3.6	09	4.5	10	2.8	06	3.0	06	3.0	07	2.4	01	3.4	27	2.6	13	4.6	12	4.4	09	4.2	10	4.0	09	5.2
19	09	2.4	09	3.4	10	2.3	10	2.5	10	3.9	10	1.7	07	2.5	07	1.6	06	0.9	01	3.0	28	2.4	13	1.9	12	2.3	11	3.6	10	3.2	10	3.4
20	08	3.4	09	2.2	10	3.2	10	1.7	10	3.2	10	2.2	06	2.3	10	1.7	08	1.4	32	2.9	28	1.3	13	1.1	12	2.0	12	3.3	10	2.7	09	3.3
21	08	3.1	09	3.0	11	2.5	10	2.4	09	3.2	10	1.8	07	1.8	07	1.7	09	1.4	01	2.2	28	1.3	15	1.8	12	1.4	12	1.6	10	2.9	09	3.7
22	08	1.4	09	3.4	11	2.9	11	2.6	09	3.2	10	1.7	12	3.3	07	1.3	08	1.6	01	2.4	28	1.8	14	2.3	12	1.5	12	1.1	10	2.7	09	3.1
23	10	2.9	10	2.8	10	2.3	11	2.8	09	2.2	10	2.4	12	2.2	08	2.0	08	1.7	01	2.4	25	2.2	15	2.2	12	1.8	09	2.5	10	2.7	09	4.0

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	09	3.3	10	2.7	08	1.8	06	1.0	07	2.4	09	2.4	10	2.1	10	1.9	11	2.8	11	4.1	11	1.7	10	3.3	10	2.2	11	2.6	09	2.7	2.3
1	09	3.1	10	2.2	08	2.0	06	1.5	07	1.8	09	1.8	10	2.1	10	1.8	10	3.1	11	4.3	11	1.4	11	3.1	10	2.2	12	2.1	09	2.6	2.3
2	09	3.4	10	2.3	08	1.9	06	1.3	07	1.7	09	1.5	10	2.0	10	1.9	11	2.8	11	4.2	11	1.7	10	3.0	10	3.2	12	1.1	09	3.4	2.3
3	10	2.2	10	2.1	08	1.5	06	1.2	09	1.5	09	1.6	10	2.2	11	2.4	10	2.2	11	4.2	11	2.0	11	3.4	09	2.8	11	2.2	08	3.0	2.4
4	10	3.1	10	1.8	08	1.8	06	1.9	09	1.9	09	1.8	10	2.0	11	2.2	11	1.5	12	5.1	11	2.2	11	2.7	10	2.7	11	2.3	08	3.2	2.4
5	10	3.1	10	1.8	08	2.2	06	1.4	09	2.1	09	2.3	10	2.7	11	1.8	13	1.9	11	4.1	11	1.8	11	2.4	10	1.8	11	1.8	08	2.7	2.4
6	10	2.8	10	2.4	08	3.0	06	2.0	09	1.7	09	2.2	10	3.0	11	2.7	09	2.2	11	4.4	11	1.9	11	3.3	10	2.4	10	1.8	09	2.5	2.4
7	10	2.4	11	2.7	07	2.1	06	1.5	09	2.4	11	2.9	10	3.2	11	3.4	10	3.5	11	5.1	11	4.5	11	3.6	10	3.0	10	2.1	09	3.1	2.7
8	09	4.4	09	3.3	03	3.4	05	3.2	07	3.5	10	3.9	09	4.2	09	4.4	11	3.6	10	5.6	11	6.5	09	4.3	07	3.8	11	3.0	09	4.7	3.7
9	07	4.4	09	4.6	02	4.0	05	3.3	05	4.1	07	4.4	11	5.0	07	4.6	09	5.1	11	6.3	11	7.0	09	4.4	08	4.4	10	3.6	09	5.1	4.4
10	10	4.4	09	4.5	02	4.3	07	3.6	07	4.4	09	3.9	07	4.2	09	4.6	10	5.1	11	6.8	12	7.4	09	4.5	08	5.2	08	3.4	09	5.1	4.6
11	08	4.8	08	5.3	02	3.6	03	3.4	08	4.1	08	4.7	09	4.6	05	3.9	09	4.6	12	7.2	09	7.7	10	5.2	06	4.4	06	3.6	11	5.3	4.8
Noon	07	5.1	08	4.7	32	4.2	05	3.8	07	4.2	03	4.8	09	4.9	06	4.6	11	5.3	10	7.2	11	7.4	08	5.3	08	4.2	06	3.3	08	5.1	5.0
13	10	5.2	09	4.4	01	4.2	08	3.7	06	4.2	05	4.6	10	5.3	08	4.9	11	5.8	09	7.0	09	7.5	07	5.2	08	4.7	06	3.1	08	5.2	5.0
14	08	5.8	08	4.3	01	4.4	05	4.1	04	4.0	06	4.2	08	4.4	09	4.5	11	6.5	09	7.3	08	7.3	11	5.0	05	4.8	06	2.5	07	5.0	4.9
15	08	5.4	05	4.1	01	3.4	06	3.4	07	3.4	08	4.4	09	5.3	12	4.7	10	6.8	11	7.7	10	6.8	11	4.7	05	4.2	18	1.8	10	5.4	4.9
16	10	5.3	07	3.8	02	3.1	07	3.9	05	4.0	05	4.4	08	4.7	10	4.3	11	6.8	11	7.6	10	6.3	09	4.4	08	3.6	15	2.7	09	4.7	4.8
17	10	5.6	08	4.2	02	2.3	05	3.3	06	3.3	08	4.1	09	5.0	10	5.1	11	5.9	11	5.9	11	6.4	10	4.7	08	3.9	09	3.8	11	4.8	4.5
18	09	4.6	08	3.3	03	1.9	07	2.5	07	3.4	09	3.8	11	4.5	11	2.3	09	4.4	10	4.4	11	5.2	09	4.4	07	3.0	09	3.3	11	4.0	3.7
19	09	3.2	08	3.0	03	1.1	08	2.0	09	3.1	10	3.3	11	3.8	10	2.7	11	4.4	10	2.7	11	4.4	09	3.4	07	1.9	09	3.0	11	3.5	2.8
20	10	2.5	08	2.5	03	1.5	08	1.4	08	3.0	10	2.4	10	3.0	10	2.8	11	4.4	10	2.2	10	4.3	09	2.8	07	1.0	11	2.1	10	3.3	2.5
21	10	3.2	08	2.8	06	1.1	08	1.7	08	3.2	10	2.7	10	1.6	10	2.9	11	4.0	10	2.2	10	4.0	09	3.3	08	1.2	11	2.3	11	4.3	2.5
22	10	2.5	08	2.5	06	1.2	08	2.3	09	3.2	10	1.9	09	2.7	10	2.1	09	4.3	11	3.1	10	3.8	10	2.2	10	1.8	11	3.1	11	3.8	2.5
23	09	2.7	08	3.2	06	1.6	08	2.0	09	3.4	10	1.7	09	2.3	12	2.9	10	4.1	11	2.5	10	3.6	10	2.5	11	3.1	10	3.1	11	3.3	2.6

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS), OCTOBER, 1940.

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	-	1	30	1	-	-	3	10	6	10	-	-	-	-	-	-	1	-	
9	-	4	27	-	2	4	1	15	3	4	-	1	-	-	-	-	-	1	
15	1	7	23	2	-	2	2	12	5	6	-	-	1	-	-	-	-	1	
21	-	-	31	1	-	-	1	12	9	6	-	1	-	-	-	-	-	1	
	TOTALS			4	2	6	7	49	23	26	-	2	1	-	-	-	1	3	

TABLE XIVa - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR OCTOBER, 1940

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	...	..	..	..	0.8	..	1.0		..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	...	..	..	..	..	..	..	1.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	0.3	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.8	..	..
4	..	0.1	..	..	2.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	..	..
5	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	2.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	0.1	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	0.5	1.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	0.1	..	..	..	5.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	7.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	1.0	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	0.6	..	..	..	..	..	0.5	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..

TABLE XLVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR OCTOBER, 1940

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	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	0.5	..	0.3
2	..	0.5	..	..	1.3	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..
3	..	0.1	1.5	..	1.0		..	..	..	..	..	1.9	..	..	0.2	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..
4	..	..	1.9	..	..	..	..	..	..	..	..	1.5	..	..	..	..	..	..	..	0.3	..	..	0.2	..	..	..	..	..	0.2	..	..
5	..	..	1.4	..	..	..	..	..	..	..	..	6.8	..	..	0.4	..	..	0.1	..	..	..	..	..	..	..	0.3	..	..	0.2	..	..
6	..	..	0.2		..	..	..	..	..	..	..	0.7	..	..	0.4	..	..	0.1	..	..	..	..	..	..	..	0.3	..	..	0.1	..	..
7	..	..	..	..	..	..	..	..	..	..	..	1.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	0.2	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	1.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..
15	..	..	0.2	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	2.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	2.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	0.2	..	..	1.3	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	0.2	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	0.1	..	..	1.9	..	0.4	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	0.1	..	..	1.2	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	0.1	1.4	..	..	1.1	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	1.7	..	..	..	0.2	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..
24	..	..	..	..	..	..	0.1	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR OCTOBER, 1940

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall Inches	Total Fall Millimetres	Normal in Inches	Number of days
1	Mare Seche	20	1.25	31.8	2.16	6
	Saint Antoine	50	1.65	41.9	1.48	8
	Bel Mont	50	1.13	28.7	1.68	5
	Poudre D'Or	20	1.45	36.8	1.74	5
	Mon Loisir S E	300	...	...	2.28	..
	Forbach	300	1.47	37.3	2.06	9
	Couroupa	...	1.05	26.6	1.86	7
	Labourdonnais	290	1.46	37.0	2.01	6
	Mapou Water Office	...	.66	16.8	...	3
	Beau Sejour	300	1.72	43.7	2.49	13
	Mont Piton	650	1.67	42.4	2.52	12
	Mon Choix	700	1.78	45.2	2.27	9
	Antoinette	640	2.62	66.5	2.33	12
	Mon Songe	620	3.72	94.5	2.53	12
	Botanical Gardens	325	1.66	42.2	2.09	18
	The Observatory	179	1.68	42.6	1.67	18
	Solitude	175	0.90	22.9	1.18	4
	Saint Andre(cour)	90	...	...	1.43	..
	La Nicoliere	...	3.05	77.5	2.07	12
	California	...	3.33	84.6	...	8
	Australia	...	3.20	81.3	...	10
2 & 3	Union Regnard (Flacq S.E.)	600	2.40	61.0	2.39	9
	Constance d'Arifat	100	2.57	65.3	2.21	12
	Rich Fund	600	3.09	78.5	2.64	12
	La Toffrette	...	2.25	57.2	...	6
	Belle Vue Allenby	...	2.50	63.5	2.70	10
4	Sans Souci	900	5.50	139.7	5.51	16
	Beau Champ(G.R.S.E.)	20	2.05	52.1	2.32	14
	Olivia	400	4.28	108.7	4.13	14
	Trois Ilots	...	2.50	63.5	...	10
	Belle Rive	400	4.13	104.9	5.11	18
	Sebastopol	700	...	...	...	..
	Bonne Veine	400	4.61	117.1	5.05	21
5	Rose Belle	850	4.44	112.8	6.19	23
	New Grove	650	3.18	80.8	6.36	16
	Mon Tresor	...	1.43	36.3	...	..
	Mon Desert Carie	75	1.48	37.6	2.80	...
	Ferney	20	2.35	59.7	3.50	5
	Sauve Terre	...	1.11	28.2	...	...
	Trivoli	1300	3.49	88.6	5.69	...
	La Flora	1050	3.94	100.1	5,28	...
	Riche Bois (Britannia)	650	1.19	30.2	4.08	...
6	Britannia Estate	700	1.76	44.7	4.35	...
	Savannah Mill	200	1.04	26.4	2.79	7
	Saint Aubin	300	.63	16.0	2.75	6
	Saint Avold	900	2.33	59.2	4.33	...
	Colmar	400	1.91	48.5	3.35	...
	Union S.E.	...	.65	16.5	2.31	2
	Fontenelle	320	.43	10.9	2.92	2
	Choisy	200	.90	22.9	2.30	4
	Beau Bois	....	2.29	58.2	...	12
	Bel Air	....	0.69	17.5	2.53	4
	Saint Felix	....	0.85	21.6	...	5
7&8&9&10	Bel Ombre	40	1.05	26.7	2.22	7
	Beau Champ (B.du Cap)	70	1.00	25.4	2.15	6
	Frederica	...	1.13	28.7	2.76	4
	Pierrefonds	...	1.83	46.5	1.83	9
	Sainte Marie	...	1.45	36.8	...	7
	Hussonia	...		14.0	...	4
11	Curepipe Gardens	1840	2.44	62.0	4.64	13
	Mare aux Vacoas (Good End)	1850	3.14	79.8	5.87	17
	Mare aux Vacoas (Arnaud)	1830	3.74	95.0	5.79	23
	La Marie Filter Beds	1700	1.86	47.2	3.60	11
	Sophie	...	2.83	71.9	...	15
	Reunion	1420	1.77	45.0	2.97	9
	Aerological Station	1393	...	30.2	2.65	14
	Phoenix	...	1.85	47.0	...	4
	Quatre Bornes	...	0.95	24.1	...	4
12	Quatre Bornes Board	1090	.54	13.7	1.57	2
	Le Reduit (D.of Ag.)	1000	1.69	43.0	1.75	25
	Alma	1460	3.07	78.0	4.68	12
	Bagatelle	1250	1.67	42.4	2.05	..
	Highlands	1300	1.86	47.2	3.21	..
	Trianon	950	1.04	26.4	1.86	4
	Val Ory	1100	1.27	32.3	2.04	6
	Bassin	...	1.56	39.6	2.00	4
	Hermitage	1450	2.02	51.3	3.66	....
	Ebene	...	1.81	46.0	...	....
	Bega	...	1.72	43.7	...	....
	Mon Reve	...	1.87	47.5	....	....
	Mon Pevril	...	1.59	40.4	....	....
	Mimissy	1150	2.01	51.1	2.15	....
	Plaisance	...	1.10	27.9	....	....
	La Ferme	350	1.07	27.2	1.20	8
	Line Barracks	...	.43	11.0	...	9

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION VACOAS, 424.5 METRES ABOVE SEA LEVEL, DURING THE MONTH OF

O C T O B E R , 1940

Date \ Type	Time	St. & Fs. Dir.	St. & Fs. Vel/Height	Cumulus Cu.St.&c. Dir.	Cumulus Cu.St.&c. Vel/Height	Alto Cu. Alto St. Dir.	Alto Cu. Alto St. Vel/Height	Cirro Cumulus Dir.	Cirro Cumulus Vel/Height	Cirro Stratus Dir.	Cirro Stratus Vel/Height	Cirrus Dir.	Cirrus Vel/Height
		0		0		0		0		0		0	
1	9½	...	...	110	9.2	...	...	...	...	...	...	...	...
2	9¼	...	...	100	11.5	...	...	...	...	...	...	...	...
3	9¼	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	9	...	...	115	7.9	...	...	...	...	...	...	...	...
6	9	...	...	80	5.8	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...
8	9	...	...	140	5.5	...	...	...	...	...	...	...	...
9	9¼	...	...	95	3.6	...	...	...	...	...	...	...	...
10	9¼	...	...	35	2.8	...	...	...	...	...	...	...	...
11	9¼	...	...	320	3.2	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...
14	9¼	...	...	140	2.7	...	...	...	...	...	...	...	...
15	9¼	...	...	...	...	50	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...
17	9¾	...	...	...	...	80	3.6	...	...	...	...	...	...
18	9¼	...	...	65	6.2	...	...	...	...	...	...	...	...
19	9¼	...	...	30	9.0	...	...	...	...	...	...	...	...
20	9¼	...	...	65	6.2	...	...	...	...	...	...	...	...
21	9¼	...	...	90	9.6	...	...	...	...	...	...	...	...
22	9	...	...	95	8.8	...	...	...	...	...	...	...	...
23	9	...	...	120	12.2	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	9	...	...	135	8.0	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	9¼	...	...	130	10.1	...	...	...	...	...	...	...	...
28	9¼	...	...	115	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...
31	9¾	...	...	90	...	...	...	...	...	...	...	...	...

Date \ Type	Time	St. & Fs. Dir.	St. & Fs. Vel/Height	Cumulus Cu.St & c. Dir.	Cumulus Cu.St & c. Vel/Height	Alto Cu. Alto St. Dir.	Alto Cu. Alto St. Vel/Height	Cirro Cumulus Dir.	Cirro Cumulus Vel/Height	Cirro Stratus Dir.	Cirro Stratus Vel/Height	Cirrus Dir.	Cirrus Vel/Height
		0		0		0		0		0		0	
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		...	...	...	...	...	...	...	...	...	...	...	...

The Direction is that from which the Cloud travels counting North(0°) East (90°) South (180°). The Velocity-Height Ratio is given in Milliradians per sec.

MAURITIUS
ROYAL ALFRED OBSERVATORY

LATITUDE 20°5' 39" S., - LONGITUDE 3h50m 12.6s

RESULTS
OF
MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

NOVEMBER, 1940

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

DIRECTOR

PUBLISHED IN 1964 BY

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TABLE I - RESULTS OF MAGNETICAL OBSERVATIONS MADE DURING THE MONTH OF NOVEMBER, 1940

Month and Day	Mean Declination (West)	Mean Horizontal Force (C.G.S.) (Units)	Mean Vertical Force (C.G.S.) (Units)	Daily Range: Declination (Unit γ)	Daily Range: Horizontal Force (Unit γ)	Daily Range: Vertical Force (Unit γ)	H.R.D. 10,000	Z.R.Z. 10,000
November								
1	14° 2.1'	.22423	.29890	10.3	63	29	141	87
2	1.6	422	888	11.2	28	27	63	81
3	1.9	410	897	8.6	50	16	112	48
4	3.2	404	899	6.6	97	24	217	72
5	3.1	409	897	12.0	44	25	99	75
6	1.9	419	894	9.3	27	20	61	60
7	1.7	421	894	9.2	44	18	99	54
8	2.7	418	893	7.0	19	24	43	71
9	2.6	411	896	8.3	96	19	215	57
10	2.6	437	892	8.5	22	21	49	63
11	2.6	437	892	8.5	22	21	49	63
12	1.6	427	888	13.5	77	38	172	113
13	2.6	374	905	6.5	79	21	177	63
14	2.3	409	903	8.8	34	14	76	42
15	2.6	418	898	12.3	47	38	105	113
16	3.1	418	899	8.8	54	29	121	87
17	2.6	418	894	12.7	63	45	141	134
18	2.5	421	899	11.2	33	33	74	99
19	...	...	896	...	..	25	..	75
20	1.9	445	891	14.2	36	29	81	87
21	2.9	419	897	14.3	81	29	181	87
22	2.1	408	900	12.0	54	12	121	36
23	3.2	402	903	11.0	79	15	177	45
24	3.5	416	900	5.5	31	16	69	48
25	1.7	419	900	8.5	116	43	260	128
26	3.9	409	906	8.5	28	19	63	57
27	3.1	428	902	6.5	53	21	119	63
28	2.6	431	900	7.0	25	27	56	81
29	3.7	415	900	14.0	88	30	197	90
30	4.1	413	908	7.2	45	21	101	63
Mean	14° 2'61	.22417	.29897	9.81	53.2	25.3	119.2	75.7

Description of the Principal Magnetic Disturbances

DECLINATION. 12d. Second half and first part of 13d. disturbed; irregular features mainly not exceeding 6' amplitude.
15d.,16d.,& 17d. Very slightly disturbed in parts.
21d. 22d. & 23d. Slightly disturbed.
25d. Disturbed during second half; wave form fluctuations (5')
29d. Somewhat disturbed; absolute range 15'.

HORIZONTAL FORCE. 1d. Slightly disturbed from 9h. Trace becomes quiet after 18h.
4d. Slightly disturbed from 10h. to the late hours of 5d. Irrgular features mainly. Absolute range 100γ.
9d. Slightly disturbed during second half.
12d. Disturbance of long duration starts from 10h. and ends gradually on 14d. Irregular features mainly with small pulsations superposed at times.
16d.,17d.,18d.,19d. & 20d. Slightly disturbed in parts
21d. Moderately disturbed from 9h. to 16h. Small oscillations on the fluctuating trace.
22d. & 23d. Slightly disturbed in general.
25d. Disturbed from 12h. Large irregular features mainly. Wave form fluctuations (35γ) between 18h. and 23h.
29d. Moderately disturbed.

VERTICAL FORCE. 12d. Second half and first part of 13d. disturbed.
21d. Slightly disturbed from 9h. to 16h.
25d. Disturbed from 12h. Irregular features at end. Absolute range (45γ).

T= .37368 Mean Dip = 53°8.25' X = .21747 Y = -.05440 Z = .29897

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF NOVEMBER, 1940

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.	° '	
12.14.50	13°.55' 2	6 9 47	.22428	8 14 38	53°07'.56	.29887
22.14.26	13 55. 3	9 9 28	.22443	12 15 00	53 07 .50	.29883
29.14.14	13 57. 7	13 9 36	.22390	19 14 50	53 06 .87	.29893
		21 9 11	.22420	22 14 37	53 11 .68	.29898
		23 9 34	.22433	29 14 38	53 07 .75	.29886
		27 9 06	.22444			
		30 9 44	.22408			

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

NOVEMBER, 1940

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day / Hour
							13° +										
Midnight	62.7	62.3	62.0	63.0	64.0	62.5	62.5	62.7	62.7	62.7	62.7	62.7	65.0	62.3	62.7	62.0	Midnight
1	62.5	62.0	62.0	63.0	64.5	61.7	62.3	62.5	62.5	63.0	63.0	63.0	62.0	62.0	63.0	62.5	1
2	62.3	62.3	62.3	63.0	64.7	62.5	62.5	62.5	62.0	63.0	63.3	63.0	62.0	63.0	64.0	62.0	2
3	63.3	62.7	62.7	63.3	65.0	63.3	63.0	62.3	62.0	63.3	63.5	63.5	64.0	63.5	62.5	62.0	3
4	63.5	63.3	63.5	63.5	64.3	63.7	63.5	62.5	63.5	64.0	64.0	64.0	63.0	63.0	64.0	62.0	4
5	63.7	64.0	63.7	64.3	65.0	64.5	63.8	63.0	64.0	65.0	64.7	64.0	65.0	64.5	65.0	63.0	5
6	63.5	64.5	64.0	63.5	66.5	65.5	64.5	63.8	65.0	66.5	66.0	65.0	64.5	65.0	65.0	65.5	6
7	65.3	65.0	64.3	63.7	69.5	66.3	65.5	66.0	66.3	67.5	66.5	67.5	64.5	65.5	66.0	67.5	7
8	65.8	65.7	64.3	65.3	68.0	65.7	65.5	67.0	66.0	67.0	67.0	66.7	65.5	65.0	68.0	67.5	8
9	67.0	65.5	64.0	66.3	67.0	64.5	64.5	66.0	65.0	65.0	64.5	63.0	65.0	64.0	66.7	67.0	9
10	66.0	64.3	64.3	66.3	64.3	63.0	62.0	64.5	63.5	63.0	63.0	61.0	65.0	62.5	66.5	65.5	10
11	63.0	61.0	64.0	65.0	62.0	10.0	10.0	62.5	62.0	61.0	62.7	59.0	60.0	60.0	62.5	63.5	11
Noon	59.5	58.0	62.0	64.0	60.5	59.0	58.0	61.5	60.5	59.5	62.0	56.0	59.5	59.5	60.0	61.5	Noon
13	57.0	55.5	58.0	61.0	58.0	57.0	57.0	60.0	59.0	56.5	60.0	54.0	59.0	57.7	59.5	59.5	13
14	56.7	54.5	55.7	60.0	57.5	57.0	56.3	60.0	58.0	56.5	59.3	54.3	58.0	56.7	55.7	58.7	14
15	57.0	55.5	56.3	59.7	57.5	57.5	57.0	60.7	60.0	58.0	58.5	56.0	58.5	58.0	57.0	59.0	15
16	59.0	57.0	57.5	60.0	59.5	58.3	58.0	61.5	61.5	59.5	59.7	58.5	60.0	60.7	59.0	60.5	16
17	60.0	60.5	60.0	60.7	61.0	60.5	61.5	62.3	62.0	61.0	61.0	60.5	62.0	63.5	62.0	63.0	17
18	61.5	62.0	61.0	62.0	62.0	61.5	62.0	62.0	62.5	62.0	62.0	61.7	63.0	63.7	63.0	63.0	18
19	61.5	62.0	61.0	62.0	62.0	61.5	62.0	62.0	62.5	62.0	62.0	61.7	63.0	63.7	63.0	63.0	19
20	62.2	62.7	62.3	63.0	62.7	62.5	62.0	62.0	62.5	62.0	62.0	62.0	64.0	62.7	62.5	63.5	20
21	62.2	62.7	62.3	63.0	62.7	62.5	62.0	62.0	62.5	62.0	62.0	62.0	64.0	62.7	62.5	63.5	21
22	62.5	62.5	63.0	64.5	62.7	62.5	62.5	62.5	62.7	62.5	62.0	63.5	63.0	63.7	63.0	65.3	22
23	63.0	62.5	63.5	65.5	62.7	62.5	63.0	62.7	63.3	62.7	62.0	64.5	62.5	63.0	62.7	63.5	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Day / Hour
						13° +											
Midnight	63.5	63.3		62.3	63.5	62.7	63.0	64.0	63.5	64.2	63.5	63.7	63.3	64.5		63.1	Midnight
1	63.5	62.5		62.3	63.5	63.0	64.5	63.5	63.5	64.2	63.7	63.0	63.5	64.0		63.0	1
2	63.0	62.0		62.5	63.7	63.0	64.0	63.5	63.0	63.5	63.5	63.0	62.7	64.0		63.0	2
3	62.5	60.5		63.0	63.3	63.7	64.0	63.5	63.5	64.0	63.7	63.5	64.6	64.5		63.2	3
4	63.7	61.5		62.3	65.0	63.5	64.3	64.0	63.7	65.5	64.0	62.7	65.5	64.5		63.6	4
5	64.0	63.0		63.5	65.3	63.7	64.5	64.0	64.3	66.0	64.0	64.3	66.0	65.0		64.3	5
6	65.5	64.0	64.0	65.0	64.5	64.5	64.7	65.0	64.5	67.7	64.5	64.5	66.7	65.7		65.0	6
7	67.5	66.5	67.0	68.5	68.5	66.5	68.0	66.0	65.5	67.5	66.0	66.0	69.0	66.5		66.5	7
8	68.7	67.5	68.3	69.7	67.0	67.0	67.5	66.5	65.0	68.5	66.5	66.5	71.0	67.5		66.9	8
9	65.0	67.7	67.5	68.0	69.3	67.0	69.0	66.0	64.3	66.5	65.5	65.0	70.0	67.5		66.1	9
10	63.0	66.5	66.0	63.5	67.5	62.7	66.5	65.5	63.0	66.0	63.0	63.0	68.0	66.0		64.4	10
11	61.0	64.0	63.5	60.5	63.0	62.5	62.3	64.3	60.5	64.0	62.0	61.5	63.0	65.5		62.2	11
Noon	59.5	61.0	61.0	57.5	59.0	59.5	60.0	63.0	59.0	63.0	60.5	60.0	60.0	63.5		60.2	Noon
13	56.0	59.0	58.0	56.0	55.3	58.0	59.0	62.5	57.5	60.0	60.0	59.5	58.0	62.3		58.2	13
14	55.0	57.0	56.5	55.7	55.0	55.0	58.0	62.0	58.0	60.0	60.0	59.5	58.0	60.3		57.5	14
15	56.7	56.5	57.0	55.5	58.5	56.0	58.3	61.0	59.0	60.0	60.0	59.7	57.5	60.7		58.1	15
16	58.5	58.5	59.0	57.0	60.0	57.5	59.5	61.0	57.0	60.5	60.5	60.0	57.0	62.0		59.3	16
17	62.0	61.0	61.5	59.3	62.3	60.5	61.0	61.7	57.0	61.5	62.7	61.5	60.5	63.0		61.2	17
18	63.0	63.0	62.5	61.5	62.7	62.0	62.5	62.0	57.0	63.3	63.5	62.5	63.0	64.3		62.3	18
19	63.5	63.0	62.3	62.0	62.3	62.3	62.0	62.5	60.5	63.5	63.7	63.0	63.0	63.5		62.5	19
20	64.0	62.7	62.5	61.3	62.5	62.5	62.5	62.7	62.0	64.0	63.0	62.5	64.0	63.7		62.7	20
21	63.5	63.0	62.3	62.0	62.7	62.7	63.0	63.0	61.7	64.3	63.5	62.3	64.5	63.0		63.0	21
22	64.0	63.0	62.5	62.5	62.7	62.7	63.5	63.0	63.0	63.7	63.5	62.5	64.5	63.0		63.1	22
23	65.5	63.0	62.3	63.0	62.7	62.5	64.0	63.5	64.5	63.5	63.7	63.0	64.7	63.3		63.3	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)

