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NEW SERIES (MONTHLY) VOL. XXIII. PART 1. PRICE 0.75

ROYAL ALFRED OBSERVATORY, MAURITIUS.

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

JANUARY, 1937

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N. R. McCURDY, B.Sc., F.R. MET. SOC.
DIRECTOR

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PREFACE

Beginning with the year 1916 metric units have been employed in the work and publications of the Royal Alfred Observatory.

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 hoursbeing 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:

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

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° C.

(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 Anemobiagraph, 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, by means of tables based on Glaishers' "Hygrometrical Tables" and are not the means of twenty-four hourly values.

The amount of rainfall in column 15 refers to the Civil Day counting from 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 on the day on which it is measured. The evaporation, therefore, is that obtained during the 24 hours' interval beginning at 12h. on the previous day. In the column for weather the colons divide the day into intervals of three hours or multiples of three hours. From January 1934 the abbreviations used have the usual significations of Beaufort letters as given in the "Observers Handbook" 1926.

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

Pressure	—Atmospheric	1875—1930
Temperature	—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

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 / 360° } East = { 08 / 90° } South = { 16 / 180° } West = { 24 points / 270° 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 tables 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 responsibiliy 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.

(xi) Accounts of the tropical cyclones which occur in the Southern Indian Ocean are published every year in the Miscellaneous Publications of the Royal Alfred Observatory.

N. R. McCURDY,
Director.

January 1937.

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1937

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF JANUARY, 1937

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 1 γ)	Daily Range† Vertical Force (Unit 1 γ)	HRz : 10000	ZRz : 10000
JAN.	′			′				
1	...	·22494	·29731	...	13	44	29	131
2	...	503	728	...	35	33	79	98
3	...	493	731	..	47	37	106	110
4	...	485	732	...	60	22	135	65
5	...	497	734	...	24	14	54	42
6	...	506	735	...	32	20	72	59
7	...	502	735	...	133	27	299	80
8	...	457	743	...	55	32	124	95
9	13°16.9	480	735	8·0	62	23	139	68
10	17·4	485	738	10.0	86	19	193	56
11	17.4	475	737	6·7	31	16	70	48
12	17·3	488	731	16·2	48	54	108	160
13	17·5	479	734	6·8	33	24	74	71
14	16·9	491	730	12·0	40	28	90	83
15	18·3	492	731	7·8	31	28	70	83
16	17·2	493	727	12·3	15	34	34	101
17	17·8	506	721	15·5	27	57	61	169
18	17·7	502	723	15·5	29	36	65	107
19	17·8	501	721	12·3	23	40	52	119
20	17·3	501	722	10·3	66	31	148	92
21	17·8	496	724	10·0	73	42	164	125
22	16·8	487	729	7·3	53	21	119	62
23	17·3	491	727	8·5	37	28	83	83
24	17·4	498	730	7·0	41	17	92	50
25	16·8	506	722	11·0	55	31	124	92
26	17·1	505	722	13·7	48	39	108	116
27	16·2	510	723	18·0	128	30	288	59
28	17·8	460	732	13·0	36	39	81	116
29	16·7	476	736	15·5	51	40	115	119
30	18·5	484	727	16·0	62	52	139	154
31	18·4	487	728	16·7	27	32	61	95
Mean	13°17·40	·22491	·29730	11·74	48·4	31·9	108·9	94·8

Description of the Principal Magnetic Disturbances.

Declination.—Register missing from 1d. to 8d. 12h.
9d. second half to 11d. Slightly disturbed period of duration. Only minor pulsations on the trace at times.
26d. 11h 50m. Sharp negative wave (3.'5).
27d. Slightly disturbed between 9h and 20h.

Horizontal Force.— 2d. 13h 05m. Sudden commencement of a faintly disturbed period ending about midday on 3d.
7d. Second half and 8d. first half: disturbed. At 7d. 23h10—23·35 large positive wave of 50γ with only partial recovery.
9d. Second half: Slightly disturbed; commencement of a long but moderately disturbed period ending gradually on 11d.
10d. Early part: small rapid oscillations; one large positive oscillation at 2h 15m; at 13h 30m negative wave of 30γ.
12d. and first part of 13d. Slightly disturbed.
21d. and 22d. Slightly disturbed.
24d. Positive wave 20γ at 8h 15m.
26d Sharp increase (11γ) at 11h 50m.
27d. 12h 30m. Sudden commencement with an increase of 25γ of a moderately disturbed period ending gradually on 28d.
30d. 19h 10m. Sudden commencement with an increase of 27γ of a slightly disturbed period, ending gradually on 31d.

Vertical Force.— 2d. and 3d. Very slightly disturbed at times.
7d. second half and 8d. first half: disturbed. At 7d. 23h 15m positive wave (10γ).
9d. and 10d. disturbed: frequent oscillations in the trace: At 10d. 2h 15m. sharp positive wave (15γ).
12d. and first part of 13d. Slightly disturbed.
27d. Second half. Slightly disturbed.
30d. 19h to 31d. 4h. Slightly disturbed. At 30d. 19 10h 10m. Sharp positive wave (9γ).

T=·37279: Mean Dip=52° 53·53′: (X=·21899: Y=−·05170: Z=·29730).
† 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 1937.

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	° ′	
15·15.32	13·16·1	6· 8·50	·22521	19.15.13	52.52.38	·29705
19·15·02	13·13·6	9·11·57	·22507	26·14·25	52·50·25	·29701
22·14·58	13·13·6	20·11·27	·22532	29·13·08	52·52·50	·29718
26.14.33	13·11·0	23· 9·31	·22502			
29·14·17	13·06·5	27·11·12	·22565			
		30.11·29	·22502			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

JANUARY 1937

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	13° +																
Midnight	*	*	*	*	*	*	*	*	18·0	16·0	18·0	18·0	17·0	18·0	17·3	17·5	Midnight
1h	...	...	...	...	...	...	...	...	18·0	17·0	18·3	18·7	17·0	17·7	17·5	17·5	1h
2	...	...	...	...	...	...	...	...	18·3	18·3	17·0	16·0	18·0	18·0	18·0	18.0	2
3	...	...	...	...	...	...	...	...	18·3	17·7	17·3	17·0	18·5	18·5	18·5	18·2	3
4	...	...	...	...	...	...	...	...	19·0	18·5	18·0	18·5	19·0	19·0	18·5	18.7	4
5	...	...	...	...	...	...	...	...	19·7	20·0	19·5	20·0	19·7	19·7	19·0	19·0	5
6	...	...	...	...	...	...	...	...	21·0	22·0	20.3	21 0	20·3	20·3	19·3	20·7	6
7	...	...	...	...	...	...	...	...	20·5	23·0	20·7	23·0	20·0	20·7	21·0	22·3	7
8	...	...	...	...	...	...	...	...	20·0	23·0	20·5	24·7	19·5	20·3	22·7	21.5	8
9	...	...	...	...	...	...	...	...	19·5	21·7	19·0	24·5	19·0	20·5	23·5	21·7	9
10	...	...	...	...	...	...	...	...	18·7	19·0	17·7	22·0	18·3	20·5	21·7	22.0	10
11	...	...	...	...	...	...	...	...	16·5	16·0	15·0	18·0	16·5	17·0	19·7	17·0	11
Noon	...	...	...	...	...	...	...	18·0	15·0	13·7	14·0	11·0	14·3	13·0	17·0	13·0	Noon
13h	...	...	...	...	...	...	...	17·0	13·0	13·0	14·7	08·5	13·5	09·0	15·7	10·0	13h
14	...	...	...	...	...	...	...	16·5	13·0	13·0	16·0	10·0	14·0	08·7	16·2	10·0	14
15	...	...	...	...	...	...	...	16·5	15·0	15·7	16·7	12·0	15·7	10·7	16·3	12·0	15
16	...	...	...	...	...	...	...	16·3	15·5	14·7	16·0	14·0	16.8	13·7	16·7	14·0	16
17	...	...	...	...	...	...	...	16·0	14·5	15·5	16·0	16·5	18·3	14·5	17·0	16·0	17
18	...	...	...	...	...	...	...	16·3	14·5	16·0	16·5	16.7	18·0	18·0	17·0	17·3	18
19	...	...	...	...	...	...	...	15·7	14·7	18·0	16·7	17·0	17·5	17·3	17·0	17·0	19
20	...	...	...	...	...	...	...	15·5	14.5	16·7	17·0	18·3	17·0	17·5	17 0	17·3	20
21	...	...	...	...	...	...	...	16·2	15·5	16·5	17·3	17·5	17·3	17·5	17·3	17·3	21
22	...	...	...	...	...	...	...	17·0	16·3	17·0	17·7	17·0	17·5	17·7	17·5	17.5	22
23	...	...	...	...	...	...	...	17·5	17·0	17·3	17·7	17 0	17·5	17·8	17·7	17·7	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d	31d	Mean	Day. / Hour.
	13° +																
Midnight	17·7	17·3	17·0	17·3	19·0	19·5	17·5	17·5	17·7	17·7	17·5	18·5	19·0	18·3	18·0	17·8	Midnight
1h	17·5	16·7	16·7	17·0	18·0	16·5	17·5	18·3	18·0	18·0	17·5	18·5	18·5	18·0	17·5	17·6	1h
2	17·7	16·5	16·7	16·7	17·5	16·7	17·7	18·5	18·2	18·2	18·3	17·5	19·0	17·8	18·0	17·7	2
3	17·8	16·7	17·2	17·0	17·5	17·5	17·7	18·5	18·5	18·5	18·5	18·0	19·5	18·5	18·5	18·0	3
4	18·4	17·5	17·7	17·7	18·3	18·2	18·0	19·0	18·5	18·5	19·0	18·3	20·0	19·0	19·5	18·6	4
5	19·0	18·7	18·5	18·3	19·5	18·0	18·3	19·3	19·3	18·7	19·5	19·0	20·5	20·0	20·0	19·3	5
6	20·0	20·0	18·7	19·3	20·0	19·5	19·0	19·5	20·0	20·0	20·0	20·0	20·0	23·5	20·3	20·2	6
7	22·5	24·0	20·5	20·7	22·0	20·0	20·0	19·3	20·5	23·0	21·5	21·7	20·0	24·5	21·5	21·4	7
8	24·5	26·5	22·7	22·0	22·5	20·0	21·2	19·5	20·5	23·7	22·5	22·0	21·5	26·5	23·7	22·2	8
9	26·5	27·0	25·0	22·3	23·0	20·3	22·0	20·0	21·0	22·5	22·0	23·0	21·0	26·0	26·7	22·5	9
10	25·5	24·0	24·5	21·5	23·3	19·7	21·5	20·5	18·5	19·5	17·0	22·0	10·5	24·0	26·5	21·1	10
11	21·0	18·0	20.0	20·0	20.0	18·0	19·0	19·0	13·0	16·0	13·0	19·0	13·0	20·0	22·5	17·7	11
Noon	15·0	14·0	16·5	16·5	16·5	15·0	17·0	17·0	10·0	10·0	09·0	15·0	09·0	16·0	19·0	14·2	Noon
13h	11·5	11·5	15·5	14·0	13·5	13·3	14·3	16·0	10·0	10·7	04·5	11·0	06·5	12·0	14·0	12·0	13h
14	11·5	12·5	15·5	13·0	13·5	13·0	14·2	14·7	10·0	10·5	06·0	10·0	06.0	10·5	10·7	11·9	14
15	11·0	13·0	14·0	12·7	13·0	13·3	13·5	13·5	11·0	12·0	07·0	11·0	09·0	11·5	10·0	12·5	15
16	12·5	12·8	12·7	12·0	12·3	13·5	14·0	13·5	12·7	14·3	10·5	14·0	12·0	13·5	12·0	13·6	16
17	15·0	16·0	14·0	13·0	12·5	13·5	14·5	14·3	15·0	16·5	17·0	17·0	18·0	16·5	16·5	15·6	17
18	16·5	16·7	16·0	15·0	14·0	14·7	15·3	15·0	16·0	16·7	18·5	18·5	19·7	17·7	18·5	16·6	18
19	17·0	17·0	16·7	16·7	16·5	15·5	16·0	16·5	18·7	16·7	17·0	18·0	18·5	18·0	18·0	17·0	19
20	17·0	17·0	16·5	16·7	16·5	16·3	16·0	16·5	18·5	16·7	17·5	18·3	18·2	18·3	18·0	17·1	20
21	17·0	17·5	17·3	17·5	19·0	16·7	16.7	16·7	18·5	17·0	18·0	18.5	18·3	18·0	18·0	17·4	21
22	17·2	17·5	18·0	18·7	18·7	17·0	16·7	17·0	19·0	17·0	18·0	19·3	18·4	18·7	18·0	17.7	22
23	17·5	17·3	18·0	19·0	20·3	17·7	17·0	17·0	19·3	17·2	18·3	19·0	18·2	17·3	17·5	17·8	23

* New Suspension; Register restarted at 8d 12h.

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 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. \ Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	488	490	489	485	489	503	506	445	471	500	461	470	490	480	485	487	Midnight
1h	490	492	483	484	491	503	507	438	472	475	475	472	491	483	484	487	1h
2	490	493	483	485	492	502	509	430	472	480	485	490	483	482	487	490	2
3	490	494	495	485	492	503	511	423	473	497	480	485	495	481	487	492	3
4	495	496	490	488	491	502	510	427	475	495	477	480	490	480	487	493	4
5	495	500	490	485	492	502	507	440	481	483	483	488	482	480	487	495	5
6	496	507	492	492	495	504	512	455	487	497	486	489	477	481	490	492	6
7	500	512	500	500	505	510	530	460	486	507	482	490	472	478	495	489	7
8	499	518	514	506	510	517	541	468	485	511	482	486	476	485	498	495	8
9	492	525	520	507	512	523	542	475	485	522	484	490	475	500	500	499	9
10	495	525	525	510	513	529	550	478	508	533	488	509	481	520	510	499	10
11	497	515	525	495	510	520	530	473	512	525	487	515	487	515	513	497	11
Noon	493	514	515	480	502	517	507	462	505	517	477	508	490	506	507	490	Noon
13h	487	510	495	460	488	500	493	459	480	503	467	504	480	505	495	487	13h
14	494	513	485	450	490	497	490	452	472	482	467	499	483	504	490	488	14
15	498	507	480	455	490	497	507	453	450	477	464	504	472	505	485	493	15
16	495	500	478	470	491	500	509	458	465	465	464	490	458	497	482	500	16
17	494	497	480	480	491	503	510	463	472	460	469	488	465	490	485	502	17
18	497	502	483	487	492	507	510	467	475	447	472	485	467	485	491	497	18
19	493	498	480	490	495	504	505	467	475	450	465	470	475	483	491	493	19
20	492	494	482	487	495	502	490	466	479	455	457	467	477	482	489	493	20
21	493	493	483	486	496	503	460	466	477	457	468	470	479	481	487	492	21
22	492	492	484	490	497	503	435	467	470	463	473	480	478	482	487	491	22
23	494	490	485	487	497	503	417	465	477	465	475	483	477	485	489	490	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d	31d	Mean	Day. \ Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	493	503	500	495	472	468	483	489	489	495	500	458	449	471	473	483·1	Midnight
1h	495	501	500	495	480	480	480	489	491	497	501	453	455	470	477	483·6	1h
2	497	500	501	497	491	480	481	490	497	499	501	462	455	471	480	485·6	2
3	499	503	501	497	497	470	482	489	493	499	500	465	460	477	483	487·0	3
4	499	502	502	494	492	478	483	489	492	499	500	466	457	478	490	487·0	4
5	499	503	505	500	498	480	482	490	490	498	500	469	460	481	490	488.2	5
6	500	505	510	507	497	485	485	495	492	499	499	474	465	485	492	491·7	6
7	507	507	513	517	500	495	493	510	497	500	505	476	471	487	497	496·5	7
8	513	509	511	517	499	515	497	520	502	500	523	477	473	491	496	501·2	8
9	520	517	498	515	510	517	498	528	507	507	540	470	480	488	500	504·7	9
10	519	519	510	529	530	516	508	520	523	518	569	462	489	492	500	512·2	10
11	509	513	512	538	538	510	517	523	541	523	572	463	499	492	483	511·3	11
Noon	502	505	509	531	530	507	507	508	546	538	568	456	495	490	475	505·1	Noon
13h	500	497	501	520	520	490	500	500	540	527	585	461	495	500	473	497·5	13h
14	500	493	493	505	515	482	497	500	533	520	545	462	500	509	478	493·2	14
15	515	490	491	499	500	469	490	500	525	510	525	470	497	512	483	490·7	15
16	515	493	492	505	483	465	490	493	517	500	500	465	493	510	491	488·2	16
17	513	498	500	507	481	470	495	493	507	490	487	452	486	497	491	487·6	17
18	511	500	502	500	482	479	490	492	497	493	499	441	480	487	489	487·3	18
19	511	498	497	480	485	481	486	490	495	497	483	443	475	485	488	484·8	19
20	510	497	494	473	486	482	485	489	493	500	468	446	473	463	485	482·3	20
21	505	495	492	476	470	482	487	487	495	500	463	450	472	450	485	480·6	21
22	503	499	491	475	475	481	489	487	494	499	465	451	471	467	485	481·2	22
23	507	501	490	472	465	484	488	489	493	499	457	447	470	468	487	480·5	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 1937

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000 + (C.G.S. UNIT.)																
Midnight	738	737	739	738	736	739	737	749	740	737	741	740	737	737	734	733	Midnight
1h	739	736	739	739	736	739	737	751	740	740	743	740	736	735	734	732	1h
2	739	735	737	738	737	739	738	753	740	741	739	739	737	734	733	732	2
3	739	735	737	738	737	739	739	755	741	739	739	737	737	735	733	731	3
4	738	735	738	738	737	740	739	756	742	740	740	740	736	735	732	731	4
5	739	736	737	738	738	740	739	755	743	742	741	741	739	736	732	731	5
6	741	727	739	739	738	741	742	756	743	747	742	743	741	737	734	736	6
7	744	736	740	739	735	743	741	759	741	745	743	748	741	737	737	740	7
8	748	733	736	736	735	742	736	757	740	741	741	746	740	735	742	737	8
9	749	731	739	737	733	741	732	752	739	740	740	741	737	732	745	731	9
10	745	729	735	732	736	741	731	743	730	734	735	724	733	731	738	721	10
11	727	722	724	730	733	740	727	738	722	728	731	705	722	723	723	711	11
Noon	709	704	709	723	728	732	725	730	720	730	727	694	717	713	717	706	Noon
13h	705	707	703	717	725	725	725	727	723	731	731	698	722	709	719	707	13h
14	706	710	709	721	730	725	728	729	730	731	733	711	724	709	721	706	14
15	711	717	714	721	733	723	729	731	735	731	734	722	730	718	723	720	15
16	714	721	725	723	732	723	729	731	736	734	732	729	735	728	728	725	16
17	722	724	733	727	730	727	727	731	733	739	731	731	739	737	729	730	17
18	727	727	734	730	731	730	729	733	732	741	735	728	737	737	727	731	18
19	729	730	733	731	735	732	731	733	734	742	736	730	734	734	727	730	19
20	731	731	732	731	733	733	735	736	734	741	739	737	734	734	729	730	20
21	733	733	735	734	735	734	740	739	735	741	740	737	736	735	731	731	21
22	735	735	736	736	737	736	748	741	739	742	741	737	737	735	733	732	22
23	736	737	738	736	739	736	752	741	739	742	741	737	738	734	733	733	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d	Mean	Day. / Hour.
	·29000 + (C.G.S. UNIT.)																
Midnight	732	728	729	729	733	732	730	729	729	727	726	732	737	736	735	734·7	Midnight
1h	731	727	729	729	732	730	730	729	729	726	726	732	736	733	733	734·5	1
2	730	728	729	728	731	731	731	730	729	726	726	731	736	732	732	734·2	2
3	730	729	729	729	731	734	731	730	729	727	726	732	737	732	732	734·5	3
4	730	729	729	730	733	735	732	731	729	727	727	732	737	732	731	734·9	4
5	730	729	729	729	733	735	732	731	731	729	728	734	739	733	731	735·5	5
6	731	731	728	731	733	737	735	732	731	731	730	738	736	738	732	736·8	6
7	739	740	731	733	737	736	738	732	731	738	731	740	737	747	727	738·9	7
8	740	741	733	734	738	732	741	739	728	739	733	740	745	751	743	739·5	8
9	741	740	738	730	735	731	741	737	727	736	726	742	747	746	741	737·8	9
10	736	725	726	723	728	732	734	739	713	717	710	737	740	733	736	731·2	10
11	714	710	703	711	711	723	721	735	701	710	707	729	723	713	727	720·8	11
Noon	689	705	698	705	701	716	716	732	700	703	708	719	719	701	713	713·2	Noon
13h	684	710	701	703	696	716	713	730	706	700	706	703	712	699	711	711.7	13h
14	691	712	707	707	699	721	714	723	711	701	703	714	725	699	711	714.9	14
15	697	711	703	706	702	725	713	723	711	708	705	720	731	703	715	718·2	15
16	706	707	704	706	707	727	716	722	713	712	721	729	743	712	722	722·3	16
17	703	706	711	712	715	729	721	722	719	720	732	737	752	721	731	726·5	17
18	721	711	720	719	723	729	722	723	722	722	733	737	747	726	732	728·9	18
19	722	718	723	724	727	731	727	728	724	723	729	735	739	729	730	730·0	19
20	722	721	724	727	727	731	728	728	725	723	730	736	737	730	729	730·9	20
21	724	727	726	730	731	731	729	729	725	726	731	737	737	733	730	732·7	21
22	727	728	728	731	732	731	729	729	727	726	731	738	737	737	731	734·3	22
23	728	729	729	733	736	731	729	729	728	727	733	737	737	735	731	735·0	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 1937.