NOVEMBER, 1940

.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	421	416	421	394	392	412	427	417	421	407	431	432	395	395	405	417	Midnight
1	423	420	423	400	391	420	430	420	421	404	432	437	405	398	403	420	1
2	425	422	425	405	387	417	427	425	422	405	431	433	413	402	412	422	2
3	430	423	425	413	395	414	427	425	423	406	430	435	400	405	420	425	3
4	429	423	424	414	423	413	427	423	424	406	429	429	401	406	413	429	4
5	426	422	423	420	407	413	430	422	422	407	429	434	380	405	415	420	5
6	426	419	424	420	407	415	430	420	421	408	431	431	390	413	415	423	6
7	427	418	428	421	412	420	425	416	422	404	437	428	385	425	417	417	7
8	437	419	422	419	411	423	425	417	437	405	447	428	387	423	419	412	8
9	455	420	418	417	422	427	435	415	445	413	450	433	370	425	420	412	9
10	456	427	417	426	421	427	440	417	442	423	451	440	372	419	426	419	10
11	438	433	430	427	431	433	435	419	453	432	443	460	380	420	427	423	11
Noon	435	432	423	438	430	433	424	421	450	433	438	479	365	429	442	428	Noon
13	435	437	423	443	427	427	429	427	433	425	437	460	370	423	450	435	13
14	430	439	421	439	421	421	430	423	420	418	439	426	360	418	437	435	14
15	425	427	400	430	410	414	417	415	403	413	440	415	350	401	422	427	15
16	402	419	390	422	401	410	396	410	391	416	440	416	353	399	414	426	16
17	393	416	380	400	393	406	402	408	375	417	438	410	350	395	410	421	17
18	395	411	380	369	400	410	403	411	372	417	437	407	334	402	411	425	18
19	409	415	387	353	400	413	408	414	372	420	436	406	337	406	415	425	19
20	405	417	393	349	403	412	412	416	357	422	435	407	357	403	409	410	20
21	403	416	394	353	407	423	411	415	365	423	435	406	365	395	407	400	21
22	405	418	392	346	405	420	412	416	380	430	434	402	376	397	408	381	22
23	413	417	390	375	410	425	417	419	397	429	434	410	387	401	417	403	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Mean	Hour \ Day
Midnight	390	408		442	430	413	410	400	423	395	426	423	435	390		413	Midnight
1	389	417		411	425	419	432	400	428	388	425	429	438	405		417	1
2	405	415		442	425	426	423	401	439	410	429	428	443	435		421	2
3	407	423		441	443	413	425	402	430	412	429	428	447	429		422	3
4	409	419		441	445	425	425	401	432	417	427	430	435	409		422	4
5	410	413		441	429	430	425	402	429	410	423	429	435	405		419	5
6	410	416	431	442	437	428	430	403	436	409	425	428	439	408		421	6
7	410	418	432	441	433	425	437	410	441	418	435	427	447	402		422	7
8	412	417	436	442	426	429	439	417	447	407	445	423	439	401		423	8
9	425	421	440	450	430	429	440	418	450	403	448	425	415	402		425	9
10	439	429	450	458	458	412	413	415	450	417	445	435	422	413		429	10
11	445	440	455	467	455	390	405	420	456	406	440	445	429	423		431	11
Noon	452	441	449	462	447	389	383	427	455	400	438	448	432	423		431	Noon
13	453	437	437	452	415	403	379	430	447	398	436	443	417	422		428	13
14	445	425	433	448	395	401	370	431	427	404	437	436	413	410		421	14
15	438	418	432	453	377	372	364	427	447	407	436	428	415	417		414	15
16	431	412	425	452	385	365	361	423	437	402	428	427	417	411		409	16
17	420	411	425	455	377	385	366	421	417	401	410	426	398	410		404	17
18	416	415	429	444	391	395	372	421	390	408	395	429	372	417		402	18
19	417	417	435	440	399	400	385	418	340	408	407	432	359	407		402	19
20	395	418	433	431	402	403	390	415	347	407	412	426	378	408		401	20
21	403	419	438	433	406	410	393	420	360	418	426	431	395	413		405	21
22	402	420	433	435	410	415	397	422	365	420	425	432	379	412		405	22
23	397	421	438	432	415	419	395	425	380	423	430	433	385	412		411	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)

NOVEMBER, 1940

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	893	897	893	902	907	899	895	897	896	898	894	893	897	904	901	898	Midnight
1	892	896	893	901	908	897	896	897	896	899	894	893	901	903	900	900	1
2	892	894	893	899	906	899	896	897	896	900	895	893	896	903	902	897	2
3	892	894	893	899	907	899	897	897	897	901	896	894	900	903	901	897	3
4	893	894	894	898	905	900	897	897	897	903	897	895	902	903	902	899	4
5	893	894	894	898	903	900	897	898	897	903	897	896	904	907	902	900	5
6	894	894	893	898	905	902	897	900	899	907	900	897	901	908	906	903	6
7	898	893	892	899	908	903	898	904	899	908	902	899	912	908	910	907	7
8	898	893	896	903	901	901	897	903	897	907	900	893	917	909	915	911	8
9	899	892	901	906	894	898	892	898	895	898	895	883	915	908	908	908	9
10	893	887	905	904	888	893	886	892	892	891	889	872	914	902	898	903	10
11	882	882	906	902	887	892	885	892	888	884	887	868	906	895	892	894	11
Noon	873	877	899	894	883	887	884	888	885	879	883	863	900	896	886	886	Noon
13	870	870	892	887	883	883	884	880	884	877	882	862	899	898	877	882	13
14	873	870	890	887	886	884	884	883	886	882	881	869	897	897	879	886	14
15	879	873	893	887	889	887	889	886	894	887	883	880	900	899	887	891	15
16	886	882	896	892	893	889	895	886	897	891	887	888	902	903	895	896	16
17	888	887	898	894	897	892	902	888	898	893	891	894	903	907	900	900	17
18	891	891	899	898	898	892	899	892	901	893	892	896	907	907	901	899	18
19	891	891	898	899	897	892	897	892	899	893	892	896	911	903	899	897	19
20	893	891	898	905	897	893	896	892	902	893	892	895	910	902	900	899	20
21	895	892	899	908	897	893	896	893	903	893	891	895	910	902	902	905	21
22	896	893	900	908	898	894	896	894	902	893	892	899	907	903	902	907	22
23	897	893	902	911	898	896	897	896	901	893	893	900	906	902	901	902	23

29000 + (C.G.S. Unit)

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	[illegible]	Mean	Day / Hour
Midnight	902	899	892	897	899	901	903	906	902	913	903	903	901	911		900	Midnight
1	903	899	894	897	900	902	906	905	902	913	903	902	901	908		900	1
2	901	898	896	897	900	901	904	906	902	913	903	901	900	903		899	2
3	901	897	897	897	898	903	904	907	903	909	903	902	901	905		890	3
4	902	898	898	897	900	903	905	907	903	912	904	903	903	906		901	4
5	902	902	900	897	900	902	906	908	905	913	906	904	904	910		901	5
6	905	904	902	899	901	903	907	908	906	915	907	907	906	912		903	6
7	910	910	905	905	905	904	909	907	903	915	911	910	912	916		905	7
8	911	912	908	903	906	904	908	905	898	913	911	912	909	918		905	8
9	904	911	901	893	903	900	904	901	893	909	905	903	902	917		901	9
10	895	908	899	887	894	893	895	899	888	907	902	897	897	917		896	10
11	884	905	892	880	881	893	894	897	882	903	900	891	896	913		892	11
Noon	880	900	887	876	877	893	894	896	877	902	896	885	888	903		887	Noon
13	873	887	883	878	880	894	896	893	877	897	892	892	882	897		884	13
14	866	879	887	880	887	892	902	893	886	896	892	893	882	898		886	14
15	872	884	891	881	895	898	903	893	892	898	890	894	883	899		889	15
16	880	892	893	882	898	903	904	892	893	900	894	897	885	903		893	16
17	887	897	894	885	900	904	908	893	897	902	901	898	895	905		897	17
18	893	899	895	890	900	903	907	896	903	905	907	899	904	907		899	18
19	894	898	894	891	898	902	903	897	920	903	905	901	910	906		899	19
20	898	898	895	892	899	902	903	898	915	904	905	902	910	907		890	20
21	899	899	895	895	900	902	904	900	919	905	903	902	912	906		901	21
22	902	897	897	897	900	902	904	901	916	903	903	901	910	907		901	22
23	903	895	897	897	900	902	904	901	918	903	903	901	912	908		901	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, 1940.

Month and day 1940	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
NOV.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s		°C	°C	°C	°C	°C	°C	°C	mms.	mins	hrs.	%
1	970.3	21.6	0.7	20.5	94	24.1	55	10.5	10	19.7	20.4	23.1	20.2	24.5	19.7	4.8	9.3	530	3.9	31
2	970.5	22.5	2.6	18.3	77	21.0	75	4.5	9	20.1	20.7	23.5	19.3	24.3	19.5	4.8	1.1	115	7.6	60
3	969.6	23.1	3.6	17.3	70	19.8	45	3.5	6	18.7	22.0	23.3	18.5	25.4	18.4	7.0	0.0	0	11.2	88
4	969.2	24.2	3.7	18.3	70	21.0	40	9.6	6	17.9	23.1	23.7	19.0	25.9	17.9	8.0	0.0	0	6.9	54
5	969.2	23.8	4.4	16.6	64	18.9	45	5.0	4	18.2	23.8	22.9	19.1	26.2	18.2	8.0	0.3	10	9.1	72
6	968.7	23.0	3.3	17.7	72	20.3	70	3.6	9	18.9	23.1	20.1	18.9	25.1	17.6	7.5	16.0	520	1.5	12
7	968.0	23.8	4.2	17.0	66	19.4	C A L M		6	16.4	23.8	24.1	18.3	26.9	16.2	10.7	0.3	25	12.0	93
8	967.9	23.6	4.4	16.4	64	18.7	15	5.0	6	17.0	23.6	24.6	18.9	26.0	17.0	9.0	0.0	0	11.9	93
9	967.1	23.9	4.5	16.7	64	19.0	25	6.2	6	17.8	23.9	25.0	18.1	26.9	17.0	9.9	0.0	0	10.5	82
10	965.7	24.5	5.0	15.9	59	18.1	05	9.7	6	15.9	24.4	22.9	18.5	26.0	15.8	10.2	0.0	0	6.2	49
11	965.5	22.1	5.0	13.5	58	15.5	85	7.0	5	16.9	21.5	23.9	18.3	26.1	16.9	9.2	0.0	0	9.7	75
12	965.5	25.9	5.4	17.4	60	19.9	C A L M		5	17.0	23.0	26.9	19.9	28.8	16.7	12.1	0.0	0	8.7	67
13	966.7	23.8	4.9	15.8	61	17.9	85	16.2	2	19.4	22.8	24.9	20.5	26.4	18.7	7.7	0.0	0	11.0	85
14	968.2	22.0	1.7	19.4	85	22.5	65	14.5	7	19.3	23.1	23.2	19.8	26.0	19.2	6.8	0.5	35	6.8	53
15	969.5	21.9	1.5	19.5	86	22.7	65	10.2	10	19.5	21.8	23.7	20.0	24.7	19.4	5.3	1.4	60	4.3	34
16	969.9	23.5	3.4	18.2	72	20.9	80	8.0	8	19.6	23.3	23.9	19.5	23.4	19.4	4.0	0.1	5	8.3	64
17	970.3	25.2	6.3	14.8	53	16.8	90	3.5	5	17.2	24.3	25.2	19.4	27.4	17.1	10.3	1.0	25	8.9	69
18	969.4	22.9	3.3	17.6	72	20.1	60	10.6	6	18.9	22.0	21.3	19.5	25.3	18.9	6.4	4.0	145	4.0	31
19	968.6	24.8	4.9	17.0	62	19.4	90	4.7	5	18.5	23.5	24.1	19.4	27.0	18.1	8.9	0.0	0	10.9	84
20	969.5	24.7	5.6	15.4	56	17.5	70	6.5	5	18.7	24.6	20.9	20.7	26.6	18.4	8.2	0.7	25	6.3	49
21	969.8	23.5	0.3	23.1	97	28.3	50	9.2	6	19.1	23.2	24.6	19.7	26.5	19.1	7.4	0.6	20	11.0	84
22	969.6	23.5	4.6	16.0	63	18.2	50	13.6	8	18.8	23.4	25.1	19.5	26.4	18.8	7.6	0.6	20	10.0	77
23	967.8	24.6	5.3	16.0	59	18.2	70	6.5	4	19.5	24.5	23.7	19.7	26.2	19.4	6.8	2.3	90	7.0	54
24	967.8	25.1	6.0	15.2	54	17.3	70	15.6	2	19.0	24.7	24.9	20.3	27.3	19.0	8.3	1.8	40	11.0	84
25	968.0	25.1	4.8	17.8	64	20.4	75	4.4	8	19.2	23.5	22.8	20.1	26.5	19.2	7.3	0.5	15	8.9	68
26	967.9	24.4	4.3	17.6	66	20.1	60	19.0	10	19.6	23.4	24.7	20.4	26.6	19.6	7.0	0.0	0	10.8	83
27	867.6	22.6	2.7	18.3	77	21.0	70	15.5	10	20.6	22.4	23.9	20.3	25.2	20.5	4.7	1.0	20	3.2	25
28	967.2	22.9	2.4	19.1	79	22.1	80	8.6	10	20.0	22.6	24.2	19.6	26.5	20.0	6.5	0.3	15	5.1	39
29	967.5	24.7	5.2	16.2	59	18.4	50	7.1	9	19.2	24.4	23.2	19.5	26.5	18.9	7.6	0.0	0	4.5	35
30	968.0	23.9	4.2	17.2	66	19.6	60	7.5	6	19.0	23.7	23.3	19.4	27.2	18.9	8.3	0.0	0	7.4	57
Mean	968.4	23.7	3.8	17.3	68.3	19.9	..	8.2	6.6	18.6	23.2	23.7	19.5	26.1	18.4	7.7	41.8	57.1	7.95	61.7
Average	968.3	22.9	3.1	18.0	73.8	20.6	...	4.0	6.5	...	...	...	...	24.7	17.6	7.1	141.6	...	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 AT PAMPLEMOUSSES OVER THE CORRESPONDING ELEMENTS AT VACOAS

Atmospheric Pressure	-40.9	mbs	Amount of Rain	-12.9	mms
Temperature of the air	+0.4	°C	Duration of Sunshine	+1.1	hrs
Vapour Pressure	+1.8	mbs	Mean of Max. Temperatures	+2.5	°C
Relative Humidity	+4.0	%	" Min. "	+2.2	°C
Velocity of Wind	-4.5	m.p.s	Absolute Min. Temperature	+2.6	°C
Amount of Cloud	-1.7		" Max "	+1.2	°C

Greatest Rainfall intensity at Vacoas 6.6 mms in 60 mins

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF NOVEMBER, 1940

Month and Day 1939	Atmospheric Pressure		Temperature of the Air					Excess of Air Temp. over Evap. Temp.	Temperature of the Dew Point		Relative Humidity (Sat = 100)		Vapour Pressure	Minimum on the Grass	Rainfall			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	Amount of Evaporation	
NOVEMBER	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs	°C	mms.	min	mms	
1	1011.8	+1.3	28.6	21.9	6.7	24.2	+1.3	2.2	20.8	+3.3	81	+ 9	24.6	20.7	3.5	105	6.0	6.4
2	1011.7	+1.2	27.3	21.4	5.9	24.1	+1.1	2.9	19.5	+1.9	76	+ 4	22.7	21.0	0.0	...	6.9	4.8
3	1018.8	+0.4	27.6	19.8	7.8	23.5	+0.5	3.5	17.9	+0.3	71	- 1	20.5	18.9	0.0	...	7.1	3.6
4	1010.1	-0.3	28.4	19.9	8.5	23.9	+0.8	3.2	19.0	+1.3	74	+ 2	22.0	16.3	0.0	...	8.1	3.5
5	1010.2	-0.1	28.2	20.9	7.3	23.6	+0.5	3.2	18.6	+0.9	74	+ 2	21.4	18.0	0.2	10	8.4	4.5
6	1009.3	-1.0	26.9	20.5	6.4	22.6	-0.6	1.8	19.8	+2.0	84	+12	23.1	18.6	13.4	265	4.1	9.0
7	1009.1	-1.1	28.1	18.1	10.0	23.0	-0.3	3.0	18.3	+0.4	75	+ 3	21.0	15.6	0.0	...	5.0	2.7
8	1009.0	-1.2	29.1	17.4	11.7	23.0	-0.3	3.3	17.7	-0.2	72	0	20.3	13.9	0.0	...	5.7	3.4
9	1007.7	-2.4	29.2	18.7	10.5	23.5	+0.1	3.5	17.9	-0.1	71	- 1	20.5	15.5	0.0	...	6.4	2.8
10	1006.3	-3.7	27.7	17.0	10.7	22.6	-0.8	3.6	16.8	-1.2	70	-2	19.1	13.1	0.0	...	6.8	5.0
11	1006.2	-3.8	27.7	17.4	10.3	22.6	-0.9	4.5	15.2	-2.9	63	-9	17.3	15.1	0.0	...	5.7	3.0
12	1006.5	-3.5	30.0	18.1	11.9	23.8	+0.3	3.6	18.1	0.0	71	-1	20.8	15.0	0.0	...	8.6	2.8
13	1006.5	-3.5	30.0	18.1	11.9	23.8	+0.3	3.6	18.1	0.0	71	-1	20.8	15.0	0.0	...	8.6	2.8
14	1009.8	-0.1	28.5	22.0	6.5	24.5	+0.9	3.2	19.6	+1.5	74	+2	22.8	20.2	0.5	30	8.5	5.9
15	1011.3	+1.4	27.7	21.4	6.3	24.1	+0.4	2.6	20.0	+1.8	78	+6	23.4	18.9	1.2	25	6.6	7.5
16	1011.8	+2.0	29.1	20.9	8.2	24.5	+0.8	3.2	19.6	+1.4	74	+2	22.8	20.5	0.0	...	6.9	5.2
17	1011.2	+1.4	29.1	19.6	9.5	24.1	+0.3	3.9	17.9	-0.4	68	-4	20.5	16.0	0.0	...	9.0	2.5
18	1009.8	0.0	28.7	20.6	8.1	24.0	+0.2	3.3	18.8	+0.5	73	+1	21.7	17.4	0.0	...	8.8	5.6
19	1009.9	+0.2	29.2	20.1	9.1	24.3	+0.4	3.9	18.1	-0.5	68	-4	20.8	16.8	0.0	...	7.3	2.8
20	1011.1	+1.5	29.5	21.0	8.5	24.3	+0.4	3.5	18.8	+0.2	71	-1	21.7	18.8	1.7	25	8.9	5.1
21	1010.7	+1.2	28.8	21.1	7.7	24.5	+0.5	3.9	18.4	-0.3	69	-3	21.2	18.5	0.0	...	7.0	4.3
22	1009.4	0.0	29.1	21.1	8.0	24.5	+0.5	3.8	18.5	-0.2	69	-3	21.3	17.9	1.1	25	8.2	5.8
23	1008.6	-0.7	28.8	21.3	7.5	24.3	+0.2	3.3	20.2	+1.4	78	+6	23.7	19.5	4.8	120	8.4	6.8
24	1008.3	-0.9	29.2	21.4	7.8	24.9	+0.7	3.7	19.2	+0.3	71	-1	22.2	19.9	0.0	...	7.5	3.0
25	1008.8	-0.3	29.0	22.2	6.8	24.7	+0.5	3.3	20.6	+1.7	78	+6	24.2	20.2	0.6	10	8.5	5.8
26	1008.5	-0.4	29.0	22.0	7.0	25.1	+0.8	3.8	19.2	+0.2	70	-2	22.2	19.9	0.0	...	7.2	5.3
27	1007.9	-0.9	28.9	23.1	5.8	25.2	+0.8	3.4	20.0	+0.9	73	0	23.4	21.1	0.5	10	8.3	7.0
28	1007.9	-0.8	28.9	22.3	6.6	25.2	+0.7	3.9	19.1	-0.1	69	-4	22.1	20.3	1.4	20	8.0	6.0
29	1008.6	0.0	28.7	22.1	6.6	24.8	+0.3	4.1	18.4	-0.8	68	-5	21.2	20.2	0.0	...	9.2	7.7
30	1008.8	+0.5	29.2	22.3	6.9	25.1	+0.5	4.4	18.2	-1.3	66	-7	20.9	20.4	0.0	...	8.0	5.6
Mean	1009.3	-0.4	28.6	20.6	8.0	24.1	-0.4	3.4	18.8	-0.5	72.3	+0.2	21.7	18.6	28.9	645	7.4	4.9
Average	1009.7	...	28.4	19.6	8.8	23.7	...	3.4	18.3	...	72.1	...	21.1	16.7	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 during the Month of November, 1940

The anticyclone to the South continued to weaken down and the intertropical front started to become active. Mean atmospheric pressure was slightly below normal. Rainfall was below normal and mean temperature below normal.