Month and day 1937.	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	964·7	25·4	3·5	19·4	69	22·3	60	4·5	6	20·8	23·7	26·9	22·0	27·6	20·7	6·9	0·8	24	4·0	30
2	963·3	26·3	5·2	17·5	58	19·8	70	2·2	9	21·6	25·0	25·5	22·0	27·6	21·2	6·4	5·3	101	4·8	36
3	963·6	25·4	3·1	20·1	73	23·3	85	5·4	6	20·8	24·6	27·0	21·2	27·3	19·7	7·6	0.0	0	11·4	86
4	963·1	24·9	3·7	18·5	68	21·1	80	5·4	8	20·6	23·6	23·5	21·3	26·1	20·3	5·8	2·9	25	6·8	52
5	962·5	24·5	2·5	19·7	77	22·7	70	5·8	9	20·6	23.9	25·4	21·0	27·4	20·5	6·9	1·7	12	10.0	76
6	964.6	25·8	4·2	18·6	64	21·2	55	4·9	7	21·0	25·0	25·9	23·0	27·6	20·7	6·9	0·9	11	9·5	72
7	962·3	25·5	2·9	20·6	74	24·0	70	8·1	8	22·1	24·5	27·0	23·0	27·4	22·1	5·3	0·0	0	6·9	52
8	961·7	24·0	0·7	22·8	93	27·5	70	8·9	9	22·2	24·7	24·1	22·8	25·0	22·0	3·0	5·0	45	5·5	42
9	960·9	23·9	1·6	21·1	84	24·8	70	8·9	9	21·9	22·0	23·7	22·9	25·0	21·1	3·9	13·2	127	4·4	33
10	957·6	22·9	0·7	21·7	93	25·7	70	9·4	10	21·0	21·8	22·4	21·0	24·0	20·8	3·2	41·6	230	3·4	26
11	954·8	23·7	1·0	22·0	90	26·2	70	7·2	10	21·0	22·0	25·8	24·0	27·0	20·9	6·1	16·8	340	2·0	15
12	955·6	21·3	0·0	21·3	100	25·1	320	4·0	10	24·0	22·5	23·7	23·5	24·1	21·3	2·8	28·9	328	0·0	0
13	951·8	23·3	0·5	22·4	95	26·8	340	13·0	10	23·5	23·4	23·3	23·2	23·7	23·1	0·6	58·9	394	0·0	0
14	950·5	22·2	0·0	22·2	100	26·5	340	9·4	10	23·3	23·5	23·4	23·0	23·8	22·2	1·6	115·6	347	0·1	1
15	958·8	25·0	1·7	23·1	84	26·3	245	7·6	9	22·9	22·8	26.0	23·0	26·6	21·5	5·1	13·0	34	8·9	67
16	963·6	25·2	2·9	29·3	74	23·6	Calm		10	19·4	25·0	25·0	21·8	25·9	18·0	7·9	0·5	14	4·9	37
17	964·3	24·7	4·3	17·3	64	19·6	110	3·6	2	20·7	22·7	25·3	20·8	25·8	19·6	6·2	1·3	15	10·9	83
18	964·4	24·7	3·6	18·5	68	21·1	90	2.2	6	19·0	23·9	25·1	21·3	20·7	18·1	6·6	0·0	0	7·7	59
19	964·5	22·9	2·2	19·0	79	21·8	145	2·7	9	20·3	21·1	25·0	21·8	25·9	19·8	6·1	14·4	151	5·7	44
20	965·1	24·2	2·9	19·2	74	22·0	110	6·3	8	21·8	23·7	24·4	21·7	26·5	20·7	5·8	0·8	5	7·7	59
21	966·6	25·2	3·4	19.4	70	22·3	90	4·0	7	20·8	23·8	26·3	21·8	26·8	20·3	6·5	0·0	0	11·6	89
22	967·2	24·6	3·2	19·1	71	21·9	95	2·2	7	21·1	23·7	26·1	22·0	27·1	20·5	6·6	5·3	40	11·4	87
23	966·3	24·6	3·1	19·3	73	22·2	90	4·0	9	21·0	23·0	25·5	21·3	26·5	20.5	6·0	1.0	12	6·2	47
24	965·7	24·6	2·8	19·8	75	22·9	80	4·9	7	21·1	32·9	26·5	21·0	27·1	20·5	6·6	7·0	87	9·1	69
25	965·3	23·2	1·4	20·8	86	24·3	70	4·5	10	19·9	23·0	25·0	21·7	26·6	19·7	6·9	6·9	81	4·0	31
26	965·1	25·4	2·5	21·1	77	24·8	Calm		8	21·3	24·2	25·5	22·6	27·6	21·0	6·6	0·0	0	3·6	28
27	965·2	26·2	3·6	20·1	69	23·3	Calm		8	19·9	25·9	27·9	23·7	29·4	18·3	11·1	1·9	23	5·9	45
28	967·4	25·4	2·0	22·0	82	26·2	04	0·9	10	23·0	24·2	21·7	23·0	26·7	21·6	5·1	105·7	164	2·4	18
29	967·9	25·6	2·3	21·7	79	25·7	Calm		9	22·9	25·0	27·4	23·5	28·7	22·5	6·2	0·0	0	8·5	65
30	967·6	25·8	3·8	19·1	67	21·9	70	4·0	8	22·6	23·9	27·4	22·6	28·3	21·8	6·5	1·9	4	8·4	65
31	967·6	24·7	2·2	20·9	79	24·5	90	5·4	8	22·1	24·4	27·0	22·7	27·5	21·9	5·6	2·0	13	9·3	72
Mean	962·6	24.5	2·5	20·2	77·7	23·6	...	4·8	8·2	21·4	23·7	25·3	22·3	26·6	20·7	5·7	451·8	2627	6·29	47·9
Average	964·2	24·8	2·3	20·8	79·2	24·6	...	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	+	41·3mbs.	Amount of rain	—	194·7mms.
Temperature of the Air	+	2·9°C	Duration of sunshine	+	57·9hrs.
Vapour Pressure	+	2·4mbs.	Mean of maximum temperatures	+	2·2°C
Relative Humidity	—	5·7%	,, minimum temperatures	+	2·0°C
Velocity of Wind	—	0·2mps.	Absolute maximum temperature	+	0·6°C
Amount of Cloud	—	0·6	,, minimum temperature	+	1·3°C

Greatest Rainfall intensity at Vacoas. 42·0 mms. in 25 minutes.

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of JANUARY 1937.

Month and Day 1937.	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 (Saturation=100). Mean	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration	Amount of Evaporation.	Mean Amount of Cloud (Scale 0–10)
JAN.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C			mbs.	°C	mms.	min	mms.	
1	1005·2	− 1·2	29·3	22·3	7·0	25·7	0·0	2·8	20·9	+ 0·3	75	+ 1	24·5	20·9	0·0	...	8·1	5·5
2	1004·1	− 2·2	29·2	22·9	6·3	25·5	− 0·2	2·5	21·2	+ 0·6	77	+ 3	24·9	21·3	1·4	25	6·9	7·9
3	1004·1	− 2·2	28·2	22·4	5·8	25·2	− 0·5	2·9	20·3	− 0·3	74	0	23·6	21·2	0·0	...	7·3	4·2
4	1003·7	− 2·5	28·5	22·1	6·4	24·8	− 1·0	2·5	20·5	− 0·2	77	+ 3	23·9	20·5	0·3	15	6·6	6·1
5	1002·8	− 3·4	28·3	23·0	5·3	25·1	− 0·7	2·7	20·5	− 0·4	76	+ 2	23·9	22·0	1·3	30	7·0	6·0
6	1002·7	− 3·4	29·0	22·8	6·2	25·8	0·0	2·5	21·5	+ 0·6	77	+ 3	25·4	21·0	1·2	15	7·7	5·6
7	1002·4	− 3·6	29·3	24·4	4·9	26·4	+ 0·6	2·6	22·0	+ 1·1	77	+ 2	26·2	23·4	0·2	5	6·8	6·8
8	1001·9	− 4·0	28·1	23·2	4·9	25·8	0·0	2·1	22·2	+ 1·2	81	+ 6	26·5	23·6	9·7	90	6·6	7·8
9	1002·3	− 5·6	27·6	22·3	5·3	25·0	− 0·8	1·6	22·3	+ 1·3	85	+ 10	26·7	21·8	36.0	145	6·8	8·9
10	997·1	− 8·7	28·0	22·8	5·2	25·5	− 0·9	1·7	22·1	+ 1·0	84	+ 9	26·3	21·8	21·2	95	7·9	9·1
11	994·9	−10.8	29·2	22·8	6·4	25·8	− 0·1	1·2	23·8	+ 2·5	89	+ 14	29·2	22·0	7·8	105	3·6	8·8
12	995·5	−10·1	28·1	23·7	4·4	25·6	− 0·3	0.9	24·1	+ 2·8	91	+ 15	29·7	23·7	16·3	175	2·3	10·0
13	992·0	−13·5	26·2	25·1	1·1	25·1	− 0·1	0·9	24·3	+ 3·0	92	+ 16	30·1	24·6	13·1	205	3·5	9·9
14	992·2	−13·2	27·9	24·5	3·4	25·8	− 0·1	0·6	24·8	+ 3·5	94	+ 18	31·0	24·0	83·5	270	3·5	9·9
15	999·4	− 6.0	29·2	23·1	6·1	26·4	+ 0·5	1·6	23·7	+ 2·4	85	+ 9	29·0	23·1	3·1	40	3·6	6·5
16	1004·5	− 0·8	30·0	21·0	9·0	24·6	− 1·3	1·9	21·3	− 0·2	82	+ 6	25·1	18·9	4·2	100	6·9	5·9
17	1005·2	− 0·1	28·8	21·2	7·6	24·6	− 1·3	3·1	19·3	− 2·2	73	− 3	22·2	20·4	0·0	..	4·5	3·4
18	1004·9	− 0·2	28·6	19·3	9·3	24·3	− 1·6	2·6	19·8	− 1·7	76	− 1	22·9	16·8	0·0	...	4·7	4·2
19	1004·9	− 0·1	28·9	21·2	7·7	25·0	− 1·0	2·2	21·3	− 0·3	80	+ 3	25·1	19·0	1·2	10	4·1	6·2
20	1006·2	+ 1·3	28·2	23·1	5.1	25·2	− 0·8	2·4	21·1	− 0·5	78	+ 1	24·8	21.6	0·0	...	6·2	5·1
21	1007·7	+ 2·8	28.3	22·3	6.0	25·2	− 0·8	2·9	20·3	− 1·3	75	− 2	23·6	20·7	0·0	...	6·6	3·2
22	1007·5	+ 2·7	28·2	22·6	5·6	25·0	− 1·0	2·3	21·1	− 0·5	79	+ 2	24·8	20·8	1·2	25	7·5	5·5
23	1007·0	+ 2·2	28·8	22·3	6·5	25·1	− 0·9	2·7	20·5	− 1·1	76	− 1	23·9	20·9	0·9	50	7·2	4·0
24	1006·3	+ 1·6	28·8	22·9	5·9	25·1	− 0·9	2·2	21·4	− 0·4	80	+ 3	25·2	21·2	3·4	90	7·0	7·5
25	1005·8	+ 1·1	28·3	22·5	5·8	24·9	− 1·1	1·8	21·8	0·0	83	+ 6	25·9	21·0	6·1	70	5·8	8·5
26	1005·7	+ 1·1	30·7	22·8	7·9	26·2	+ 0·2	1·9	23·0	+ 1·2	83	+ 6	27·8	21·0	0·0	...	7·0	6·6
27	1006·4	+ 1·8	31·0	21·4	9·6	26·1	+ 0·1	2·2	22·4	+ 0·6	80	+ 3	26·8	19.5	0·0	...	6·9	6·0
28	1008·4	+ 3·8	30·1	24.0	6·1	25·8	− 0·2	1.2	23·8	+ 2·0	89	+ 12	29·2	22·0	39·2	110	6·8	6·8
29	1009·4	+ 4·9	29·2	23·4	5·8	26·1	+ 0·2	2·1	22·6	+ 1·0	81	+ 4	27·1	22·2	0·0	...	6·7	5·8
30	1008·5	+ 4·0	29·1	23·4	5·7	25·7	− 0·2	2·1	22·1	+ 0·5	80	+ 2	26·3	22.2	4·7	55	6·0	7·1
31	1008·5	+ 4·0	28·7	23·1	5·6	25·6	− 0·3	2·1	22·0	+ 0·4	81	+ 3	26·2	21·9	1·1	25	7·4	6·3
Mean	1003·4	− 1·9	28·8	22·7	6·1	25·4	− 0·5	2·1	21·9	+ 0·6	81·0	+ 5·0	26·1	21·4	Sum 257·1	Sum 1750	6·1	6·6
Aver.	1005·3	...	29·8	22·6	7·2	25·9	...	2·7	21·3	...	76·0	...	25·1	20·4	215·4	1959	5·9	6·2
column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

GENERAL WEATHER CONDITIONS DURING THE MONTH OF JANUARY 1937.

Two cyclonic disturbances, which closely followed one another, affected the weather conditions during the first half of the month. A cyclone of small intensity formed north of Mauritius in lat. 16° S. on the 9th. It moved S. S. W. recurved on the 10th and on the 11th passed 100 miles to the East of the island on a S. E. course.

A second cyclone, which originated in the Mozambique Channel on the 6th and reformed after crossing Madagascar, passed between Reunion and Mauritius on the 13th and moved away S. S. E. Weak at first, it was of moderate intensity from the 12th.

Pressure was consequently very low during this period, it rapidly recovered however and from the 20th to the end of the month remained steadily above normal.

Temperature was, with few exceptions, generally below normal.

Humidity was frequently considerably above average; it was normal or slightly below on five days only during the month.

Wind Velocity was above average during the disturbed period due to cyclones. It was below normal during the second half of the month.

Rainfall was to a small extent above normal, but with 10% shortage in duration.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of JANUARY 1937.

Month and Day 1937.	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
JANUARY	hrs.	%	mp.s.	mp.s.	°C.	°C.	°C.	°C.	0h. 3h. 6h. 9h. 12h. 15h. 18h. 21h. 24h
1	10·2	77	2·9	− 0·4	24·2	26·2	27·7	28·3	b : bc : c : bc .
2	7·8	59	2·6	− 0·7	24·3	26·1	28·0	28·6	cr_0 c : bc : c .
3	11·3	85	3·3	0·0	24·3	26·1	27·9	28·5	bc : b .
4	9·8	74	3·7	+ 0·4	24·3	26·2	28·0	28·5	b : bc : c : cr_0 : bc
5	10·1	77	3·8	+ 0·4	24·3	26·1	27·9	28·5	cr_0 : bcr_0 . c . bc : b .
6	10·6	80	4·0	+ 0·6	24·3	26·2	28·0	28·4	b : bc : cq_0 : cr_0 : bcq : bcr_0 .
7	9·5	72	5·2	+ 1·8	24·2	26·2	28·0	28·5	cr_0 : cq :: c cq : b .
8	9·4	71	5·9	+ 2·5	24·3	26·2	28·0	28·5	bc : c : cqr_0 : cq : or_0r_0 : orr .
9	7·9	60	6·3	+ 2·9	24·3	26·2	28·0	28·2	orr : cqrr : cqr_0 : or_0r_0 .
10	6·9	52	6·3	+ 2·9	24·3	26·2	27·9	27·8	oqrrr : cqrr : cq : cqr_0 : c r_0 r_0 .
11	3·6	27	3·5	+ 0·1	24·4	26·2	27·9	27·4	or_0r_0 : c : ogr : cr_0 : or_0 .
12	0·1	1	4·4	+ 1·0	24·3	26·3	27·8	28·0	orr : o : or_0r_0 : o .
13	0·0	0	8·0	+ 4·6	24·3	26·3	27·8	27·3	o : oRR : o : o l .
14	0·2	2	6·8	+ 3·4	24·6	26·6	27·7	26·6	oRRl : oRRtsm: oRR : orr : o : or_0r_0l: o .
15	10·6	80	4·2	+ 0·8	24·4	26·4	27·5	27·1	or_0r_0 : bc : c : bc .
16	7·0	53	1·9	− 1·5	24·3	26·5	27·4	27·8	b : bbc : or_0r_0 : bc : c .
17	7·6	58	2·8	− 0·6	24·4	26·6	27·5	27·9	b : bc : b .
18	7·2	55	1·7	− 1·7	24·6	26·4	27·4	27·5	b : bc : c b .
19	7·5	57	2·8	− 0·6	24·5	26·4	27·6	27·8	b : bc : c : bc : c : cr_0 .
20	11·5	88	4·0	+ 0·6	24·4	26·4	27·5	27·9	bc : c : bc .
21	12·3	94	3·4	0·0	24·6	26·4	27·5	28·1	b : bc : : b .
22	11·4	87	2·9	− 0·5	24·8	26·6	27·8	28·2	bcr_0 c : : bc : b .
23	10·9	83	2·7	− 0·7	24·6	26·4	27·8	28·3	b : bcr_0 : bc .
24	10·4	79	3·5	+ 0·1	24·6	26·4	27·8	28·3	cd_0 c : bc : o r_0r_0 .
25	5·9	45	3·3	− 0·1	24·6	26·4	27·8	28·3	c : cr_0r_0 . c : cr_0 : : cr .
26	9·7	75	1·5	− 1·9	24·6	26·3	27·9	28·2	c : bc : c : bc .
27	7·6	58	1·6	− 1·8	24·6	26·3	28·0	28·6	bc : b : c : bc .
28	5·2	40	2·0	− 1·4	24·5	26·4	28·1	28·8	bc : cr_0 : ogRRtsm: or_0 : bc .
29	9·2	71	2·3	− 1·1	24·5	26·4	28·2	28·5	bc : c : bc : b .
30	10·3	79	2·8	− 0·6	24·6	26·4	28·3	28·5	o : crr : c : bc : b .
31	11·3	87	3·2	− 0·2	24·9	26·4	28·2	28·9	cr_0r_0 : bcr_0 : bc : c bc .
Mean	8·16	62·1	3·65	+0·26	24·45	26·34	27·84	28·12	.....
Average	7·73	58·8	3·39	...	24·84	26·36	28·02	27·51	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF JANUARY 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1010·3mbs.	at 21·00hrs.	on 29th	989·6mbs.	at 17·00hrs. / 03·00hrs.	on 13th / on 14th
Temperature of the Air	31·0°C	at 12·50hrs.	on 27th	19·3°C	at 05·50hrs.	on 18th
Daily range of temperature of the Air ...	9·6°C	...	on 27th	1·1°C	...	on 13th
Temperature of the Dew Point	25·9°C	at 14·00hrs.	on 11th	17·0°C	at 06·00hrs.	on 18th
Daily range of temperature of the Dew Point	4·3°C	...	on 11th & 18th	15·0°C	...	on 14th
Minimum on Grass	...	...	...	16·8°C	...	on 18th
Relative humidity	100%	at 03·00hrs.	on 14th	57·1%	at 13·00hrs	on 3rd
Vapour Pressure	33.1mbs.	at 14.00hrs.	on 11th	19·2mbs.	at 06·00hrs.	on 18th
Evaporation in 24 hours	8·1mms.	...	on 1st	2·3mms.	...	on 12th
Wind Velocity	11·0m.p.s	at 21·00hrs.	on 13th	0.6m.p.s.	at 08·00hrs.	on 16th
Rainfall in 24 hours	88.5mms.	ending 09hrs.	on 14th	...	...	...
Duration of sunshine	12·3hrs.	...	on 21st	0 ohr.	...	on 13th

Mean Day Temperature of Air, 26·97°C Average 27·74°C. Mean Night Temperature of Air 23·90°C. Average 23·98°C.

NUMBER OF DAYS OF:—

Mean Cloud Amount: 0	1 — 3	4 — 6	7 — 9	10	Rainfall: 0.1 — 0.9 mms.	1.0 — 4.9 mms.	5.0 — 9.9 mms.	10.0 — 24.9 mms.	25.0 and over mms.	Lightning	Thunderstorm
...	2	15	11	3	3	10	3	3	3	2	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.)