TABLE VII (Con't) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF NOVEMBER, 1940

Month and Day 1940	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
November	hrs	%	m.p.s.	°C	°C	°C	°C	°C									
1	7.8	61	5.1	+1.7	24.1	24.3	25.4	26.1	bcr o		or o		c		bc	b	br o
2	10.0	78	5.4	+2.0	24.1	24.2	25.4	26.0	b	bc		c		bc	b		b o
3	11.2	88	4.2	+0.8	24.1	24.3	25.5	25.8	b				bc			b	
4	9.9	77	3.1	-0.3	24.1	24.3	25.5	25.9		b			bc	c	bc		b
5	7.6	59	3.4	0.0	24.1	24.2	25.5	26.0		bc		b		bc	cr o	b	
6	1.0	8	2.1	-1.3	24.1	24.2	25.7	26.1	cr		cr o		c		crr	cr o	c
7	10.6	82	2.5	-0.9	24.1	24.2	25.7	25.8	b o				b			b o	
8	8.8	68	2.6	-0.8	23.9	24.4	25.6	25.8	b o		b			bc		b	
9	11.8	92	2.7	-0.7	24.2	24.3	25.6	25.7	b o	b			bc			b c	
10	4.3	33	1.9	-1.6	24.1	24.5	25.6	25.7		b o		bc		c		bc	
11	11.4	88	3.1	-0.4	24.2	24.3	25.6	25.3	b o			bc			b		
12	9.9	76	2.4	-1.1	24.1	24.5	25.5	25.5			b				c	bc	
13	12.0	92	4.7	+1.2	24.1	24.6	25.5	26.0	b	bc	b		bc		b	bc	b
14	8.9	69	4.5	+1.0	24.1	24.6	25.7	26.3		b			bc		c	or o	cr o
15	7.7	59	3.9	+0.4	24.1	24.6	25.8	26.3	c	bc		cr o		bcr o	bc	c	bc
16	11.2	86	3.7	+0.2	24.1	24.6	26.2	26.3	c			bc				b	
17	12.4	95	3.4	-0.1	24.1	24.6	26.2	26.8	b	b		bc				b	
18	6.1	47	3.1	-0.3	23.9	24.6	26.1	26.7	b o		bc			c			bc
19	12.3	94	3.8	+0.4	24.1	24.6	26.1	26.4	b	b	bc	bc	c	b	cr o	b o	bcr o
20	6.6	50	3.8	+0.4	24.1	24.6	26.2	26.9									
21	11.7	89	4.4	+1.0	24.1	24.7	26.5	26.9				bc				b	
22	12.0	92	3.9	+0.5	24.1	24.7	26.5	26.7	o			bc			bcr o		br o
23	6.7	51	4.0	+0.6	24.1	24.7	26.4	26.8	cr o r o			bc			c	bcr o	
24	11.2	86	4.3	+0.9	24.0	24.8	26.5	26.8			b			bc		b	bc
25	8.5	65	4.2	+0.8	24.1	24.7	26.5	26.9		bc	c	bc	bcr o		c	bc	b
26	10.9	83	5.1	+1.7	24.1	24.8	26.5	26.8	b	bc	c			bc		b	
27	6.2	47	4.7	+1.0	24.1	24.8	26.6	27.4	bc	or o	c		bc		c	bc	
28	8.1	61	4.9	+1.5	24.1	24.8	26.6	27.0	bc		cr o		bc	c		bc	
29	4.6	35	4.1	+0.8	24.1	24.8	26.6	27.0	b					c			
30	11.2	85	3.3	0.0	24.1	24.8	26.6	27.0		o			bc			b	
Mean	9.09	69.9	3.74	+0.32	24.09	24.54	26.00	26.35									
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 1940

Elements	Highest	Date	Lowest	Date
Atmospheric Pressure	1013.6 mbs at 23 00 hrs	on 16th	1004.7 mbs at 15.00 hrs	on 11th
Temperature of the Air	30.0°C at 12.40 hrs	on 12th	17°C at 04.20 hrs	on 10th
Daily Range of Temperature of the Air	11.9°C	on 12th	5.8°C	on 27th
Relative Humidity	94.4% at 3.00 hrs	on 6th	45.0% at 12.00 hrs	on 11th
Vapour Pressure	25.5 mbs at 12 00hrs	on 15th	15.7 mbs at 10.00 hrs	on 11th
Evaporation in 24 hours	9.2 mms	on 29th	4.1 mms	on 6th
Wind Velocity	7.9 m.p.s. at 10 00 hrs	on 2nd	0.9 m.p.s. at 6.00 hrs / 22.00 hrs	on 9th / on 10th
Rainfall in 24 hours	13.4 mms ending 20,00 hrs	on 6th		
Duration of Sunshine	12.4 hrs	on 17th	1.0 hrs	on 6th

Mean Day Temperature of Air 26.28°C Average 26.34°C Mean Night Temperature of Air 21.94°C Average 21.30°C

Daily Range of Temperature of the Dew Point
Minimum on grass 13.1°C on 10th

No. 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 and over mms	Lightning	Thunderstorm
...	9	16	5	...	4	6	...	1	...	...	...

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

(The values are coorected for temperature 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).

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	122	130	123	111	109	095	098	098	094	080	070	068	082	101	111	121	Midnight
1	119	123	118	106	101	092	093	090	088	075	063	063	077	097	109	120	1
2	116	120	111	099	099	092	088	090	081	068	056	058	076	091	106	112	2
3	110	116	106	096	098	091	084	090	080	061	053	051	074	089	105	108	3
4	111	115	106	097	098	093	088	091	076	060	056	051	074	090	103	109	4
5	112	118	106	100	101	096	088	090	076	060	057	052	074	090	104	109	5
6	116	120	110	106	110	100	093	091	078	062	061	056	074	094	107	111	6
7	119	124	112	110	119	104	101	096	080	066	066	062	076	100	111	114	7
8	120	121	114	112	119	108	101	097	081	069	070	068	076	100	113	116	8
9	122	121	118	111	119	105	099	096	080	070	070	071	037	101	113	120	9
10	121	121	116	109	114	101	095	092	079	065	070	070	085	100	119	120	10
11	120	120	113	104	110	097	090	090	076	063	069	068	081	099	116	119	11
Noon	118	117	107	100	106	090	082	085	074	064	062	063	081	097	116	119	Noon
13	110	111	100	095	100	083	079	081	071	060	057	058	080	093	112	112	13
14	107	105	094	091	093	078	078	077	069	053	051	053	076	090	110	110	14
15	106	101	089	087	091	076	076	075	064	050	047	051	071	087	107	110	15
16	109	100	090	081	090	076	075	074	060	049	049	055	072	090	109	110	16
17	111	101	094	083	088	080	080	080	063	050	052	058	075	092	110	112	17
18	116	109	099	090	090	082	087	083	068	053	060	066	080	099	113	118	18
19	121	114	105	098	091	090	096	093	072	060	068	072	089	105	118	123	19
20	125	121	111	107	098	094	100	096	080	069	071	080	095	111	121	130	20
21	130	125	114	111	100	096	101	099	085	073	075	084	099	114	123	131	21
22	132	129	119	113	101	100	101	101	088	076	074	086	102	116	126	134	22
23	133	126	118	111	099	100	101	098	086	072	070	084	102	114	125	136	23

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

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

Hour \ Day	NOVEMBER, 1940																													
	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	2	2	0	1	3	7	0	0	0	0	0	1	2	1	9	8	0	1	3	1	4	7	9	3	4	2	6	4	3	10	3.1
1	4	2	0	1	3	7	0	0	0	0	0	1	2	1	9	8	0	1	3	1	4	10	9	3	4	2	6	4	3	10	3.3
2	7	2	0	1	3	10	0	0	0	0	0	1	2	1	9	8	0	1	3	1	4	10	9	2	4	2	6	5	3	10	3.5
3	10	2	2	1	4	10	0	0	0	0	0	1	3	1	9	8	0	1	3	1	4	10	9	2	4	3	6	6	3	10	3.8
4	10	2	3	1	4	10	0	0	0	0	0	1	4	1	9	8	0	1	3	1	4	10	9	2	4	3	6	6	3	10	3.8
5	10	10	4	1	5	9	4	1	2	0	6	1	3	3	7	6	3	7	4	2	7	4	9	4	6	6	10	9	10	10	5.4
6	10	10	4	1	5	9	4	1	3	0	5	0	4	3	6	6	3	7	4	2	8	4	3	4	8	6	10	9	10	10	5.3
7	10	10	4	1	5	9	4	1	3	0	5	1	4	3	7	6	3	7	4	2	7	4	3	4	8	6	10	6	10	8	5.2
8	10	10	7	1	5	9	4	5	3	1	5	2	4	4	7	6	3	7	4	2	7	4	7	1	8	7	10	9	10	8	5.6
9	10	8	8	3	3	9	5	6	6	7	8	3	3	8	8	5	6	6	5	3	2	5	6	1	8	9	9	9	9	2	6.0
10	8	7	7	3	3	9	5	7	6	7	6	3	4	8	9	5	6	6	5	7	5	5	6	1	7	8	9	8	8	3	6.0
11	9	8	7	5	4	8	5	7	6	7	6	3	4	7	8	6	6	6	5	7	5	5	7	1	7	8	9	4	8	3	6.0
Noon	9	8	7	8	5	8	6	7	5	8	4	3	4	7	8	6	6	8	4	8	4	6	8	1	7	7	9	4	8	4	6.2
13	8	7	5	8	6	7	5	7	5	8	6	1	6	5	7	6	6	8	3	8	4	6	7	2	8	6	5	6	5	4	5.8
14	7	7	4	8	7	7	5	7	6	8	4	2	7	5	7	7	3	8	4	8	4	4	8	4	8	6	5	6	8	4	5.9
15	8	7	3	7	9	8	5	6	6	8	3	4	5	6	7	5	3	9	3	8	5	4	6	6	6	5	6	6	9	5	5.9
16	6	3	5	7	9	10	5	5	6	8	3	4	5	7	7	3	3	9	3	8	5	4	9	6	8	5	7	6	9	5	6.0
17	5	3	6	4	8	10	5	5	5	8	3	9	2	8	6	4	2	10	3	10	4	5	10	4	8	8	8	9	9	5	6.2
18	5	4	5	4	8	10	3	4	5	9	2	10	2	9	6	3	2	9	2	9	4	5	10	4	8	7	9	9	10	4	6.0
19	1	3	1	4	3	10	0	3	1	9	1	7	8	9	8	3	1	6	1	10	2	8	7	2	8	7	6	5	10	4	4.9
20	1	2	1	4	1	7	0	3	0	9	1	5	3	10	8	3	1	4	0	10	2	9	5	1	2	3	5	4	8	3	3.8
21	1	0	1	5	1	8	0	3	0	9	1	1	3	10	8	3	1	4	0	4	2	3	4	4	2	3	5	4	8	2	3.3
22	1	0	1	2	1	9	0	2	0	7	1	1	3	10	6	3	1	4	0	4	2	3	4	4	2	3	4	4	8	2	3.1
23	1	0	1	2	1	9	0	2	0	7	1	1	3	10	6	3	1	4	0	4	2	3	3	4	2	3	4	4	8	2	3.0

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

Hour ending \ Day	NOVEMBER, 1940																														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	1	0	0	7	11	4	17	1	15	12	2	0	0	5	9	15	0	0	0	0	0	4	0	0	0	0	4	1.3
7	5	1	53	55	34	0	60	60	60	60	59	60	60	56	18	20	59	59	60	27	45	60	15	31	57	40	0	12	0	39	19.4
8	45	40	45	60	60	0	60	60	60	60	60	60	60	60	42	60	60	56	60	50	52	60	46	50	28	55	0	51	20	54	24.6
9	37	38	50	60	60	15	60	60	60	51	60	60	60	60	38	60	60	44	60	60	52	60	35	60	48	47	7	31	51	60	25.1
10	44	60	60	60	60	25	60	22	60	42	60	60	60	60	60	60	60	60	60	60	60	60	60	60	50	60	19	56	60	60	27.3
11	60	60	60	60	60	9	60	15	60	20	60	60	60	60	30	60	60	60	60	60	60	60	60	60	60	60	28	60	27	60	26.1
Noon	19	55	60	55	60	9	48	48	60	8	53	60	60	59	30	60	60	45	60	50	60	60	25	60	60	60	15	60	59	60	4.6
13	55	42	60	23	60	0	5	60	60	2	55	60	60	21	29	60	60	1	60	40	60	60	19	60	20	60	37	60	31	30	21.3
14	56	60	60	37	52	3	36	60	60	0	60	60	60	57	17	60	60	1	60	0	60	60	42	60	22	60	60	60	5	60	22.5
15	46	60	60	19	3	0	55	60	43	1	60	60	60	45	40	60	60	0	60	2	60	60	25	56	36	60	60	60	0	60	21.2
16	10	60	60	43	0	0	60	28	56	0	60	10	60	25	60	57	60	33	60	27	60	60	20	50	49	60	51	36	0	60	20.3
17	32	60	51	60	4	0	60	14	60	0	60	2	50	14	55	57	60	1	60	20	50	58	50	57	60	48	49	0	15	60	19.4
18	52	57	48	57	3	0	60	21	57	0	36	27	55	15	41	53	60	0	59	0	60	60	5	55	16	38	38	0	6	38	16.9
19	5	5	4	3	2	0	8	8	8	0	0	0	0	0	0	3	20	0	5	0	25	4	0	15	0	3	5	1	0	0	2.1

The total amount of registered sunshine was 272.6 hrs, and the total possible sunshine was hrs.

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)

NOVEMBER, 1940

Hour \ Day	1 Air	1 Excess of air over Evap	2 Air	2 Excess of air over Evap	3 Air	3 Excess of air over Evap	4 Air	4 Excess of air over Evap	5 Air	5 Excess of air over Evap	6 Air	6 Excess of air over Evap	7 Air	7 Excess of air over Evap	8 Air	8 Excess of air over Evap	Hour / Day
Midnight	22.9	1.9	23.0	1.3	21.4	1.9	20.1	1.3	21.1	1.3	21.3	1.3	20.5	1.1	18.6	1.7	Mid-night
1	22.9	2.1	23.0	1.3	21.2	1.6	19.9	1.3	21.2	1.1	21.6	1.6	20.0	1.0	18.2	1.4	1
2	22.0	1.1	22.9	1.5	21.6	1.9	20.5	1.1	21.8	1.7	21.7	1.3	19.6	0.9	18.3	1.4	2
3	22.5	1.5	22.6	1.1	21.0	1.9	21.0	1.2	21.7	1.7	21.2	0.6	19.1	0.9	18.1	1.5	3
4	22.2	1.1	23.0	1.3	21.0	1.9	21.4	1.2	21.7	1.6	21.1	1.0	19.0	1.1	19.3	1.5	4
5	22.0	0.8	22.2	1.1	21.0	2.0	21.0	1.2	21.0	1.4	21.1	0.9	18.5	1.0	18.1	1.4	5
6	22.1	0.9	22.6	1.3	21.3	2.2	20.9	1.2	21.1	1.6	21.3	1.1	19.2	1.2	18.1	1.0	6
7	23.1	1.0	23.4	2.1	23.6	3.5	23.8	2.3	22.8	1.8	21.3	1.1	22.5	1.7	22.7	2.2	7
8	24.3	2.1	24.6	2.6	24.8	4.5	25.4	3.7	25.0	4.6	22.1	1.1	25.0	3.2	25.1	4.1	8
9	24.8	2.4	25.6	3.8	25.5	4.8	26.9	5.1	26.6	5.9	23.9	2.2	25.7	4.5	26.1	5.1	9
10	26.0	3.0	27.1	5.4	26.7	5.6	27.3	5.4	27.0	6.7	25.1	3.1	27.0	5.1	26.1	4.8	10
11	26.1	3.2	26.7	4.6	27.0	5.8	28.0	6.0	27.8	6.8	25.4	3.7	27.7	5.8	26.1	5.0	11
Noon	26.7	4.0	26.2	4.3	27.0	5.9	27.8	5.4	27.8	6.5	26.4	3.6	26.2	4.1	27.8	6.5	Noon
13	27.7	5.1	27.0	5.3	27.0	5.9	27.9	5.9	28.0	6.5	26.1	4.1	26.2	3.9	28.4	7.3	13
14	27.2	4.5	26.7	4.8	26.7	5.8	27.2	5.2	26.7	5.8	26.0	4.1	27.1	4.9	28.1	6.6	14
15	26.3	3.6	26.5	4.5	26.2	5.2	26.7	5.0	25.0	3.0	24.8	2.8	26.9	4.8	27.3	6.3	15
16	24.9	2.3	26.2	4.6	25.8	5.1	26.9	5.7	25.3	3.9	22.1	1.0	27.9	5.6	26.7	5.6	16
17	25.0	2.8	25.2	4.1	25.0	4.8	25.8	5.2	24.1	2.9	21.7	0.9	27.2	5.2	25.6	5.3	17
18	24.3	2.3	23.8	3.4	23.9	3.8	24.2	3.7	23.5	2.8	21.6	1.3	24.3	5.0	24.3	4.2	18
19	24.0	2.0	22.9	2.7	22.9	2.6	23.0	2.4	22.5	2.3	21.5	1.3	22.2	3.2	23.1	3.1	19
20	23.5	1.5	22.2	2.2	21.9	2.0	22.3	2.1	22.0	2.0	21.3	1.1	21.6	2.6	22.0	1.5	20
21	23.1	1.2	22.0	2.0	21.4	1.7	22.1	1.8	21.3	1.7	21.6	1.1	20.2	2.0	21.1	1.1	21
22	23.1	1.2	22.0	2.0	21.0	1.8	21.7	1.7	21.1	1.5	21.5	0.9	20.0	1.9	21.0	0.9	22
23	23.1	1.2	21.7	1.9	20.2	1.6	21.2	1.4	21.1	1.5	21.0	1.0	19.2	1.6	20.9	0.9	23

Hour \ Day	9 Air	9 Excess of air over Evap.	10 Air	10 Excess of air over Evap.	11 Air	11 Excess of air over Evap.	12 Air	12 Excess of air over Evap.	13 Air	13 Excess of air over Evap.	14 Air	14 Excess of air over Evap.	15 Air	15 Excess of air over Evap.	16 Air	16 Excess of air over Evap.	Hour / Day
Midnight	20.6	1.7	19.1	1.6	19.3	2.0	19.6	2.3	22.2	2.1	23.2	2.2	22.6	1.8	23.4	2.2	Mid-night
1	19.7	1.5	18.1	1.2	19.1	2.1	19.1	2.0	22.4	2.2	23.1	2.4	22.1	1.6	23.1	2.0	1
2	19.3	1.2	18.0	1.6	18.7	1.7	18.5	1.7	22.4	2.2	22.6	2.1	22.2	1.4	22.6	1.6	2
3	19.1	1.1	17.8	1.7	18.1	1.2	18.6	1.8	22.1	2.1	22.7	2.7	21.6	1.3	22.3	1.3	3
4	19.0	1.3	17.2	1.6	18.2	1.2	18.2	1.7	21.9	2.3	22.2	2.0	21.7	1.3	22.3	1.3	4
5	18.9	1.5	17.3	1.6	17.5	1.0	18.1	1.8	21.6	2.3	22.1	2.1	21.7	1.5	22.1	1.4	5
6	18.8	1.4	18.0	1.6	18.0	1.2	19.3	2.0	22.3	2.8	22.9	2.3	22.0	1.2	22.0	1.4	6
7	22.4	1.7	22.0	2.8	23.0	4.0	23.9	3.9	24.6	4.3	24.6	3.5	24.2	2.2	24.2	2.5	7
8	24.7	4.2	25.2	4.7	25.1	6.5	25.6	5.1	25.9	5.2	26.2	4.5	25.2	3.7	25.9	3.8	8
9	25.7	4.7	26.3	6.3	25.1	6.6	26.7	5.8	26.3	5.5	26.1	4.1	26.4	4.4	26.9	4.6	9
10	27.2	6.3	27.2	7.2	26.5	7.6	27.5	6.3	27.4	6.4	27.2	5.3	26.4	4.6	27.0	4.9	10
11	27.1	4.8	26.1	4.9	26.1	7.1	28.2	6.2	27.8	6.5	27.3	5.3	26.6	4.1	27.9	5.4	11
Noon	27.7	5.1	25.7	4.4	26.8	7.7	28.1	6.1	28.1	6.3	27.2	5.1	25.3	2.6	28.0	5.6	Noon
13	27.8	5.3	25.3	3.7	26.1	6.9	28.7	6.3	27.7	5.9	26.5	4.2	26.0	3.8	28.2	5.4	13
14	28.7	5.5	25.0	3.7	26.6	7.2	29.0	6.7	27.3	5.3	27.4	5.4	24.1	1.9	28.0	5.5	14
15	27.7	5.0	26.1	5.9	26.5	7.0	28.5	5.8	27.1	5.0	27.5	6.2	26.2	3.9	27.1	4.8	15
16	27.9	5.5	25.7	5.0	26.2	7.1	26.7	4.7	27.0	4.7	26.6	4.8	26.0	3.9	26.1	4.2	16
17	27.7	5.4	25.1	4.4	25.3	6.6	27.1	4.4	26.1	4.3	25.7	3.8	25.6	3.6	26.0	4.2	17
18	25.2	5.0	24.6	4.5	23.6	5.6	25.0	3.2	25.0	3.4	23.9	1.9	24.4	2.7	24.7	3.7	18
19	23.3	3.5	23.9	4.3	22.3	4.5	24.0	2.6	24.3	2.6	23.4	2.2	23.8	2.5	23.7	3.0	19
20	22.3	3.0	23.4	3.8	21.7	3.7	23.6	2.5	24.0	2.4	22.9	1.8	23.6	2.0	23.0	2.7	20
21	21.6	2.7	23.0	3.9	21.1	3.3	22.8	1.8	23.9	2.8	22.4	1.5	23.0	1.8	22.5	2.5	21
22	20.5	2.2	22.0	2.9	20.3	2.7	22.1	1.2	23.7	2.6	22.9	1.7	23.4	1.6	21.7	1.9	22
23	19.5	1.6	20.2	2.6	19.9	2.6	22.0	1.1	23.7	2.7	22.7	1.7	23.1	1.8	21.4	1.8	23

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

NOVEMBER, 1940

Day / Hour	17 Air	17 Excess of air over Evap.	18 Air	18 Excess of air over Evap.	19 Air	19 Excess of air over Evap.	20 Air	20 Excess of air over Evap.	21 Air	21 Excess of air over Evap.	22 Air	22 Excess of air over Evap.	23 Air	23 Excess of air over Evap.	24 Air	24 Excess of air over Evap.	Day / Hour
Midnight	21.1	1.7	21.6	1.4	21.0	1.5	22.1	1.8	22.0	1.3	22.1	2.1	21.6	1.5	22.5	1.5	Midnight
1	20.8	1.7	21.3	1.2	20.7	1.5	21.9	1.8	21.5	1.3	21.9	2.1	22.0	1.1	22.5	1.6	1
2	20.2	1.5	21.2	1.2	20.5	1.5	21.8	1.8	21.2	1.1	21.3	1.8	22.0	1.1	22.5	1.6	2
3	20.1	1.7	21.0	1.2	20.4	1.5	21.3	1.7	21.2	1.2	22.1	2.3	22.0	1.2	21.6	1.6	3
4	19.9	1.6	20.9	1.2	20.3	1.5	21.7	1.9	21.8	1.8	22.0	1.9	22.0	1.2	21.6	1.6	4
5	19.8	1.6	21.1	1.3	20.4	1.5	21.0	1.8	22.2	2.2	21.5	1.7	22.1	1.5	22.8	2.0	5
6	20.3	1.9	21.4	1.5	21.9	2.1	21.9	1.9	22.8	2.5	22.0	1.9	22.1	1.5	22.8	2.0	6
7	24.3	3.3	24.0	2.7	24.2	3.6	24.4	3.2	24.2	3.6	24.1	3.3	24.3	2.7	25.4	3.9	7
8	25.5	4.6	25.7	4.0	26.0	4.9	26.2	5.0	24.4	3.8	25.9	4.9	24.3	2.7	25.4	3.9	8
9	26.9	5.9	26.9	5.0	26.8	5.8	27.7	5.9	26.2	5.7	26.1	4.6	27.4	6.2	28.0	6.4	9
10	27.3	6.6	27.5	5.5	27.4	6.3	28.2	7.2	27.3	6.5	27.0	5.8	27.4	6.2	28.0	6.4	10
11	28.3	6.9	27.7	5.7	28.2	6.8	28.6	7.6	27.9	6.9	27.1	6.2	27.0	5.0	28.7	6.8	11
Noon	28.3	6.9	27.9	5.9	28.5	6.8	28.3	6.4	28.1	7.1	27.7	6.0	27.0	5.0	28.7	6.8	Noon
13	28.8	6.8	28.0	6.0	28.6	6.9	28.1	6.5	28.0	6.2	28.6	7.5	27.4	6.6	28.2	6.1	13
14	28.2	6.8	26.2	4.8	28.4	6.7	26.8	5.4	27.7	6.6	28.3	6.8	27.4	6.6	28.2	6.1	14
15	28.1	6.9	24.9	3.9	28.1	6.4	27.0	5.8	27.7	6.1	27.7	5.9	27.1	6.0	27.0	5.4	15
16	27.2	6.2	25.3	4.0	27.4	6.4	24.6	3.3	26.2	5.2	26.9	5.3	27.1	6.0	27.0	5.4	16
17	26.2	5.5	25.0	4.0	26.2	5.9	25.6	4.6	26.1	5.1	25.9	4.5	23.3	2.7	25.0	4.2	17
18	24.7	4.0	24.4	3.1	24.8	4.7	23.2	2.2	24.9	4.0	25.1	4.6	23.3	2.7	25.0	4.2	18
19	23.6	3.2	24.1	3.8	23.6	3.5	23.2	2.0	23.8	3.2	24.3	3.3	23.0	2.0	23.7	2.9	19
20	23.0	2.6	23.3	3.3	22.6	2.6	22.1	1.2	23.3	3.0	23.0	2.0	23.0	2.0	23.7	2.9	20
21	22.4	2.1	23.0	3.1	22.5	2.4	22.4	1.5	23.1	2.6	22.8	2.3	23.0	2.1	23.8	2.8	21
22	22.0	1.8	21.7	1.9	22.7	2.4	22.7	1.5	22.7	2.5	22.9	2.6	23.0	2.1	23.8	2.8	22
23	21.7	1.5	21.2	1.6	22.1	1.5	22.3	1.3	22.4	2.4	22.8	2.1	22.8	1.6	23.4	2.4	23

Day / Hour	25 Air	25 Excess of air over Evap.	26 Air	26 Excess of air over Evap.	27 Air	27 Excess of air over Evap.	28 Air	28 Excess of air over Evap.	29 Air	29 Excess of air over Evap.	30 Air	30 Excess of air over Evap.	Mean Air	Mean Excess of air over Evap.	Day / Hour
Midnight	23.0	2.0	23.1	2.4	23.5	2.3	24.0	2.9	23.5	3.4	23.1	3.0	21.8	1.9	Midnight
1	22.9	1.9	23.1	2.5	23.6	2.0	23.7	2.7	23.7	3.6	23.1	3.3	21.6	1.9	1
2	22.7	1.7	22.8	2.3	24.0	2.1	24.1	2.9	23.4	3.2	22.9	3.0	21.4	1.7	2
3	22.4	1.5	22.6	2.4	23.8	1.9	23.9	2.8	23.2	3.2	22.9	2.9	21.3	1.7	3
4	22.6	1.7	22.0	2.0	23.7	1.8	24.0	2.6	22.9	3.1	22.5	2.5	21.2	1.6	4
5	22.2	1.5	22.5	2.2	23.3	1.5	23.0	1.9	22.2	2.8	22.4	2.4	21.0	1.6	5
6	22.8	1.8	23.1	2.3	23.9	1.9	22.3	1.6	22.8	2.9	22.9	2.9	21.4	1.7	6
7	25.0	3.0	25.1	3.8	24.5	2.5	24.0	2.2	23.7	3.5	24.6	4.0	23.8	2.9	7
8	25.3	3.5	25.7	4.3	25.0	2.9	26.0	3.7	25.0	4.1	25.5	4.7	25.2	4.0	8
9	26.9	4.9	26.8	4.8	26.1	4.1	26.4	3.9	26.8	5.6	27.4	6.2	26.3	5.0	9
10	27.6	5.1	28.0	6.3	26.9	4.8	27.1	5.1	27.7	6.2	27.7	6.4	27.1	5.7	10
11	28.1	5.7	28.1	6.1	28.0	5.2	27.9	5.6	27.4	6.1	28.3	6.5	27.4	5.7	11
Noon	28.0	5.4	28.0	5.9	27.2	5.0	28.1	6.0	28.2	6.6	28.6	7.4	27.5	5.7	Noon
13	27.0	4.0	28.1	5.9	28.0	5.8	28.1	6.3	27.3	6.1	28.7	7.3	27.6	5.8	13
14	25.3	2.8	27.4	5.3	27.6	5.4	28.1	6.2	27.0	5.9	28.6	7.4	27.2	5.5	14
15	26.9	4.9	27.3	5.1	28.0	5.9	27.9	6.9	25.5	4.2	28.2	6.9	26.9	5.3	15
16	26.8	5.0	27.1	4.9	27.1	5.0	26.0	5.6	26.0	5.0	27.1	6.0	26.3	4.9	16
17	26.0	4.0	26.1	4.5	26.0	4.3	25.2	4.3	25.3	4.3	26.7	5.7	25.6	4.4	17
18	25.0	3.1	25.2	4.0	25.2	4.0	24.9	3.9	25.1	4.0	25.3	4.5	24.4	3.6	18
19	24.0	3.6	24.5	3.5	24.6	3.3	24.3	3.7	24.5	3.4	24.2	3.5	23.6	3.1	19
20	23.4	3.2	24.3	3.0	24.2	3.0	24.0	3.6	24.0	3.3	23.7	2.9	23.0	2.6	20
21	23.1	3.1	24.2	2.8	23.3	2.1	23.8	2.9	23.8	3.5	23.0	2.6	22.6	2.3	21
22	23.1	3.1	24.2	2.9	23.8	2.2	24.0	3.0	23.5	2.9	23.0	2.3	22.4	2.1	22
23	22.9	2.1	24.0	2.6	24.0	2.7	23.9	3.1	23.2	3.0	22.5	2.2	22.0	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 NOVEMBER, 1940

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, 1940.

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Mid-night	11 3.3	08 4.5	09 4.4	09 1.8	08 1.8	08 2.1	10 1.8	13 1.1	11 1.5	11 2.1	10 1.8	10 1.8	10 2.1	09 4.6	08 4.4	07 3.[illegible]
1	11 3.2	09 4.1	09 4.1	09 1.6	10 2.5	08 2.1	10 1.4	13 1.2	11 1.7	11 1.5	10 2.3	10 1.9	10 3.0	09 3.6	08 3.1	07 3.[illegible]
2	11 4.4	09 4.4	10 4.4	10 2.6	10 2.8	10 1.6	10 1.8	13 1.3	11 1.8	11 1.1	10 2.1	10 1.8	11 3.2	09 3.9	08 1.9	07 2.[illegible]
3	10 3.8	08 4.8	08 4.1	07 2.0	10 3.4	12 1.2	10 1.6	13 1.3	11 2.3	11 1.2	10 2.0	10 1.8	11 3.2	09 3.9	08 1.9	07 2.[illegible]
4	08 5.1	08 4.4	09 4.3	08 2.2	10 2.7	12 1.0	10 2.8	13 1.0	11 2.6	11 1.6	10 1.7	10 1.8	10 3.5	08 3.7	08 1.5	07 2.[illegible]
5	09 4.5	08 3.5	09 4.6	07 1.8	09 2.5	12 1.1	10 1.4	13 1.1	10 1.6	11 2.3	10 1.8	10 1.6	09 3.6	07 3.2	08 2.1	07 2.[illegible]
6	09 4.3	09 4.1	09 4.5	07 1.6	09 2.1	12 1.9	10 2.3	13 2.0	10 0.9	11 1.9	10 2.1	10 1.8	09 4.2	08 3.2	08 2.6	07 3.[illegible]
7	08 5.0	09 5.0	08 5.3	08 3.0	09 3.0	12 2.3	10 1.7	13 1.9	10 1.7	10 1.2	10 2.8	10 2.8	09 5.3	08 4.4	07 3.4	07 3.[illegible]
8	03 5.8	08 6.8	08 6.2	07 3.8	08 4.0	12 2.0	11 2.1	09 2.8	10 2.8	13 1.1	09 2.8	09 3.7	11 7.1	08 6.1	06 4.6	08 4.[illegible]
9	07 6.0	07 7.7	09 6.0	09 4.2	08 4.4	10 2.1	09 2.5	10 4.4	09 2.9	11 1.6	08 4.2	08 3.8	09 6.7	07 6.3	06 4.4	06 5.[illegible]
10	08 6.2	09 7.9	08 5.9	09 4.8	07 4.7	09 2.7	08 3.6	09 4.1	10 3.5	10 2.0	06 4.0	06 1.9	07 6.0	04 6.4	07 4.8	05 4.[illegible]
11	07 6.4	04 6.7	09 5.5	08 4.8	08 4.9	05 2.6	09 4.3	10 4.5d	19 3.2	r27 2.9	07 4.4	04 3.6	08 5.6	08 6.1	07 4.6	04 4.[illegible]
Noon	07 6.6	06 6.2	07 5.7	07 5.0	04 4.9	31 2.4d	18 3.8	11 5.0	22 4.2	26 3.0	04 4.0	06 3.0	08 5.1	06 5.6	08 5.8	05 4.[illegible]
13	07 6.2	07 5.6	08 5.3	06 4.8	07 4.4	02 3.6	19 3.4	11 4.4	22 3.5	25 1.4	06 4.3	03 3.2	09 5.6	07 6.1	05 5.4	06 5.[illegible]
14	08 5.7	07 6.4	08 5.0	06 4.6	05 4.0	40 0.5	27 2.0	42 0.9	48 2.6	37 1.6	20 0.3	05 3.7	06 5.0	06 5.6	05 5.0	06 5.[illegible]
15	08 5.7	07 5.9	09 5.4	06 4.1	02 4.7d	19 3.0	20 4.1	10 3.3	26 3.5	r07 2.7	10 4.1	02 2.6	07 4.9	09 6.0	05 5.3	05 5.[illegible]
16	10 5.3	09 6.1	09 5.0	06 4.0	04 3.7	18 3.1	20 3.4	13 1.8	26 3.4	05 3.4	09 4.1	06 1.8	08 5.3	08 5.1	07 4.6	06 4.[illegible]
17	08 5.4	08 6.3	08 4.5	09 4.0	08 3.4	18 3.1	18 2.1	09 3.7	24 2.3	07 3.3	08 4.4	d23 1.3	08 5.4	08 4.6	07 5.0	06 4.[illegible]
18	08 5.5	08 5.8	07 3.6	08 3.7	08 3.6	17 1.6	12 2.9	10 3.4r	13 4.0	07 2.4	08 4.0	r11 2.7	07 5.6	08 4.8	07 4.4	08 4.[illegible]
19	09 4.7	08 4.9	08 2.3	09 2.3	08 3.3	14 2.0	10 2.0	11 2.3	12 3.4	07 2.1	09 2.4	11 2.8	09 4.9	06 2.8	08 4.0	08 3.[illegible]
20	10 4.6	09 4.7	09 1.8	09 2.1	08 3.3	14 1.6	13 1.5	11 1.5	12 2.7	08 1.2	09 2.4	09 2.4	08 4.3	06 2.3	08 3.2	09 2.[illegible]
21	08 4.9	09 4.1	09 1.8	09 1.8	08 3.0	15 1.3	13 2.1	11 1.3	12 3.5	10 1.9	09 3.0	10 2.4	08 4.3	08 3.7	06 3.8	10 1.[illegible]
22	08 4.8	08 4.3	09 1.9	09 1.8	08 2.0	15 1.5	13 1.3	11 1.5	12 2.2	10 0.9	08 2.4	10 1.7	08 4.4	09 2.8	07 3.7	09 2.[illegible]
23	08 4.5	09 4.9	09 1.4	09 1.9	08 2.0	10 1.7	13 1.1	11 1.8	10 2.1	10 2.2	08 2.0	10 2.0	08 4.2	07 3.7	07 3.6	09 1.[illegible]

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Mean Velocity
Mid-night	09 2.1	10 1.7	07 3.0	09 3.0	09 2.2	09 1.9	11 4.2	08 3.5	09 3.2	08 4.5	09 3.1	08 4.4	07 3.8	10 3.0	2.9
1	09 2.7	10 1.3	07 3.1	10 3.0	09 2.0	09 1.8	10 2.7	07 3.5	09 3.4	08 3.8	09 3.6	08 3.5	07 4.4	10 3.0	2.7
2	10 2.1	08 1.3	07 2.2	09 4.2	09 2.3	09 1.8	10 1.9	07 3.2	09 3.1	09 3.1	08 4.6	06 4.1	08 4.5	10 2.4	2.8
3	10 1.9	08 1.7	07 2.4	09 3.1	09 1.8	10 2.8	07 3.6	09 4.0	09 3.3	09 3.1	08 3.7	08 3.7	07 3.9	10 2.4	2.7
4	10 1.8	08 1.2	07 3.2	09 3.4	09 2.1	10 2.7	09 3.5	09 3.2	09 4.5	09 2.0	08 4.1	06 4.4	07 3.3	10 2.1	2.8
5	10 2.0	08 1.1	07 2.6	09 3.1	08 3.6	10 2.6	08 4.6	10 3.0	10 3.9	09 3.5	07 4.1	08 4.0	07 3.0	10 1.5	2.7
6	10 1.8	08 2.0	07 3.2	09 2.1	08 4.2	10 2.4	08 4.8	07 3.8	09 3.4	09 3.5	08 3.1	08 4.5	07 2.2	10 2.7	2.9
7	10 2.6	09 3.3	09 4.4	09 3.9	09 4.4	08 3.6	08 4.0	07 4.8	09 3.7	10 4.8	08 5.0	08 4.4	08 3.4	08 3.5	3.6
8	09 3.9	10 3.7	10 4.5	08 4.4	08 6.0	06 4.4	09 5.8	07 5.0	09 3.4	08 6.4	06 4.6	08 5.5	07 4.1	06 4.1	4.4
9	06 3.3	09 4.4	08 4.4	08 5.3	07 6.9	08 4.9	08 5.8	07 5.3	07 4.2	08 6.9	07 5.4	08 6.2	06 4.3	07 4.4	4.8
10	09 3.9	08 5.3	05 4.3	08 5.9	06 7.1	07 5.5	09 4.7	05 5.9	05 4.1	10 7.0	08 5.7	08 6.6	06 4.8	06 4.4	4.9
11	09 4.0	07 4.7	04 4.5	09 5.3	08 5.6	07 5.1	06 5.1	07 5.1	08 4.1	08 7.4	09 5.9	08 6.2	07 5.1	05 4.4	4.9
Noon	06 4.8	11 5.3	08 4.8	10 5.6	10 6.0	03 5.7	06 5.6	05 6.0	07 4.5	06 6.7	08 5.7	05 6.0	08 5.0	08 4.9	5.1
13	09 5.8	06 5.2	09 4.8	08 5.9	08 6.1	04 5.6	06 4.7	05 5.2	08 5.0	08 6.9	08 6.4	05 5.6	07 4.8	06 4.8	4.9
14	06 4.9	06 5.5	06 4.9	10 5.1	08 5.6	08 5.0	07 4.2	05 4.7	10 4.2	06 6.7	06 5.5	03 5.8	07 4.6	06 4.9	4.8
15	07 5.1	10 4.5	07 4.8	10 4.9	07 6.0	08 5.4	06 4.6	08 4.4	05 5.7	08 6.4	08 6.4	08 5.7	09 4.4	08 4.8	4.8
16	09 5.5	06 4.2	08 4.9	09 3.9	08 5.6	08 5.8	09 4.3	08 4.9	08 5.6	06 6.5	08 5.9	08 5.8	08 4.9	05 4.0	4.6
17	08 5.8	05 3.8	09 5.0	09 3.4	09 5.6	08 4.6	06 4.4	08 5.4	07 5.4	08 5.9	07 5.9	08 4.9	08 5.0	05 3.7	4.4
18	09 4.3	05 3.4	06 4.5	09 2.4	09 5.1	10 4.6	07 3.0	09 5.1	08 5.2	08 6.0	08 5.3	08 5.3	09 5.3	08 3.5	4.2
19	10 3.4	06 2.9	09 3.1	10 2.8	09 4.1	10 3.5	10 2.8	09 3.8	08 4.2	08 5.1	08 4.4	08 4.7	07 4.0	08 2.5	3.4
20	10 2.3	06 1.8	09 2.6	11 2.4	09 4.0	08 3.8	10 2.7	09 3.0	09 4.7	08 4.2	08 4.9	08 3.5	09 4.6	08 1.5	2.9
21	10 2.2	07 3.1	09 2.7	10 2.8	09 3.3	09 3.5	09 2.9	10 2.7	09 4.2	08 4.1	08 4.3	07 4.0	08 3.6	08 2.0	3.0
22	10 2.5	07 2.9	10 3.2	10 3.4	09 2.4	10 3.6	09 3.2	09 3.4	09 4.5	08 5.1	08 3.4	08 4.2	09 3.3	09 1.8	2.9
23	09 2.0	07 1.8	09 3.5	09 2.7	09 2.3	10 3.5	07 3.7	09 4.0	09 3.7	09 3.1	07 3.4	08 4.4	10 3.1	09 2.9	2.8

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS) NOVEMBER, 1940.

Force(0 - 12)				Direction															
Hour	8 or above	4 to 7	0 to 3	N	NE	NNE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
3	-	-	30	-	-	-	-	17	8	5	-	-	-	-	-	-	-	-	-
9	1	7	22	-	-	-	4	23	2	1	-	-	-	-	-	-	-	-	-
15	-	8	22	-	2	3	2	16	4	-	-	-	-	1	1	-	1	-	-
21	-	-	30	-	-	-	1	19	6	3	-	1	-	-	-	-	-	-	-
Totals				-	2	3	7	75	20	9	-	1	-	1	1	-	1	-	-

TABLE XIV a - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR NOVEMBER, 1940

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	..	...	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	..	..	..	..	..	..	..
3	..	..	...	..	..	5.7	..	..	..	..	..	..	..	..	..	..	..	..	..	...	..	..	2.1	..	..	..	..	..	..	..
4	0.2	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	..	..	..	..	..	..	0.1	0.5	..	..
5	1.6	..	..	..	..	..	..	..	..	..	..	..	....		..	..	..	..	..	...	..	..	..	..	..	..	0.4	..	..	..
6	1.2	..	...	..	..	..	..	..	..	..	..	..	.....		..	..	..	..	..	...	..	..	..	..	..	..	..	0.5	..	..
7	.2	..	..	..	..	0.7	...	..	..	..	...	..	....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..
10	..	..	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	...	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Noon	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	...	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	4.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	...	..
17	..	..	..	..	0.2	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	..	..	..	..	..	..	..
18	..	..	..	..	..	0.3	..	..	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	..
19	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	0.1	..	..	..	...	..	..	..	0.1	..	..	..	..	..	1.2	..	0.6	0.1	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	1.6	..	..	..	..	..	..	..
24	0.1	..	...	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.5	..	..	..	..	...	..	..	..

TABLE XIVb - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR NOVEMBER, 1940

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	0.1	0.1	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..
2	0.3	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	1.3	0.8	..	..	..	..	..	..
3	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	0.2	..	0.9	..	..	..	0.1	..	..
4	0.3	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	....	..	..	..	0.1	..	..
5	1.2	0.2	..	..	0.2	2.2	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	2.6	0.3	..	..	0.1	6.6	0.1	..	..	..	..	..	..	..	0.1	..	..	1.0	..	..	0.3	..	..	..	..	..	..	..	..	..
7	1.7	0.2	..	..	..	0.7	0.1	..	..	..	..	..	..	..	0.1	..	..	2.1	..	..	..	..	..	0.1	..	..	..	0.1	..	..
8	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..
9	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	0.3	..	..	..
10	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	0.1	..	..	..	..	..	..	..	0.1	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..
15	..	..	..	..	..	2.1	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	0.5	..	..	..	..	..
16	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	1.5	..	..	..	..	2.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	0.5	..	..	..	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	0.2	..	..	..	..	..	..	..	..	..	..	..	..	0.1	....	..	0.2	..	..	..	..	..	..	..	..	....	..	..	..	..
20	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	0.1	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	0.4	..	..	..
24	..	..	..	..	..	..	..	..	...	..	..	..	..	0.1	..	..	0.8	...	..	..	..	0.1	..	...	..	..	..	...	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR NOVEMBER, 1 9 4 0

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall Inches	Total Fall Millimetres	Normal in Inches	Number of days
1	Mare Seche	20	.20	5.1	1.62	2
	Saint Antoine	50	.39	9. 9	1.42	1
	Bel Mont	50	0.51	12.7	1.83	2
	Poudre d'Or	20	0.43	10.9	1.73	2
	Mon Loisir S.E.	300			2.16	
	Forbach	300	0.48	12.2	1.80	5
	Couroupa	...	0.81	20.6	2.17	7
	Labourdonnais	290	0.55	.14.0	2.00	4
	Mapou Water Office	...	0.33	8.4	...	2
	Beau Sejour	300	0.92	23.4	2.63	7
	Mont Piton	650	1.02	25.9	2.42	7
	Mon Choix	700	.74	18.8	2.33	5
	Antoinette	640	1.76	44.7	2.67	10
	Mon Songe	620	1.09	27.7	3.04	9
	Botanical Gardens	325	1.42	36.0	2.19	20
	The Observatory	179	1.14	28.9	1.76	11
	Solitude	175	0.85	21.6	1.23	4
	Saint Andre (cour)	90			1.66	
	La Nicoliere	...	2.33	59.2	5.15	14
	California	...	2.17	55.1	...	10
	Australia	...	2.28	57.9	...	10
2 & 3	Union Regnard(Flacq S.E.)	600	1.02	25.9	2.78	6
	Constance d'Arifat(L.S.)	100	0.96	29.4	2.64	10
	Rich Fund	600	2.73	69.3	4.01	9
	La Toffrette	...	0.20	5.1	...	1
	Belle Vue (Allenby)	...	0.73	18.5	4.11	5
4	Sans Souci	900	2.96	75.2	6.12	13
	Beau Champ (G.R.S.E.)	20	0.90	22.9	2.47	10
	Olivia	400	1.71	43.4	4.22	11
	Trois Ilots	...	1.31	33.3	...	8
	Belle Rive	400	2.34	59.4	6.75	17
	Sebastopol	700			...	
	Bonne Veine	400	3.63	92.2	6.35	17
5	Rose Belle	850	2.59	65.8	7.98	20
	New Grove	650	2.78	70.6	6.77	13
	Mon Tresor	...	0.36	9.1	...	
	Mon Desert (Carie)	75	0.89	22.6	2.93	
	Ferney	20	0.90	22.9	3.50	4
	Sauve Terre	...	1.09	27.7	...	
	Tivoli	1300	2.97	75.4	5.90	
	La Flora	1050	2.58	65.5	7.24	
	Riche Bois (Britannia)	650	0.91	23.1	5.93	
6	Britannia Estate	700	1.32	33.5		
	Savannah (Mill)	200	.78	19.8	3.63	7
	St. Aubin	300	1.03	26.2	3.24	9
	St Avold	900	1.74	44.2	5.88	
	Colmar	400	1.46	37.1	4.38	
	Union S.E.	...	1.15	29.2	4.18	6
	Fontenelle	320	1.49	37.8	4.13	6
	Choisy	200	0.40	10.2	2.60	3
	Beau Bois	...	1.58	40.1	...	11
	Bel Air	...	1.08	27.4	4.17	4
	St. Felix	...	1.24	31.5	...	4
7&8&9&10	Bel Ombre	40	1.22	31.0	2.30	5
	Beau Champ(Baie du Cap)	70	0.93	23.6	2.73	7
	Frederica	...	0.76	19.3	3.27	4
	Pierre Fonds	...	0.81	20.6	2.54	6
	St Marie	...	1.05	26.7		7
	Hussonia	...	0.60	15.2	...	4
11	Curepipe Gardens	1840	3.01	76.6	5.43	18
	Mare aux Vacoas	1850	1.88	47.8	6.63	13
	Mare aux Vacoas(Arn aud)	1830	2.65	67.3	6.32	21
	La Marie Filter Beds	1700	1.47	37.3	4.36	11
	Sophie	...	2.01	51.2	...	12
	Reunion	1420	1.63	41.4	3.38	7
	Aerological Station	1393		41.8	4.80	17
	Phoenix	...	1.39	35.3		
	Quatre Bornes	...	1.17	29.7	...	4
12	Quatre Bornes(Board)	1090	1.52	38.6	2.07	2
	Le Reduit (D.of Agric)	1000	1.44	36.5	2.20	20
	Alma	1460	2.69	68.3	5.12	11
	Bagatelle	1250	2.16	54.9	2.75	
	Highlands	1300	1.86	47.2	3.12	
	Trianon	950	0.84	21.3	2.35	4
	Val Ory	1100	.94	23.9	2.30	10
	Bassin	...	0.85	21.6	2.90	3
	Hermitage	1450	2.58	65.5	5.94	
	Ebene	...	1.15	29.2	...	
	Bega	...	1.03	26.2	...	
	Mon Reve	...	1.24	31.5	...	
	Mon Pevril	...	1.01	25.7	...	
	Minissy	1150	1.36	34.5	2.75	
	Plaisance	...	0.84	21.3	...	
	La Ferme	350	1.87	47.5	1.65	4
13	Line Barracks	....	1.30	33.0	...	12

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION, VACOAS 424.5 METRES ABOVE SEA LEVEL, DURING THE MONTH OF NOVEMBER, 1940

Type		St. & Fs.		Cumulus Cu. St. & C.		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus			St. & Fs.		Cumulus Cu.St. & C.		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus	
Day	Time	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Time	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height	Dir.	Vel/Height
1	..	..	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	15	..	..	75	5.1	..	..	..	..	..	..	..	..
5	9	..	..	60	7.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	9¼	..	..	140	7.6	..	..	..	..	..	..	..	..	15	..	..	237	4.0	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	15	..	..	220	3.2	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	15	..	..	113	..	..	..	..	..	..	..	..	..
12	9	..	..	330	...	..	..	..	..	...	..	...	..	15	..	..	67	2.6	..	..	..	..	..	..	..	..
13	9	..	..	90	15.1	..	..	..	..	..	..	..	..	15	..	...	75	2.7	..	..	..	..	..	..	..	..
14	9½	..	..	85	14.2	..	..	..	..	..	..	..	..	15	..	...	68	5.9	..	..	..	..	..	..	..	..
15	9½	..	..	75	10.4	..	..	..	..	..	..	..	..	..	..	...	...	...	..	..	..	..	..	..	..	..
16	9¼	..	..	85	9.6	..	..	..	..	..	..	..	..	15	..	...	98	7.0	..	..	..	..	..	..	..	..
17	9	..	..	69	3.8	...	..	..	..	..	..	..	..	..	..	....	...	...	..	..	..	..	..	..	..	..
18	9½	..	..	115	9.7	...	..	..	..	..	..	..	..	..	..	....	...	...	..	...	..	..	..	..	..	..
19	9	..	..	100	6.5	...	..	..	..	..	..	..	..	..	..	....	...	...	..	..	..	..	..	..	..	..
20	..	..	..	...	..	...	..	..	..	..	..	..	..	..	..	..	..	...	..	..	...	..	..	..	..	..
21	..	..	..	...	..	...	..	..	..	..	..	..	..	15	..	..	95	6.2	..	..	..	..	..	..	..	..
22	9½	..	..	105	7.0	...	..	..	..	..	..	..	..	15	..	...	88	5.1	..	..	..	..	..	..	..	..
23	..	..	..	...	..	...	..	..	..	..	..	..	..	15	..	..	85	2.9	..	..	..	..	..	..	..	..
24	..	..	..	...	..	...	..	..	..	..	..	..	..	..	..	..	...	...	..	..	..	..	..	..	..	..
25	..	..	..	...	..	...	..	..	..	..	..	..	...	...	..	..	..	...	..	..	..	..	..	..	..	..
26	..	..	..	...	..	...	..	..	..	..	..	..	..	15	..	..	65	...	..	..	...	..	..	..	..	..
27	..	..	..	...	..	...	..	..	..	..	..	..	...	15	..	..	95	6.0	..	..	..	..	..	..	..	..
28	..	..	..	...	..	...	..	..	..	..	..	...	..	15	..	..	96	5.2	..	..	..	..	..	..	..	..
29	9½	..	..	95	12.3	...	..	..	..	..	..	..	...	15	..	..	96	5.2	..	..	..	..	..	..	..	..
30	..	...	..	...	..	...	..	..	..	..	..	..	..	15	..	..	95	5.6	..	..	...	..	..	..	...	..