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The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
Midnight	060	056	042	050	041	030	033	026	030	986	963	960	954	901	960	030	Midnight
1	058	049	035	043	037	026	030	020	021	981	951	954	950	899	957	028	1h
2	053	041	031	035	031	021	022	014	017	975	947	945	944	897	954	026	2
3	050	040	031	031	023	019	017	014	011	976	943	948	939	896	956	026	3
4	050	040	033	030	021	020	016	011	011	970	940	951	934	900	960	030	4
5	053	041	036	031	025	021	020	014	011	973	940	953	934	900	970	033	5
6	057	044	041	034	031	030	023	020	017	981	950	961	939	905	980	041	6
7	060	044	050	039	036	031	031	022	018	986	956	969	937	917	988	044	7
8	060	045	049	040	040	034	033	027	020	986	955	971	937	921	991	050	8
9	060	045	047	040	040	032	038	030	017	982	954	970	927	920	996	050	9
10	058	043	044	040	040	033	030	027	016	981	954	964	924	920	998	049	10
11	054	043	041	040	038	031	030	026	011	978	953	958	921	921	996	048	11
Noon	051	039	040	040	030	029	028	021	009	974	950	954	917	920	994	048	Noon
13h	048	034	039	035	023	022	020	016	998	967	951	954	911	919	993	048	13h
14	039	028	034	031	018	016	014	010	990	960	948	950	899	918	993	045	14
15	036	026	031	027	011	012	011	006	980	954	940	940	896	917	995	042	15
16	034	026	030	024	010	011	011	000	978	951	939	940	897	917	997	043	16
17	040	031	030	028	012	017	013	006	980	959	938	941	896	920	001	046	17
18	045	039	040	033	018	021	013	010	986	961	939	945	907	926	011	049	18
19	050	045	047	041	027	031	020	019	987	962	942	951	910	936	020	055	19
20	051	050	050	043	029	036	026	124	990	961	949	960	905	947	027	058	20
21	056	050	050	042	030	036	030	032	995	968	956	960	901	953	031	060	21
22	058	051	051	046	031	037	032	034	000	970	960	962	910	960	031	061	22
23	060	051	051	048	032	039	031	032	995	970	958	961	910	961	032	060	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d	Mean	Day. / Hour.
Midnight	055	060	051	056	078	089	081	073	069	066	061	080	091	095	083	1003·9	Midnight
1h	050	050	047	051	074	081	080	066	062	060	060	075	090	090	080	1003·4	1h
2	048	048	042	047	071	074	071	061	055	058	053	073	090	087	080	1002·9	2
3	049	042	040	047	069	070	070	054	051	058	051	071	090	083	080	1002·7	3
4	050	041	042	048	068	069	067	056	054	051	051	071	091	086	079	1002·7	4
5	051	046	048	052	070	070	069	060	056	050	051	072	090	090	081	1002·9	5
6	059	050	053	061	075	075	071	061	058	051	060	081	090	091	087	1003·5	6
7	060	056	058	067	080	079	071	069	059	062	063	088	093	097	091	1003·9	7
8	060	059	060	066	081	081	076	070	061	068	065	086	099	094	093	1004·1	8
9	060	059	057	067	081	081	074	071	063	068	067	088	097	091	091	1004·1	9
10	058	056	053	070	080	080	071	070	061	064	067	089	099	091	091	1003·9	10
11	053	052	050	066	076	079	071	067	060	061	066	089	098	090	090	1003·7	11
Noon	048	050	045	061	073	074	070	062	056	059	065	087	094	081	085	1003·4	Noon
13h	045	045	041	057	072	070	069	061	053	052	064	088	095	080	080	1003·1	13h
14	041	040	036	053	070	064	063	055	051	048	060	086	091	073	074	1002·6	14
15	038	038	032	051	069	061	060	050	048	043	058	087	090	071	070	1002·2	15
16	035	036	031	052	068	060	058	046	044	041	058	081	090	070	070	1002·1	16
17	039	038	039	057	072	063	060	046	047	044	060	081	090	071	072	1002·4	17
18	045	042	046	061	080	070	061	052	051	051	068	083	091	074	079	1002·9	18
19	052	050	051	069	084	077	069	065	058	056	071	087	101	080	089	1003·6	19
20	060	055	060	073	089	080	071	070	063	060	077	090	101	086	095	1004·0	20
21	061	060	061	079	090	083	073	070	066	060	079	091	103	088	100	1004·2	21
22	063	060	062	080	092	087	076	075	071	062	080	095	101	090	101	1004·5	22
23	070	060	060	081	091	088	077	074	072	067	081	094	100	089	100	1004·5	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	JANUARY 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean
Midnight	2	6	6	2	10	2	9	2	10	9	10	10	10	10	8	1	2	1	1	5	4	5	1	6	9	7	5	5	5	5	5	5·6
1h	2	6	5	2	10	3	8	4	10	9	10	10	10	10	8	1	1	1	1	4	1	5	1	8	9	8	5	4	5	7	8	5·7
2	3	8	5	2	9	4	8	5	10	10	10	10	10	10	7	1	1	1	1	4	1	7	1	8	9	9	2	5	4	8	8	5·8
3	3	10	4	2	7	3	7	6	10	10	9	10	9	10	5	0	1	1	1	3	1	6	1	7	9	9	2	6	5	9	8	5·6
4	2	9	4	2	6	2	6	5	10	10	9	10	9	10	3	0	1	1	1	3	1	6	1	8	9	8	2	6	5	9	7	5·3
5	4	9	5	8	7	4	8	7	10	10	10	10	10	10	9	2	3	1	5	4	1	8	7	9	9	8	3	5	5	10	3	6·6
6	4	9	7	8	7	5	9	8	10	9	10	9	10	10	10	3	5	1	5	4	1	6	5	8	10	6	3	5	6	9	3	6·6
7	7	6	5	6	7	6	9	8	8	9	8	10	10	10	8	6	4	2	7	7	3	8	5	7	9	6	6	6	6	9	3	6·8
8	9	6	3	5	8	5	9	8	8	9	9	10	10	10	9	6	4	2	7	7	4	8	5	6	9	6	6	7	6	9	4	6·9
9	8	7	4	5	8	4	9	8	8	8	9	10	10	10	9	5	4	4	7	7	5	8	5	8	9	6	6	8	5	9	5	7·0
10	7	7	4	7	7	5	9	9	9	10	9	10	10	10	8	6	5	5	9	8	5	8	6	8	9	8	7	9	6	9	7	7·6
11	5	7	5	8	8	7	8	8	9	9	9	10	10	10	3	7	5	7	9	8	4	8	4	9	8	8	8	9	7	8	7	7·5
Noon	5	8	8	7	7	6	9	8	7	9	9	10	10	10	4	9	6	8	9	6	4	8	4	6	8	7	9	9	8	8	7	7·5
13h	4	7	5	9	6	7	7	9	6	9	10	10	10	10	6	9	6	8	9	4	6	7	4	7	8	6	9	9	8	8	8	7·5
14	4	7	4	7	7	8	9	9	8	9	9	10	10	10	7	9	5	8	8	4	5	6	4	4	8	5	9	9	8	8	8	7·3
15	6	8	3	8	8	7	9	8	8	9	10	10	10	10	8	9	5	9	6	4	4	4	5	6	8	4	9	10	8	8	8	7·4
16	7	8	4	9	7	8	9	10	8	9	9	10	10	10	8	9	5	9	7	5	4	5	7	5	8	6	9	9	8	7	8	7·6
17	7	9	4	8	5	9	8	10	10	9	7	10	10	10	8	10	4	10	7	8	4	3	5	7	8	9	8	10	8	7	8	7·7
18	9	9	5	8	3	8	8	10	8	10	5	10	10	10	8	9	4	9	8	8	3	5	5	8	7	8	8	10	8	8	8	7·6
19	7	9	4	8	2	5	4	7	9	9	4	10	10	10	7	8	3	9	8	4	3	5	4	9	8	7	8	9	6	8	8	6·8
20	7	9	2	9	2	5	2	5	9	9	7	10	10	10	7	6	2	1	9	2	2	2	3	10	8	4	7	2	4	1	7	5·6
21	7	9	2	4	3	4	1	10	10	6	10	10	10	10	5	7	2	1	9	2	1	2	3	10	9	4	5	3	3	1	6	5·5
22	6	9	2	2	2	5	2	10	10	8	10	10	10	9	3	8	2	1	7	4	3	2	2	9	8	5	5	3	2	2	5	5·4
23	6	7	2	6	2	7	1	10	10	10	10	10	10	9	2	9	2	1	6	7	7	2	4	9	8	5	4	5	2	3	4	5·8

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending. \ Day.	JANUARY 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	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	3	2	0	2	0	1	0	0	0	0	0	0	0	0	0	16	2	22	0	15	8	14	9	0	0	0	1	1	7	0	0	1·7
7	58	42	7	47	12	60	50	20	5	0	0	0	0	0	20	60	60	60	31	60	50	57	47	40	38	38	53	50	60	7	37	17·8
8	60	60	60	27	17	60	49	60	48	30	13	0	0	0	47	60	56	60	40	60	60	57	59	52	8	60	50	45	60	60	55	22·9
9	60	60	60	60	59	60	48	54	54	50	24	0	0	0	60	60	60	60	22	60	60	53	60	60	0	60	58	55	60	60	60	24·9
10	60	60	60	60	60	60	60	55	57	48	38	0	0	0	60	50	60	60	42	60	60	60	60	60	0	35	60	60	45	60	60	25·2
11	60	60	60	60	59	60	60	50	25	50	25	0	0	0	60	60	55	42	58	60	60	56	60	60	3	18	60	35	60	56	60	23·9
Noon	60	60	60	45	60	60	35	60	56	52	45	0	0	10	60	45	38	34	30	60	60	50	60	60	30	47	56	22	60	60	60	23·9
13h	60	60	54	40	59	50	60	52	58	55	0	0	0	1	60	0	56	34	22	60	60	56	60	60	52	56	55	10	60	60	60	22·8
14	60	59	60	56	60	60	57	60	43	52	2	4	0	0	60	1	5	28	16	60	60	60	60	60	53	60	4	4	60	60	60	21·4
15	60	6	60	45	60	59	59	54	15	54	0	0	0	0	60	38	0	28	59	60	60	60	60	60	42	46	12	0	15	60	60	19·9
16	60	6	60	36	58	59	28	55	50	21	0	0	0	0	60	0	50	5	49	32	60	60	50	56	42	55	15	0	7	57	60	18·2
17	10	0	60	55	59	23	45	15	24	0	33	1	0	0	60	0	7	0	60	31	60	60	35	52	46	55	15	5	27	60	58	16·0
18	0	0	60	43	40	23	13	28	26	0	35	0	0	0	30	24	7	0	23	57	60	40	33	5	40	34	5	25	32	20	52	12·6
19	0	0	19	10	2	0	3	0	13	0	0	0	0	0	0	4	0	0	0	13	20	0	0	0	0	21	1	0	0	0	0	1·7

The total Amount of Registered Sunshine was 252·9 hrs. and the total possible sunshine was 407·4 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)

JANUARY 1937.

Day. / Hour.	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	23·4	1·3	24·1	1·2	23·3	1·2	22·9	1·8	23·7	1·4	23·0	1·3	24·8	1·2	25·1	1·5	Midnight
1h	23·8	1·8	23·4	0·6	23·2	1·2	22.7	1·6	23·1	1·0	22·9	1·2	24·7	1·3	25·1	1.5	1h
2	23·6	1·7	23·3	0·9	23·2	1·2	22·6	1·6	23·3	1·2	23·0	1·0	25·0	1·8	25·0	1·8	2
3	23·1	1·4	23.6	1·2	23·1	1·2	22·6	1·5	23·8	1.7	22·9	0·9	24·7	1·5	24·7	1·2	3
4	22·9	1·4	23·1	0·8	23·0	1.3	22·2	1·2	23·9	1·8	23·1	0·9	24·8	1·7	24·7	1·4	4
5	22·4	1·1	23·1	0·9	22·5	1·3	22·3	1·3	23·5	1.5	23·1	1·0	25·0	2·0	24·8	1·4	5
6	22.8	1·3	23·6	1·2	23·1	1·3	23·0	1·1	23·6	1·6	23·3	1·2	25·0	1·9	24·9	1·2	6
7	25·5	2·4	25·0	1·9	23·2	1·2	24·4	2·0	23·8	1·6	25·8	2·3	26·2	2·2	25·5	1·6	7
8	26·5	3·3	26·6	2·8	26·1	3·1	25·2	2·3	24·3	1·2	26·2	2·7	27·0	2·5	27.0	2.9	8
9	27·2	4·0	27·2	3·3	27·0	4·2	27·0	4·0	26.1	2·8	27·9	4.4	27·1	3·5	27.0	2·5	9
10	28·0	4·3	27·5	3·7	27·6	4·6	27·1	4·0	27·1	4·0	28·5	4·8	28·1	4·2	27·1	2·5	10
11	28·2	4·2	27·9	4·3	27·9	4.8	27·0	3·8	27·1	4·1	28·5	4·4	28·4	3·9	26·7	2·0	11
Noon	28·6	4·8	28·6	4·6	28·0	5·1	26·2	3·2	28·0	4·8	28.3	4·1	27·9	3·4	27·5	2·9	Noon
13h	28 8	4·9	28·6	4·7	28·2	5·6	28·0	5·3	28·1	5·1	28·0	3·8	28·9	4·6	27·8	3·3	13h
14	28·8	4·8	28·4	4·4	28·0	4·5	28·2	5·5	28·1	5·1	28·3	3·9	28·3	4·1	27·2	3·1	14
15	28·8	5·0	27·6	4·5	28·0	5·3	26·1	3·1	28·1	5·5	28·1	3·8	28·7	4·5	27·1	3·2	15
16	28·1	4·3	27·0	3·8	27·2	4.2	27·0	4·3	27·2	4·6	28·1	3.7	27.7	3·6	27·2	3·2	16
17	26·9	3·5	26.6	3·5	26·8	4·2	26·4	3·6	26·9	4·4	25·8	1·5	27·2	3·1	26·7	3·1	17
18	26·1	3·0	25·9	3·1	26·0	3·9	25·5	3.0	25·8	3·5	26·0	2.0	26·7	2·7	25·0	1·3	18
19	25·2	2·2	25·3	2·3	25·1	2·9	24·1	1·8	24·5	2·4	25·7	1·8	26·0	2·0	24·9	1·6	19
20	24·9	2·0	24·3	2·7	24·5	2·5	24·0	1·2	23·9	1·9	25·6	1·8	25.9	2·1	24.8	1·6	20
21	24·3	1·5	24·6	1·9	23·9	2·1	23·4	1·3	23·6	1·6	25·4	2·1	25·7	1·9	24·9	1·7	21
22	24·5	1·6	24.1	1·4	23·7	2·4	23·9	1·3	23·2	1·2	25·2	2·2	25·4	1·9	24·9	1·8	22
23	24·2	1·3	24·0	1·5	23·1	1·9	24·1	1·4	23·1	1·4	25.0	2.0	25·0	1·4	24·4	1·4	23

Day. / Hour.	9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	23·9	1·0	25·0	2·1	22·8	0·7	25·0	0·3	25·9	1·2	25·9	0·8	25·2	0·5	23·1	0·9	Midnight
1h	24·1	1·0	25·0	1·9	23·7	0·8	25·2	0·3	25·9	1.1	26·0	0·9	25·3	0·6	22·7	1·0	1h
2	23·0	0·8	24·9	1.7	24·0	1·0	24·9	0·6	26·0	1·4	25·0	0·1	25·2	0·7	22·0	1.0	2
3	23·2	0·6	22·8	0·3	23·9	0·9	24·8	0·5	25·8	1·0	24·9	0·0	24·3	0·5	21·8	1·1	3
4	22.5	0·4	23·0	0.8	24·0	0·9	24·8	0·8	25·7	1·6	25·1	0·1	24·9	0·8	21·2	0·9	4
5	23·2	0·3	24·0	1·0	24·1	0·9	24·6	0·5	25·9	1·3	25·1	0·1	25·0	0·7	21·1	1.0	5
6	22·6	0·5	23·1	0·9	24·2	0·9	24·8	0·7	25·6	0·9	25·2	0·3	24·3	0·3	21·1	1·0	6
7	24·1	0·8	24·5	0·9	24·8	0·9	24·1	0·3	26·0	1·1	25·1	0.1	25·1	0·4	23·7	1·3	7
8	25·1	1·6	25·3	1·4	25·9	1·7	24·0	0·3	25·9	1·0	25·4	0·2	26·2	1·1	26·0	2·0	8
9	26·1	2.1	26·2	2·2	26·4	2·2	23·7	0·7	25·2	0·2	25·2	0·1	28·0	2·0	27·2	4·1	9
10	26·8	2·5	26·6	2·5	27·0	1·8	24·0	0·4	25·3	0·4	26·1	0·2	28·5	2.5	28·1	4·1	10
11	25·6	1·5	27·2	2·7	27·9	2·8	24·9	0·7	25.4	0·4	26.3	0·4	28·7	3·0	29·0	4·0	11
Noon	26·1	1·5	27·2	2·8	28·9	3·0	26·0	0·8	25·7	0·6	27·5	1·2	29·0	3·0	29·5	3·7	Noon
13h	27·3	2·7	27·4	3·1	27·6	1·4	27·1	1·3	25·9	0·8	27·2	1·0	28·7	3·2	28·2	3.7	13h
14	27·1	2·9	27·0	3·0	28·6	1·6	28.0	1·9	25.9	0·8	25·5	0·5	28·7	3.0	25·4	1·4	14
15	26·9	3·1	27·3	3·7	27·3	1·7	27·6	1·6	26·1	1·0	26·6	1·3	28·9	2·9	25·9	2·0	15
16	27·0	3·0	26·3	2·2	26·1	0·8	26·7	0·9	26·1	1·2	26·8	1·5	28·3	3·0	25·0	1·2	16
17	26·0	2·1	24·0	0·8	27·6	1·7	26·9	0·9	26·1	1·3	26·8	1·5	28·0	3·0	25·0	1·0	17
18	25·2	1·4	23·9	1·4	27·2	1·6	26·2	1·0	26·1	1·2	26·3	1·2	27·1	2·4	25·5	1·2	18
19	25·1	2·0	24·0	1·2	26·0	1·1	26.1	1·1	26·0	1·1	26·0	1·0	26·2	1·5	24·5	2·3	19
20	25·1	2·0	24·2	1·3	25·3	0·5	26·0	1·1	25·8	0·9	25·6	0·7	25·9	1·6	24·0	1·8	20
21	24·8	1·7	24·5	1·4	25·4	0·4	25·9	0·9	26·0	1·2	24·9	0·6	25·2	1·1	23.9	1·8	21
22	25·0	1.9	24·0	0·9	25·1	0·2	25·9	1·0	26·1	1·3	25·1	0·4	24·5	0·9	23·5	1·6	22
23	24·3	1·3	23·7	1·0	24·9	0·7	25·9	1·0	25·4	0·4	25·0	0·4	23·8	0·9	23·1	1·5	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add 273*)

JANUARY 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	23·3	2·0	21·7	1·7	22·8	1·7	23·7	0·7	23·1	1·3	23·0	0·9	23·1	1·0	23·2	1·1	Midnight
1h	22·8	1·7	21·9	2·0	21·9	1·0	23·9	0·8	22·9	1·2	23·0	1·0	22·9	1·0	23·2	1·2	1h
2	22·8	1·6	21·6	1·7	21·7	1·2	23·6	0·7	22·9	1·2	23·1	1·1	22·9	1·0	23·1	1·1	2
3	22·6	1.4	21·0	1·2	21·2	1·0	23·7	0·8	23·6	2·0	22·9	0·9	22·6	0·9	23·0	0·9	3
4	22·7	1.0	20·6	1·4	21·3	1·1	23·3	1·0	23·7	2·4	22·9	0·8	22·4	1·0	23·1	0·9	4
5	22·8	1·7	20·1	1·2	21·9	0·9	23·1	1·1	23·7	2.5	22·6	0·7	22·8	1·1	23.1	1·0	5
6	22·8	1.8	19·6	1·4	22·8	1·4	23·1	1·1	23·8	2·6	22·7	0·8	22·4	0·7	23.0	1·0	6
7	24·3	2·4	22·9	1·8	23·5	0·7	24·7	2·1	24·0	1 8	24·2	1·4	24·2	1·7	23·7	1·0	7
8	24·7	2·1	25·3	3·1	25·1	1·9	25·8	2·8	26·1	3·0	25·7	2·6	25·7	2·6	25·0	1·9	8
9	26·4	4·2	26·9	4·1	26·1	2·9	26·2	2·9	26·2	3·0	25·4	2·2	26·9	3·9	27·1	3·8	9
10	27·0	4·7	27·2	4·6	28·1	4·1	26·8	3·7	27·4	4·2	27·3	4·1	27·6	4·1	27·1	3·6	10
11	27·7	5·1	27·5	4·7	28·3	4·1	27·1	3·6	28·0	4·9	27·3	3·6	28·1	5·1	27.3	4·1	11
Noon	27·9	5·2	27·6	3·8	27·9	3·5	28·0	4·4	28·0	4·7	27 5	3·3	28·1	4·6	27·7	4·1	Noon
13h	28·4	5·5	27·2	3·9	27·6	3·4	28·1	4·5	27·8	4.6	27·6	4·4	28·2	4·7	28·1	4·3	13h
14	27·3	5·2	27·4	3·7	28·0	3·9	28·0	4·5	28·2	4·7	28·0	4·4	28·0	4·9	28·6	4·6	14
15	26.6	5·5	28·0	4·5	28·3	4·1	27·7	4·5	27·7	4·7	27·8	4·3	28·1	5·4	28·0	4·3	15
16	26·9	5·0	27·3	3·6	28·1	4.2	26·2	3·1	27·9	4·8	27·6	4·4	27·4	4·7	27·4	3·7	16
17	25·7	4·6	26·1	3·1	27·6	3·8	26·0	3·1	26.4	4·0	26·7	3·7	26·8	4.6	27·1	3·3	17
18	25·1	3·9	25·6	2·5	25·7	2·4	25·8	3·1	26·0	4·0	26·0	3·2	26·1	3·4	26·0	2·7	18
19	23·9	2·8	24·8	2·1	25·0	1·9	24·9	2·6	24·6	2·6	24·8	2·1	24·7	2·3	25·2	2·1	19
20	22·9	2·1	23·7	2·0	24·4	1·3	24·1	1·9	23·9	1·9	24·2	1·9	24·0	1·9	24·2	1·2	20
21	22·7	2·1	23·0	1·5	24·9	1·2	24·4	2·0	23.4	1·6	23·8	1·7	23·3	1·3	23·1	0·9	21
22	22·9	2·3	22.8	1·7	24·1	0·8	24·3	2·2	23·3	1·4	23·5	1·4	23·2	1·2	23·2	0·6	22
23	21·9	1·8	23·0	1·8	23·9	0·8	23·5	1·6	23·1	1·1	23·2	1·2	23·3	1·3	23·0	0·9	23

Day. / Hour.	25d.		26d.		27d.		28d.		29d		30d.		31d		Mean		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	23·1	0·9	24.1	0·4	23·0	1·0	24·4	0·5	24·9	0·9	24·1	0 9	23·6	1·1	23 8	1·1	Midnight
1h	22·7	1·5	24·1	0.7	22·7	1·0	24·7	0·8	24·3	0.6	24·0	1·0	23·3	0·7	23·7	1·1	1h
2	23·3	1·1	24·2	0·3	22·4	0·8	24·7	0·7	24·0	0·8	24·0	1·0	23·7	1·0	23·6	1·1	2
3	23.8	1·2	24·0	0·8	22.1	0·8	24·3	0·7	24·0	0·7	23·4	0·7	23·8	0·8	23·4	1·0	3
4	22·7	0·7	23·1	0·4	22·0	0·9	24·2	0·7	24·1	0·7	23·9	0·9	23·2	0 6	23·3	1·0	4
5	22·7	0·7	23·1	0.9	21·9	0.9	24·1	0·8	23·5	0·6	23·8	0·8	23·2	0.7	23·3	1·0	5
6	23·0	0·8	23·1	0·5	21·6	0·8	24·0	0·8	23·6	0·7	24·0	0·8	23 1	0·8	23.3	1·0	6
7	23·3	0·6	24·7	1·1	23·6	1·0	25·0	0·1	25·2	1·0	24·2	0·5	23·8	1·1	24·5	1·3	7
8	24·3	1·3	26·2	1·3	26·1	1·3	26.8	1·1	26·5	1·7	25·9	1·7	26·0	1·9	25·7	1·9	8
9	25·2	2·0	27·2	2·7	27·5	2·5	28·3	2·3	27·9	3·0	27·0	2·8	27·1	3·0	26·6	2·8	9
10	26·0	2·3	28·0	2·5	28·9	3·5	29·1	2·9	28·6	3·6	28·0	4·1	27·9	3·9	27·4	3·3	10
11	26·1	2·4	28·0	2·4	29·9	4·2	29·8	3·6	28·9	4·2	28·0	3·7	27·5	3·2	27·6	3·4	11
Noon	27·1	3·5	28·7	2·7	30·6	4·8	30·1	3·9	29·1	4·3	28·6	3·9	28·4	3·6	28·0	3·5	Noon
13h	27·6	3·3	26·9	3·5	30 9	4.9	27·5	2·0	28·9	3·9	29·0	4.0	28·0	3.8	28·1	3·7	13h
14	27·7	3·2	30·2	3·9	30·3	4·5	26·4	1·4	29·0	4·0	28·5	3·5	28·4	3·9	27·9	3·6	14
15	27.6	3·4	30·4	4·3	29·4	4·0	24·7	0·7	27·9	3·6	28·4	4.1	28·2	4·1	27·7	3·7	15
16	27·6	3·6	29·3	3·3	29·8	4·5	24·7	0·6	27·6	3·6	27.9	3·7	28·0	4·0	27·3	3·3	16
17	27·0	3·0	29·6	4.0	28·6	3·6	26·1	0·9	27·2	3·2	27·3	3·6	27·3	3·3	26·7	2·9	17
18	26·2	2·2	28·2	3·1	27·7	2.9	26·7	1·2	26.9	3·1	26·4	2·6	27·0	3·0	26.1	2·5	18
19	24·9	1·6	26·9	2·1	26·2	1·6	25·2	1·1	25·5	1·6	25·2	1·6	25·0	1·1	25·2	1·0	19
20	24·3	1·2	25·5	1.5	25·7	1·4	25·0	0·8	25·1	1·4	24·6	1·6	24·7	1·2	24·7	1·6	20
21	23·6	0·7	24·6	1·4	25·2	1·0	24·8	0·8	24·9	1·5	24·0	1·4	24·3	1·0	24·4	1·4	21
22	23·6	0.6	24·0	1.2	25·1	0 9	24·5	0·5	24·7	1·2	23·9	1·6	24·0	1·0	24·2	1·3	22
23	24·0	0·8	23·2	1·0	24·9	0·8	24·3	0·5	24·3	1.0	23·8	1·3	24·0	1·0	23·9	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 JANUARY 1937.