The direction is that from which the cloud travels counting North (0°) East (90°) South (180°). The velocity-height ratio is given in milliradians per sec

MAURITIUS

ROYAL ALFRED OBSERVATORY

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

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

DECEMBER, 1940

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 DECEMBER, 1940

Month and Day	Mean Declination (West)	Mean Horizontal Force (G.C.S.) (Units)	Mean Vertical Force (G.C.S.) (Units)	Declination Unit	Horizontal Force Unit	Vertical Force Unit	H.R.h. 10,000	Z.R.Z. 10,000
December								
1	14°3.1	.22424	.29902	11°0	26	29	58	87
2	.3.3	411	904	13.0	52	28	116	84
3	3.2	416	907	8.7	41	22	92	66
4	3.5	422	901	12.7	42	37	94	110
5	3.5	423	902	7.2	27	19	60	57
6	3.7	431	901	6.8	31	21	69	63
7	3.5	439	901	8.2	36	13	81	39
8	2.7	452	902	6.8	48	16	107	48
9	2.5	446	896	12.3	72	34	161	101
10	3.3	443	906	5.0	93	11	208	33
11	3.0	430	902	6.0	34	22	76	66
12	3.7	427	905	9.0	38	19	85	57
13	3.3	425	904	9.3	20	18	45	54
14	2.7	425	903	11.5	48	30	108	90
15	4.0	419	901	12.0	19	32	43	96
16	3.8	430	902	9.2	37	23	83	69
17	3.8	437	907	8.0	59	15	132	45
18	3.3	433	903	13.0	24	20	54	60
19	4.1	440	902	10.5	16	19	36	57
20	3.5	425	906	10.5	108	47	242	140
21	3.4	403	911	12.3	41	14	92	42
22	3.8	404	911	7.5	46	10	103	30
23	4.3	413	911	5.0	60	13	134	39
24	4.0	413	908	6.5	33	15	74	45
25	4.6	412	910	4.0	54	6	121	18
26	4.1	413	904	7.0	48	18	107	54
27	3.8	415	906	8.5	55	18	123	54
28	4.1	420	907	9.3	14	12	31	36
29	5.2	401	908	7.5	48	27	107	81
30	4.5	402	908	9.5	65	14	146	42
31	5.4	418	908	11.0	93	14	208	42
Mean	14°3.70	.22423	.29905	8.99	46.1	20.5	103.1	61.4

T = .37405: Mean Dip = 53°9.35': X = .21751: Y = - .05448 : Z = .299 05

Description of the Principal Magnetic Disturbances

Declination. 2d. Slightly disturbed in parts

20d. & 21d. Disturbed in parts: Sharp peak wave(positive) (7') between 20h.and 22h.
30d. & 31d. Very slightly disturbed in parts.

Horizontal Force. 1d. & 2d. Slightly disturbed; small wave-form features.

3d. Slightly disturbed in parts. Large wave "bay disturbance" (25) between 2h and 4h.

4d. Feeble waves at beginning and end.
9d. Second half and 10d. Slightly disturbed, large negative wave of 50 between 20h.and 23h.
13d. Slightly disturbed ; double wave of small amplitude between 12h. and 15h.
14d. Slightly disturbed.
20d. Second half: Disturbed: Large decrease in force with sharp double wave (85) between 20h. and 22h.absolute range 153 . This disturbance gradually subsides on 21d.

22d. Large positive wave (40)from 0h.to 1h. minor fluctuations during last hours.

23d. Slightly disturbed during second half. Positive wave (33) between 23d. 23h.and 24d.1h.
27d. Single large negative wave (37) between 16h.and 18h.
29d. Slightly disturbed. Positive wave between 22h & 23h.
30d. & 31d. Moderately disturbed. Irregular features mainly small rapid pulsations on 31d., with sudden commencement at 2h.30m. Large but gradual decrease in force towards the end.

Vertical Force 1d.& 2d. Very slightly disturbed.

20d.Second half: Disturbed: Mainly irregular features with small pulsations except for one sharp positive wave (25) between 20h30m. and 2h.30m.

21d. Moderately disturbed. previous day disturbed gradually subsides.
30d. Slightly disturbed.
31d. Slightly disturbed. small oscillations on the trace.

TABLE II - RESULTS OF ABSOLUTE DETERMINATIONS OF THE MAGNETIC ELEMENTS DURING THE MONTH OF DECEMBER, 1940

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.	o'	d.h.m.		d.h.m.	o'	
6.14.23	14°00' 2	4.9.25	.22438	6.14.46	53°07' 81	.29900
13.14.50	14.01 .2	7.9.35	.22452	13.15.06	53.07.81	.29897
20.14.57	13.57. 2	12.9.39	.22440	20.15.12	53.09.50	.29904
28.10.42	14.03. 6	18.9.33	.22444	27.13.41	53.08.56	.29902

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

DECEMBER, 1940

Hour \ Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Day \ Hour
Midnight	63.5	63.3	64.0	64.3	63.7	64.0	64.0	63.7	64.0	63.7	64.0	63.7	64.3	63.7	64.7	64.5	Midnight
1	63.5	63.7	64.0	64.0	63.5	64.0	64.5	64.0	64.0	64.0	63.5	63.5	63.0	63.5	64.3	64.0	1
2	63.5	63.5	64.0	64.5	63.5	63.5	64.5	64.0	64.2	64.0	63.5	64.0	63.0	63.5	64.0	63.0	2
3	64.0	64.0	62.7	64.0	63.7	64.0	64.5	64.0	64.5	64.0	63.0	64.0	63.0	63.5	64.0	62.5	3
4	63.5	64.2	63.5	64.0	64.0	63.7	64.7	64.2	64.7	64.5	64.3	63.5	63.0	64.0	64.0	63.5	4
5	64.5	63.5	64.0	64.5	64.0	64.5	64.7	64.3	64.7	65.0	64.2	64.5	62.0	64.0	65.3	64.7	5
6	66.0	66.3	63.5	65.0	65.0	65.0	65.0	64.5	65.5	65.0	65.7	64.7	63.5	66.0	67.7	62.3	6
7	66.3	66.7	63.0	65.3	65.5	65.0	65.5	64.5	66.5	65.5	66.5	66.5	65.7	67.0	69.5	67.5	7
8	67.7	67.5	66.0	66.3	66.3	66.3	66.0	64.0	68.0	65.5	65.5	68.0	68.0	67.0	70.0	69.0	8
9	68.0	69.0	66.3	68.0	66.7	66.5	66.7	64.5	68.6	64.5	63.5	67.0	66.0	65.0	69.0	68.5	9
10	67.0	67.3	66.7	69.7	66.5	66.5	66.0	63.7	67.5	63.5	62.0	65.7	64.0	64.0	68.5	67.0	10
11	64.5	65.5	65.5	68.5	66.0	66.0	65.0	63.7	63.0	63.5	60.5	64.0	63.0	60.0	62.5	64.5	11
Noon	62.4	62.0	64.0	65.5	63.0	64.3	62.3	62.0	60.0	62.7	59.5	60.5	61.3	57.5	59.0	61.5	Noon
13	60.0	59.0	60.7	61.0	60.3	62.3	59.5	59.5	58.0	60.7	59.5	59.0	58.7	55.5	58.0	60.0	13
14	58.5	56.0	59.0	58.0	59.7	60.7	58.5	57.7	57.7	60.5	60.0	59.0	60.0	56.0	58.0	59.3	14
15	57.0	56.0	58.0	57.0	59.5	60.0	59.5	58.0	56.5	60.5	61.0	60.7	62.0	57.0	58.7	60.5	15
16	59.0	58.0	59.0	57.5	60.0	59.7	61.0	59.5	56.3	62.0	62.0	62.3	63.5	60.0	61.0	62.3	16
17	60.5	60.3	60.7	59.5	60.7	60.7	62.3	60.5	57.5	62.5	62.7	62.3	63.5	62.5	63.0	63.7	17
18	62.3	62.5	63.0	61.0	62.3	62.5	63.3	62.0	59.5	62.3	63.5	64.0	63.5	63.5	64.3	65.0	18
19	62.3	64.0	63.7	62.5	63.0	63.5	63.3	62.7	60.5	62.0	63.5	64.3	63.0	62.5	64.7	64.0	19
20	62.3	65.5	63.5	63.0	63.7	63.3	63.3	63.0	61.5	63.0	63.0	64.5	63.5	63.0	63.5	63.5	20
21	62.5	63.7	63.5	63.0	64.5	63.7	63.5	63.3	62.3	64.7	63.5	64.3	64.0	64.7	63.7	63.5	21
22	63.0	64.5	63.7	63.3	65.0	64.0	63.5	63.5	62.7	63.0	64.0	64.0	63.7	65.0	65.5	64.3	22
23	63.5	64.0	64.0	64.0	64.7	64.0	63.7	63.7	63.5	62.3	64.0	64.3	64.0	65.3	64.0	63.7	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day \ Hour
Midnight	63.5	64.0	63.5	63.5	65.0	65.3	64.5	63.8	64.7	64.5	65.5	64.3	64.3	64.5	64.7	64.2	Midnight
1	63.5	63.5	64.0	63.5	62.0	63.5	64.3	65.5	65.0	64.3	65.3	64.5	65.0	65.5	64.5	64.0	1
2	63.5	63.5	64.0	64.5	62.0	64.0	64.2	65.7	65.5	64.0	65.5	65.0	65.3	65.5	65.0	64.1	2
3	64.0	64.0	64.3	64.5	64.0	64.5	64.7	64.0	65.5	64.7	66.0	65.5	66.0	65.0	66.3	64.3	3
4	64.7	65.5	64.7	65.0	65.5	65.0	65.0	65.0	65.5	65.5	66.0	65.7	67.0	65.5	67.5	64.7	4
5	65.5	66.5	65.2	65.3	65.5	65.5	64.5	66.0	66.0	66.0	66.5	66.5	67.0	67.0	67.5	65.1	5
6	66.7	67.5	66.3	66.0	68.0	65.0	65.5	66.5	66.5	67.0	67.3	67.5	68.5	68.5	69.0	66.0	6
7	67.5	69.5	69.5	68.0	68.0	65.0	67.0	67.0	66.5	67.3	67.5	69.0	70.0	69.5	71.0	67.1	7
8	67.5	70.0	70.0	67.5	67.5	66.5	67.0	66.5	66.3	66.5	66.0	68.5	69.7	68.5	71.0	67.4	8
9	67.0	67.0	69.5	66.5	64.0	66.5	66.0	65.5	64.5	65.0	64.0	67.5	67.5	67.0	70.0	66.6	9
10	65.5	64.7	67.5	65.7	63.5	66.0	65.0	65.0	64.0	64.5	63.0	64.5	65.5	66.0	67.0	65.6	10
11	62.0	61.5	64.0	61.0	63.0	65.5	64.5	64.3	63.0	64.0	60.0	62.0	65.5	64.5	65.0	63.7	11
Noon	60.3	59.5	62.0	59.5	61.5	64.0	64.0	63.5	62.5	62.7	59.0	60.3	64.0	63.0	62.0	61.8	Noon
13	59.5	58.0	59.5	58.0	59.5	61.0	63.0	62.0	62.7	62.0	60.5	59.7	63.0	60.0	60.5	60.0	13
14	59.5	57.0	60.5	57.5	58.3	60.0	62.5	60.5	63.5	60.3	61.0	61.0	62.5	60.0	60.0	59.4	14
15	60.0	57.0	61.7	57.5	58.0	59.0	62.7	60.7	63.7	61.5	61.5	62.5	63.0	60.0	61.7	59.8	15
16	61.0	58.0	61.0	59.0	55.7	59.0	62.0	61.0	64.0	61.5	61.0	62.7	63.5	60.3	62.0	60.5	16
17	64.0	61.0	62.0	63.0	60.5	60.7	62.5	62.0	64.0	62.7	62.5	63.3	63.5	62.7	63.0	61.9	17
18	65.5	63.0	63.0	63.5	62.7	62.5	63.0	63.0	64.0	63.5	64.0	63.5	64.0	62.3	64.3	63.1	18
19	64.5	63.7	63.0	63.7	64.5	65.0	64.0	63.0	64.3	63.7	64.0	63.0	64.0	64.0	64.0	63.5	19
20	64.0	63.7	63.0	64.0	65.5	64.5	63.7	63.3	65.0	63.7	64.3	63.0	64.0	64.0	64.7	63.7	20
21	63.7	64.0	62.7	65.0	65.0	64.0	64.3	63.7	64.5	63.5	63.5	63.0	64.3	64.0	66.0	63.9	21
22	64.0	64.0	63.0	66.0	66.0	64.7	64.7	64.3	65.0	64.0	63.5	63.0	64.7	65.0	66.2	64.2	22
23	63.7	63.7	63.3	66.0	65.5	64.7	66.0	64.5	64.7	65.0	64.0	63.5	64.0	65.0	65.5	64.2	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)

.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	425	425	418	417	422	423	435	439	445	429	425	430	431	431	406	420	Midnight
1	420	423	422	427	423	425	438	438	443	430	429	430	423	439	408	436	1
2	425	421	421	428	426	431	435	439	444	435	429	427	428	434	408	434	2
3	425	420	436	421	430	429	432	440	444	446	431	426	419	434	413	444	3
4	428	422	420	425	432	432	436	441	443	439	431	427	430	434	422	438	4
5	425	428	423	424	433	433	436	443	449	441	434	437	424	437	424	434	5
6	431	427	427	422	431	434	440	444	457	449	436	439	437	440	422	440	6
7	430	425	429	427	436	435	445	447	467	460	441	449	431	445	428	441	7
8	427	416	424	425	443	439	444	459	476	458	443	448	431	445	429	434	8
9	429	414	420	435	433	448	446	473	476	464	450	443	437	437	432	445	9
10	435	417	424	440	428	452	453	480	475	464	450	443	437	437	432	445	10
11	442	422	427	445	435	446	462	482	478	481	448	445	434	445	437	448	11
Noon	430	412	424	446	437	441	464	477	472	479	432	443	429	447	427	444	Noon
13	425	412	429	450	433	435	459	471	453	469	423	439	434	430	422	436	13
14	420	405	420	424	431	427	446	468	447	456	427	437	419	429	417	422	14
15	418	382	408	419	419	429	443	464	445	440	426	440	425	427	419	425	15
16	422	400	409	415	421	426	437	453	430	429	419	419	420	412	411	419	16
17	425	406	412	419	416	427	436	444	410	433	421	415	419	402	418	413	17
18	422	404	400	412	418	429	434	442	413	435	427	419	425	413	421	414	18
19	415	403	390	401	415	429	436	443	425	437	426	414	426	426	421	422	19
20	416	397	406	398	409	432	437	444	431	435	428	414	422	425	425	427	20
21	421	408	410	408	413	431	438	445	433	390	428	412	426	407	423	430	22
22	422	415	422	418	419	434	437	445	434	408	432	415	431	401	431	428	22
23	428	421	418	430	417	432	437	445	426	423	432	419	432	401	431	431	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	430	425	432	444	395	401	406	433	421	414	419	418	425	410	410	423	Midnight
1	431	427	433	445	424	426	407	418	426	417	421	241	434	408	416	426	1
2	434	433	435	439	424	415	407	412	424	418	416	417	433	409	430	426	2
3	425	420	436	441	410	415	410	415	419	421	416	422	419	420	448	427	3
4	432	432	436	440	407	411	415	417	422	419	418	424	406	416	448	427	4
5	425	428	437	452	412	414	418	416	423	419	418	419	413	415	446	429	5
6	435	435	438	453	411	417	425	416	426	422	419	423	411	424	440	431	6
7	430	425	447	457	415	423	435	416	431	429	423	425	413	433	440	436	7
8	447	436	447	465	419	426	444	425	432	436	422	422	402	447	[illegible]	437	8
9	429	414	444	463	417	424	440	428	434	428	427	423	400	-	[illegible]	436	9
10	460	447	443	455	412	425	438	429	438	428	433	427	403	434	419	439	10
11	442	422	444	466	419	417	442	425	431	422	437	431	401	422	421	441	11
Noon	467	439	443	473	418	404	436	415	410	418	431	425	397	385	437	436	Noon
13	425	412	448	476	412	404	430	411	414	407	422	419	393	380	431	432	13
14	468	447	445	450	409	392	416	415	419	392	419	420	394	398	434	426	14
15	425	412	442	411	387	391	412	411	406	395	417	422	387	403	434	421	15
16	449	426	436	399	394	386	408	407	401	395	416	416	395	393	434	416	16
17	418	382	435	381	396	392	407	403	386	402	387	416	405	387	423	413	17
18	414	433	439	382	394	394	400	405	399	412	401	420	403	384	41[illegible]	413	18
19	415	403	444	386	390	392	389	413	404	413	407	418	403	392	399	414	19
20	418	431	443	372	404	395	391	417	403	415	412	424	400	397	386	415	20
21	421	408	444	415	396	395	392	415	400	415	414	422	386	401	374	414	21
22	419	427	443	390	398	401	405	418	403	416	415	425	390	395	365	416	22
23	428	401	444	388	412	405	408	420	407	410	416	427	410	419	376	420	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 dirunal change of Temperature in the Magnet Chamber)

DECEMBER, 1940

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	907	904	904	909	907	906	904	903	902	903	906	902	904	903	909	903	Midnight
1	905	904	903	908	907	905	904	903	903	903	904	902	902	901	907	902	1
2	905	904	903	906	906	905	904	903	903	904	905	903	902	901	907	901	2
3	904	904	902	907	905	905	905	903	903	904	906	904	903	902	907	902	3
4	903	905	903	906	905	905	905	904	903	905	907	904	903	903	907	903	4
5	906	904	903	907	904	906	905	904	904	906	908	906	904	904	910	905	5
6	908	907	903	907	906	906	905	904	905	907	912	908	910	908	913	906	6
7	912	911	904	909	907	907	905	906	906	908	913	912	913	913	915	907	7
8	915	916	913	913	907	907	906	909	906	912	910	912	915	909	914	912	8
9	914	918	919	914	907	903	906	907	902	912	903	909	911	904	909	910	9
10	910	912	921	912	908	900	904	903	892	910	897	900	907	898	897	910	10
11	898	908	920	899	896	897	899	902	877	906	895	898	900	895	892	902	11
Noon	892	904	916	888	891	893	893	898	873	903	894	893	897	885	884	895	Noon
13	886	899	906	880	889	886	893	894	872	901	891	897	897	883	884	889	13
14	886	892	900	877	890	889	894	893	881	903	892	902	903	892	883	891	14
15	887	890	899	879	892	894	896	894	884	907	897	905	905	898	885	895	15
16	893	893	902	883	894	898	897	898	888	909	899	908	906	907	892	898	16
17	896	895	907	892	897	902	899	902	895	908	900	912	904	913	896	902	17
18	899	897	908	896	899	902	899	903	899	907	902	910	904	913	901	902	18
19	902	900	909	902	901	902	899	902	900	903	901	908	903	908	903	900	19
20	903	905	909	904	902	902	899	901	900	903	901	908	903	909	903	902	20
21	906	904	907	904	905	902	899	901	901	906	901	908	905	911	904	902	21
22	904	907	908	906	905	903	901	901	902	907	903	909	903	909	907	905	22
23	906	904	908	907	906	903	902	901	903	905	902	908	903	909	904	904	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	904	910	906	903	915	911	912	907	907	908	907	907	907	909	910	906	Midnight
1	904	908	905	903	912	908	912	912	908	909	907	907	908	910	909	906	1
2	903	909	904	905	912	909	913	913	907	908	907	907	907	908	908	906	2
3	904	907	904	905	913	911	913	912	908	910	908	907	908	908	907	906	3
4	904	908	904	906	914	911	913	912	908	911	909	908	910	907	909	907	4
5	906	909	905	904	914	911	911	913	909	911	909	908	910	910	909	907	5
6	909	910	907	903	916	910	913	912	912	911	912	912	914	913	912	909	6
7	911	913	910	903	910	908	913	914	913	911	911	913	917	911	913	910	7
8	908	913	912	903	904	908	912	915	913	908	909	913	920	911	913	911	8
9	907	906	910	903	902	911	910	912	912	907	907	910	922	912	916	910	9
10	907	900	910	902	904	917	909	907	910	906	905	906	919	912	910	907	10
11	902	895	903	890	904	918	908	905	907	904	900	903	915	908	908	902	11
Noon	900	897	897	885	904	913	903	904	908	899	894	901	906	907	902	897	Noon
13	899	895	893	886	906	912	903	901	912	893	897	901	899	906	902	895	13
14	899	893	898	893	912	910	907	900	913	893	902	902	895	903	903	896	14
15	903	891	898	903	913	908	906	903	913	896	903	903	897	899	903	898	15
16	907	897	898	908	916	909	910	905	912	894	900	906	902	902	903	901	16
17	912	893	899	916	916	911	914	906	913	899	902	907	902	905	904	904	17
18	914	905	899	918	912	913	915	907	913	902	908	907	903	909	905	906	18
19	912	904	898	913	913	913	916	907	910	903	908	907	903	908	906	905	19
20	909	903	897	914	913	913	913	906	911	904	909	906	907	907	908	906	20
21	909	904	899	932	910	912	915	907	909	905	908	907	910	910	912	907	21
22	910	906	902	916	912	912	913	907	912	905	908	907	911	913	904	907	22
23	910	906	903	916	911	912	912	907	908	907	908	907	907	912	906	907	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, 1940.

Month and day 1940	Observations at 10 a.m.									Temperature of the Air							Rainfall			
	Atmospheric Pressure	Temperature of the air	Excess of air temperature over Evap. 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
DEC.	mbs	C	C	C	%	mbs	o	m.p.s.		C	C	C	C	C	C	C	mms.	mins	hrs	%
1	968.1	24.8	4.9	17.0	62	19.4	90	4.4	6	18.8	24.6	25.4	19.6	27.2	18.8	8.4	0.9	25	9.2	70
2	967.7	23.8	4.5	16.6	64	18.9	100	4.6	5	19.2	23.4	24.6	19.4	26.9	19.2	7.7	2.5	50	10.8	82
3	966.9	23.7	3.6	18.0	70	20.6	90	7.9	5	19.6	23.5	24.8	19.6	26.0	19.6	6.4	0.0	0	11.7	88
4	967.3	22.9	2.0	19.8	83	23.1	105	7.2	8	19.7	22.3	24.6	19.5	26.9	19.7	7.2	3.4	65	9.5	72
5	966.7	23.0	2.5	19.1	79	22.1	130	4.5	10	20.0	22.4	25.3	19.2	26.2	20.0	6.2	7.9	75	5.1	39
6	966.1	24.3	4.5	17.1	64	19.5	90	1.8	7	18.3	23.8	25.3	19.3	27.0	18.1	8.9	0.0	0	12.1	91
7	966.7	24.1	2.5	20.2	79	23.7	140	3.3	5	19.6	24.0	24.5	19.3	27.7	19.5	8.2	0.0	0	11.8	89
8	966.1	24.7	4.0	18.4	68	21.2	130	3.9	5	19.1	24.3	24.2	19.3	27.3	19.0	8.3	0.0	0	11.7	88
9	965.0	24.9	4.2	18.3	67	21.0	135	4.2	8	19.9	23.1	24.6	21.0	27.0	19.7	7.3	0.0	0	8.8	66
10	963.9	24.7	3.2	19.8	74	23.1	110	3.4	8	20.5	25.0	25.1	21.0	28.2	20.5	7.7	3.2	40	3.5	27
11	963.9	26.7	5.0	18.9	62	21.8	290	0.9	8	19.5	26.5	28.5	20.4	29.6	23.6	6.0	0.0	0	11.0	83
12	965.0	25.1	3.7	19.4	71	22.5	220	2.2	7	18.5	24.9	26.8	22.5	29.6	18.3	11.3	0.0	0	8.0	60
13	965.9	25.1	3.2	20.2	74	23.7	240	1.5	9	20.9	24.8	27.1	21.9	29.0	20.1	8.9	1.2	30	6.4	48
14	966.4	25.9	4.0	19.8	69	23.1	260	0.9	9	19.0	27.3	23.7	21.9	28.1	18.4	9.7	1.2	45	3.5	27
15	967.4	27.4	5.4	19.1	61	22.1	330	1.6	7	19.9	27.3	25.0	21.5	28.7	19.9	8.8	0.6	20	6.4	49
16	968.8	27.5	5.2	19.6	62	22.8	CALM		6	19.7	27.2	24.1	21.7	28.8	19.3	9.5	7.4	85	5.7	43
17	969.6	27.3	4.8	20.0	65	23.4	50	0.5	7	21.2	27.0	23.7	21.8	28.9	21.1	7.8	10.5	150	4.8	37
18	967.7	26.4	4.3	19.8	67	23.1	90	3.4	6	21.2	26.1	24.7	22.2	28.0	21.2	6.8	9.0	70	6.6	50
19	969.2	26.2	3.5	20.9	73	24.7	90	1.5	4	21.3	26.3	23.3	22.0	28.6	21.0	7.6	15.2	165	5.3	40
20	969.1	23.1	0.7	22.1	94	26.6	360	1.6	10	21.5	23.5	22.7	21.0	25.1	21.1	4.0	27.9	450	0.5	4
21	968.1	23.8	1.7	21.3	86	25.3	CALM		10	20.8	23.3	23.8	21.8	25.3	20.8	4.5	9.4	95	0.2	2
22	968.1	23.9	2.1	20.7	82	24.4	45	0.6	10	21.5	22.5	25.0	20.0	26.5	21.4	5.1	11.3	85	0.0	0
23	967.4	24.9	3.0	20.3	76	23.8	30	1.5	7	20.1	23.5	27.7	22.3	29.0	20.1	8.9	0.0	0	10.0	75
24	967.4	26.5	4.3	20.0	68	23.4	340	1.7	6	20.0	25.8	27.7	22.8	29.5	20.0	9.5	0.0	0	9.1	69
25	967.7	26.3	3.8	20.5	71	24.1	340	3.0	6	20.5	25.9	28.3	20.8	29.6	20.1	9.5	0.0	0	11.8	89
26	967.6	27.4	8.0	14.0	44	16.0	CALM		1	17.3	27.3	28.7	22.3	30.8	16.9	13.9	0.2	10	9.9	75
27	967.5	26.9	4.4	20.3	67	23.8	45	1.6	4	21.1	26.6	26.6	20.1	30.2	21.1	9.1	15.0	55	9.2	70
28	967.9	26.9	3.3	22.0	74	26.4	310	2.7	5	19.9	25.6	26.8	23.7	29.1	19.9	9.2	0.1	5	10.5	79
29	966.4	25.9	3.1	21.3	76	25.3	315	5.4	10	22.1	25.3	24.5	23.6	27.9	22.1	5.8	4.0	30	2.6	20
30	965.6	22.2	0.4	21.6	96	25.8	CALM		10	23.1	21.3	22.4	21.1	25.3	21.0	4.3	43.0	235	0.1	1
31	965.6	24.8	1.3	22.9	89	27.9	CALM		10	21.6	24.3	23.7	21.8	26.8	21.0	5.8	9.8	65	0.0	0
Mean	967.0	25.2	3.6	19.7	72.2	23.0		2.7	7.1	20.2	24.8	24.4	21.1	27.9	20.1	7.8	183.7	1850	6.96	52.7
Average	966.0	24.4	3.1	18.7	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	+40.4	mbs	Amount of Rain	-86.6	mms
Temperature of the Air	+ 0.7	C	Duration of Sunshine	+1.28	hrs
Vapour Pressure	+ 2.1	mbs	Mean of Max. Temperatures	+2.8	C
Relative Humidity	+ 3	%	" Min. "	+1.9	C
Valocity of Wind	- 0.03	mps	Absolute Min. Temperature	+2.2	C
Amount of Cloud			" Max. "	+2.7	C
Greatest Rainfall Intensity at Vacoas					

TABLE VII - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF DECEMBER, 1940

Month and day 1940	Atmospheric Pressure: Mean	Atmospheric Pressure: Excess above average	Temperature of the air: Daily Mean	Temperature of the air: Daily Minimum	Temperature of the air: Daily Range	Temperature of the air: Excess above Average	Excess of air Temp over Evaporation Temperature	Temperature of the Dew Point: Excess above average	Temperature of the Dew Point: Mean	Relative Humidity (Sat.=100): Excess above average	Relative Humidity (Sat.=100): Vapour Pressure	Minimum on the grass	Rainfall: Amount recorded by Dines Pluviograph	Rainfall: Duration	Amount of evaporation	Mean Amount of Cloud (Scale 0-10)
DEC.	mbs	mbs	C	C	C	C	C	C	C	%	mbs	°C	mms	mins	mm	
1	1008.5	+0.1	29.5	21.2	8.3	25.1	-0.4	4.1	18.7	-0.9	68	-5	21.6	17.4	0.1	10	9.2	3.8
2	1008.0	-0.3	30.2	21.6	8.6	25.2	-0.4	4.2	18.6	-1.1	67	-6	21.4	19.4	0.5	15	11.0	4.4
3	1007.7	-0.5	29.6	21.6	8.0	25.1	+0.3	4.3	18.4	-1.3	66	-7	21.2	20.0	1.1	20	8.5	3.1
4	1007.4	-0.7	29.8	21.4	8.4	25.3	+0.4	3.7	19.6	-0.2	71	-2	22.8	19.0	0.9	10	10.1	4.8
5	1006.9	-1.2	27.5	21.0	6.5	23.7	-1.2	2.1	20.5	+0.7	82	+8	24.1	20.8	9.9	210	7.5	7.5
6	1006.5	-1.5	29.9	19.6	10.3	24.3	-0.7	3.9	18.1	-1.8	68	-6	20.8	15.6	0.0	...	5.6	2.9
7	1007.1	-0.8	30.9	21.1	9.8	25.1	+0.1	4.1	18.7	-1.4	68	-6	21.6	17.4	0.0	...	7.7	2.9
8	1006.1	-1.7	30.2	20.2	10.0	25.1	0.0	4.0	18.9	-1.3	68	-6	21.8	16.1	0.0	...	8.8	3.3
9	1004.8	-2.9	31.1	21.5	9.6	25.6	+0.5	4.0	19.4	-0.8	69	-5	22.5	17.0	0.0	...	8.5	3.4
10	1003.7	-3.9	29.9	21.6	8.3	25.4	+0.2	2.9	21.0	+0.7	77	+3	24.9	18.0	0.9	40	7.8	5.1
11	1004.1	-3.4	31.1	20.8	10.3	26.1	+0.9	3.6	20.7	+0.4	72	-2	24.4	17.4	0.0	...	5.7	2.3
12	1005.5	-1.9	31.2	19.9	11.3	26.0	+0.8	3.4	20.9	+0.6	73	-2	24.7	15.9	0.0	...	9.5	4.6
13	1006.4	-1.0	31.9	21.3	10.6	26.5	+1.3	3.3	21.6	+1.3	75	0	25.8	17.7	0.0	...	9.2	6.7
14	1007.1	-0.3	31.9	21.6	10.3	25.8	+0.5	2.8	21.6	+1.2	78	+3	25.8	18.4	17.0	35	7.4	6.6
15	1008.4	+1.1	31.1	21.6	9.5	26.0	+0.7	3.3	21.1	+0.7	74	-1	25.0	19.2	0.0	...	8.1	4.5
16	1009.8	+2.5	31.2	21.6	9.6	26.2	+0.9	3.4	21.1	+0.5	74	-1	25.0	18.5	0.0	...	7.8	4.1
17	1010.9	+3.7	31.0	23.6	7.4	26.4	+1.0	3.2	21.6	+0.9	75	0	25.8	20.6	0.0	...	6.5	6.6
18	1010.6	+3.4	31.2	23.5	7.7	26.2	+0.8	2.7	22.2	+1.5	79	+4	26.8	20.6	4.2	65	6.5	4.4
19	1010.0	+2.9	30.1	22.6	7.5	25.8	+0.4	2.6	22.0	+1.3	80	+5	26.4	20.0	0.9	15	5.8	4.2
20	1009.3	+2.2	32.3	23.1	9.2	25.7	+0.3	1.9	22.9	+2.2	85	+9	27.9	21.2	32.0	85	4.4	6.5
21	1008.6	+1.5	30.6	22.4	8.2	25.2	-0.3	1.9	22.4	+1.6	84	+8	27.1	20.4	6.0	140	2.8	8.4
22	1008.2	+1.2	28.9	23.2	5.7	25.3	-0.2	1.8	22.6	+1.8	85	+9	27.4	21.6	10.7	105	5.3	9.0
23	1007.7	+0.7	31.9	22.7	9.2	26.8	+1.3	3.1	21.3	+0.5	72	-4	25.3	20.9	0.0	...	5.5	4.6
24	1007.7	+0.8	31.7	22.2	9.5	26.6	+1.0	2.7	22.7	+1.8	79	+3	27.6	19.9	0.0	...	6.5	4.5
25	1007.8	+0.9	32.2	22.2	10.0	26.8	+1.2	3.3	21.9	+0.8	74	-2	26.3	19.7	0.0	...	6.8	2.3
26	1007.7	+0.8	32.4	20.5	11.9	26.7	+1.1	4.1	20.4	-0.7	69	-7	24.0	17.2	0.0	...	7.8	1.3
27	1007.7	+0.9	33.0	23.0	10.0	27.6	+2.0	3.5	22.5	+1.4	74	-2	27.3	19.7	0.0	...	7.8	3.4
28	1007.4	+0.6	32.6	23.1	9.5	27.6	+2.0	2.9	23.4	+2.3	78	+2	28.8	20.1	3.3	25	6.0	5.1
29	1006.3	-0.4	31.4	24.7	6.7	27.7	+2.0	3.2	23.1	+1.9	76	0	28.3	21.9	0.0	...	7.1	5.4
30	1005.7	-0.9	27.3	24.1	3.2	25.7	+0.0	1.7	23.2	+2.0	86	+10	28.4	21.4	9.3	230	3.8	8.7
31	1005.8	-0.8	28.2	23.9	4.3	26.0	+0.3	1.8	23.4	+2.2	86	+10	28.8	21.7	0.3	35	1.7	9.5
Mean	1007.4	0.0	30.7	22.0	8.7	25.9	+0.6	3.2	21.1	+0.6	75.2	+0.3	25.1	19.2	97.1	1040	7.0	5.0
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, 1940

The intertropical front showed little activity throughout the month. Mean atmospheric pressure was just normal. Rainfall was near normal and mean temperature slightly above normal.

TABLE VII (Cont'd) - DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS MADE DURING THE MONTH OF DECEMBER, 1940

Month and Day 1940	Duration of Bright Sunshine	Percentage of possible sunshine	Observed Wind Velocity: Mean	Observed Wind Velocity: Excess above Average	Temperature of the soil: 10 ft	5 ft	2 ft	12 ins	WEATHER 0h	3h	6h	9h	12h	15h	18h	21h	24h
DEC	hrs	%	m.p.s.	m.p.s.	°C	°C	°C	°C									
1	11.6	87	3.6	+0.3	24.1	24.8	26.7	27.4		b	b		bc		bcr$_o$		bc
2	11.2	84	4.1	+0.8	24.3	24.9	26.8	27.6	b		bcr$_o$	b		bc c	bc	cd$_o$	cr$_o$b bc
3	11.9	89	4.8	+1.5	24.1	24.8	26.9	27.8		b				bc	b		
4	12.0	90	4.0	+0.7	24.1	24.8	27.1	27.9	b	bcr		c		bc	c	cr$_o$	
5	1.6	12	2.4	-0.9	24.1	24.8	27.0	27.9	c		or$_o$r$_o$	o	or$_o$r$_o$	c		b	
6	9.0	68	2.7	-0.6	24.1	25.0	27.2	27.3		b		bc	c	bc	b		
7	11.6	87	2.9	-0.4	24.1	25.1	27.2	27.3		b	bc	c	bc			b	
8	8.5	64	4.1	+0.8	24.2	25.1	27.1	27.2			b	bc	bc		b		
9	9.6	72	4.0	+0.7	24.1	25.1	27.1	27.2	b		b		bc			b	
10	5.7	43	2.1	-1.3	24.1	25.2	27.1	27.3			b	bc		c		bc	
11	12.8	96	2.5	-0.9	24.1	25.2	27.0	27.2	b		b			bc		b	
12	12.3	93	2.5	-0.9	24.3	25.2	27.1	27.8			b	c	bc		c		bc
13	12.2	92	2.3	-1.1	24.4	25.2	27.3	28.2		bc	b		bc		o		
14	6.7	50	1.9	-1.5	24.4	25.2	27.4	28.4		b			c	cr$_o$r$_o$	oh$_o$	c	b
15	8.7	65	2.3	-1.1	24.4	25.2	27.7	28.7	bc	c		bc			c	b	
16	9.5	71	2.2	-1.2	24.2	25.4	27.7	28.4		b		bc		c	bc		
17	5.8	44	2.2	-1.2	24.2	25.3	27.6	28.2			c	bc		c		b	
18	8.5	64	3.3	-0.1	24.1	25.3	27.8	28.2	b		b		bc	o	c	bc	
19	6.1	46	2.5	-0.9	24.1	25.4	27.8	28.2			b	bc		c	b		
20	3.9	29	2.2	-1.2	24.1	25.4	27.7	27.8		b	cr$_o$		c		or$_o$		bc
21	3.1	23	2.2	-1.2	24.1	25.4	27.7	27.6		bc	c	o		c	or$_o$r$_o$	o	
22	2.1	16	2.2	-1.2	24.2	25.6	27.6	27.5	o		o	cr$_o$	or$_o$r$_o$				bc
23	10.2	77	2.3	-1.1	24.2	25.6	27.6	27.7		c	bc		bc			b	
24	10.3	78	2.0	-1.4	24.2	25.6	27.5	28.2		b	bc	c	bc	c		bc	
25	12.4	93	2.2	-1.2	24.2	25.7	27.6	28.3	b		b	bc			b		b
26	11.7	88	1.9	-1.5	24.2	26.7	27.7	28.6	bo			b			bc	b	
27	10.6	80	2.1	-1.3	24.1	25.7	27.9	28.4			b		bc		b		
28	11.6	87	2.3	-1.0	24.2	25.7	28.1	29.0	b$_o$		b	bc		c		or$_o$r$_o$	c
29	4.0	30	2.7	-0.6	24.2	25.7	28.4	29.1		b$_o$		b	bc	c		bc	
30	0.0	0	2.3	-1.0	24.1	25.7	28.4	28.8		b^o	bc		od$_o$d$_o$	or$_o$r$_o$	o		o
31	0.0	0	1.9	-1.4	24.1	25.8	28.4	28.3	o		o		or		o		
Mean	8.24	61.9	2.67	-0.69	24.17	25.31	27.49	27.98									
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, 1940

Element	Highest	Date	Lowest	Date
Atmospheric Pressure	1012.1mbs at 22.00 hrs on	17th	1002.3 mbs at 15 & 16 hrs on	10th
Temperature of the Air	33.0°C at 13.45 hrs	on 27th	19.6°C at 03.50 hrs on	6th
Daily Range of Temperature of the air	11.9°C	on 26th	3.2°C	on 30th
Temperature of the Dew Point	25.0°C at 10.00 hrs on	25th	16.5°C at 13.00 hrs on	3rd
Daily Range of temperature of the Dew Point				
Minimum on grass			15.6°C	on 6th
Relative Humidity	96.5% at 07.00 hrs on 12th		49.3% at 11.00 hrs on 26th	
Vapour Pressure	31.7 mbs at 10.00 hrs on 25th		18.8 mbs at 13.00 hrs	on 3rd
Evaporation in 24 hrs	11.00 mms	on 2nd	1.7 mms	on 31st
Wind Velocity	9.1 m.p.s. at 16.00 hrs on 8th		0.6 m.p.s. often	
Rainfall in 24 hours	32.9 ending 18.00 hrs on 20th			
Duration of sunshine	12.08 hrs on 11th		0.0 hr	on 30th & 31st

Mean Day Temperature of Air 28.19°C 27.69°C Mean Noght Temperature of Air 23.60°C Average 23.68°C

NUMBER OF DAYS OF

Mean Cloud Amount: 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
...	9	14	8	...	6	3	3	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 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).

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	095	090	080	090	079	071	075	076	060	047	042	055	069	075	080	101	Midnight
1	090	088	072	082	071	066	069	070	058	041	032	051	063	071	076	097	1
2	086	081	070	075	069	062	064	063	053	033	030	047	060	066	073	091	2
3	084	079	068	071	069	060	066	060	050	031	028	045	059	063	072	090	3
4	081	079	067	071	069	059	064	059	051	032	030	043	055	061	071	090	4
5	085	080	068	072	069	060	066	061	052	032	032	047	056	063	074	091	5
6	091	084	071	075	070	062	071	065	067	038	041	051	061	067	079	092	6
7	092	089	078	080	075	070	076	068	061	041	046	059	064	072	083	100	7
8	094	090	080	081	076	072	079	069	061	042	051	061	069	073	084	101	8
9	095	091	082	081	080	071	078	070	060	046	050	062	070	075	091	103	9
10	094	090	080	080	079	072	077	070	056	046	050	061	069	075	091	101	10
11	090	083	079	077	077	070	074	066	053	042	049	058	050	076	090	100	11
Noon	082	080	075	071	070	065	071	061	046	038	043	056	064	071	082	098	Noon
13	079	075	075	068	063	059	066	060	041	030	040	051	063	071	080	093	13
14	073	070	070	061	056	055	062	050	033	027	035	049	060	071	076	091	14
15	070	066	070	060	054	054	059	047	030	023	031	043	051	066	075	087	15
16	071	064	070	061	053	054	055	043	030	023	030	043	051	062	074	086	16
17	072	065	071	061	056	056	059	047	032	024	030	045	053	066	079	090	17
18	079	070	074	068	062	060	067	051	038	029	034	049	059	070	082	095	18
19	083	077	080	073	068	063	073	060	045	039	039	058	064	073	090	102	19
20	089	080	087	077	071	069	081	066	049	044	047	061	071	076	097	108	20
21	090	080	091	080	074	071	085	067	051	047	053	066	076	080	101	113	21
22	092	082	094	081	076	079	084	067	051	050	059	070	077	082	105	115	22
23	092	080	092	081	075	081	083	066	051	049	059	071	076	082	107	114	23

Hour \ Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	Day / Hour
Midnight	110	116	110	101	095	091	084	081	089	088	088	091	072	062	066	082	Mid-night
1	104	110	101	098	090	085	079	078	080	081	080	081	069	054	061	076	1
2	100	106	100	090	087	080	076	074	077	075	075	080	065	047	055	071	2
3	098	101	100	090	081	080	075	071	073	072	072	077	062	041	053	069	3
4	098	101	098	092	076	076	074	070	073	071	071	076	060	040	051	068	4
5	099	101	100	094	079	079	076	072	072	073	073	076	060	042	051	070	5
6	103	107	103	098	082	082	081	077	079	079	074	078	062	053	058	074	6
7	109	111	107	099	086	091	089	081	086	081	079	080	069	062	064	079	7
8	111	113	107	096	089	092	088	081	085	081	081	081	070	066	068	080	8
9	114	113	106	096	090	094	081	082	085	085	084	080	072	064	[illegible]	[illegible]	9
10	115	112	103	097	091	094	081	084	088	083	083	079	072	069	064	081	10
11	111	111	101	096	090	090	080	082	087	082	081	076	070	061	064	079	11
Noon	109	107	099	092	084	083	078	077	081	080	079	071	069	061	061	074	Noon
13	110	106	096	090	081	076	072	073	072	074	074	068	064	058	060	071	13
14	106	102	092	084	076	072	070	071	067	070	070	062	058	052	053	066	14
15	107	099	090	080	072	068	068	070	061	062	063	060	050	050	049	062	15
16	105	097	087	080	072	063	064	068	060	059	061	060	049	049	046	061	16
17	105	096	090	089	077	066	061	070	062	061	062	060	048	050	044	063	17
18	108	101	092	090	084	073	065	071	070	069	066	066	050	055	047	068	18
19	113	105	097	096	091	080	071	075	073	076	072	071	056	059	053	073	19
20	116	109	100	097	093	084	077	081	078	082	079	077	062	061	060	078	20
21	120	110	104	101	097	090	084	086	082	086	088	077	065	067	065	082	21
22	121	111	105	101	098	092	091	090	090	090	093	079	068	070	066	085	22
23	119	111	106	099	096	091	087	090	091	091	097	078	067	070	065	084	23

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

Hour \ Day	DECEMBER, 1940																															
	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	3	1	3	3	8	0	2	0	0	1	2	0	6	3	6	0	7	2	1	2	6	10	7	1	2	0	1	0	0	2	9	2.8
1	3	1	3	4	8	0	3	0	0	1	2	0	6	3	6	0	8	2	0	2	5	10	7	1	2	0	1	0	0	3	9	2.9
2	3	1	4	5	9	0	2	0	1	1	1	0	6	3	7	0	8	3	0	2	5	10	7	1	2	0	0	0	0	4	9	3.0
3	3	1	3	5	10	0	2	0	1	1	2	0	5	3	7	0	9	3	0	2	5	10	6	1	2	0	0	0	0	6	9	3.1
4	3	1	2	5	10	0	3	0	2	1	2	0	4	3	6	0	9	3	1	3	6	10	6	1	2	0	0	0	0	8	9	3.2
5	2	5	3	1	10	1	3	1	2	1	2	1	3	6	4	1	8	1	2	8	7	10	6	3	3	0	1	3	2	8	9	3.8
6	2	5	3	1	10	1	3	1	3	3	2	3	3	6	4	1	8	1	2	8	8	9	6	6	3	0	1	7	7	9	9	4.4
7	3	4	2	1	10	1	3	1	3	3	2	3	4	6	4	1	9	1	3	8	9	9	6	6	3	0	2	7	7	9	9	4.5
8	4	3	2	4	10	3	4	3	3	5	2	5	4	8	4	3	9	2	4	8	9	9	6	7	4	0	4	6	7	9	9	5.2
9	4	2	2	7	10	4	4	4	4	7	2	7	5	9	4	5	9	3	5	8	10	9	6	8	5	0	6	5	7	10	10	5.8
10	4	3	2	7	10	6	7	5	6	8	2	8	5	8	6	5	9	4	7	8	10	8	7	7	5	1	6	5	8	10	10	6.4
11	4	3	4	5	10	8	7	6	6	9	2	6	6	9	5	5	4	4	8	8	9	9	5	7	4	2	6	7	8	10	10	6.3
Noon	4	4	4	3	10	5	6	8	8	9	3	5	6	7	4	5	4	7	7	8	9	10	4	5	4	1	6	6	8	10	10	6.1
13	5	5	5	4	8	4	6	8	6	9	3	6	6	7	4	9	5	9	6	8	7	10	4	5	3	2	5	6	8	10	10	6.2
14	5	6	5	4	7	4	6	8	6	8	4	6	7	7	4	9	7	9	7	7	8	10	5	5	2	2	5	6	7	10	10	6.3
15	4	8	4	3	8	6	4	8	6	8	4	5	8	7	5	9	7	8	8	7	8	10	4	6	1	1	5	6	8	10	10	6.3
16	4	7	3	4	8	5	3	6	6	8	4	7	9	8	5	7	8	8	8	7	9	9	4	6	1	3	6	6	8	10	10	6.4
17	4	6	3	5	8	5	1	4	6	8	3	8	10	9	5	6	9	9	8	8	10	9	5	7	1	4	7	5	8	10	10	6.5
18	5	6	3	5	8	5	1	4	6	7	2	8	10	9	8	6	9	8	8	10	10	9	5	7	1	6	7	5	8	10	10	6.6
19	5	7	3	7	8	3	1	4	3	6	3	8	10	9	7	4	8	6	3	9	10	9	3	5	1	4	5	9	9	10	10	6.1
20	5	7	3	7	1	2	0	2	1	6	3	7	10	8	2	4	2	4	3	6	10	9	1	4	1	2	2	8	7	9	10	4.7
21	5	8	3	7	1	2	0	2	1	5	1	8	10	7	1	5	2	4	3	6	10	8	1	3	1	1	2	9	5	9	10	4.5
22	4	6	3	8	1	2	0	2	1	4	1	6	10	6	1	5	2	4	3	6	10	7	1	3	1	1	2	8	3	9	10	4.2
23	4	4	3	8	1	2	0	1	1	3	1	6	10	6	1	5	2	2	3	6	10	6	1	2	1	1	2	8	3	9	10	3.9

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

Hour ending \ Day	DECEMBER, 1940																															
	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	
6h	15	4	8	0	0	18	9	12	15	7	20	12	17	17	22	18	0	17	0	0	0	0	11	5	0	27	10	7	0	0	0	4.5
7	60	60	60	48	0	60	60	60	60	60	60	58	60	60	60	60	34	60	59	0	50	0	33	7	50	60	60	58	6	0	0	22.7
8	60	60	60	60	43	60	60	60	60	60	60	60	60	60	60	60	60	60	60	45	24	0	17	60	60	60	60	54	19	0	0	25.4
9	52	60	60	60	0	60	60	60	60	60	60	60	60	38	60	60	40	60	60	26	5	3	60	40	60	60	41	43	32	0	0	23.3
10	60	60	60	60	3	60	60	60	60	60	60	60	60	27	60	60	37	60	60	25	30	3	60	35	60	60	60	44	28	0	0	23.9
11	60	60	60	60	0	60	52	37	26	26	60	60	60	25	60	60	55	60	60	5	45	30	60	42	60	60	60	60	43	0	0	23.4
Noon	60	60	60	60	0	60	60	40	21	0	60	60	60	48	60	60	50	60	20	20	18	7	60	52	60	60	60	60	40	0	0	22.3
13	60	60	60	60	1	60	60	1	47	6	60	60	54	47	60	55	15	48	0	30	14	26	60	60	60	60	60	60	45	0	0	21.5
14	60	60	60	60	43	60	42	15	58	0	60	60	45	30	40	2	6	0	0	59	0	17	60	48	60	60	60	60	0	0	0	18.7
15	60	40	60	60	7	44	53	2	60	18	60	60	32	31	8	8	15	1	0	20	0	2	60	60	60	60	60	60	3	0	0	16.7
16	60	43	60	60	0	0	60	29	50	11	60	60	50	14	19	8	10	23	0	3	0	0	60	60	60	60	29	60	23	0	0	16.2
17	60	58	60	60	0	0	52	60	5	15	60	60	52	2	6	48	10	24	31	0	0	37	45	60	60	46	24	60	0	0	0	16.6
18	32	40	30	60	0	0	38	60	45	10	60	57	60	0	10	56	11	28	19	0	0	2	21	59	60	21	26	42	2	0	0	14.2
19	0	5	14	15	0	0	27	16	10	10	27	14	60	1	0	14	3	8	0	0	0	0	7	28	33	11	27	25	0	0	0	5.9

The total amount of registered sunshine was 255.3 hrs and the total amount of possible sunshine was 412.3 hrs.