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

The Velocities are given in Metres per second, using the factor 2·2.

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

JANUARY 1937.

Hour \ Day	1d		2d.		3d.		4d.		5d.		6d.		7d.		8d.		9d.		10d.		11d. *		12d. *		13d. *		14d. *		15d. *		16d. *	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	09	2·3	06	1·1	09	1·7	10	1·9	10	3·0	10	2·4	08	4·5	09	4·6	09	5·6	08	5·9	12	6·0	25	2·0	32	5·6	30	9·1	28	5·7	17	1·5
1h	08	2·2	07	1·1	09	2·1	10	1·8	11	2·7	10	1·8	09	4·4	09	5·0	10	5·5	09	5·9	11	5·5	25	2·8	32	5·2	31	8·4	26	6·1	11	1·8
2	08	2·1	07	1·6	10	1·9	10	1·8	11	2·5	10	2·3	09	4·9	09	4·4	09	5·5	09	6·7	12	3·2	26	3·5	32	6·2	29	8·3	26	6·4	11	1·4
3	08	2·7	05	1·9	10	2·1	10	2·1	10	3·8	10	1·9	09	5·1	09	4·4	10	5·0	08	5·9	12	5·5	24	2·2	01	6·0	28	7·8	26	4·5	11	1·9
4	08	2·3	07	0·9	10	2·2	10	2·1	09	3·3	10	2·1	09	4·5	08	4·4	07	4·9	09	4·4	12	5·1	27	3·3	01	5·9	27	6·6	25	4·2	11	1·4
5	08	1·8	11	0·9	10	2·0	10	2·1	10	2·9	10	1·7	08	4·8	07	4·3	09	5·2	09	5·8	12	4·9	26	3·3	01	5·9	30	7·3	27	4·9	11	1·8
6	08	2·3	11	1·1	10	2·0	09	2·0	11	3·4	08	1·8	08	4·4	09	4·2	09	5·3	11	5·2	12	5·0	26	3·8	01	5·9	31	9·4	24	4·2	11	1·2
7	08	2·6	08	2·1	10	3·2	10	2·4	08	4·2	08	2·0	08	5·1	09	4·5	09	6·1	09	6·4	13	4·4	26	7·4	01	7·7	30	6·9	25	4·2	11	0·7
8	06	3·4	08	2·4	08	4·4	09	4·1	08	4·8	05	3·6	08	6·0	07	6·3	08	6·6	09	7·1	13	3·5	26	5·1	01	7·5	30	6·4	25	4·4	11	0·6
9	05	4·0	08	3·5	09	5·0	08	4·6	09	4·3	07	4·8	08	6·2	08	6·9	08	6·6	09	8·2	13	4·6	27	4·2	01	8·4	32	7·6	25	5·4	17	1·1
10	06	4·2	08	4·0	09	5·2	09	5·3	09	5·4	05	4·4	08	6·1	07	7·4	08	7·4	09	8·3	12	5·0	26	2·6	01	8·8	31	7·6	24	5·8	20	1·7
11	07	4·6	06	4·0	06	3·9	08	4·7	09	5·0	06	4·5	06	6·0	06	8·1	09	7·2	08	8·3	13	4·5	29	2·9	01	8·3	30	6·7	24	5·9	27	2·9
Noon	05	4·3	05	4·2	08	5·8	06	5·4	07	4·5	08	5·1	07	6·3	08	7·1	08	7·1	09	8·8	18	2·9	28	4·9	32	8·4	30	7·9	23	5·3	27	1·9
13h	04	3·5	08	4·3	09	4·7	06	4·9	08	4·6	06	5·2	06	6·0	09	8·2	08	7·4	08	8·5	d30	1·5	27	6·1	30	9·3	29	7·8	25	5·3	d03	2·5
14	05	4·0	06	4·3	08	4·5	07	5·0	09	5·1	08	5·7	08	6·0	09	7·1	07	7·6	09	8·0	29	2·0	29	6·0	28	8·9	28	5·5	22	5·5	09	2·5
15	05	3·7	04	4·0	08	4·0	05	5·7	08	4·4	08	5·7	07	5·6	09	7·4	08	7·5	09	7·4	22	3·1	28	5·5	32	8·7	29	5·2	21	5·2	12	3·4
16	07	3·8	08	3·3	08	4·0	09	4·5	09	5·1	08	5·3	09	5·8	09	7·1	09	7·4	10	6·9	16	2·0	27	5·3	31	9·0	28	5·7	21	4·7	08	1·2
17	08	2·9	08	3·1	09	4·4	09	4·6	09	5·2	09	5·4	08	5·3	09	6·6	09	7·1	09	6·1	22	1·3	27	4·5	32	9·0	27	5·7	21	4·1	08	1·2
18	07	2·7	10	3·4	09	4·1	10	4·6	09	4·5	08	4·9	07	5·2	05	5·7	08	6·6	12	5·2	22	2·9	29	4·5	01	8·2	28	4·9	21	3·1	04	1·2
19	08	2·3	10	2·1	08	3·1	10	4·1	10	3·6	06	4·8	09	4·8	09	5·1	09	6·2	10	5·1	21	4·1	29	4·9	29	8·3	27	5·1	22	2·0	13	2·4
20	08	2·0	08	2·3	08	2·8	11	3·2	11	2·1	08	4·7	08	4·3	09	5·4	09	6·5	11	4·3	21	4·4	30	5·3	01	8·5	28	6·0	23	1·3	13	2·3
21	08	1·8	10	2·0	09	2·2	11	3·2	11	2·4	09	5·0	08	4·4	09	5·1	09	5·7	11	4·3	21	2·4	31	4·8	30	11·0	27	5·6	23	1·1	12	3·1
22	10	2·2	10	2·5	10	2·4	11	3·3	10	3·0	09	5·1	09	4·9	09	5·6	09	5·8	09	4·2	22	1·0	30	4·6	32	10·6	28	5·9	17	0·8	11	2·3
23	10	1·4	09	1·8	10	2·3	10	3·8	10	2·3	09	4·5	09	4·6	09	5·5	09	5·9	12	4·4	27	1·6	30	5·5	30	9·8	30	6·6	17	1·1	12	2·6

Hour \ Day	17d.		18d.		19d. *		20d.		21d		22d.		23d.		24d.		25d.		26d. *		27d. *		28d.		29d.		30d.		31d		Mean.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	12	2·9	12	2·7	14	1·4	12	2·4	11	1·9	11	1·3	11	1·8	11	1·9	12	2·4	08	1·2	17	1·3	08	1·7	10	2·3	10	1·9	10	2·1	3·0
1h	12	2·2	12	2·3	14	1·1	11	1·3	11	1·8	11	1·3	09	1·8	11	2·2	12	2·7	06	1·7	17	1·7	08	1·4	10	1·9	10	1·2	07	1·5	2·8
2	12	2·7	12	2·9	14	0·7	11	2·0	11	2·5	05	1·5	10	1·6	11	2·3	11	2·1	08	2·1	16	1·8	08	1·3	10	1·1	10	1·1	10	1·8	2·9
3	12	0·7	12	1·5	14	1·2	11	2·2	11	2·2	11	1·9	10	1·3	10	1·5	11	3·1	r31	1·1	16	1·3	13	1·5	10	1·2	10	1·3	10	1·7	2·8
4	12	0·8	12	1·1	14	1·1	11	2·9	11	2·0	12	1·3	10	2·5	11	2·1	08	2·2	31	0·7	16	1·6	13	1·0	10	1·3	10	0·9	11	1·9	2·6
5	12	1·5	12	1·2	12	1·6	10	2·9	11	3·2	12	1·1	09	1·9	10	0·8	08	2·3	d07	1·8	15	1·4	07	1·6	10	1·8	10	1·3	11	2·4	2·8
6	11	2·4	12	1·6	16	1·9	11	2·9	10	2·9	12	1·9	09	2·5	11	1·8	08	3·6	07	0·9	15	1·1	05	1·0	10	2·0	10	2·1	10	1·8	3·0
7	12	2·0	14	1·1	17	1·2	10	4·0	11	3·6	11	2·0	11	2·8	11	2·6	08	3·0	10	1·1	15	0·9	05	1·8	10	1·9	10	2·1	10	1·9	3·3
8	12	3·1	15	1·4	15	2·2	10	4·8	11	4·4	10	2·4	10	3·4	10	3·5	09	3·4	10	1·2	09	0·9	04	1·6	09	2·7	07	3·6	10	3·6	3·8
9	12	4·1	12	1·5	14	3·2	10	5·0	11	4·9	12	3·4	11	3·5	08	4·4	08	4·1	08	1·2	07	1·6	04	1·4	07	3·5	07	3·4	10	5·1	4·4
10	11	3·6	11	0·8	14	3·1	10	4·7	11	5·4	07	3·6	10	4·2	09	4·0	08	4·4	06	1·7	04	1·7	05	3·0	09	3·0	06	3·8	09	5·3	4·6
11	09	4·0	10	1·3	13	4·4	12	5·7	09	4·4	07	4·1	10	4·1	09	4·4	08	4·0	30	1·8	03	2·5	03	3·2	07	3·0	09	2·9	09	4·9	4·6
Noon	11	3·5	r25	2·6	13	5·1	10	5·6	10	4·7	09	3·6	09	4·2	09	5·0	08	5·0	30	2·4	03	2·3	03	3·8	06	2·6	08	3·5	08	5·0	4·8
13h	13	2·8	21	3·5	13	4·6	10	6·1	08	4·4	09	4·3	09	4·3	10	4·3	08	5·0	30	2·8	03	1·8	04	3·2	09	3·4	10	4·0	06	4·3	4·8
14	10	2·7	24	1·6	12	5·4	09	5·8	09	4·7	08	4·9	08	4·4	07	4·4	07	4·2	31	2·2	05	1·6	10	1·6	08	3·3	08	4·5	07	4·6	4·6
15	11	4·3	24	3·4	12	5·9	09	5·5	10	4·6	10	4·6	08	3·7	09	5·1	06	4·2	29	2·7	07	1·2	13	2·4	08	2·8	08	3·9	05	4·8	4·7
16	09	4·5	28	1·1	12	5·5	10	4·9	12	4·7	09	4·8	08	2·5	09	5·5	07	4·1	31	2·7	04	1·9	13	1·7	09	3·2	10	4·5	06	4·8	4·4
17	10	4·5	28	1·1	12	6·0	09	5·4	11	4·9	09	4·4	08	2·1	09	6·3	07	3·7	30	1·8	06	1·8	13	0·8	10	3·2	09	4·2	06	4·4	4·2
18	12	3·6	d11	0·7	11	3·7	09	5·3	12	4·4	10	3·9	09	2·8	11	5·1	08	3·2	26	1·2	07	1·2	09	2·5	10	2·5	09	4·0	05	3·8	3·8
19	12	2·9	11	1·1	11	2·9	10	4·2	11	2·4	12	2·9	11	1·4	10	3·3	09	2·8	26	0·7	07	1·4	09	2·6	08	1·5	10	2·1	08	1·9	3·3
20	12	2·2	11	1·6	12	2·1	10	2·7	11	2·0	10	3·1	11	1·1	10	4·3	09	2·4	26	0·6	07	1·8	09	2·1	11	1·5	10	2·3	07	2·7	3·2
21	12	2·4	11	0·9	12	1·1	10	2·4	11	3·1	10	2·3	11	2·3	08	3·8	10	2·9	25	0·7	08	2·2	10	2·7	10	2·2	10	2·6	07	2·1	3·2
22	11	2·3	12	1·6	12	1·4	10	3·7	11	2·1	10	2·7	11	2·1	10	1·7	10	2·2	16	1·1	08	2·0	10	2·6	10	2·5	10	2·9	07	2·0	3·1
23	12	2·3	14	2·5	12	0·9	11	2·7	11	1·4	11	1·9	11	2·3	12	2·1	12	1·6	r16	1·2	08	1·6	10	2·3	11	2·0	10	2·0	09	1·7	3·0

TABLE XIII.—WIND FREQUENCY (NUMBER OF OBSERVATIONS), JANUARY 1937.

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	...	4	27	2	...	1	...	4	10	9	1	1	...	...	...	1	1	1	...
9	...	6	25	2	...	2	...	15	2	6	1	1	...	...	...	1	...	1	...
15	...	10	21	1	..	4	1	13	2	4	...	...	...	1	1	1	...	3	...
21	...	3	28	1	...	...	..	9	7	9	...	...	...	1	...	2	...	1	1
Totals	...			6	...	7	1	41	21	28	2	2	...	2	1	5	1	6	1

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for JANUARY 1937.

Hour \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	...	...	...	0·6	...	0·2	..	6·0	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	0·3
2	...	0.1	...	...	0.1	...	...	...	3·5	...	0·2	1·6	...	12.8	...	...	...	...	...	...	..	...	..	0·4	...	...	...	...	...	...	0·1
..	..	1 2	...	...	...	...	...	...	6·0	3 0	...	0·2	...	42·0	0.4	...	...	...	...	...	...	1·2	...	...	...	...	...	...	...	...	0·6
4	...	0·1	...	...	...	..	.	...	6·0	4·3	0·1	0·2	...	8·8	0·2	...	...	...	...	...	...	...	...	...	2·9	...	...	...	...	...	0·1
5	..	...	...	...	...	...	...	...	6·0	0·8	0·3	0·4	...	9·6	...	...	...	...	...	...	...	...	0·6	...	...	...	...	...	...	..	...
6	...	...	...	...	0·1	...	...	...	4·0	0·3	0·2	...	0 4	0·4	2·1	...	...	...	...	...	...	...	0·2	...	0·4	...	...	...	...	2·5	...
7	...	...	...	...	0·1	...	..	...	0·5	0·2	...	2·0	0·2	0·4	0·2	...	...	...	...	...	...	..	..	. .	...	...	...	...	...	1·8	...
8	..	...	...	...	0·4	...	...	...	...	2·0	...	4·0	0·4	1·2	...	..	...	...	...	...	.	...	...	...	...	...	...	...	...	0·4	...
9	...	...	...	...	...	...	...	...	...	0·7	...	0·8	1 4	2·6	0·2	...	...	...	...	...	...	. .	0·1	...	...	...	...	...	...	...	...
10	..	...	...	...	...	...	...	..	...	...	...	4·3	5.7	0·6	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	0·2	1·1	...	..	0·4	3·4	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
Noon	...	...	...	...	...	...	...	...	0·1	...	...	0·4	0·6	. .	...	...	...	...	...	..	...	...	...	...	...	...	...	0·2	...	...	..
13h	...	...	...	...	...	...	..	..	0·1	...	2·8	...	0·6	...	...	...	...	..	...	...	...	...	...	...	...	...	...	0·1	...	...	...
14	...	...	...	...	...	..	...	...	..	...	0·3	..	0·2	0·4	...	2·0	...	...	...	..	...	...	...	...	...	...	..	...	...	...	...
15	...	...	..	...	...	...	...	...	...	...	...	...	0·2	0·2	...	0·1	...	...	...	...	...	...	...	...	...	...	...	33·5	...	..	..
16	...	...	...	...	...	0·1	...	...	...	...	2·4	0·2	..	...	...	0·5	...	...	...	...	..	...	...	...	...	...	...	5·2	...	...	...
17	...	...	...	...	...	0·9	..	...	...	5·0	...	0·2	...	...	...	1·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	0·3	1·2	0·2	...	1·8	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...
19	...	...	...	...	...	...	...	0·4	0·2	0·1	...	...	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	0·2	...	...	...
20	...	...	...	0·2	...	...	...	0 4	0·1	...	...	..	...	1·2	...	...	...	...	...	...	...	...	...	0·9	..	...	...	...	...	...	...
21	...	...	...	0·1	...	...	...	...	0·2	...	0·4	...	...	3·3	...	...	...	...	...	...	...	...	..	2·0	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	0·1	0·1	0·6	0·2	...	...	...	...	. .	...	...	1·2	...	...	...	...	0·1	2·6	...	...	...	...	...	...
23	...	...	...	...	...	...	...	3·3	0·8	...	0.1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	0·2	...	5·0	0·1	4·0	0·3	...	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR JANUARY 1937.