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, 1940

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	22.3	1.9	22.6	2.5	23.1	2.0	21.6	1.4	24.0	2.5	21.0	1.8	21.6	1.8	21.8	2.7	Midnight
1	22.0	2.0	22.1	2.2	23.2	2.2	22.0	1.0	23.8	2.3	20.2	1.5	21.6	1.9	22.0	2.3	1
2	22.1	2.0	21.9	2.0	22.1	1.8	22.1	1.1	23.6	2.2	20.2	1.6	21.7	1.4	21.8	2.2	2
3	21.8	2.0	21.8	2.0	22.9	2.6	22.2	1.5	22.3	1.2	20.6	1.9	21.8	1.7	20.6	1.8	3
4	21.7	2.2	22.1	2.0	22.8	2.4	22.2	1.6	21.9	5	20.0	1.7	21.5	1.5	20.4	1.8	4
5	21.9	2.2	22.0	1.4	22.6	2.6	22.0	1.8	22.0	6	20.1	1.6	21.2	1.4	20.7	1.7	5
6	22.3	2.3	22.1	1.8	23.1	2.9	22.1	1.9	22.1	1.0	21.1	1.9	22.0	1.2	21.0	1.4	6
7	25.1	3.5	24.7	3.0	25.0	3.7	24.7	2.7	22.5	.5	23.9	2.9	25.0	3.1	24.6	3.0	7
8	26.9	4.8	26.2	4.5	25.3	3.5	26.0	4.0	24.6	2.4	26.0	4.6	26.1	4.2	26.2	3.9	8
9	27.7	6.4	27.3	6.5	27.0	5.0	27.2	5.3	23.9	1.8	27.2	6.0	27.7	6.0	27.7	5.1	9
10	28.7	7.6	28.3	7.3	27.8	6.7	27.9	5.8	24.0	1.9	27.3	5.8	28.9	6.5	29.1	6.8	10
11	27.6	6.0	29.0	7.8	28.5	7.2	28.4	6.3	23.2	.9	27.9	6.1	28.5	5.4	29.1	6.1	11
Noon	29.0	7.1	29.0	7.3	28.9	7.6	28.3	6.3	24.2	1.2	28.6	6.5	29.3	6.3	29.5	6.5	Noon
13	29.0	7.2	29.3	7.8	28.8	7.7	29.1	7.0	26.0	3.2	29.0	7.0	30.3	7.0	28.2	5.9	13
14	28.8	6.5	30.0	7.9	28.6	7.6	29.3	6.9	27.1	4.2	29.4	7.4	28.8	6.0	29.0	6.3	14
15	28.6	6.7	28.9	6.9	28.3	7.3	28.7	6.5	25.9	3.7	27.5	5.3	30.4	7.3	28.1	5.8	15
16	28.2	7.0	28.1	6.3	27.9	7.1	27.4	5.3	25.6	3.3	27.1	5.9	30.2	7.4	28.4	6.4	16
17	27.2	6.0	26.8	5.9	27.0	6.4	26.6	4.5	25.3	3.3	26.2	5.5	27.7	6.2	27.7	6.1	17
18	25.0	3.1	25.7	4.7	25.4	5.2	25.7	3.7	24.8	3.0	25.1	4.6	25.1	4.9	26.0	4.4	18
19	23.6	2.5	24.1	2.8	24.1	3.7	25.1	3.1	24.0	2.6	23.9	3.8	23.8	4.0	24.8	3.7	19
20	23.2	2.2	23.3	2.2	23.6	3.0	24.8	2.8	23.1	2.1	23.0	2.9	22.9	3.5	24.2	3.5	20
21	23.6	2.0	23.0	1.4	23.1	2.6	24.4	2.4	22.6	1.9	22.6	2.5	22.2	3.2	23.9	3.0	21
22	23.2	2.2	23.1	1.6	22.3	2.3	23.8	1.7	22.4	2.2	22.6	2.3	22.2	3.2	23.4	2.7	22
23	22.7	2.4	23.5	2.3	22.7	2.4	23.6	2.6	21.8	1.9	22.3	2.2	22.3	3.3	23.7	2.7	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	22.8	2.2	23.3	2.0	23.0	1.9	22.0	2.1	23.9	1.6	23.7	1.8	22.9	1.2	23.1	1.3	Midnight
1	21.7	1.9	23.2	1.9	22.8	1.8	21.3	1.9	22.9	1.6	23.3	1.8	22.9	1.0	22.9	1.6	1
2	22.0	2.0	23.1	2.0	22.1	1.6	20.9	1.8	22.6	1.5	23.1	1.9	23.1	1.0	22.5	1.4	2
3	22.3	2.2	22.9	2.1	21.9	1.6	20.6	1.6	22.0	1.2	22.7	1.7	23.3	1.3	22.3	1.2	3
4	22.2	2.0	23.0	2.0	21.7	1.5	20.1	1.5	22.0	1.4	22.0	1.5	22.7	1.6	22.2	1.5	4
5	21.8	1.9	22.1	1.8	21.0	1.5	20.0	1.4	21.7	1.4	21.7	1.4	21.8	1.5	21.9	1.3	5
6	23.0	2.6	22.1	1.5	21.2	1.2	20.7	1.7	21.8	1.1	23.0	1.3	22.4	1.3	22.1	1.1	6
7	24.2	3.2	25.2	2.9	24.3	1.8	23.1	.4	25.3	2.0	25.6	2.4	25.2	2.1	26.0	2.5	7
8	26.4	4.4	27.7	4.6	27.4	3.7	26.9	3.0	27.7	3.2	28.0	4.3	27.0	3.8	27.8	4.1	8
9	27.4	5.5	28.7	5.7	30.1	5.4	29.0	4.6	29.7	4.7	29.2	4.6	28.4	5.1	29.1	5.2	9
10	29.1	6.5	29.2	5.4	30.9	5.8	29.7	4.9	31.2	5.9	30.2	5.2	29.0	5.0	30.0	5.9	10
11	29.1	6.4	28.3	4.2	30.0	5.4	30.6	5.5	31.3	6.2	29.8	5.0	29.5	5.4	30.6	6.6	11
Noon	29.2	6.4	27.9	3.6	30.0	5.0	31.0	5.9	31.5	6.5	30.2	5.5	30.3	6.0	30.5	6.2	Noon
13	30.5	7.3	27.6	3.6	30.1	5.3	30.3	5.3	31.3	6.3	30.1	5.9	30.8	6.7	30.6	6.1	13
14	30.6	7.5	27.5	3.2	30.4	6.2	30.3	5.3	29.6	5.3	27.7	4.0	29.1	5.8	28.8	5.0	14
15	30.0	7.0	27.9	3.7	30.2	6.1	30.2	5.3	29.8	5.1	29.3	5.5	28.9	5.9	28.6	4.9	15
16	28.1	5.8	26.2	2.0	30.0	6.0	29.9	5.3	29.3	4.7	28.3	4.2	29.3	5.8	28.2	5.1	16
17	26.9	4.7	26.7	2.9	28.6	5.3	29.2	4.9	28.1	4.0	25.7	1.9	28.2	5.2	29.0	5.5	17
18	26.2	4.1	26.0	3.1	27.9	4.6	28.0	4.2	27.1	3.8	25.0	1.0	26.9	3.8	27.7	4.6	18
19	25.0	3.2	25.3	2.8	26.7	3.0	26.7	3.4	26.6	3.0	25.0	1.0	25.8	2.9	26.3	3.1	19
20	24.2	2.6	24.3	2.2	25.2	2.6	26.1	3.0	26.2	2.8	23.9	1.3	24.8	2.2	25.8	2.7	20
21	24.2	2.7	23.9	2.1	24.8	2.6	25.8	2.7	25.6	2.5	24.1	1.0	24.0	1.9	24.8	2.0	21
22	24.1	2.4	23.3	1.8	23.3	2.2	25.1	2.2	25.0	2.0	23.6	1.0	23.8	1.7	24.1	1.7	22
23	24.1	2.2	23.2	1.7	22.3	2.0	24.5	1.9	24.3	1.6	23.4	1.0	23.5	1.5	24.1	1.7	23

TABLE XI - C_{td}.-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, 1940

Hour \ Day	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	1.7	24.0	1.7	23.8	1.2	24.2	1.0	23.1	.9	23.5	.9	23.3	1.1	23.7	1.5	Midnight
1	24.0	1.5	24.1	1.7	23.3	1.1	24.1	1.0	23.1	1.0	23.3	9	23.2	1.2	23.2	1.2	1
2	23.7	1.5	24.0	1.7	23.2	1.1	24.0	1.0	22.6	.7	23.3	8	23.1	1.1	23.0	1.2	2
3	24.0	1.2	24.1	1.5	23.1	1.1	23.8	1.0	22.8	9	23.7	1.0	22.9	1.0	22.9	1.2	3
4	24.1	1.2	24.0	1.3	23.0	1.1	23.6	1.0	23.2	1.0	23.6	.9	22.9	1.1	22.6	1.3	4
5	23.9	1.2	23.9	1.5	23.0	1.2	23.9	.9	22.9	9	23.6	8	23.1	1.1	22.2	1.1	5
6	24.0	1.9	24.7	1.6	23.1	1.2	23.9	1.1	23.1	9	23.9	1.1	23.7	1.0	23.0	1.0	6
7	26.3	3.0	26.9	2.7	26.0	2.1	24,0	.8	26.0	1.7	23.9	1.0	25.0	1.5	24.6	1.2	7
8	27.6	3.6	28.1	4.1	27.7	3.6	25.9	1.4	26.2	2.0	23.9	9	25.6	1.7	27.3	2.6	8
9	28.3	4.3	29.2	5.2	28.7	4.3	27.2	2.4	27.1	2.8	25.6	1.5	29.0	4.0	28.2	3.4	9
10	29.2	5.1	29.7	5.4	28.7	4.3	27.7	3.1	28.4	3.8	26.1	2.2	29.3	4.6	29.7	3.2	10
11	30.0	5.9	30.2	6.0	29.6	4.8	28.2	2.8	29.7	4.7	27.1	3.0	30.5	5.4	30.1	4.6	11
Noon	30.5	6.5	30.5	6.2	28.4	4.1	29.6	4.5	29.4	5.1	24.9	1.7	31.2	5.4	30.4	4.6	Noon
13	28.1	3.9	29.9	5.8	26.9	3.1	30.7	5.0	29.5	5.1	28.0	2.9	31.1	5.8	30.2	5.1	13
14	29.7	6.9	25.7	1.7	27.7	4.7	31.8	5.8	27.0	3.1	28.7	3.7	31.3	6.2	31.2	5.1	14
15	28.2	4.2	26.2	2.0	27.8	4.2	30.1	5.0	26.2	2.6	28.3	3.4	31.5	5.6	30.2	5.0	15
16	27.5	3.5	27.4	2.9	27.9	4.3	28.0	3.4	25.0	1.0	28.0	3.6	31.1	6.1	30.1	4.9	16
17	27.4	4.3	27.1	2.8	27.4	3.8	23.7	.5	24.8	1.2	27.6	3.5	29.4	5.1	29.3	4.2	17
18	27.2	4.1	26.2	2.8	27.0	3.8	24.1	7	24.2	.9	27.0	2.9	28.9	4.8	28.8	3.8	18
19	26.4	3.5	25.3	1.7	25.2	2.6	24.3	9	24.1	1.1	26.2	2.1	27.1	2.9	27.7	3.1	19
20	25.6	2.5	24.9	1.7	25.0	1.7	24.0	9	24.0	1.1	25.0	1.9	26.1	2.1	26.5	2.3	20
21	25.1	2.2	24.4	1.3	24.4	1.3	23.7	7	24.1	1.0	24.7	1.5	25.0	1.9	25.7	1.8	21
22	24.7	1.8	24.2	1.2	24.3	1.1	23.6	8	24.3	1.0	24.3	1.2	24.6	1.6	24.9	1.8	22
23	24.1	1.7	24.0	1.3	24.6	1.1	23.5	9	23.9	1.2	23.9	1.2	24.0	1.5	24.0	1.5	23

Hour \ Day	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	1.4	22.2	1.9	24.1	1.7	25.1	1.5	25.0	2.3	24.6	1.5	24.1	1.0	23.3	1.7	Midnight
1	23.4	1.3	22.2	1.6	23.5	1.5	24.3	1.3	25.1	2.3	25.0	1.5	24.1	1.0	23.0	1.6	1
2	23.3	1.2	21.5	1.5	23.3	1.4	24.1	1.2	25.1	2.6	26.1	1.6	23.9	1.0	22.9	1.5	2
3	23.0	1.0	21.2	1.5	23.1	1.3	23.8	1.3	25.1	2.9	26.1	2.0	24.0	1.0	22.8	1.6	3
4	23.1	1.2	20.9	1.5	23.4	1.3	23.2	1.1	25.0	2.9	26.1	2.0	23.9	.9	22.6	1.5	4
5	22.4	1.2	20.7	1.5	23.1	1.3	23.2	1.1	25.3	2.8	26.4	2.2	24.1	9	22.5	1.5	5
6	22.4	1.2	21.0	1.5	24.1	2.3	23.7	1.3	26.0	3.2	26.4	2.2	24.3	7	22.9	1.6	6
7	25.0	1.4	25.0	2.8	27.2	3.4	26.7	1.6	27.1	2.7	26.0	1.5	25.3	9	25.1	2.2	7
8	27.7	2.7	27.4	3.5	28.7	3.9	28.9	3.5	28.1	2.9	25.6	1.4	26.8	1.3	26.8	3.3	8
9	29.4	3.9	29.4	5.4	29.6	5.0	29.6	3.5	29.5	3.7	25.3	.8	27.3	1.6	28.1	4.3	9
10	30.9	4.2	31.0	6.9	30.6	5.3	29.8	4.1	29.9	4.4	25.7	1.7	27.6	2.4	28.9	5.0	10
11	30.8	4.7	32.0	8.0	30.9	5.6	31.2	4.5	31.2	4.6	26.3	1.1	27.7	2.3	29.3	5.2	11
Noon	30.1	3.9	31.9	7.9	31.9	5.9	31.0	4.8	30.9	4.3	26.1	1.2	28.0	2.6	29.4	5.2	Noon
13	31.3	5.2	31.7	8.5	32.0	6.3	32.0	5.3	30.6	4.5	27.1	1.9	27.3	2.6	29.6	5.5	13
14	31.9	5.9	31.7	7.2	32.1	6.6	31.4	5.2	30.0	4.2	26.9	1.8	27.4	2.3	29.3	5.3	14
15	32.1	6.8	31.3	6.7	31.7	6.3	31.7	5.4	30.0	3.9	26.1	2.1	27.6	2.9	29.0	5.1	15
16	31.4	6.7	30.9	6.7	30.5	5.4	31.1	5.1	30.0	4.2	26.1	3.0	27.4	2.4	28.5	4.8	16
17	30.1	6.6	29.3	5.3	29.8	4.7	30.8	4.8	29.1	3.8	26.0	2.4	27.2	2.9	27.6	4.3	17
18	29.2	5.9	28.6	5.3	29.2	4.1	29.7	4.2	28.4	3.4	25.4	2.4	27.0	2.7	26.7	3.7	18
19	27.0	3.8	27.9	4.3	28.2	3.4	28.8	3.6	27.6	3.0	25.2	1.3	26.5	2.2	25.8	2.9	19
20	25.5	2.9	27.1	4.1	27.1	2.9	26.5	1.5	27.0	2.7	25.0	1.2	25.9	1.7	25.0	2.4	20
21	25.0	1.9	25.7	1.8	24.2	2.2	26.1	2.6	26.7	2.5	25.7	1.4	26.8	2.3	24.8	1.1	21
22	23.5	2.2	25.1	2.1	26.6	2.0	25.7	1.5	26.0	1.9	24.1	1.1	25.0	1.3	24.1	1.8	22
23	24.0	1.5	24.0	1.5	22.9	2.1	24.7	2.0	25.8	1.9	25.0	1.2	26.3	2.6	24.1	1.1	23

TABLE XII - DIRECTION AND VELOCITY OF THE WIND AT EVERY HOUR OF THE DAY AS RECORDED BY THE ROBINSON CUP ANEMOMETER DURING DECEMBER, 1940

The directions are given 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, 1940

Hour \ Day	1 Dir.	1 Vel.	2 Dir.	2 Vel.	3 Dir.	3 Vel.	4 Dir.	4 Vel.	5 Dir.	5 Vel.	6 Dir.	6 Vel.	7 Dir.	7 Vel.	8 Dir.	8 Vel.	9 Dir.	9 Vel.	10 Dir.	10 Vel.	11 Dir.	11 Vel.	12 Dir.	12 Vel.	13 Dir.	13 Vel.	14 Dir.	14 Vel.	15 Dir.	15 Vel.	16 Dir.	16 Vel.
Mid-night	09	2.6	10	3.3	09	4.4	08	2.2	12	2.1	11	1.7	11	1.0	14	1.0	11	0.7	12	0.8	13	2.4	10	1.7	22	0.6	15	1.5	09	1.1	10	2.0
1	09	2.1	10	2.8	09	3.9	08	1.3	12	1.9	11	2.2	11	1.1	14	2.2	11	0.8	13	0.7	13	1.9	10	1.4	22	0.7	15	1.2	09	1.7	11	1.6
2	09	2.4	10	3.6	09	4.3	08	1.1	12	1.7	11	1.8	11	2.2	14	1.2	11	1.7	13	0.7	13	1.8	10	1.1	22	0.7	15	1.6	09	1.3	11	2.0
3	11	2.2	10	2.4	09	4.4	11	2.2	07	1.3	11	1.8	11	1.7	14	1.4	14	1.8	13	1.1	13	1.9	10	1.4	22	1.3	15	1.4	10	2.0	10	1.3
4	11	1.4	11	3.4	09	4.2	11	2.5	07	0.7	11	1.5	11	1.9	14	1.3	13	2.6	14	1.6	13	1.5	10	1.6	16	1.1	15	1.5	11	1.8	10	1.4
5	11	1.2	11	2.9	09	4.4	12	1.2	07	1.1	11	2.0	11	1.2	14	1.5	13	3.4	14	0.8	13	1.4	10	1.1	16	1.1	15	1.8	11	1.6	10	1.1
6	12	1.2	10	2.6	10	3.8	12	1.7	12	1.0	11	1.6	11	1.0	14	1.5	13	1.9	14	1.7	13	1.6	10	0.6	16	1.1	15	1.2	11	1.7	10	1.8
7	12	2.2	10	3.8	09	5.2	10	3.1	12	0.7	11	2.0	11	2.4	14	2.4	14	3.2	14	2.6	13	0.7	10	1.0	16	1.2	15	0.7	10	2.4	11	2.1
8	10	4.2	10	5.2	09	6.4	09	5.3	08	2.8	10	3.9	11	3.1	13	3.6	12	4.2	13	3.2	19	1.4	09	2.6	21	2.1	13	1.1	10	2.6	10	2.4
9	09	4.0	09	6.[illegible]	09	6.7	09	4.4	08	3.8	08	4.2	11	3.6	12	4.7	14	4.5	13	4.2	d28	2.1	23	3.3	25	2.5	r27	2.2	09	2.6	03	2.4
10	09	4.8	11	4.3	08	7.2	08	5.1	11	2.7	09	4.1	12	3.0	13	5.3	14	5.2	13	2.9	26	3.3	23	3.3	22	3.1	30	2.8	05	3.4	03	3.2
11	09	4.5	11	4.3	10	7.4	11	6.0	08	3.0	09	4.2	d27	3.0	12	5.5	14	4.0	d24	2.1	25	4.9	24	4.4	22	4.1	21	2.9	05	3.9	07	3.9
Noon	03	5.4	11	5.1	09	7.8	11	5.4	07	3.0	09	4.6	22	3.1	13	6.0	14	5.7	26	2.6	22	5.4	24	5.7	26	4.0	20	3.4	04	3.6	04	3.4
13	04	5.2	10	4.2	10	5.9	09	6.1	08	4.4	10	4.4	22	2.8	12	6.8	12	5.6	d04	2.4	23	5.1	21	4.0	24	4.1	19	3.2	04	3.7	03	4.0
14	10	5.2	11	4.3	10	5.7	11	6.4	09	5.1	11	4.5	r32	4.4	12	7.0	12	5.5	30	2.2	23	5.0	23	4.8	21	4.4	r10	3.3	05	3.1	05	2.2
15	09	6.3	12	4.7	09	5.9	11	6.9	11	4.4	09	2.4	29	4.4	12	7.4	12	6.3	29	2.9	24	4.9	23	5.0	22	4.2	04	2.6	05	3.0	06	2.1
16	11	5.7	11	5.3	10	5.5	09	5.5	09	4.1	12	3.0	29	3.1	12	9.1	12	6.7	32	2.1	23	5.6	20	5.4	22	4.9	04	2.0	03	2.9	06	2.6
17	09	5.0	10	5.0	11	5.0	10	5.8	10	3.7	12	3.6	r12	5.8	13	7.5	11	5.8	r16	2.0	24	3.8	24	4.3	20	4.4	05	2.8	04	2.6	05	2.8
18	09	4.4	11	4.6	10	4.8	11	5.0	11	2.8	12	2.8	13	5.9	12	6.7	12	6.5	12	3.2	24	3.1	20	3.9	21	3.2	04	1.1	09	1.8	06	2.3
19	10	3.2	11	3.5	10	3.7	10	4.1	09	1.8	12	2.0	12	4.8	13	4.7	12	5.6	12	3.1	d01	1.0	22	1.4	22	2.2	04	1.0	13	0.6	21	0.9
20	10	2.4	10	3.4	10	2.5	11	3.3	09	1.2	11	1.5	11	2.1	13	4.8	12	4.0	12	1.7	d10	1.4	22	1.1	22	1.4	07	2.0	10	1.2	07	1.2
21	10	3.9	10	3.6	10	2.0	11	3.3	09	0.7	11	2.0	11	2.2	12	3.0	13	3.7	12	1.9	10	0.8	22	0.6	20	1.1	09	1.1	10	1.6	06	1.1
22	10	3.7	11	3.5	10	2.4	12	3.6	09	2.2	11	1.7	11	2.9	12	1.8	12	4.3	12	1.7	10	1.0	22	0.6	20	1.1	09	1.4	10	1.8	06	2.1
23	10	2.9	09	4.4	07	3.1	12	2.6	09	2.1	11	1.2	13	3.4	12	1.2	12	1.4	12	2.0	10	1.2	22	0.7	20	1.2	09	1.3	10	1.2	07	1.7