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	...	...	...	...	...	...	...	0·2	2·3	...	...	0·6	6·6	4·8	..	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	1·5	1·9	1·4	0·9	2·5	7·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	0·3	0·6	5·1	0·9	0·3	5·4	...	...	1·2	...	...	...	...	...	. .	..	...	...	...	...	...	...	...
4	...	...	...	...	1·6	...	..	...	2·2	2·4	1.0	...	2·2	1·5	0·4	...	...	...	2·5	...	...	3·3	...	0·4	0·9	...	...	1·7	...	0·1	...
5	. .	...	...	...	...	...	...	...	0·4	2·2	1·2	1·5	...	...	0·3	...	...	...	2·9	...	...	0·8	...	0·5	0·9	...	...	...	...	0·2	...
6	..	...	...	...	0·1	0·5	...	...	...	4·6	1·9	6·9	3·8	24·7	...	...	..	...	1·5	...	...	1 2	...	1·0	...	...	...	...	...	...	..
7	...	...	...	...	...	...	...	...	2·4	1·9	2·2	0·5	1·8	20·9	...	...	0·1	...	4·3	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	..	...	...	...	0·7	2·9	1·3	4·5	4·6	2·8	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	0·5	..	...	...	...	1·2	1·2	1·2	5·8	3·9	4 4	...	...	...	...	0·9	...	...	...	...	1·6	...	...	...	...	...	0·1	...
10	...	...	...	..	...	...	...	1·0	0·2	1·4	0·2	1·5	3·6	8·8	...	...	..	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...
11	...	...	...	..	...	...	...	0·2	0·6	1·9	0·3	0·6	2·7	2·0	...	0.2	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...	...
Noon	...	...	...	0·1	...	...	..	0·8	0 4	3·2	...	...	3·4	11·0	...	0·3	..	...	...	...	...	...	0·8	...	...	...	...	0·2	...	...	...
13h	...	...	...	...	...	...	...	0·5	0·2	0·6	0·2	...	3·5	9·5	...	...	...	...	..	...	...	...	0·2	...	...	. .	...	0 2	...	...	...
14	...	0·2	. .	...	..	..	...	...	0·5	...	..	...	17·4	3·2	...	...	...	...	...	...	...	...	...	...	...	...	...	82·4	...	...	...
15	...	2·1	...	...	...	...	...	...	0·2	2·6	...	2·6	2·0	...	...	...	..	...	...	...	...	..	...	...	...	...	...	19·9	...	...	...
16	0·2	3·0	...	2·0	...	...	...	...	0·1	...	...	...	0·5	.	...	..	...	...	...	...	...	...	...	...	0·7	...	...	1·3	...	...	0·3
17	0·6	...	...	...	...	...	...	...	...	4·2	...	1·5	2·0	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	..
18	...	...	...	...	...	...	...	...	0·5	2·9	...	...	...	1·3	...	...	...	...	0·2	...	...	...	...	...	0·2	...	0·8	...	...	...	...
19	...	..	...	...	...	...	...	0·3	...	..	. .	...	...	11·0	0·5	...	...	...	...	...	...	...	...	...	...	...	1·1	...	...	...	1·3
20	...	...	...	...	..	...	...	0·2	...	...	0·3	...	..	...	...	...	...	...	0·6	...	...	...	...	1·2	0·3	...	...	...	...	...	...
21	...	...	...	0·2	...	...	...	...	0·4	...	...	1·2	..	...	...	...	...	...	0·3	...	..	...	...	0·2	..	...	...	...	...	...	...
22	...	...	...	0·1	...	...	...	0·2	0·3	...	...	...	0·7	...	...	...	...	...	...	0·2	...	...	...	1·0	1·5	...	...	...	...	..	0·1
23	...	...	...	...	0·4	...	...	...	1·5	5·2	...	. .	1·1	...	..	...	...	..	...	...	...	...	...	0·2	2·1	...	...	...	...	...	...
24	...	...	...	...	...	...	...	1·8	0·9	...	...	...	3·9	...	...	...	...	...	...	0·3	...	...	...	0·7	...	...	...	...	...	...	0·3

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for JANUARY, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	8.23	...
	St. Antoine	50	6·91	175.5	6.98	11
	Bel Mont	50	9.52	241.8	7·69	12
	Poudre d'Or	20	10.59	269.0	7.09	11
	Mon Loisir (S.E.) ...	300	13.90	353.1	8.18	22
	Forbach	300	9.99	253.7	8.43	18
	Couroupa	...	8.38	212.8	11.33	15
	* Labourdonnais	290	...	...	8.96	...
	Mapou Water Office ...	...	9.51	241.6	...	12
	Beau Séjour	300	10.81	274.6	9.51	19
	Mont Piton	650	11.11	282.2	10.47	19
	Mon Choix	700	8.64	219.5	10.42	18
	Antoinette	640	13.22	335.8	9.88	23
	Mon Songe	620	13.81	350.8	10.08	19
	Botanical Gardens ...	325	15.25	387.4	9.59	26
	* The Observatory ...	179	10.12	257.1	8.16	22
	Solitude	175	...	...	6.96	...
	St. André (Cour) ...	90	9.39	238.5	7.79	10
	La Nicolière	...	15.45	392.4	13.37	24
	California	...	12.72	323.1	9.76	19
	Australia	..	16.02	406.9	...	17
2 & 3	Union Régnard (Flacq S.E.) ...	600	10.73	272·5	9.87	18
	Constance d'Arifat (L.S.) ...	100	10.44	265.2	8.94	20
	Rich Fund	600	11.73	297.9	10.96	21
	La Joffrette	...	9.74	247.4	...	17
	Belle Vue (Allendy) ...	...	11.01	279.7	11.28	19
4	Sans Souci	900	23.22	589.8	16.53	23
	Beau Champ (G.R.S.E.) ...	20	8.07	205.0	8.12	16
	Olivia	400	11.75	298.5	11.33	21
	Trois Ilots	...	9 56	242.8	...	16
	Belle Rive	400	13.27	337.1	14.28	22
	Sébastopol	700	17.37	441.2	...	17
	Bonne Veine	400	21.46	545.1	18.33	20
5	Rose Bolle	850	16.67	423.4	18.04	24
	New Grove	650	13.60	345.4	...	21
	Mon Trésor	...	13.52	343.4	...	17
	Mon Désert (Carié) ...	75	11.21	284.7	7.85	19
	Ferney	20	15.10	383.5	12.35	14
	Sauve Terre	...	12.24	310.9	...	18
6	Tivoli	1,300	16.71	424.4	15.63	26
	La Flora	1,050	16.05	407.7	17.58	25
	Riche Bois (Brit.) ...	650	13.11	333.0	15.21	21
	Britannia (Estate) ...	700	14.24	361.7	13.33	22
6	Savannah (Mill) ...	200	11.68	296.7	10.89	17
	St. Aubin	300	10.43	264·9	10.76	20
	St. Avold	900	17.69	449.3	14.05	22
	Colmar	400	17.02	432.3	12.85	18
	Union (S.E.)	...	12.83	325.9	9.86	16
	Fontenelle	320	14.08	357.6	10.77	17
	Choisy	200	9.01	228.9	10.35	16
	Beau Bois	...	13.07	332.0	10.73	19
	Bel Air	...	16.97	431.0	9.67	13
	St. Félix	...	15.95	405.1	...	14
7,8,9&10	Bel Ombre	40	...	...	9.25	...
	Beau Champ (B du Cap) ...	70	...	...	8.66	...
	Frédérica	...	...	...	8.78	...
	Pierre Fonds	...	8.45	214.6	10.51	16
	St. Marie	...	...	...	...	...
	Hussonia	...	5.48	139.2	...	13
11	Curepipe Gardens ...	1,840	25.47	646.9	16.71	30
	Mare aux Vacoas (G.E.) ...	1,850	21.19	538.2	19.51	26
	Mare aux Vacoas (Arn) ...	1,830	18.08	459.2	17.85	25
	La Marie Filter Beds ...	1,700	21.28	540.5	14.87	23
	* Sophie	...	20.59	522.9	...	23
	Réunion	1,420	19.93	506.2	13.10	23
	* Aerological Station ...	1,393	17.79	451.8	13.40	25
	Phoenix	...	11.29	286.8	12.76	13
	Quatre Bornes ...	...	8.24	209.3	...	11
12	Quatre Bornes (Board) ...	1,090	10.10	256.5	...	13
	* Le Réduit (D of A) ...	1,000	12.81	325.5	10·00	30
	Alma	1,460	26.35	669.3	17·88	24
	Bagatelle	1,250	17.36	440.9	11·66	18
	Highlands	1,300	16.98	431.3	14·10	16
	Trianon	950	11.22	285.0	10·30	15
	Val Ory	1,100	12.97	329.4	10·65	17
	Bassin	.	12.16	308.4	10·56	17
	Hermitage	1,450	22.10	561.3	17·16	15
	Ebène	...	9.51	241.6	...	16
	Béga	...	11.26	286.0	...	16
	Mon Rêve	...	12.35	313.7	...	13
	Mon Pevril	...	14.87	377.7	...	15
	Minissy	1,150	14.97	380.2	12·30	15
	Plaisance	...	14.55	369.6	...	..
	La Ferme	350	8.09	205.5	8·52	19

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 1937.

Type. / Day.	Time	Scud		Cumulus Cu. St. &c		Alto Cu. Alto St.		Cirro Cumulus		Cirro Stratus		Cirrus		Time	Scud		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	75	12·6	90	25·9	...	..	...	...	...	...	255	...	14¼	90	5·4*	98	5·6*	...	..	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	.	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	90	11·4*	90	6·8*	...	...	...	...	...	...	...	...
5	11½	120	...	120	6·7	...	...	...	...	...	...	240	...	14¼	...	..	90	1·8*	...	...	270	...	...	...	293	2·7*
6	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	82	9·6*	...	...	...	...	...	...	...	...
7	10	...	...	90	25·0	...	...	...	...	240	...	255	4·9	14¼	...	...	90	17·3*	...	...	...	...	...	...	285	4·1*
8	...	...	...	..	...	..	...	...	...	...	...	...	...	14¼	60	23·2*	65	19·4*	...	...	...	...	...	...	270	...*
9	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	..	...	68	15·8*	...	...	..	..	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	75	26·0*	90	7·9*	...	...	90	6·1*	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	210	7·7*	..	...	...	...	...	...	...	...
12	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...		..	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	. .	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	270	24·9*	270	16·8*	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	.	...	...	...	...	...	...	...
18	...	...	...	..	...	...	...	...	...	...	...	...	...	14¼	...	...	150	6·1*	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	128	13·8*	315	...	...	...	300	5·2*	300	4·8*
20	...	...	...	...	...	..	...	...	...	...	...	...	...	14¼	113	20·3*	120	11·4*	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	120	10·9*	...	...	...	...	...	..	...	...
22	9	..	...	135	13·0	...	...	...	...	...	...	270	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	9	...	...	120	26·9	315	2·1	315	...	...	...	...	...	14¼	105	5·2*	105	6·2*	...	...	120	3·3*	...	...	...	...
24	11½	105	...	90	7·6	...	...	...	...	...	...	315	3·4	14¼	120	11·6*	30	4·3*	..	...	...	...	...	...	...	...
25	...	...	...	...	...	..	...	...	...	...	...	...	...	14¼	60	19·2*	53	13·6*	05	2·6*	360	3·4*	...	..	...	...
26	...	..	...	...	..	...	...	...	...	...	...	...	...	14¼	...	...	45	3·6*	...	...	...	...	30	2·4*	...	...
27	9¼	...	...	360	10·1	...	...	...	...	...	...	315	2·6	14¼	...	...	360	5·6*	...	...	...	...	20	4·1*	..	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	9¾	105	16·1	90	13·0	...	...	...	...	...	...	...	...	14¼	...	...	128	11·5*	...	...	...	...	105	7·0*	...	...
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.

* Observatory Pamplemousses.

297/11/37—R.A.O. 250.

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ROYAL ALFRED OBSERVATORY, MAURITIUS.

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RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

FEBRUARY, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

Published by Authority of His Excellency the Governor

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1938

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF FEBRUARY, 1937

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 1 γ)	Daily Range† Vertical Force. (Unit 1 γ)	HRx : 10000	ZRz : 10000
FEB.	′			′				
1	13°17.0	.22490	.29725	19.2	30	58	67	172
2	17·6	493	724	16·0	25	44	56	131
3	18·4	455	725	13·0	160	44	360	131
4	18.2	429	736	13·0	63	46	142	137
5	19.0	451	731	9.7	33	49	74	146
6	17·4	470	732	14·5	66	52	148	154
7	18.1	470	729	12·6	29	40	65	119
8	18·4	476	727	11·2	22	39	50	116
9	18·1	474	729	18·3	114	50	256	148
10	19·2	459	738	13·5	82	37	184	110
11	19·5	471	...	15·3	29	...	65	...
12	18·8	475	...	17·8	48	...	108	...
13	19·1	474	724	15.5	43	53	97	157
14	19·7	469	729	16·5	52	48	117	143
15	19·5	463	729	14·0	38	41	85	122
16	18·5	463	726	15·0	51	57	115	169
17	19·2	475	728	14·5	66	34	149	101
18	19·2	481	727	10·3	34	36	76	107
19	19·0	485	725	15·6	121	40	272	119
20	19·5	491	727	13·1	54	27	122	80
21	18·9	493	722	6·7	51	43	115	128
22	18·8	483	724	15·3	79	41	178	122
23	19·0	483	723	15·3	21	36	47	107
24	18·7	491	716	19·0	26	57	58	169
25	19·2	503	717	17·8	35	61	79	181
26	19·2	494	716	17·3	25	42	56	125
27	18·8	492	716	16·5	35	72	79	214
28	19·4	503	715	17·8	65	31	146	92
...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...
Mean	13°18·76	·22477	·29725	14·80	53·5	45·3	120·2	134·6

Description of the Principal Magnetic Disturbances.

Declination.— 3d. Disturbed—Important fluctuations in the trace between 6^h and 12^h.
Between 22^h. 45^m and 23^h. 45^m. large negative wave ($5^\prime$)
5d. Slightly disturbed.
9d. and 10. Slightly disturbed at times.
19d., 20d. and 21d. Slightly disturbed at times.

Horizontal Force.—1d. Very slightly disturbed.
3d. Sudden commencement at 2^h. 58 of a disturbed period of long duration. Important irregular fluctuations in the trace with small oscillations superposed throughout 3d. Between 22^h. and 24^h. large wave (83γ). The disturbance gradually subsides during the early part of 4d.
4d., 5d. and 6d. Slightly disturbed.
9d., 10d. and 11d. Moderately disturbed.
12d. and 13d. Slightly disturbed.
18d. 23^h. Sudden commencement of a long and moderately disturbed period gradually subsiding on 22d. Frequent small oscillations in the trace
25d. Slightly disturbed.
28d. Slightly disturbed.

Vertical Force.— 3d. Sudden commencement at 2^h. 58^m. of a very disturbed period gradually subsiding during the early part of 4d. Rapid small oscillation superposed on a largely fluctuating trace.
Between 22^h. and 24^h. large wave (25γ).
9d. and 10d. Moderately disturbed.
11d. Slightly disturbed.
12d. and 13d. Slightly disturbed.
18d. 23^h. Sudden commencement of a long and moderately disturbed period gradually subsiding on 22d. Frequent small oscillations in the trace.

T=·37266 : Mean Dip=52° 54·28′ : (X=·21873 : Y=−·05175 : Z=·29725).

† 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 1937.

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
5·14.12	13·17·0	3· 8·37	·22429	5.13.58	52.56.50	·29708
16·15·07	13·11·5	6·11·25	·22502	9·13·31	52·50·50	·29701
23·14·40	13·11·4	11· 9·52	·22476	16·14·56	52·53·06	·29687
		17· 9·41	·22479	23·14·25	52·52·75	·29706
		22· 9·14	·22484			
		24· 9·35	·22488			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

FEBRUARY 1937

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	17·5	18·3	18·3	20·5	18·5	18·7	18·7	18·7	18·7	20·0	18·5	19·5	19·5	18·7	20·5	19·5	Midnight
1h	17·5	18·4	18·3	20·0	18·7	18·0	18·5	18·3	18·5	20·5	19·3	19·5	19·5	18·5	20·5	19·3	1h
2	17·7	18·0	18·0	19·5	18·3	19·0	18·0	17·7	18·5	20·0	20·0	19·5	18·7	18·7	20·3	18·7	2
3	18·0	17·7	17·5	19·5	18·0	19·0	18·3	18·5	18·5	20·5	19·7	19·7	19·5	18·3	19·0	18·5	3
4	18·4	17·5	17·0	19·5	18·0	18·7	18·0	19·3	18·7	20·7	20·0	19·5	19·5	16·5	18·0	19·3	4
5	18·0	18·2	18·3	19·7	18·7	18·5	19·5	20·0	20·3	20·7	20·5	19·7	20·0	17·5	19·5	19·0	5
6	17·3	18·5	15·5	20·0	19·0	20·0	20·0	20·5	21·0	22·0	20·5	20·0	20·5	17·0	20·0	17·5	6
7	18·5	20·0	19·5	22·5	20·0	23·0	25·0	23·0	24·0	23·0	21·7	22·0	22·5	20·0	20·7	20·0	7
8	25·0	22·3	21·5	23·3	22·5	24·5	25·3	23·7	27·3	25·3	24·0	24·5	24·7	24·0	23·3	22·5	8
9	25·5	24·5	27·0	23·5	23·0	22·0	24·0	22·5	26·0	26·5	28·0	27·5	27·0	30·5	26·5	26·0	9
10	25·5	25·0	22·5	22·3	23·7	20·0	20·0	20·5	20·0	25·0	27·5	26·7	26·5	30·0	27·0	26·0	10
11	22·0	23·0	21·0	20·0	24·0	16·0	16·0	16·5	15·0	20·0	22·0	20·0	21·5	28·0	24·0	23·5	11
Noon	14·3	19·0	17·0	17·0	22·0	12·0	13·5	14·0	12·0	17·5	18·0	15·3	18·0	20·3	19·5	19·5	Noon
13h	08·0	14·0	15·5	14·0	20·0	10·0	12·7	12·5	09·0	14·5	14·0	11·0	13·5	17·0	15·5	15·0	13h
14	06·3	09·0	14·7	11·0	17·5	10·0	13·0	13·5	09·3	13·0	12·7	09·7	11·5	14·5	13·0	12·0	14
15	07·0	09·0	14·5	10·5	15·5	12·0	14·0	15·0	11·5	14·0	14·5	11·5	12·0	14·0	13·5	11·0	15
16	09·5	10·0	14·0	11·5	14·3	13·5	15·0	16·7	14·0	16·0	16·0	14·0	14·0	14·7	14·7	12·3	16
17	14·0	14·0	15·5	15·0	15·5	16·0	17·3	18·5	16·7	17·5	19·0	17·0	17·0	17·5	17·5	15·0	17
18	17·0	16·0	17·0	16·5	16·7	17·5	18·5	19·3	17·5	18·3	19·5	18·7	18·5	18·5	18·7	17·0	18
19	17·3	17·3	17·3	17·7	17·3	18·5	18·0	18·5	19·0	17·0	18·7	18·5	19·0	18·3	18·5	17·5	19
20	17·5	17·2	18·0	17·3	18·0	17·5	18·3	18·5	19·0	16·7	18·5	18·7	18·5	18·7	18·3	18·0	20
21	18·0	17·7	20·0	17·5	19·0	17·5	17·7	18·5	19·5	17·0	18·5	19·5	18·5	19·3	19·3	19·0	21
22	18·5	18·3	20·7	18·7	18·5	18·0	18·0	18·5	20·0	18·0	18·7	20·5	18·7	20·3	19·5	19·0	22
23	18·5	18·5	21·0	21·0	19·0	18·3	18·0	18·7	20·3	18·0	18·7	19·7	19·7	20·7	20·0	19·3	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	...	...	...	Mean	Hour \ Day.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	19·2	19·7	20·0	19·7	19·5	20·0	19·0	19·3	19·5	19·3	19·2	19·3	...	...	...	19·2	Midnight
1h	19·3	19·5	19·0	19·7	19·5	20·0	19·7	19·5	19·7	19·5	19·5	19·5	...	...	...	19·2	1h
2	19·5	19·5	19·5	19·5	19·7	19·8	20·0	19·5	19·5	19·7	19·5	19·7	...	...	...	19·1	2
3	19·5	19·0	19·0	19·3	19·7	20·0	20·0	20·0	20·0	20·0	19·7	20·0	...	...	...	19·2	3
4	19·3	19·0	19·0	20·0	20·0	20·0	20·0	20·0	20·0	20·2	19·7	20·0	...	...	...	19·1	4
5	19·5	19·0	16·3	20·2	20·0	20·0	20·3	20·0	20·0	20·3	19·5	20·0	...	...	...	19·4	5
6	19·7	17·3	17·0	20·7	20.0	20·0	20·0	20·0	19·7	20·3	19·3	19·5	...	...	...	19·4	6
7	20·2	17·5	18·5	21·0	21·0	20·3	20·7	22·0	20·7	21·5	19·0	20·0	...	...	...	21·0	7
8	23·0	20·5	22·0	23·7	24·5	23·0	23·0	26·0	24·0	24·0	22·5	22·7	...	...	...	23·7	8
9	27·0	24·0	25·0	25·5	27·0	25·3	26·3	27·7	27·0	27·0	25·5	27·0	...	...	...	25·9	9
10	25·5	25·0	26·3	26·1	25·5	26·0	26·0	27·0	28·5	27·3	27·0	28·5	...	...	...	25·2	10
11	23·5	24·5	25·5	23·0	23·5	24·0	23·0	24·0	26·7	26·0	26·0	27·0	...	...	...	22·5	11
Noon	20·0	20·5	24·0	20·7	20·0	20·3	19·5	19·0	21·0	22·0	22·5	23·0	...	...	...	18·6	Noon
13h	17·0	18·5	17·0	18·5	15·0	16·0	15·5	12·5	14·0	17·5	15·0	18·0	...	...	...	14·7	13h
14	15·0	17·5	13·3	15·0	11·0	11·5	12·0	08·7	11·0	12·5	10·5	12·0	...	...	...	12·2	14
15	12·5	15·0	10·7	13·0	10·3	10·7	11·0	08·7	10·7	10·0	10·5	10·7	..	...	...	11·9	15
16	13·0	14·7	11·5	14·0	11·2	11·0	12·7	10·5	12·5	10·3	10·7	12·5	...	...	...	13·0	16
17	15·5	16·5	16·5	16·5	15·5	15·0	16·0	14·7	15·7	14·5	15·0	16·3	...	...	...	16·1	17
18	17·0	18·5	17·7	17·7	17·3	16·7	18·0	17·0	17·3	17·0	17·3	18·0	...	...	...	17·7	18
19	17·5	18·7	18·3	17·5	18·0	17·5	18·0	17·5	17·7	17·5	17·7	17·5	...	...	...	17·9	19
20	18·5	18·3	18·0	18·3	17·5	18·3	18·3	18·0	18·5	17·7	18·0	18·0	...	...	...	18·1	20
21	19·5	19·0	20·7	19·0	18·3	18·5	19.0	18·2	19·0	18·3	18·5	18.5	...	...	...	18·7	21
22	20·0	19·3	20·7	19·7	19·0	18·7	19·0	19·0	19·0	18·7	18·7	18·7	...	...	...	19·1	22
23	20·0	19·0	20·0	19·5	20·5	19·2	19·3	19·3	19·0	19·3	19·3	19·5	...	...	...	19·4	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 1937.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	489	482	486	380	447	473	451	449	477	417	463	479	493	477	455	467	Midnight
1h	490	481	488	400	440	477	472	480	480	409	462	475	460	475	445	467	1h
2	493	482	493	417	449	461	465	477	480	440	467	478	481	472	440	470	2
3	497	483	497	413	451	455	469	471	490	450	470	475	462	470	447	471	3
4	499	486	523	410	455	460	470	470	502	452	465	475	463	487	473	471	4
5	493	488	510	420	451	462	467	470	500	450	463	477	465	480	463	475	5
6	495	491	515	429	451	462	469	470	485	460	466	479	467	479	470	481	6
7	502	503	500	435	450	466	464	470	483	465	472	481	467	478	470	483	7
8	503	507	498	433	448	466	465	468	478	458	470	477	469	473	463	480	8
9	505	506	497	427	449	477	470	470	480	458	468	470	471	470	460	470	9
10	500	504	469	425	448	487	472	469	484	454	475	470	480	469	469	465	10
11	492	503	430	435	457	500	477	473	505	465	473	480	493	475	473	465	11
Noon	489	505	430	440	443	511	478	484	515	479	483	486	503	479	478	469	Noon
13h	490	505	450	437	433	503	473	490	519	489	491	490	505	472	476	478	13h
14	488	502	439	427	436	480	475	490	515	491	487	493	491	470	475	472	14
15	490	500	430	440	443	465	477	482	513	480	481	491	473	470	473	465	15
16	487	501	440	434	452	473	480	481	490	465	473	490	462	470	471	455	16
17	485	497	433	443	455	467	477	480	473	452	463	487	471	470	465	448	17
18	480	490	430	434	458	457	472	480	452	449	462	476	462	470	465	440	18
19	475	483	430	433	457	445	465	478	440	450	464	465	470	469	455	434	19
20	480	482	435	441	456	453	465	477	415	458	467	460	472	469	449	432	20
21	483	483	405	440	460	459	467	477	410	461	470	450	466	455	450	445	21
22	483	483	363	438	466	460	468	478	418	465	469	445	464	440	456	466	22
23	482	482	380	435	455	460	468	476	405	465	470	452	465	435	465	462	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	...	...	...	Mean	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	465	470	480	461	480	501	476	484	495	493	486	487	...	...	...	470·8	Midnight
1h	470	469	489	465	481	475	477	483	497	490	488	490	...	...	...	470·5	1h
2	470	475	498	470	485	481	476	487	499	491	490	491	...	...	...	474·2	2
3	472	481	492	482	483	482	477	487	500	493	490	495	...	...	...	475·2	3
4	477	476	487	490	479	486	478	486	500	497	490	499	...	...	...	478·8	4
5	479	475	505	491	480	487	476	486	500	497	491	498	...	...	...	478·5	5
6	480	481	500	492	489	487	478	485	501	500	492	496	...	...	...	480·4	6
7	479	483	505	505	491	485	485	489	501	502	500	501	...	...	...	482·7	7
8	481	485	520	509	512	488	487	492	500	507	506	510	...	...	...	484·0	8
9	479	489	505	507	515	587	489	483	490	505	502	515	...	...	...	482·6	9
10	483	491	510	515	512	495	491	487	492	501	498	517	...	...	...	483·3	10
11	500	497	520	512	520	501	492	493	510	500	501	530	...	...	...	488·3	11
Noon	508	502	515	514	521	497	497	502	520	508	500	535	...	...	...	492·5	Noon
13h	503	503	521	515	517	485	488	495	525	506	505	535	...	...	...	492·8	13h
14	502	500	518	515	513	477	487	502	516	501	503	531	...	...	...	489·1	14
15	485	491	505	505	501	465	481	509	510	497	504	527	...	...	...	484·0	15
16	481	480	485	489	492	453	480	502	519	400	506	520	...	...	...	479·3	16
17	465	472	455	482	483	441	481	490	510	483	488	505	...	...	...	472·2	17
18	445	470	457	479	482	440	481	487	500	487	471	491	...	...	...	466·7	18
19	442	469	460	487	475	449	480	487	500	487	473	489	...	...	...	464·7	19
20	449	469	440	472	470	505	480	491	499	485	478	487	...	...	...	465·6	20
21	450	469	400	473	472	512	480	490	497	484	478	480	...	...	...	463·1	21
22	455	472	421	465	475	517	481	487	493	486	481	479	...	...	...	463·1	22
23	467	473	455	471	483	519	481	485	492	483	483	470	...	...	...	465·0	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 1937