Hour \ Day	17 Dir.	17 Vel.	18 Dir.	18 Vel.	19 Dir.	19 Vel.	20 Dir.	20 Vel.	21 Dir.	21 Vel.	22 Dir.	22 Vel.	23 Dir.	23 Vel.	24 Dir.	24 Vel.	25 Dir.	25 Vel.	26 Dir.	26 Vel.	27 Dir.	27 Vel.	28 Dir.	28 Vel.	29 Dir.	29 Vel.	30 Dir.	30 Vel.	31 Dir.	31 Vel.	Mean Velocity
Mid-night	08	1.3	10	1.0	10	1.8	08	2.1	10	2.1	11	1.2	12	1.4	05	1.3	27	1.5	29	2.0	16	1.3	r24	0.7	12	1.0	28	1.0	12	1.3	1.6
1	10	1.3	12	2.1	10	1.9	08	1.4	10	1.8	11	1.2	11	1.8	05	1.7	27	1.3	29	2.0	16	1.2	24	1.1	12	0.8	28	1.5	22	1.1	1.6
2	10	1.5	12	2.1	10	1.6	08	1.5	10	1.5	11	1.8	10	1.4	11	1.6	27	1.5	28	1.8	16	1.9	r16	1.2	32	1.5	30	3.2	12	1.5	1.8
3	10	1.6	12	2.8	10	1.5	08	1.2	10	1.4	11	1.3	10	1.4	11	1.6	27	1.5	28	1.8	16	1.9	r16	1.2	32	1.5	30	3.2	12	1.5	1.8
4	10	1.4	12	2.4	10	1.8	08	1.3	10	2.5	06	1.2	10	1.3	11	1.7	27	1.4	28	2.2	16	1.1	16	1.4	31	1.7	31	2.5	12	1.0	1.8
5	10	2.0	12	2.0	10	1.3	07	1.4	10	1.8	09	1.3	10	2.1	11	1.4	27	1.3	28	1.9	15	1.7	15	1.9	31	2.2	31	3.1	12	1.4	1.8
6	10	2.1	12	2.0	10	1.5	10	1.4	10	1.2	09	1.2	10	2.1	11	1.1	27	1.3	26	1.8	11	1.5	15	1.5	30	3.9	32	2.5	11	1.1	1.7
7	12	2.7	11	2.8	10	2.5	r01	1.0	r07	2.2	11	2.9	09	2.7	11	0.6	27	1.8	29	1.1	10	1.8	15	1.3	29	2.6	30	2.6	11	0.7	2.1
8	09	2.4	12	4.1	08	3.0	07	1.4	02	2.6	11	2.6	07	2.4	07	1.2	02	2.2	29	0.8	05	2.3	r03	2.1	30	3.5	28	2.7	04	2.0	2.9
9	09	2.4	12	4.8	10	3.4	06	3.1	04	2.9	07	1.8	03	3.2	32	1.5	02	3.6	28	1.2	05	2.1	31	3.1	28	4.2	r19	2.5	01	3.4	3.4
10	08	3.0	13	4.5	10	3.6	03	3.3	03	3.2	09	3.4	03	4.0	31	3.2	28	3.7	32	2.3	02	3.0	31	3.2	27	4.4	25	2.5	01	4.0	3.7
11	10	3.7	13	5.0	08	4.2	02	3.3	01	3.3	08	2.2	04	3.9	30	3.7	30	3.6	28	3.0	04	3.2	32	3.7	28	4.5	24	2.0	01	3.9	3.9
Noon	11	3.8	13	4.9	07	3.8	03	4.2	02	4.3	06	3.1	31	4.0	30	3.8	29	3.7	25	3.4	05	3.3	30	4.4	26	4.4	21	3.2	32	4.1	4.3
13	d19	3.1	12	4.4	14	2.0	02	4.4	01	3.3	02	3.1	31	4.0	02	3.8	29	3.1	25	2.7	03	3.9	29	4.2	25	4.4	24	3.0	31	3.0	4.0
14	12	3.2	14	4.2	06	2.6	01	4.0	d12	2.1	02	4.4	30	3.7	31	4.3	29	3.8	27	3.0	32	3.4	30	4.1	28	4.2	21	4.1	30	2.7	4.1
15	d30	1.7	12	2.8	06	3.9	01	3.6	13	2.9	04	3.7	29	3.2	29	3.8	31	3.2	26	2.6	01	3.8	28	3.6	26	4.2	22	3.0	30	3.5	4.0
16	32	1.8	11	4.2	06	3.5	d15	1.8	18	2.0	05	3.3	29	2.7	29	3.3	31	3.6	26	2.7	32	3.1	26	3.8	23	4.0	23	2.2	30	1.8	3.7
17	d11	1.9	09	4.2	06	3.5	12	3.0	23	2.0	05	2.8	30	2.7	30	2.6	20	3.1	24	2.3	02	2.8	24	2.8	25	3.4	21	2.1	30	2.7	3.6
18	09	2.5	11	3.9	07	2.9	13	1.2	18	2.0	03	2.6	32	2.2	27	1.8	29	1.8	23	1.8	02	2.7	23	2.4	26	2.8	20	1.8	29	1.7	3.1
19	09	2.9	11	3.1	10	2.8	13	1.3	11	1.5	03	1.1	32	1.1	27	1.0	29	0.7	23	0.9	02	2.2	27	1.5	26	1.5	20	1.1	30	0.7	2.2
20	09	1.8	12	2.7	10	1.3	10	1.7	11	2.2	d12	1.1	32	0.7	27	0.8	29	0.7	23	1.2	02	1.1	r16	1.6	26	1.3	20	0.8	30	0.6	1.8
21	10	2.6	12	2.5	07	2.0	10	1.4	11	1.2	12	1.1	32	1.2	27	0.8	29	1.4	23	1.1	02	0.8	13	1.6	26	1.2	20	1.2	30	0.8	1.7
22	10	1.9	12	2.6	08	1.8	10	1.8	11	1.5	12	1.8	32	1.3	27	0.9	29	1.9	23	1.3	02	1.0	13	0.8	28	1.1	r12	1.7	30	1.0	1.9
23	10	1.2	12	2.9	08	2.1	10	2.0	11	1.3	12	1.2	05	1.3	27	1.5	29	1.6	23	1.1	02	1.0	12	1.1	28	1.2	12	1.4	30	0.7	1.7

TABLE XIII - WIND FREQUENCY (NUMBER OF OBSERVATIONS, DECEMBER, 1940)

Force (0 - 12)

Hour	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	1				3	8	10	2	3			1			2	1
9	-	2	29	3	1	4	1	9	1	4	1			1		2		4	
15	1	4	26	3		3	2	3		7					2	2	2	5	2
21	-	1	30	1	1		1	3	7	10				2	1	1	1	2	1
TOTALS				8	2	7	4	18	16	31	3	3	-	3	4	5	3	13	4

TABLE XIV a - RAINFALL AT EVERY HOUR OF THE DAY AT THE ROYAL ALFRED OBSERVATORY FOR DECEMBER, 1940

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	..	....	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	....	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	....	..	..	0.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	....	..	..	7.0	..	..	..	....	..	..	..	..	..	..	..	..	0.1	..	0.1	..	..	..	..	..	..	..	..	..	..	..
5	..	0.4	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..
6	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..
7	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4.3	..	3.9	..	..	..	..	..	..	..	..	..
8	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	..	0.6	1.1	..	..	..	..	..	..	..	..	..
9	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	1.0	..
10	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.9	0.1
11	..	....	..	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	0.2	..
12	..	....	..	..	1.0	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	5.3	..	..	..	..	..	..	..	0.7	..
13	..	....	..	..	..	....	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	....	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	0.2
15	..	....	..	..	..	....	....	..	..	0.1	..	..	..	....	..	..	..	2.4	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	....	..	..	..	....	....	..	..	0.6	..	..	..	..	..	..	..	0.5	..	..	3.6	..	..	..	..	..	..	..	..	0.1	..
17	..	....	..	..	..	....	....	..	..	..	..	..	..	..	..	..	..	..	..	10.0	0.6	..	..	..	..	..	..	..	..	..	..
18	..	....	..	..	..	....	..	..	..	..	..	..	7.0	....	..	..	..	..	..	17.2	1.2	..	..	..	..	..	..	..	..	..	..
19	0.1	....	..	..	..	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	0.1	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.3	..	..	..
21	0.1	....	..	..	..	....	....	..	..	..	..	..	..	..	..	..	..	0.8	..	..	..	..	..	..	..	..	..	1.0	..	..	..
22	..	....	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	....	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	....	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XIV b - RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR DECEMBER 19[illegible]

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	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.5	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	0.4	..	..	..	..	....	..	..	1.2	..	..	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	0.9	..	..	0.1	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	1.0	..	..	4.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	..	..	..	..	..
7	..	..	..	0.1	2.3	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25.0	0.3
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.1	..
10	..	..	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	2.4	..	..	..	..	..	..	..	..	0.1	..
11	..	..	..	..	..	..	..	..	..	3.1	..	..	..	..	..	..	..	..	..	3.0	5.9	..	..	..	..	..	..	..	..	0.3	..
12	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	0.8	3.4	..	..	2.4	1.0	..	..	..	..	..	..	..	..	2.8	0.3
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3.5	3.5	..	5.8	2.7	..	..	..	..	..	..	..	..	..	0.3	0.4
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.6	.0	.6	8.8	6.2	1.5	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	1.0	..	2.5	..	0.2	0.4	3.0	..	2.5	..	..	..	..	..	..	2.0	..	..
16	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	..	..	9.3	..	0.2	..	..	..	0.2	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2.4	0.7	..	0.9	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..	..	..	4.6	..	3.8	..	..	..	..	..	..	..	..	..
19	0.6	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	0.6	..	..	..	..	..	..	..	..	..	..	0.2	..	..	..	8.7
20	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13.3	..	0.5	..	..
21	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1.5	..	..	..	..
22	..	0.6	..	0.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.1	..	..	..
23	..	..	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE XV - TOTAL MONTHLY RAINFALL AT VARIOUS STATIONS IN MAURITIUS ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR DECEMBER, 1940

RIVER SYSTEM	STATIONS	Approximate Altitude in feet	Total Fall inches	Total Fall Millimetres	Normal in Inches	Number of days
1	Mare Seche	20	3.15	80.0	3.90	11
	Saint Antoine	50	3.04	77.2		10
	Bel Mont	50	2.86	72.6	4.39	9
	Poudre d'Or	20	4.45	113.3		9
	Mon Loisir S.E.	300			5 22	
	Forbach	300	2.64	67.1		4
	Couroupa	...	1.65	42.0	5.98	7
	Labourdonnais	290	1.51	38.5		4
	Mapou Water Office	...	2.17	55.1	...	4
	Beau Sejour	300	3.80	96.5		16
	Mont Piton	650	3.58	90.9	6.42	16
	Mon Choix	790	2.79	70.9		13
	Antoinette	640	3.92	99.6	6.17	16
	Mon Songe	620	3.90	99.1		18
	Botanical Gardens	325	2.41	61.2	5.92	19
	The Observatory	179	3.82	97.1		15
	Solitude	175	5.00	127.0	3,70	9
	Saint Andre (cour)	90				
	La Nicoliere	...	5.68	144.3	6.59	20
	California	...	5.99	152.1		18
	Australia	...	5.29	134.4	...	18
2 & 3	Union Regnard(Flacq S.E.)	600	6.91	175.5		17
	Constance d'Arifat	100	6.20	157.5	6.99	18
	Constance d'Arifat(L.S.)	100	6.20	157.5		18
	La Toffrette	...	9.00	228.6	...	17
	Belle Vue (Allendy)	...	5.50	139.7		13
4	Sans Souci	900	15.56	395.2	10.74	24
	Beau Champ (B.R.S.E.)	20	9.93	251.2		20
	Olivia	400	12.12	307.8	8.92	12
	Trois Ilots	...	11.05	280.7		20
	Belle Rive	400	11.41	289.8	...	22
	Sebastopol	700				
	Bonne Veine	400	16.44	417.6	14.06	22
5	Rose Belle	850	9.56	242.8		29
	New Grove	650	17.68	449.1	13.23	27
	Mon Tresor	...	14.92	379.0		
	Mon Desert Carie	75	8.89	225.8	6.21	
	Ferney	20	8.30	210.8		15
	Sauve Terre	...	9.70	246.4	...	
	Tivoli	1300	9.82	249.4		
	La Flora	1050	38.03	204.0	9.76	
	Riche Bois Britannia	650	15.11	383.8		
6	Britannia Estate	700	13.19	331.0	9.06	
	Savannah Mill	200	11.42	290.1		16
	St. Aubin	300	9.21	233.9	7.53	18
	St. Avold	900	12.76	324.1		
	Colmar	400	12.82	325.6	8.47	
	Union S.E.	...	12.34	313.4		14
	Fontenelle	320	9.46	240.3	6.19	13
	Choisy	200	6.71	170.4		10
	Beau Bois	...	21.45	544.8	...	22
	Bel Air	...	15.55	395.0		15
	Saint Felix	...	22.33	567.2	...	15
7&8&9&10	Bel Ombre	40	6.82	173.2		14
	Beau Champ(B.du Cap)	70	7.49	190.0	5.87	15
	Frederica	...	6.23	158.2		12
	Pierre Fonds	...	4.03	102.4	8.28	12
	Sainte Marie	...	8.74	222.0		17
	Hussonia	...	3.30	83.8	...	11
11	Curepipe Gardens	1840	10.34	262.6		19
	Mare aux Vacoas (Good End)	1850	8.21	398.5	11.07	21
	Mare aux Vacoas (Arnaud)	1830	9.07	230.4		26
	La Marie Filter Beds	1700	6.71	170.4	9.00	20
	Soph ie	...	7.47	194.8		23
	Reunion	1420	8.05	204.5	8.80	17
	Aerological Station	1393		123.7		21
	Phoenix	...	9.39	238.5	...	12
	Q uatre Bornes	...	6.46	164.1		14
12	Quatre Bornes (Board)	1090	8.75	222.3	5.74	11
	Le Reduit (D.of Ag)	1000	10:05	255.3		22
	Alma	1460	12.16	308.9	11.14	19
	Bagatelle					
	Bagatelle	1250	13.04	331.2	7.05	
	Highlands	1300	10.89	276.6	8.59	
	Trianon	950	10.53	257.3	6.80	15
	Val Ory	1100	9.67	245.6	7.15	12
	Bassin	...	3.74	95.0	3.80	7
	Hermitage	1450	10.81	274.6	15.28	
	Ebene	...	19.95	278.1	...	
	Bega	...	9.94	252.5	...	
	Mon Reve		14.04	356.6	...	
	MonPevril		10.95	278.1	...	
	Minissy	1150	15.59	396.0	9.25	
	Plaisance	...	11.38	289.1	...	
	La Ferme	350	1.80	45.7	5.55	8
	Line Barracks	...	7.92	201.2	...	12

TABLE XVA - TOTAL ANNUAL RAINFALL AT VARIOUS STATIONS IN MAURITIUS GROUPED ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR THE YEAR 1940

River system	Stations	Approximate Altitude in feet	Total fall in inches	Total fall in mms	Normal in inches
1	Mare Seche	20	62.00	1574 8	47.43
	Saint Antoine	50			45.94
	Bel Mont	50			50.12
	Poudre d'Or	20			48.75
	Mon Loisir S.E.	300			58.47
	Forbach	300	59.14	1502.2	47.76
	Couroupa	...	62.46	1586.7	59.55
	Labourdonnais	290	58.22	1478.9	57.60
	Mapou Water Works Office	...	53.52		..
	Beau Sejour	300	77.61	1971.2	68.27
	Mont Piton	650	67.07	1703.6	70.46
	Mon Choix	700	62.83	1595.8	65.07
	Antoinette	640	86.85	2206.1	69.98
	Mon Songe	620	84.49	2141.6	73.92
	Botanical Gardens	325	65.94	1674.8	60.13
	The Observatory	179	53.44	1357.3	49.75
	Solitude	175	55.65	1413.6	38.27
	St Andre.cour	90	....		45.20
	La Nicoliere	...	93.46	2373.8	95.38
	California	...	106.11	2695.3	74.09
	Australia	...	99.48	2526.8	...
2 & 3	Union Regnard S E	600	89.96	2285.1	76.76
	Constance d'Arifat	100	83.31	2116.6	67.09
	Rich Fund	600	92.83	2357.9	83.19
	La Toffrette	..	95.76	2432.2	...
	Belle Vue Allendy	...	85.71	2177.7	78.08
4	Sans Souci	900	153.53	3899.6	138.35
	Beau Champ G R S E	20	74.30	1887.1	61.75
	Olivia	400	105.25	2673.3	94.26
	Trois Ilots	...	92.05	2338.0	...
	Belle Rive	400	128.90	3274.1	112.21
	Sebastopol	700	....		...
	Bonne Veine	400	133.57	3392.7	130.07
5	Rose Belle	850	137.78	3499.8	140.27
	New Grove	650	176.78	4490.3	...
	Mon Tresor	...	99.37	2524.1	...
	Mon Desert Carie	75	76.71	1948.4	62.0
	Ferney	20	87.66	2226.6	91.50
	Sauve Terre	...	84.14	2137.3	...
	Tivoli	1300	142.91	3630.0	138.28
	La Flora	1050	145.74	3701.7	135.57
6	Riche Bois (Britannia)	650	108.15	2747.0	104.27
	Britannia Estate	700	123.28	3131.4	108.47
	Savannah Mill	200	77.90	1978.7	77.13
	St Aubin	300	89.32	2268.8	77.01
	St Avold	900	138.96	3529.6	117.68
	Colmar	400	114.61	2911.1	92.91
	Union S E	...	119.63	3038.6	67.56
	Fontenelle	320	97.60	2479.0	77.34
	Chlisy	200	65.04	1651.9	63.40
	Beau Bois	...	149.31	3792.4	99.03
	Bel Air	...	104.37	2651.0	69.77
	St Felix	...	129.50	3289.3	...
7&8&9&10	Bel Ombre	40	84.87	2155.7	62.04
	Beau Champ-Baie du Cap	70	77.61	1971.4	63.01
	Frederica	...	96.92	2461.7	...
	Pierre Fonds	...	41.87	1063.6	56.32
	Ste Marie	...	91.53	2325.0	...
	Hussonia Limited	...	28.01	711.5	...
11	Curepipe Gardens	1840	....		123.24
	Mare aux Vacoas G.E.	1850	143.58	3646.9	145.95
	Mare aux Vacoas , Arnaud	1830	164.40	4175.8	148.62
	La Marie Filter Beds	1700	101.52	2578.5	105.22
	Sophie	...	137.39	3489.6	...
	Reunion	1420	88.88	2257.6	88.35
	AeorologicalStation	1393	76.54	1944.0	90.47
	Phoenix	...	72.34	1837.4	77.05
	Quatre Bornes	...	41.88	1063.9	...
12	4 Bornes- Board	1090	54.41	1356.5	...
	Le Reduit Dep.of Agriculture	1000	60.84	1545.4	57.90
	Alma	1460	123.18	3128.7	126.60
	Bagatelle	1250	98.55	2503.2	79.35
	Highlands	1300	106.75	2711.4	88.00
	Trianon	950	60.65	1540.5	63.17
	Val Ory	1100	55.45	1408.3	65.21
	Bassin	...	41.08	1043.5	63.21
	Hermitage	1450	106.71	2710.4	126.69
	Ebene	...	60.84	1545.2	...
	Bega	...	53.00	1346.3	...
	Mon Reve	...	76.15	1931.6	...
	Mon Pevril	...	62.20	1579.8	...
	Minissy	1150	82.38	2092.4	65.95
	Plaisance	...	78.09	1983.6	...
	La Ferme	350	33.85	859.8	49.80
	Line Barracks	...	37.78	959.7	

TABLE XVI - OBSERVATIONS OF THE DIRECTION AND VELOCITY OF CLOUDS MADE AT THE AEROLOGICAL STATION, VACOAS, 424.5 metres above sea level, DURING THE MONTH OF DECEMBER, 1940.

Day	Type	St.& Fs.		Cumulus Cu. St. & c		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus			St.& Fs.		Cumulus & c Cu.St		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus	
	Time	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Time	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height	Dir.	Vel/ Height
1	9	...	...	97	3.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	...	140	4.3	...	...	...	...	...	...	...	...
4	9¼	...	...	90	...	...	...	...	...	...	...	...	...	15	...	...	105	5.4	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	9¼	...	...	90	10.1	...	...	...	...	...	...	...	...	15	...	...	95	3.6	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	...	140	6.1	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	9	...	...	101	2.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	...	78	3.4	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	...	315	3.9	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	9¾	...	...	355	3.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	...	310	3.0	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	9½	...	...	62	3.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29																										
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

The direction is that from which the cloud travels counting from North (0°), East (90°) South(180°). The velocity-height ratio is given in milliradians per sec.

X Observatory Pamplemousses.

TABLE XVII - MONTHLY AND YEARLY MEANS AND EXTREMES OF THE METEOROLOGICAL ELEMENTS FOR THE YEAR 1940

Month 1940	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 °C	Excess of air Temperature over Evaporation Temperature °C	Temperature of the Dew Point °C	Relative Humidity %	Vapour Pressure mbs	Rainfall: Amount recorded by the Beckley pluviograph mms.	Duration mins	Mean minimum on grass °C
January	1005.1	32.0	20.6	11.4	29.8	22.8	7.0	25.9	2.9	21.5	77.1	25.8	54.3	530	6.7
February	1006.7	31.4	22.2	9.2	29.0	23.3	5.7	25.7	2.2	22.4	82.4	27.2	160.9	3062	5.4
March	1006.5	29.4	18.2	11.2	28.3	21.9	6.4	24 8	2.4	21.1	80.4	25.1	174.6	3020	5.2
April	1010.0	29.1	19.0	10.1	28.0	21.2	6.8	24.2	2.3	20.7	80.8	24.4	38.2	782	4.9
May	1009.2	28 2	17.3	10.9	26.4	20.6	5.8	23.2	1 9	20.3	84.1	23.9	414.2	5160	3.6
June	1012.2	27.0	14.0	13.0	24.7	17.9	6.8	21.1	2.4	17.2	78.5	19.7	110.1	1895	3.5
July	1014.7	26.0	14.8	11.2	24.3	18.0	6.3	20.8	2.4	16.9	78.5	19.3	121.5	2170	3.5
August	1015.0	26.0	12.2	13.8	24.4	17.7	6.7	20.7	2.6	16.4	76.7	18.7	89.6	1790	4.3
Septemb	1014.2	27.2	14.7	12.5	25.5	18.0	7.5	21.3	2.9	16.6	74.7	18.9	35.3	1395	4.9
October	1012.2	29.1	14.9	14.2	27.1	18 8	8.3	22.4	3.3	17.1	72.0	19.6	30.2	575	6.5
November	1009.3	30.0	17.0	13.0	28.6	20.6	8.0	24.1	3.4	18.8	72.3	21.7	28.9	645	7.4
December	1007.4	33.0	19 6	13.4	30.7	22.0	8.7	25.9	3.2	21.1	75.2	25.1	97.1	1040	7.0
Year	1010.2	29.0	17.0	12.0	27.0	20.2	7.0	23.3	2.6	19.2	77.7	22.4	1354.9	367.7 hrs	5.2
Maxima	1018.9 July 28th	33.0 Dec.	...	14.2 Oct.	30.7 Dec.	...	8.7 Dec.	...	8.0 Oct.14	25.7 Feb.	99.3 April	33.0 Feb.	221.9 mms ending 20 hrs		11.0 Dec.
Minima	993.7 March22nd	...	12.2 Aug. 4	9.2 Feb.	...	17.7 Aug.	5.7 Feb.	...	0.1 April 20	10.3 July 9	40.0 Oct. 14	12.5 July 9			1.2 Jan 2

Month 1940	Mean Daily amount of Evaporation mms	Temperature of the Soil: Feet 10 °C	Feet 5 °C	Feet 2 °C	Ins. 12 °	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: Rain	Lightning	Thunderstorm
January	19.4	24.45	26.28	28.16	28.51	4.9	8.63	65.8	3.41	20	2	...
February	20.5	24.98	26.60	28.15	28.09	7.5	5.82	45.6	4.16	28	2	...
March	19.0	25.19	26.65	27.20	27.21	5.7	7.11	58.5	3.80	22	1	...
April	17.8	25.37	26.56	26.98	27.03	4.7	8.76	75.5	3.03	12	3	...
May	19.4	25.45	26.11	25.44	25.01	5.5	5.98	53.5	3.60	21	1	...
June	14.0	25.27	25.17	23.69	23.17	4.6	7.09	65.0	2.97	19	...	...
July	13.5	25.02	24.62	23.18	22.62	5.0	7.16	65.2	3.67	23	...	...
August	13.4	24.87	24.09	22.76	22.57	4.9	7.95	69.7	3.78	24	...	...
September	14.2	24.24	23.91	23.44	23.57	4.4	9.05	75.9	3.49	21	...	...
October	15.6	24.10	24.06	24.48	24.71	4.9	8.63	69.0	3.43	14	...	...
November	18.6	24.09	24.54	26.00	26.35	4.9	9.09	69.9	3.74	11	...	...
December	19.2	24.17	25.31	27.41	27.98	5.0	8.24	61.9	2.67	15	...	...
Year	17.0	24.77	25.32	25.58	25.57	5.2	7.79	64.6	3.48	230	9	...
Max.		25.8 May	26.7 Feb. March	28.9 Jan	30.0 Jan	...	12.8 Dec.11	96 Sept 1 Dec.11	14.1 March 21	28 Feb.	3 April	...
Min.	7.3 Aug.4	23.9 Nov.	23.9 Aug. Sept	22.6 Aug.	22.4 Aug.	...	0.0 often	...		11 Nov.	...	...

TABLE XVIII - MONTHLY AND YEARLY MEANS OF THE MAGNETIC ELEMENTS FOR 1940

Month	Declination (West)	Horizontal Force (C.G.S. Units)	Vertical Force (C.G.S. Units)	Total Force (C.G.S. Units)	Dip (South)	X	Y	Z	Mean of Daily Ranges: Declination	Horizontal Force	Vertical Force	HR$_h$: 10000	ZR$_z$: 10000
										Unit γ			
January	13°54.17	.22431	.29869	.37354	53°5.66	.21774	-.05390	.29869	8.92	59.1	31.2	132.5	93.2
February	13°54.68	.22430	.29864	.37349	53°5.45	.21774	-.05393	.29864	9.19	39.7	27.2	89.0	81.2
March	13°56.70	.22424	.29863	.37345	53°5.83	.21765	-.05398	.29863	9.01	47.2	27.9	105.8	83.4
April	13°56.78	.22401	.29873	.37339	53°8.08	.21691	-.05399	.29873	7.58	46.0	23.0	103.0	68.8
May	13°57.46	.22414	.29860	.37336	53°6.40	.21752	-.05406	.29860	6.32	48.3	21.4	108.2	63.9
June	13°58.01	.22412	.29862	.37337	53°6.66	.21749	-.05422	.29862	5.11	47.2	20.3	105.7	60.7
July	13°59.45	.22417	.29870	.37346	53°6.75	.21752	-.05420	.29870	5.37	41.2	20.3	92.3	60.8
August	14°00.45	.22428	.29881	.37362	53°6.54	.21761	-.05429	.29881	7.02	48.0	24.3	107.5	72.6
September	14°01.66	.22419	.29880	.37355	53°7.15	.21750	-.05434	.29880	8.33	54.5	31.1	122.1	93.0
October	14°02.18	.22416	.29889	.37361	53°7.75	.21746	-.05437	.29889	8.39	47.5	25.6	106.4	76.5
November	14°02.61	.22417	.29897	.37368	53°	.21747	-.05440	.29897	9.81	53.2	25.3	119.2	75.7
December	14°03.70	.22423	.29905	.37405	53°	.21751	-.05448	.29905	8.99	46.1	20.5	103.1	61.4
Year	13°58.90	.22419	.29876	.37355	53°6.90	.21751	-.05418	.29876	7.84	48.2	24.8	107.9	74.3