Hour. / Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	730	731	730	750	739	735	734	731	730	749	736	...	734	731	737	733	Midnight
1h	730	731	730	748	740	732	733	730	730	747	736	...	735	730	733	732	1h
2	730	730	729	744	739	735	733	730	730	749	736	...	730	729	733	731	2
3	729	730	730	745	739	736	734	731	731	741	735	...	731	729	731	731	3
4	729	729	725	745	739	736	735	732	730	741	735	...	731	727	729	731	4
5	729	729	729	744	740	736	737	734	732	741	737	...	731	727	731	730	5
6	730	730	726	744	740	739	740	737	733	743	739	...	732	727	734	729	6
7	734	735	733	749	743	739	749	740	743	746	740	...	739	732	744	732	7
8	743	741	740	749	747	729	741	737	747	756	746	...	741	748	750	741	8
9	746	740	743	746	750	715	729	731	725	752	749	*	743	757	742	747	9
10	739	735	730	737	748	703	721	725	707	737	740	737	733	749	741	740	10
11	719	719	714	725	741	690	715	712	700	727	*	721	717	720	724	721	11
Noon	700	703	715	710	730	687	709	701	697	723	...	706	703	713	712	712	Noon
13h	688	697	713	704	719	692	710	706	700	719	...	700	695	710	709	699	13h
14	690	700	711	710	709	703	713	717	710	720	...	701	693	709	710	690	14
15	700	707	717	720	701	712	721	725	720	727	...	710	700	712	712	699	15
16	706	713	720	730	705	720	726	729	729	732	...	720	710	720	719	711	16
17	731	721	725	737	713	739	732	730	737	736	...	726	721	724	725	724	17
18	736	723	729	740	720	733	733	730	739	739	...	731	726	727	726	731	18
19	733	726	730	739	723	735	731	729	740	736	...	730	727	727	726	731	19
20	732	727	730	736	727	734	731	729	741	736	...	731	729	729	729	732	20
21	732	729	737	738	731	733	730	730	744	738	...	733	729	731	733	736	21
22	732	730	743	740	730	733	731	730	743	737	...	738	731	733	732	735	22
23	733	731	755	743	732	733	731	731	747	736	...	733	732	735	733	735	23

Hour. / Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	...	...	...	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	735	731	731	731	729	727	730	729	724	724	727	728	...	...	...	732·3	Midnight
1h	734	731	730	731	729	727	730	728	725	723	725	727	...	...	...	731·6	1
2	733	730	729	731	728	726	729	727	724	723	724	725	...	...	...	730·8	2
3	731	729	729	730	727	726	729	726	724	722	723	724	...	...	...	730·3	3
4	731	729	729	730	728	726	729	727	725	723	723	723	...	...	...	730·1	4
5	730	729	726	731	729	727	730	728	725	724	723	724	...	.	...	730·6	5
6	730	728	727	730	729	727	730	728	726	725	724	724	...	...	...	731·2	6
7	731	730	729	731	732	730	733	734	731	729	729	725	...	...	...	735·5	7
8	740	740	734	735	735	740	741	741	739	735	737	731	...	...	...	740·7	8
9	742	741	736	735	734	741	740	736	740	736	741	739	...	...	...	739·5	9
10	736	739	732	724	725	733	731	735	733	726	736	735	...	...	...	731·5	10
11	724	731	720	718	715	723	723	710	713	712	710	721	...	...	...	718·1	11
Noon	720	730	711	713	704	711	711	690	698	697	700	695	...	...	...	707·1	Noon
13h	712	710	700	708	694	701	706	672	679	685	673	671	...	...	...	698.7	13h
14	709	705	700	712	692	700	705	671	681	678	669	670	...	...	...	699·1	14
15	708	706	703	719	699	700	712	684	690	682	677	677	...	...	...	705·8	15
16	714	714	713	729	709	711	723	699	705	696	689	690	...	...	..	713·9	16
17	720	723	729	732	720	724	731	710	709	710	706	706	...	...	...	723·7	17
18	728	729	722	733	725	731	732	717	716	717	719	715	...	...	...	727·5	18
19	729	729	730	728	725	730	739	719	717	719	721	719	...	...	...	728·4	19
20	731	728	730	729	726	731	729	721	721	721	723	721	...	...	...	729·0	20
21	731	730	740	729	727	731	729	722	722	725	727	723	...	...	...	731·0	21
22	733	730	735	730	728	731	729	724	723	725	728	726	...	...	...	731·6	22
23	732	730	732	729	729	730	729	725	724	725	728	729	...	...	...	732·7	23

* Driving gear out of order.

TABLE VI.—RESULTS of METEOROLOGICAL OBSERVATIONS made at the AEROLOGICAL STATION Vacoas (424·5 metres above mean sea-level) during the MONTH of FEBRUARY 1937.

Month and day 1937.	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.
FEB.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	967·8	25·9	3·5	19·9	69	23·0	80	6·3	6	22·4	26·9	26·2	22·6	28·0	21·4	6·6	0·0	0	9·6	74
2	969·8	26·3	3·2	20·9	72	24·5	04	3·1	8	22·4	26·0	28·5	23·5	29·2	21·6	7·6	1·9	33	11·5	89
3	969·7	26·4	3·2	21·0	72	24·6	75	2·2	4	22·1	24·8	26·5	22·1	28·1	21·9	6·2	1·0	22	6·3	49
4	967·6	24·9	2·4	20·8	78	24·3	80	2·2	9	21·2	24·9	26·0	21·4	26·7	20·2	6·5	0·0	0	3·4	26
5	966·4	25·9	3·5	19·9	69	23·0	75	3·1	5	20·2	25·8	23·0	21·5	28·0	19·9	8·1	2·2	28	5·6	43
6	966·4	25·7	2·8	20·9	75	24·5	110	4·5	10	20·9	24·5	26·0	23·0	27·4	20·9	6·5	0·0	0	6·6	51
7	967·3	24·1	1·9	20·8	82	24·3	90	4·0	10	22·1	23·0	25·1	22·0	27·0	21·8	5·2	14·4	103	4·8	37
8	965·6	24·9	3·0	19·7	73	22·7	110	5·8	7	21·0	23·9	25·4	22·9	26·0	20·9	5·1	1·5	13	9·7	76
9	962·3	23·4	0·9	21·8	91	25·9	110	7·6	10	21·0	22·0	24·2	22·8	25·0	20·9	4·6	17·5	127	4·9	38
10	961·5	24·3	1·9	21·0	82	24·6	115	7·6	9	21·0	21·9	25·0	22·2	26·5	21·0	5·5	6·9	64	7·0	55
11	961·4	24·8	1·8	21·7	83	25·7	Calm		8	21·9	23·0	27·4	23·2	28·3	20·9	7·4	3·9	21	5·4	42
12	963·5	25·5	2·1	21·9	80	26·0	280	0·9	9	21·1	24·1	28·5	23·6	29·0	20·9	8·1	2·9	16	9·3	73
13	962·5	25·9	2·8	21·1	75	24·8	Calm		10	21·6	25·8	28·0	23·0	28·1	20·1	8·0	0·2	2	4·7	37
14	961·7	25·3	2·5	21·0	77	24·6	Calm		9	21·2	24·0	29·2	24·0	29·5	20·5	9·0	0·0	0	7·0	55
15	959·6	27·0	3·6	21·0	77	24·6	Calm		5	20·0	27·3	28·8	23·4	29·6	18·3	11·3	0·0	0	11·5	91
16	959·6	27·1	3·7	20·9	69	24·5	Calm		9	20·6	26·0	27·9	23·1	29·4	21·9	8·0	2·2	16	7·1	56
17	961·2	27·0	3·0	22·0	74	26·2	280	0·5	7	22·8	25·1	28·3	23·5	30·4	22·8	7·6	0·6	27	7·4	58
18	962·3	21·9	0·4	21·2	96	24·9	Calm		10	21·3	22·5	23·0	22·5	24·7	20·5	4·2	26·6	74	0·4	3
19	961·1	26·5	2·2	22·8	80	27·5	340	3·6	10	23·0	24·6	25·3	23·5	27·6	22·0	5·6	9·3	65	0·6	5
20	961·7	23·4	0·1	23·2	99	28·1	Calm		10	22·3	22·0	26·5	24·0	27·0	22·0	5·0	13·8	111	3·0	24
21	961·5	26·6	2·9	21·7	74	25·7	20	2·7	10	22·0	26·0	28·4	25·0	29·0	21·9	7·1	2·0	20	7·9	63
22	960·3	24·1	0·2	23·8	98	29·2	Calm		10	24·0	22·6	27·8	23·6	29·0	22·6	6·4	29·9	165	1·1	9
23	959·9	25·6	1·8	22·5	83	27·0	Calm		10	23·1	27·8	28·1	24·3	29·0	23·1	5·9	0·5	7	6·2	49
24	961·9	25·9	1·6	23·2	85	28·1	Calm		8	21·5	24·3	26·5	23·2	30·0	21·5	8·5	40·9	179	4·6	37
25	963·7	28·9	3·6	22·9	70	27·6	Calm		8	22·4	27·3	24·0	23·5	29·9	22·0	7·9	85·1	120	5·8	46
26	963·0	25·3	1·4	22·9	86	27·6	*	*	10	23·5	24·0	28·0	23·3	28·3	21·4	6·9	4·9	56	7·1	57
27	960·5	23·2	0·5	22·3	95	26·7	90	5·4	10	23·2	24·3	23·8	23·3	24·5	22·0	2·5	13·5	86	1·5	12
28	961·6	23·3	0·3	22·8	97	27·5	70	6·3	10	23·1	23·0	21·4	21·9	23·3	21·4	1·9	44·0	178	0·0	0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	963·3	25·3	2·2	21·6	80·7	25·5	...	2·3	8·3	22·6	24·5	26·3	23·1	27·8	21·3	6·5	325·7	1533	5·71	44·8
Average	963·7	24·8	2·4	20·8	78·6	24·5	...	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	+	40·9mbs.	Amount of rain	—	196·4mms.
Temperature of the Air	+	2·7°C	Duration of sunshine	+	54·0hrs.
Vapour Tension	+	3·5mbs.	Mean of maximum temperatures	+	2·2°C
Relative Humidity	—	3·2%	,, minimum temperatures	+	3·0°C
Velocity of Wind	+	0·4mps.	Absolute maximum temperature	+	1·8°C
Amount of Cloud	—	0·3	,, minimum temperature	+	3·6°C

Greatest Rainfall intensity at Vacoas. 42·0 mms. in 23 minutes.

* Violent thunderstorm on 25th wind vane destroyed by lightning.

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of FEBRUARY 1937

Month and Day 1937.	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.		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 the Beckley Pluviograph.	Duration		
FEB	mbs.	mbs.	°C	°C	°C	°C	°C	C	°C	°C			mbs.	°C	mms.	min	mms.	
1	1009·2	+ 4·7	29·1	23·6	5·5	25·8	− 0·1	2·2	22·1	+ 0·3	80	+ 2	26·3	22·2	0·6	25	6·8	5·0
2	1010·9	+ 6·5	29·9	23·0	6·9	26·4	+ 0·5	2·1	22·9	+ 1·1	81	+ 3	27·6	22·5	4·0	10	7·8	5·7
3	1010·1	+ 5·7	29·3	23·9	5·4	26·2	+ 0·3	2·3	22·3	+ 0·5	79	+ 1	26·7	22·6	0·0	...	7·5	5·3
4	1008·0	+ 3·6	28·3	22·0	6·3	25·1	− 0·8	2·3	21·2	− 0·6	79	+ 1	24·9	19·9	0·0	...	5·6	4·6
5	1007·2	+ 2·9	29·3	22·2	7·1	25·4	− 0·5	2·3	21·5	− 0·3	79	+ 1	25·4	19·8	0·0	...	5·7	3·6
6	1007·3	+ 3·0	28·9	22·2	6·7	25·5	− 0·4	2·3	21·6	− 0·2	79	+ 1	25·5	20·8	0·0	...	5·3	6·1
7	1007·4	+ 3·1	28·0	23·5	4·5	25·1	− 0·8	1·9	21·9	+ 0.1	83	+ 4	26·0	22·0	5·1	25	5·3	6·0
8	1005·2	+ 0·9	29·2	22·8	6·4	25·7	− 0·2	2·8	20·9	− 0·9	75	− 4	24·5	20·9	1·4	25	5·7	4·7
9	1002·6	− 1·7	28·8	23·5	5·3	25·4	− 0·5	1·7	22·5	+ 0·5	84	+ 5	27·0	22·4	5.0	180	7·1	6·7
10	1001·6	− 2·7	29·9	22·6	7·3	25·8	− 0·1	2·5	21·5	− 0·5	77	− 2	25·4	20·06	0·2	15	5·6	4·7
11	1001·7	− 2.6	29·7	23·3	6·4	26·2	+ 0·3	1·9	23·0	+ 1·0	82	+ 3	27·8	21·8	5·0	40	6·0	4·6
12	1003·3	− 1·0	30·2	22·9	7·3	26·4	+ 0·6	1.8	23·4	+ 1·5	83	+ 4	28·3	20·9	14·5	90	6·5	4·3
13	1002·5	− 1·8	30·3	23·0	7·3	26·6	+ 0·8	2·4	22·5	+ 0·6	78	− 1	27·0	21·0	0·0	...	7·0	5·9
14	1001·4	− 2·9	31·1	23·1	8·0	26·8	+ 1·0	2·5	22·6	+ 0·7	78	− 1	27·1	21·0	0·0	...	5·5	5·4
15	999·4	− 5.0	31·6	21·9	9·7	26·7	+ 0·9	2·6	22·3	+ 0·4	77	− 2	26·7	19·3	0·5	10	6·3	3·5
16	999·4	− 5·0	32·2	24·3	7·9	27·8	+ 2·0	2·1	24·3	+ 2·4	81	+ 2	30·1	22·3	3·3	35	5·9	6·3
17	1000·9	− 3·5	32·2	24·7	7·5	27·9	+ 2·1	2·4	23·9	+ 2·0	79	0	29·4	22·8	0·6	40	5·9	6·4
18	1001·6	− 2·9	29·0	24·3	4·7	26·2	+ 0·4	1·3	24·0	+ 2·1	88	+ 9	29·6	22·8	7·9	100	3·9	7·3
19	1000·9	− 3·6	31·3	25·6	5·7	27·7	+ 1·9	1·7	24·8	+ 2·9	84	+ 5	31·0	24·2	0·2	5	5·0	8·6
20	1001·3	− 3·2	30·7	24·3	6.4	27·2	+ 1·4	1·8	24·2	+ 2·3	84	+ 5	29·9	23.5	11·4	115	5·1	7·2
21	1000·9	− 3·6	31.1	24·1	7.0	27·3	+ 1·5	1·8	24·3	+ 2·4	84	+ 5	30·1	22·8	2·2	20	4·3	4·8
22	1000·0	− 4·6	31·2	24·5	6·7	27·1	+ 1·4	1·4	24·8	+ 3·0	87	+ 8	31·0	22·8	19·5	165	6·0	7·3
23	1000·3	− 4·3	31·0	25·1	5·9	27·8	+ 2·1	2·1	24·3	+ 2·5	81	+ 2	30·1	24·3	0·0	...	5·5	8·5
24	1002·6	− 2·1	32·1	24·7	7·4	27·9	+ 2·2	2·0	24·5	+ 2·7	82	+ 3	30·4	23·0	0·0	...	5·0	7·3
25	1003·8	− 0·9	31·4	24·2	7·2	27·2	+ 1·5	1·9	24·0	+ 2·2	83	+ 4	29·6	22·4	6·4	55	7·5	6·0
26	1002·2	− 2·6	29·2	25·2	4·0	26·6	+ 0·9	1·8	23·6	+ 1·8	83	+ 4	28·8	23·9	5·2	50	3·3	7·2
27	1000·6	− 4·2	28·1	24·5	3·6	26·3	+ 0·6	1·5	23·8	+ 2·0	86	+ 7	29·2	23.1	12·6	100	5·2	8·6
28	1001·6	− 3·2	26·1	24.0	2·1	25·5	− 0·2	1.0	23·8	+ 2·0	90	+ 11	29·2	22·9	23·7	280	3·3	9·3
...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
Mean	1003·4	− 1·1	30·0	23·7	6·3	26·5	+ 0·7	2·0	23·1	+ 1·2	81·6	+ 2·8	28·0	22·1	Sum 129·3	Sum 1415	5·7	6·1
Aver.	1004·5	...	29·5	22·8	6·7	25·8	...	2·3	21·9	...	78·8	...	26·0	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 1937.

Two cyclones were observed during the month. On the 8th a cyclone formed north of Rodrigues in lat 15° S and passed to the east of this island early on the 10th moving S. W. It slowly recurved south of Mauritius from the 12th—16th and then went S. S. E. It was of moderate intensity.

Pressure which started to fall on the 8th remained well below normal for the rest of the month with, at the same time, marked excess in temperature and humidity.

This was a period of hot, humid and uncomfortable weather, during which calms or very light northerly winds were recorded.

Thus from the 10th—24th, the mean temperature was 27° C, mean humidity 82% and mean wind velocity 1.7 m.p.s. On the 25th the Dines wind vane at the Aerological Station was struck by lighting during a violent thunderstorm.

On the 27th a weak cyclone formed north of Mauritius in lat 15° S and moved slowly W.

Rainfall was about 33% in defect at the observatory.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of FEBRUARY 1937.

Month and Day 1937.	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)
FEBRUARY	hrs.	%	mp.s.	mp.s.	°C.	°C.	°C.	°C.	
1	11·2	86	3·3	— 0·1	24·6	26·4	28·2	28·8	ber$_0$: bc : b
2	11·8	91	2·5	— 0·9	24·6	26·4	28·3	28·9	cr : bc : bc tsm
3	9·5	74	2·6	— 0·8	24·7	26·4	28·3	29·1	bct : bc : bct : bc : b
4	4·3	33	1·9	— 1·5	24·7	26·4	28·4	29·0	b : bc : c : bc : b
5	8·3	64	2·4	— 1·0	24·7	26·4	28·4	28.6	b : bc : bcgtl : bc : b
6	5·5	43	3·1	— 0·3	24·8	26·7	28·4	28·7	b : c : cq : c : bc
7	3·5	27	2·9	— 0·5	24·7	26·6	28·4	28·4	b : cgr : c : bc : b
8	11·3	88	3·8	+ 0·4	24·7	26·6	28·3	28·4	b : ber$_0$: bcq$_0$: bc
9	9·5	74	4·5	+ 1·1	24·8	26·7	28·2	28·3	cr$_0$r$_0$: bcq$_0$d$_0$: c : cr : br$_0$
10	8·8	69	2·5	— 0·9	24·8	26·7	28·2	28·4	br$_0$: b : bc : c : bc : b
11	7·9	62	1·7	— 1·7	24·7	26·7	28·2	28·6	bc : c : cgr$_0$r$_0$: bc : b
12	9·1	71	2·0	— 1·4	24·8	26·7	28·2	28·8	b : crr : bc : b : c : b
13	8·6	68	1·6	— 1·8	24·8	26·7	28·3	29·0	b : bc : c : cg : c : bc
14	9·5	75	1·5	— 1·9	24·9	26·7	28·4	29·3	c : bc : : bcg : bc : b
15	11·5	91	1·7	— 1·7	24·8	26·7	28·6	29·3	b : : bc : ber$_0$
16	10·4	82	1·3	— 2·1	24·8	26·7	28·6	29·3	ber$_0$: bc : : c : bcl
17	10·6	83	1·4	— 2·0	24·8	26·8	28·7	29·4	ber$_0$l : bc . c : bc : b
18	5·0	39	1·3	— 2·1	24·8	26·8	29·1	29·5	b : bc : o . ogr$_0$r$_0$t : c
19	3·9	31	2·7	— 0·7	24·8	26·8	29·0	29·3	o : c : o : c : o : or$_0$: bc
20	5·1	40	1·6	— 1·8	24·8	26·8	28·9	29·3	cr : or$_0$r$_0$: c : bc : b
21	9·9	79	1·8	— 1·6	24·9	26·8	28·9	29·3	b : bc : cr$_0$: bc
22	5·5	44	2·1	— 1·3	24·8	26·8	29.0	29·3	b : ber : oRR : bc : c
23	5·2	41	1·7	— 1·6	25·0	26·9	29·0	29.4	c
24	10·3	82	1·3	— 2·0	24·9	26·8	29·1	29·7	bc : c : bc : bctl : c bctsm : c
25	9·9	79	1·4	— 1·9	24·9	26·9	29·1	29·8	c : bc : berrtsm : bc : b
26	6·5	52	2·5	— 0·8	25·0	26·9	29·0	30·0	b : bc : cr$_0$r$_0$: c
27	1·5	12	4·1	+ 0·8	25·1	26·9	29·2	29·5	c : oRt : cr$_0$r$_0$: c : bc
28	0·0	0	3·9	+ 0·6	24·9	26·9	29·1	29·1	c : ogrrtl : ogr$_0$r$_0$: o
...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	
Mean	7·64	60·0	2·33	—1·05	24·81	26·70	28·63	29·09	.....
Average	7·60	59·7	3·38	...	25·13	26·87	28·16	28.62	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF FEBRUARY 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1012·1mbs.	at 21, 22 & 23hrs.	on 2nd	998·1mbs.	at 15 & 16hrs.	on 15th
Temperature of the Air	32·2°C	at 12·05hrs. / 12·20hrs.	on 16th / on 17th	21·9°C	at 06·00hrs.	on 15th
Daily range of temperature of the Air ...	9·7°C	...	on 15th	2·1°C	...	on 28th
Temperature of the Dew Point	27·1°C	at 10·00hrs.	on 19th	19·5°C	at 15·00hrs.	on 8th
Daily range of temperature of the Dew Point	4·2°C	...	on 12th	1·4°C	...	on 1st
Minimum on Grass	...	...	...	19·3°C	...	on 15th
Relative humidity	98·4%	at 08·00hrs.	on 12th	57·6%	at 15·00hrs.	on 3rd
Vapour Pressure	35.5mbs.	at 10.00hrs.	on 19th	22·4mbs.	at 15·00hrs.	on 8th
Evaporation in 24 hours	7·8mms.	...	on 2nd	3·3mms.	...	on 26th & 28th
Wind Velocity	6·3m.p.s	at 13·00hrs.	on 8th	0.6m.p.s.	at ...	often
Rainfall in 24 hours	23.8mms	ending 16hrs.	on 28th	...	...	...
Duration of sunshine	11·8hrs.	...	on 2nd	0·0hr.	...	on 28th

Mean Day Temperature of Air, 28·06°C Average 27·63°C. Mean Night Temperature of Air 24·91°C. Average 24·11°C.

NUMBER OF DAYS OF—

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

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

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level.)
(The cistern of the barometer is 55·2 metres above mean sea-level.)

FEBRUARY 1937.

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day \ Hour
Midnight	093	109	117	090	073	080	079	070	032	031	020	020	039	028	014	999	Midnight
1	089	104	111	081	070	073	073	063	029	026	015	030	031	021	010	993	1h
2	081	102	105	079	062	070	071	059	024	021	010	029	027	016	004	990	2
3	079	100	101	079	060	067	070	052	022	020	008	028	025	011	000	987	3
4	081	099	101	078	060	069	067	053	020	019	009	028	023	011	999	986	4
5	082	101	101	080	061	069	070	060	022	016	010	030	026	012	999	985	5
6	089	110	105	081	068	072	076	063	027	016	016	033	029	015	997	986	6
7	091	112	110	086	074	079	080	069	030	020	019	040	031	020	000	990	7
8	093	116	115	090	078	080	081	069	030	023	020	043	032	025	000	996	8
9	097	116	116	091	080	079	087	067	030	021	021	046	031	026	000	001	9
10	097	116	110	088	077	077	087	066	030	021	020	047	030	025	000	001	10
11	095	112	102	086	078	074	085	060	029	020	021	041	028	020	994	000	11
Noon	090	109	100	079	071	071	080	053	028	012	020	037	023	017	989	998	Noon
13h	087	103	097	076	069	070	073	050	022	010	011	030	020	011	986	992	13h
14	084	100	091	074	061	070	068	042	019	003	010	025	018	009	982	991	14
15	080	099	087	073	061	064	061	040	016	000	008	020	014	004	981	989	15
16	079	099	087	070	063	063	061	036	012	001	007	020	011	001	981	990	16
17	081	099	089	071	069	064	060	036	016	001	010	020	011	001	982	990	17
18	089	104	096	074	070	069	063	038	020	009	014	023	017	001	988	992	18
19	099	111	101	080	075	074	070	041	028	016	019	031	021	010	991	000	19
20	106	120	102	081	080	080	076	049	030	019	028	038	030	012	996	010	20
21	108	121	100	083	086	083	079	050	032	020	030	040	031	017	000	011	21
22	109	121	100	083	085	083	080	048	036	022	030	042	033	019	001	019	22
23	110	121	095	080	081	080	076	041	036	022	031	041	031	015	001	019	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	...	...	...	Mean	Day \ Hour
Midnight	016	018	021	014	020	007	002	021	041	032	011	019	...	...	...	1004·0	Midnight
1h	011	015	016	009	015	001	001	020	040	029	009	011	...	...	...	1003·6	1h
2	003	009	011	002	010	998	999	015	036	024	999	010	...	...	...	1003·1	2
3	001	005	010	000	003	994	993	015	033	020	990	007	...	...	...	1002·8	3
4	000	006	006	001	001	992	991	017	029	020	990	008	...	...	...	1002·7	4
5	001	008	010	006	005	993	994	020	030	021	990	009	...	...	...	1002·9	5
6	006	012	011	011	010	000	999	021	030	026	995	010	...	...	...	1003·3	6
7	013	020	012	019	012	007	002	026	036	033	000	019	...	...	...	1003·7	7
8	020	021	014	023	020	009	006	030	041	035	009	020	...	...	...	1004·1	8
9	021	031	020	029	021	010	009	032	047	039	010	021	...	...	...	1004·3	9
10	022	031	019	030	023	010	009	031	040	034	012	021	...	...	...	1004·2	10
11	021	032	016	024	020	007	007	030	046	029	015	021	...	...	...	1004·0	11
Noon	011	031	008	018	014	000	002	025	042	024	011	019	...	...	...	1003·5	Noon
13h	007	021	001	011	009	996	999	021	040	016	002	013	...	...	...	1003·0	13h
14	002	011	998	001	001	990	991	019	038	009	995	011	...	...	...	1002·5	14
15	000	006	993	999	000	986	992	019	031	010	994	007	...	...	...	1002·3	15
16	000	002	991	999	998	987	996	019	030	011	992	009	..	...	...	1002·2	16
17	000	001	990	001	999	988	998	019	031	012	998	010	...	...	...	1002·3	17
18	000	005	994	006	000	995	000	020	033	013	003	010	...	...	...	1002·7	18
19	007	010	001	012	001	002	005	027	041	017	016	021	...	...	...	1003·3	19
20	011	017	010	019	010	006	011	032	041	020	021	026	...	...	...	1003·9	20
21	016	021	017	021	010	009	019	041	041	023	026	030	...	...	...	1004·2	21
22	016	026	020	026	011	008	021	047	042	022	027	028	...	...	...	1004·3	22
23	016	024	020	024	010	006	021	045	040	020	024	024	...	...	...	1004·1	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	FEBRUARY 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	...	...	...	Mean
Midnight	6	5	8	2	1	1	3	1	6	1	2	1	1	6	3	6	3	1	9	6	2	4	9	8	8	3	8	8	...	...	...	4·4
1h	7	7	7	2	2	1	4	1	7	1	3	1	2	6	3	7	5	1	10	8	1	3	9	7	8	3	9	8	...	...	...	4·7
2	7	10	6	2	1	1	3	1	8	1	4	1	1	8	3	7	6	1	10	8	1	3	9	7	8	3	9	7	...	...	...	4·9
3	4	8	4	2	1	2	4	1	10	1	4	1	1	8	3	1	4	2	9	4	2	2	9	6	9	3	9	9	..	...	...	4·4
4	4	3	3	2	1	3	4	4	10	1	4	1	1	8	3	1	5	2	8	4	1	2	9	6	8	3	8	9	...	...	...	4·2
5	4	3	3	2	2	4	5	3	8	2	4	8	3	3	2	5	7	5	9	10	2	5	9	5	6	5	9	10	...	...	...	5·1
6	4	5	2	4	2	3	5	5	7	3	4	9	5	3	2	7	7	6	9	10	3	8	9	8	5	7	9	9	...	...	...	5·7
7	5	5	5	4	2	7	7	5	6	6	4	8	6	5	2	7	7	8	9	10	3	10	8	8	5	8	9	10	...	...	...	6·4
8	7	5	7	5	3	8	9	5	6	8	8	8	8	9	1	7	7	9	10	10	7	10	8	8	5	10	10	10	...	..	...	7·3
9	7	5	8	8	6	8	9	6	8	8	9	8	7	6	2	8	8	9	10	10	8	10	9	8	5	10	10	10	...	...	...	7·9
10	7	8	8	10	6	8	9	5	8	8	9	6	8	8	4	7	8	9	10	9	8	10	7	8	6	10	10	10	...	...	...	8·0
11	7	6	6	9	6	8	9	4	8	8	9	4	8	6	6	7	8	10	9	8	8	9	8	7	6	9	9	10	...	...	...	7·6
Noon	7	5	7	9	5	8	8	5	8	8	8	7	8	6	4	8	8	10	9	9	6	7	8	7	5	9	9	10	...	...	...	7·4
13h	6	5	8	9	5	9	9	5	8	7	6	3	9	6	6	8	8	10	9	9	8	8	9	6	6	8	9	10	...	...	...	7·5
14	5	5	6	9	5	9	8	5	8	8	8	2	9	7	6	7	10	9	9	7	7	7	9	7	8	8	8	10	...	...	...	7·4
15	4	4	6	8	7	9	8	4	6	9	7	2	9	6	5	8	8	9	9	8	0	7	9	8	8	8	7	10	...	...	...	7·1
16	4	5	7	7	7	9	7	5	7	7	6	5	9	5	5	8	9	9	9	8	6	7	8	8	6	8	9	10	...	...	...	7·1
17	6	4	7	7	7	9	7	6	9	7	3	8	9	4	3	8	9	9	10	8	5	9	9	9	9	8	10	10	...	...	...	7·5
18	5	4	9	4	7	9	8	6	6	7	3	7	9	5	3	8	8	9	9	8	5	9	9	9	7	8	10	9	...	...	...	7·1
19	5	6	8	2	7	9	9	6	9	5	3	4	9	4	3	4	8	8	9	7	4	8	9	7	6	8	9	9	...	...	...	6·6
20	5	7	3	2	1	8	2	7	3	2	1	3	2	4	3	5	4	9	9	5	4	9	9	5	5	7	7	10	...	...	...	5·0
21	1	6	1	1	1	6	3	6	2	1	1	2	2	5	3	7	3	8	5	3	4	8	8	7	2	7	4	10	...	...	...	4·2
22	1	7	1	1	1	4	3	7	2	1	1	2	5	3	3	6	2	9	5	3	5	9	8	8	3	8	8	10	...	...	...	4·5
23	2	7	1	1	1	3	3	7	3	2	1	2	7	3	3	5	2	8	5	3	7	9	8	8	3	9	7	9	...	...	...	4·6

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending. \ Day.	FEBRUARY 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	...	...	...	Total.
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	hrs
6h	0	2	0	2	15	1	0	0	0	0	0	0	3	5	9	5	0	0	0	0	2	0	5	0	10	0	0	0	...	...	...	1·0
7	17	60	44	29	60	52	0	35	46	10	7	14	57	60	60	42	45	10	0	0	56	0	54	42	60	20	2	0	...	...	...	14·5
8	60	60	60	60	60	43	12	48	60	54	15	18	60	60	60	56	60	0	0	0	60	0	56	59	60	47	0	0	...	...	...	19·0
9	60	60	54	14	45	55	30	55	55	58	42	16	60	60	60	58	60	1	1	0	59	4	18	59	60	0	0	0	...	...	...	17·4
10	60	60	60	0	59	55	1	60	59	38	25	44	59	25	59	60	60	60	0	17	15	32	49	60	60	0	0	0	...	...	...	17·9
11	60	60	60	0	60	45	30	60	48	49	20	60	40	0	59	60	60	60	8	20	23	30	38	40	60	0	0	0	...	...	...	17·5
Noon	60	60	60	0	60	40	3	60	22	56	5	53	60	28	54	51	60	60	10	5	59	42	42	60	60	5	0	0	...	...	...	17·9
13h	60	60	45	0	56	25	0	60	56	53	58	60	20	59	42	58	60	60	53	10	50	60	16	55	33	60	35	0	...	...	...	2·01
14	60	60	60	8	54	0	7	60	60	37	52	60	28	23	60	60	60	5	37	44	50	45	0	60	10	60	22	0	...	...	...	18·0
15	60	60	60	10	22	4	37	60	47	25	60	60	60	60	60	60	35	40	44	60	60	38	0	60	42	50	0	0	...	...	...	19·6
16	60	60	48	47	2	1	31	60	44	40	60	60	58	60	40	18	48	0	47	60	60	55	14	60	49	60	12	0	...	...	...	19·2
17	59	60	4	16	0	0	19	60	60	60	60	56	12	60	60	50	35	0	3	47	59	16	15	47	39	50	10	0	...	...	...	15·9
18	46	44	16	59	5	10	40	50	12	45	59	53	0	60	60	48	55	0	32	42	40	8	4	2	49	36	11	0	...	...	...	14·8
19	12	2	0	9	1	0	0	3	0	0	10	4	0	12	5	0	0	0	0	0	0	0	0	15	0	0	0	0	...	...	...	1·2

The total Amount of Registered Sunshine was 214·0 hrs. and the total possible sunshine was 356·1 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 1937.

Day. / Hour.	1d. Air.	1d. Excess of Air over Evap.	2d. Air.	2d. Excess of Air over Evap.	3d. Air.	3d. Excess of Air over Evap.	4d. Air.	4d. Excess of Air over Evap.	5d. Air.	5d. Excess of Air over Evap.	6d. Air.	6d. Excess of Air over Evap.	7d. Air.	7d. Excess of Air over Evap.	8d. Air.	8d. Excess of Air over Evap.	Day. / Hour.
Midnight	23·9	1·1	24·1	0·8	25·1	1·1	24·0	1·3	23·2	1·2	23·7	1·3	24·4	1·4	23·9	1·6	Midnight
1h	23·8	0·9	24·4	0·7	25·1	1·1	23·5	1·2	23·1	1·2	23·3	1·1	24·1	1·3	23·6	1·5	1h
2	24·0	1·0	23·8	0·8	24·9	1·0	23·3	1·1	23·1	1·2	23·1	1·1	24·1	2·1	23·9	1·5	2
3	24·0	1·0	23·1	0·9	24·6	0·8	23·1	1·1	23·0	1·1	23·2	1·0	24·0	0·9	23·4	1·4	3
4	23·9	1·1	23·1	0·9	24·1	0·8	22·7	1·0	22·8	1·1	23·0	1·0	24·1	1·0	23·1	1·1	4
5	23·9	1·1	23·4	0·7	24·1	0·8	22·1	1·1	22·3	1·2	22·8	0·9	23·8	0·9	22·9	1·2	5
6	23·7	1·1	23·6	0·8	24·0	0·9	22·1	1·0	23·0	1·0	22·3	0·9	23·8	1·1	23·0	1·0	6
7	24·2	1·1	24·9	1·0	25·3	1·3	23·3	1·3	25·0	1·7	24·1	1·2	24·3	1·1	23·4	1·2	7
8	26·4	2·4	26·9	1·9	27·1	2·2	26·2	2·5	26·8	2·8	25·0	1·6	24·6	0·6	26.1	2.4	8
9	26·7	2·8	27·8	2·8	27·1	2·3	26·6	3·2	26.0	2·4	26·9	2.7	26·0	1·9	26.5	3·2	9
10	27·1	2·9	28·8	3·5	28·6	3·8	26·6	3·3	28·1	3·9	27·7	3·7	27·1	3·8	27·7	4·0	10
11	27·6	3·6	29·1	3·8	28·7	3.8	26·9	3·3	28·8	4·8	28·1	3·8	27·3	2·9	28·1	4·7	11
Noon	28·1	4·0	29·1	3·8	29·0	4·0	27·3	3·4	29·1	4·0	28.1	4·1	25·4	1·3	28·5	4·6	Noon
13h	28·8	4·5	29·1	3·8	28·2	3·1	26·9	3·5	29·1	4·6	28·8	4·4	25·2	1·2	28·5	4·8	13h
14	28·9	4·5	29·2	3·9	29·1	4·3	27·3	3·1	29·1	4·8	28·1	4·2	27·1	3·2	28·9	4·9	14
15	28·6	4·3	29·2	4·2	28·7	4·0	27·5	3·6	28·1	4·3	27·9	3·8	27·1	3·3	28·7	5·5	15
16	28·1	3·9	28·8	3·6	28·2	4.2	28·1	4·3	26·8	2·8	27·3	3·4	27·4	3·4	28·1	4·8	16
17	27·3	3·3	28.2	3·4	26·9	3·5	28·1	4·5	26·3	2·7	27·0	3·3	26.8	2·8	26·7	4·0	17
18	26·8	2·7	27·2	2·5	26·9	3·1	26·9	3.3	26·1	2·2	26·7	2.8	26·0	2·4	26·6	3·5	18
19	25·6	1·8	26·3	1·6	25·6	1·9	25·1	2·1	24·9	1·9	25·9	2·4	25·0	1·8	25·2	2·3	19
20	24·9	1·3	25·9	1·8	24·8	1·6	24·2	1·4	24·2	1·4	25·4	2·2	24·1	2·2	25.1	2·1	20
21	24·6	1·3	25·5	1·2	24·4	1·4	23·8	1·5	24·0	1·4	25·2	1·7	24·1	1·4	25·1	2·2	21
22	24·1	1·0	25.6	1·0	24·2	1·3	23·5	1·3	23·8	1·4	25·1	1·8	23.8	1·5	25·1	2·2	22
23	24·1	0·9	25·3	1·1	24·1	1·3	23·5	1·4	23·7	1·1	23.6	0.5	23·8	1·6	24·8	1·9	23

Day. / Hour.	9d. Air.	9d. Excess of Air over Evap.	10d. Air.	10d. Excess of Air over Evap.	11d. Air.	11d. Excess of Air over Evap.	12d. Air.	12d. Excess of Air over Evap.	13d. Air.	13d. Excess of Air over Evap.	14d. Air.	14d. Excess of Air over Evap.	15d. Air.	15d. Excess of Air over Evap.	16d. Air.	16d. Excess of Air over Evap.	Day. / Hour.
Midnight	25·0	2·0	23·9	1·1	24·8	1·7	23·7	1·1	24·2	1·0	25·2	1·1	23·6	1·4	25·3	1·1	Midnight
1h	24·0	1·5	23·6	1·6	24·5	1·4	23·4	1·1	23·9	1.1	24·6	1·3	23·2	1·1	25·3	1·0	1h
2	24·3	1·3	23·3	1·1	24·6	1·4	23·1	1·1	23·3	1·0	24·0	1·0	23·1	1·1	25·2	0·6	2
3	24·1	1·2	23·1	1·1	23·9	1·1	23·1	1·0	23·1	1·0	24·0	1·0	23·0	1·0	25·0	0·9	3
4	24.1	1·2	23·1	1.2	24·0	1·1	22·9	0·9	23·0	1·0	24·1	1·0	22·8	1·2	24·4	0.7	4
5	24·3	1·3	22·7	1·0	24·0	1·2	24·0	0·7	23·1	1·0	24·1	1·0	22·2	1·1	24·6	0.8	5
6	24·0	1·1	22·9	1·4	23·6	1·2	24·3	0·5	23·1	1·0	23·3	0·9	21·9	0·9	24·7	0·9	6
7	25·0	1·5	23·6	1·3	24·3	0·9	24·9	0·3	24·6	1·0	25·0	1·4	24·1	1·3	25·6	0·6	7
8	26·1	2·0	25·1	1·2	25·7	1·6	25·2	0·2	26·6	1·7	27·2	2·9	26·1	2·1	27·6	1·8	8
9	25·8	1·2	26·2	2·2	27·8	2·8	26·8	0·8	28·2	3·3	29·0	4·2	28·4	4·4	28·9	2·7	9
10	27·0	2·1	27·1	2·9	27·9	2·9	28·0	1·7	29·1	3·4	29·0	3·8	29·5	4·2	30·5	3·1	10
11	27·4	2·6	28·1	3·6	26·9	2·1	28·9	2·9	29.3	3·7	28·8	3·7	30·4	4·9	31·3	3·7	11
Noon	25·2	1·2	29·1	4·5	28·0	2·0	30·0	3·0	30·1	4·0	29.1	3·8	30·6	4·8	32·0	4·2	Noon
13h	27·0	2·0	29·0	4·3	29·3	2·6	29·7	3·7	29·2	3·5	30·2	4·0	29·7	4·4	31·1	3·6	13h
14	28·7	3·7	28·6	4·0	28·8	2·4	30·0	4·0	29·7	3·7	30·0	3·9	30·5	4·3	31·4	3.9	14
15	27·3	2·3	28·8	4·7	29·6	3·6	30.0	3·7	29·7	3·7	30·8	4·1	30·7	4·6	31·1	4·1	15
16	25·9	1·8	28·8	4·4	29·1	3·7	30·0	3·8	29·1	4·1	30·1	4·1	29·8	3·8	30·0	3·2	16
17	27·1	2·9	28·4	4·4	28·8	3·7	28·9	3·1	28·3	3·3	30·1	4·2	30·1	4·0	29·1	3·0	17
18	26·2	2.2	27·9	3·9	28·1	3·1	28·2	3·2	27·8	2·8	29·4	4·1	29·9	3·9	29·1	2·9	18
19	24·2	0·9	26·1	2·9	26·6	1·8	27.1	2·1	27·0	2·7	27·1	2·3	28·1	3·0	27·9	1·9	19
20	24·4	1·0	25·1	2·6	26·0	1·4	26·1	1·5	26·0	1·8	26·0	1·9	26·3	1·7	26·9	1·5	20
21	24·4	1·1	25·0	2·1	25·2	1·2	25·4	1·3	26·4	2·4	25·2	1·4	26·0	1·4	26.2	1·2	21
22	24·1	1·0	24·6	1·6	24·9	1·1	25·0	1·0	26·7	2·4	24·3	1·3	25·2	1·2	26·2	1·1	22
23	24·0	1.0	24·3	1·3	24·1	1·1	24·6	0·9	26·3	2·2	23·7	1·4	25·1	1·0	26·4	1·1	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*)

FEBRUARY 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	26·2	0·9	25·1	1·2	25·9	0·8	26·0	0·9	25·1	0·9	25·3	0·9	26·0	1·2	25·3	0·8	Midnight
1h	26.1	0·8	24·7	1·0	26·0	0·7	26·3	1·6	24·8	0·8	25·0	0·9	26·0	1·1	25·3	1·0	1h
2	25·8	0·9	24·6	1·0	26·2	0·7	26·1	1·5	24·9	0·8	24·8	0·8	26·1	1·0	24·9	0·9	2
3	25·2	0.6	24·6	0·9	25·1	1·0	26·0	1·7	24·8	0·7	24·6	0·7	26·1	1·1	24·9	0·9	3
4	24·9	0.9	24·5	0·9	26·0	0·9	26·1	1·6	24·5	0·8	24·7	0·8	26·0	1·1	24·9	0·9	4
5	25·0	0·8	24·6	0·9	26·0	0·9	25·7	1·6	24·1	0.8	24·9	0·8	26·0	1·0	24.8	0·9	5
6	24·8	0.9	24·7	0·8	26·0	0·9	25·6	1·7	24·2	0·9	25·1	0·5	26·0	1·0	24.9	0·9	6
7	25·8	0·8	26·1	1·0	26·3	0·8	25·6	1·6	26·0	0 8	25·3	0·3	27·1	1·1	26·0	0·7	7
8	28·0	1·3	27·3	1·2	27·2	1·1	25·6	1·6	27·7	1·7	26·0	0·6	28·9	2·7	28·2	1·8	8
9	30 0	3·0	28·3	1·6	28·0	1·5	26·3	1·6	28·6	2·6	27·0	0·3	29·1	2·8	30·0	2·7	9
10	30·1	4·1	25·9	1·0	28·9	1·1	27·0	1·6	27·9	1·5	27·7	0·7	29·7	2·5	30·3	3 0	10
11	30·9	4·2	26 5	1·4	29·2	2·4	28·2	1·9	28·9	2·2	29·0	1·9	29·3	4·2	30.6	2·9	11
Noon	31·1	3·9	25·3	0·9	30·0	2·8	29·2	2·1	29·5	2·3	30 3	3·1	30·3	3·6	31·1	3·0	Noon
13h	31·1	5·0	25·2	0·9	31·0	3·3	29·3	2·3	30·3	2.9	31·0	3·0	30·0	3·3	31·7	3·5	13h
14	31·6	5·3	27·1	2·1	30·7	3·5	29·7	2·7	30·0	2·9	30·3	2·5	30·1	3·4	31·9	4·0	14
15	31.0	4·1	28·7	2·5	31·3	3·7	30·0	2·8	31·0	3·7	29·3	2·1	30·0	3·3	31·9	4·2	15
16	30·9	4·4	28·9	2·8	30·2	3.0	29·8	3·0	30·6	3·8	29·9	2·7	30·0	3·0	30·3	3·4	16
17	30·1	4·0	28·6	2·5	29·1	3·0	29·9	2·9	30.2	3·2	28·9	2·0	29·0	2.9	30.6	3·6	17
18	29·8	3·7	28·0	2·1	29·0	2·9	29·0	2·7	29·1	2·8	28·0	1·9	28·4	2·4	28·1	2·0	18
19	28·1	2·1	26·5	1·3	27·2	1·7	27 9	1·8	28·1	2·0	27·3	1·4	27·8	1·8	27·7	1·7	19
20	27·1	1·8	25·9	1·0	26·7	1·5	26·7	1·3	26·9	1·3	27·1	1·8	27·1	1·2	27·0	1·1	20
21	26·3	1·5	25·5	0·9	26·1	1·1	26 1	1·1	26.7	1·4	26·9	1·7	26·9	1·6	26·2	1·2	21
22	25·8	1·5	25.5	0·8	25 9	0·9	25·4	0·7	26·1	1·0	26·3	1·3	26·1	1·1	26·0	1·1	22
23	25·1	1·1	25·9	0·9	26·0	1·0	25 0	0·8	25 6	1·1	26·2	1·3	25·7	1·5	25·9	1·1	23

Day. / Hour.	25d.		26d.		27d.		28d.		...		...		...		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	25·3	0·6	25.6	0·8	25·3	1·6	25·9	1 6	...	...	..	...	...	...	24 8	1·1	Midnight
1h	25·3	0·8	25·6	0.9	25·9	1·8	26·0	1·4	...	...	...	...	...	...	24·7	1·2	1h
2	25·3	0·8	25·3	0·6	26·0	1·7	26·0	1·4	...	...	...	...	...	...	24·5	1·1	2
3	25.2	1·0	25·3	0·5	25.9	1·2	25·8	1·1	...	...	...	...	...	...	24·4	1·0	3
4	25·0	0·9	25·2	0·5	25·9	1·4	25·9	1·3	...	...	...	...	...	...	24·2	1·0	4
5	24·8	0·9	25·2	0.8	26·0	1.7	25·8	1·0	..	...	...	...	...	...	24·2	1·0	5
6	24·3	0·8	25·2	0·6	26·1	1·3	25·2	0·9	...	...	...	...	...	...	24.1	0·9	6
7	26·0	1·0	26·0	1·0	26·2	1·3	24·1	0·7	...	...	...	...	...	...	25·1	1·1	7
8	28·2	2·2	27·8	1·8	24·6	0·7	25.1	0·5	...	...	...	...	...	...	26·6	1·7	8
9	29·1	3·1	26·0	1·0	25·0	0·5	26·0	0·9	...	...	...	...	...	...	27·4	2·3	9
10	29·6	3·5	26·1	0·9	25·2	0·4	25·9	0·8	...	...	...	...	...	...	28·0	2·6	10
11	30·1	3·6	27·0	1·8	26·1	1·0	24·9	0·6	...	...	...	...	...	...	28·4	3 0	11
Noon	30·9	4·7	27·9	2·0	26·9	1·0	25·1	0·7	...	...	...	...	...	...	28·8	3·1	Noon
13h	30·9	3·8	28·9	3·9	27 4	1.6	24·7	0·6	...	...	...	...	...	---	29·0	3·3	13h
14	28·1	1·9	29·0	4·0	27·8	2·6	25·1	0·8	...	...	...	...	...	...	29·2	3·5	14
15	28.0	2·3	29·0	3·9	27·9	2·6	25·8	1·0	...	...	...	...	...	...	29·2	3·6	15
16	30·1	3·3	28·9	3·8	28·0	2·8	25·6	0·7	...	...	...	...	...	...	28·9	3·4	16
17	28·2	2·2	27·4	2.4	27·7	2·5	25·7	1·0	...	...	...	...	...	...	28·3	3·1	17
18	28·1	2·1	27·2	3·0	27·0	2.1	25·4	1·1	...	...	...	...	...	...	27.8	2·8	18
19	26·9	1·6	26·1	2·0	26·5	1·7	24·9	0·8	...	...	...	...	...	...	26·5	1·9	19
20	26·1	1·2	25·7	1.9	25·9	1·0	25·4	1·2	...	...	...	...	...	...	25·8	1·5	20
21	25·5	1·3	25·8	1·7	26·0	1·1	25·7	1·5	...	...	...	...	...	...	25·5	1·4	21
22	25·6	1.0	25·9	1.7	26·0	1 2	26·0	1·2	...	...	...	...	...	...	25·2	1·2	22
23	25·7	1·0	25·7	1·4	25·9	1·6	25·7	1·6	...	...	...	...	...	...	25·0	1·2	23

TABLE XII.—DIRECTION and VELOCITY of the WIND at every HOUR of the DAY as recorded by the ROBINSON CUP ANEMOMETER during FEBRUARY 1937.

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 1937.

Hour \ Day	1d		2d.		3d.		4d.		5d.		6d.		7d.		8d.		9d.		10d. *		11d. *		12d. *		13d. *		14d. *		15d. *		16d. *	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	2·1	08	1·9	06	2·2	10	1·3	10	1·1	10	1·5	09	1·8	10	1·3	11	4·1	10	3·2	16	1·1	20	1·1	23	1·0	11	0·6	26	1·5	07	0·9
1h	10	2·2	08	1·5	07	2·1	10	1·6	10	1·8	10	1·2	11	1·3	10	1·8	11	4·5	11	2·4	18	0·7	20	0·9	23	1·4	11	0.6	26	1·2	07	0·7
2	09	3·1	06	1·5	07	2·2	10	1·8	11	1·4	10	1·4	11	1·9	10	2·7	12	4·2	11	1·0	20	0·9	20	1·2	r15	1·8	11	1·1	26	1·5	d18	0·7
3	09	4·0	09	1.8	07	2·6	10	1·3	10	1·9	11	1·4	11	1·1	11	2·7	11	4·2	11	0·7	20	0·7	20	1·1	15	0.9	11	0·6	26	1·1	15	0·7
4	09	2·2	10	1·0	07	1·6	10	1·6	11	1·5	11	1·8	11	2·1	11	2·2	11	4·0	11	1·7	20	1·0	20	1·2	15	1·6	11	1·0	26	1·5	15	0·7
5	09	2·2	10	2·0	08	1·6	10	1·2	11	1·5	11	1·6	11	1·8	11	1·7	11	4·6	11	2·3	20	0·6	20	2·1	15	1·3	11	0·6	26	1·6	15	0·6
6	09	2·8	10	1·2	08	1·9	10	1.3	10	1·9	11	1·5	11	2·3	11	1·8	11	4·1	11	1·2	20	0·6	24	2·3	15	1·4	11	1·1	26	1·3	15	1·0
7	09	3·0	10	1·1	09	2·2	10	1·0	10	1·4	10	1·3	09	3·5	11	2·4	10	4·4	11	1·3	29	0·6	21	2·1	15	0·8	11	0·6	26	1·2	15	0·6
8	08	4·7	08	2·2	08	2·4	10	1·8	09	3·1	10	2·5	09	2·3	11	2·4	10	4·7	11	1·8	20	0·6	23	1·2	15	0·7	11	0·6	26	0·6	15	0·6
9	08	4·3	05	3·0	07	2·8	10	2·7	09	2·4	09	3·5	07	3·6	11	4·1	09	6·0	13	3·8	24	0·8	22	1.9	20	1·3	07	1·1	d03	1·1	15	1·1
10	07	4·3	06	3·2	07	3·3	07	2·7	07	3·1	11	3·9	07	3·4	11	5·5	10	5·9	12	4·0	r16	1·2	24	2·9	26	1·6	07	0·8	04	1·7	r27	1·5
11	06	4·8	07	3·5	06	4·0	09	2·7	07	3·5	09	4·4	08	3·5	11	5·7	11	5·6	11	4·1	19	1·1	21	3·1	22	3·0	32	1·4	03	2·1	30	2·5
Noon	07	4·6	04	3·3	06	4·5	05	2·2	07	3·8	11	5·0	11	4·3	11	6·2	06	5·0	10	3·3	26	1·0	21	3.3	20	3·1	05	2·0	04	2·2	30	2·7
13h	04	4·6	05	4·0	05	4·1	07	2·4	07	4·2	11	5·0	07	3·0	11	6·3	12	6·0	13	4·4	24	2·1	21	3.7	20	3·2	01	3·0	05	2·8	29	2·2
14	08	4·3	05	4·0	07	3·9	07	2·5	06	4·1	08	5·2	09	4·3	10	6·0	10	5·3	12	4·3	20	4·3	26	3·7	22	2·8	31	3·7	01	3·7	28	2·8
15	06	4·3	05	3·5	05	3·9	08	2·4	06	3·0	11	5·3	09	5·0	12	6·2	10	4·3	12	4·9	20	5·6	24	3·1	23	3·1	30	3·9	03	4·1	27	2·4
16	08	4·1	06	4·0	09	3·7	09	2·5	11	2·7	11	5·2	10	5·1	11	5·6	11	5·4	15	2·8	22	3·6	22	3·2	23	3·1	30	2·4	03	2·0	24	2·7
17	08	3·8	05	3·4	08	2·4	09	2·6	11	1·9	09	5·4	09	4·4	11	5·0	12	5·7	13	3·7	20	4·9	23	3·0	22	2.1	30	2·1	01	3·1	22	1·7
18	08	3·6	08	2·8	08	2·9	10	2·5	11	2·0	11	4·7	10	2·9	12	2·8	11	4·6	13	2·3	20	3·5	22	2·7	22	1·1	26	1·5	32	2·3	22	1·1
19	08	2·4	06	2·8	09	1·9	07	2·1	10	2·2	10	3·6	09	2·6	11	2·0	10	2·8	15	1·9	20	2·9	23	1·2	22	0·7	26	0·7	01	1·2	22	0·6
20	08	2·2	06	2·0	09	1·8	09	1·9	10	2·0	10	3·2	10	2·8	11	3·4	11	2·9	15	2·2	20	1·5	23	0·6	29	0·7	26	0·6	01	0·6	22	0·6
21	08	2·8	06	1·8	10	2·7	09	1·6	10	2·1	11	2·5	10	3·0	11	3·6	11	3·1	15	1·7	20	0·9	23	1·0	d07	1·2	26	1·2	01	0·7	22	0·7
22	08	1·9	06	2·0	10	1·9	10	1·4	10	2·2	10	2·4	11	1·8	11	4·2	11	3·1	18	0·9	20	0·6	23	1·0	07	0·6	26	1·4	01	0·7	22	0·6
23	09	1.5	07	2 3	10	1·3	10	1·1	10	1·8	10	1·7	10	2·6	11	3·5	10	3·3	18	1·1	20	0·6	23	1·0	07	1·1	26	1·7	07	0·6	22	0·6

Hour \ Day	17d. *		18d. *		19d. *		20d. *		21d *		22d. *		23d. *		24d. *		25d. *		26d.		27d.		28d.		...		...		...		Mean.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	22	0·6	r16	1·1	07	1·1	22	1·3	05	0·8	32	0·9	24	1·1	01	0·7	12	0·6	10	1·1	11	4·1	09	3·8	...	...	...	...	...	...	1·6
1h	22	0·6	13	1·1	07	1·3	d03	1·2	05	1·6	32	1·0	25	1·8	01	1·0	12	0.9	10	0·9	10	3·4	08	4·4	...	...	...	...	...	...	1·6
2	22	1·0	12	0·8	04	1·8	03	1·0	05	1·3	32	1·1	25	2·0	01	1·1	12	0·6	10	1·6	11	4·2	08	3·5	...	...	...	...	...	...	1·7
3	22	0 9	12	1·0	03	1·5	07	1·0	05	0·7	32	1·3	25	1·9	01	0·6	12	0·6	10	0·9	11	4·2	09	4·0	..	...	...	...	...	...	1·6
4	22	1·0	12	0·6	03	1·0	07	1·2	05	0·9	04	0·7	25	1·7	01	0·6	07	1·0	10	0·7	11	4·9	09	4·7	...	...	...	...	...	...	1·7
5	22	0·6	12	0·9	03	2·9	05	2·1	05	0·7	10	1·2	25	1·8	01	0·9	10	0·7	10	1.3	09	3·7	09	2·5	...	...	..	...	...	...	1·7
6	22	1·0	10	0·6	03	1·4	02	1·9	05	1·1	r32	1·8	25	1·6	01	1·0	10	1·1	10	1·1	09	6·0	09	3·3	...	...	...	...	...	...	1·8
7	22	0·6	10	0·8	03	2·1	02	0·6	05	1·1	r24	1·3	25	1·1	01	1·0	08	1·9	10	1·3	09	4·8	08	4·2	...	...	...	...	...	...	1·7
8	22	1·2	02	2·0	01	3·1	05	1·1	05	1·7	29	0·8	23	2·4	28	0·9	06	1·0	10	3·0	09	3·4	09	3.3	...	..	...	...	...	...	2·0
9	27	2·1	01	2·4	01	4·4	30	0·8	04	2·2	r20	1·5	22	1·9	30	1·8	08	0·7	06	2·3	09	4·9	07	4·5	...	...	...	...	...	...	2·6
10	23	2·3	r19	1·1	01	4·2	30	1·0	02	2·5	25	1·6	23	1·8	30	2·2	08	1·3	10	2·2	10	3·3	10	4·3	...	...	..	...	...	...	2·7
11	21	2·5	19	2·1	32	4·0	30	2·1	32	2·8	25	2·9	22	2·7	28	2 5	03	2·1	07	3·0	10	2·9	06	3·2	...	...	...	...	...	...	3·1
Noon	23	1·8	d30	1·3	32	4·4	30	2·1	02	4·2	27	2·7	24	2.2	28	2·6	04	2·6	08	2·7	10	3·3	06	3·1	...	...	...	...	...	...	3·2
13h	22	2·2	30	1·3	32	5·0	32	3·1	01	4·0	31	3·1	27	2·0	25	2·5	r17	4·1	08	3·8	09	4.4	06	2·5	...	...	...	...	...	...	3·5
14	26	1·8	28	1·2	32	5·0	25	3·0	01	3·6	27	3·6	27	2·2	31	2·7	19	1·1	09	3·6	08	6·1	07	3·0	...	...	...	...	...	...	3·6
15	28	3·0	28	1·6	32	4·7	27	2·8	31	3.8	29	3·6	26	2·6	27	2.3	10	1·0	07	3·9	08	4·9	10	3·6	...	...	...	...	...	...	3·7
16	24	2·0	28	1·0	30	4·6	26	2·7	31	2·4	25	3·9	27	2·3	d09	1·3	07	1·8	10	3·9	05	5·4	09	4·4	...	...	...	...	...	...	3·4
17	24	1·9	32	1·1	31	3·6	31	2·2	30	2·3	27	3·6	27	1·8	r32	1·1	d18	1·1	10	3·3	08	4·9	08	4·2	...	...	...	...	...	...	3·1
18	24	1·1	02	1·2	32	3·1	28	1·9	29	1·9	26	2·1	26	1·7	a12	1·1	r08	1·2	10	3.6	08	4·5	08	3·6	...	...	...	...	...	...	2·5
19	24	0·6	04	1·2	32	1·7	31	0·7	29	1·1	27	2·1	26	1·6	12	0·6	08	1·3	10	2·5	09	3·5	08	4·0	...	...	...	...	...	...	1·9
20	34	0·6	06	1·7	02	0·6	31	0·7	29	0·6	27	2·2	26	1·0	12	0·6	11	2·5	11	2·6	09	2·2	08	4·5	...	...	...	...	...	...	1·8
21	24	0·7	07	1·6	02	1·0	31	1·1	32	0·9	25	2·1	26	0·9	12	0·7	12	1·4	11	2·5	09	3·5	08	4·4	...	...	...	...	...	...	1·8
22	24	0·9	07	1·1	02	0.7	05	1·0	32	0·7	25	2·1	26	0 9	12	0·7	12	1·8	10	3·4	09	3·2	08	5·0	...	...	...	...	...	...	1·7
23	24	1·1	07	1·2	r22	1·1	05	1·1	32	1·1	23	3·1	01	1·0	12	0·6	11	1·4	11	3·4	08	3·2	08	4·9	...	...	...	...	...	...	1·8

TABLE XIII.—WIND FREQUENCY (NUMBER OF OBSERVATIONS), FEBRUARY 1937.

Hour	Force (0–12) 8 or above	4 to 7	0 to 3	Direction N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	...	...	28	2	...	2	...	5	3	9	...	2	...	2	1	1	1	...	...
9	...	1	27	2	...	3	1	10	1	2	...	1	...	2	2	1	...	1	2
15	...	2	26	2	...	3	2	4	3	3	...	...	...	1	...	2	1	6	1
21	...	...	28	3	1	...	1	6	3	6	...	1	...	1	1	3	2	...	...
Totals	...			9	1	8	4	25	10	20	...	4	...	6	4	7	4	7	3

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for FEBRUARY 1937.

Hour \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	0·3	...	...	...	...	...	...	...	0·1	0·2	...	...	...	...	...	0·2	0·4	...	...	6·4	...	...	...	...	...	...	...	...	...	...	...
2	0·1	4·0	...	...	...	...	...	...	0·1	...	...	...	...	...	...	3·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	0·1	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	0·1	...	...	...	...	...	...	0·6	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	0·1	...	...	0·6	...	...	...	...	0·1	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	0·5	...	...	7·4	...	...	...	...	0·1	...	...	0·3	...	5·0	...	...	...	...	...	2·8	...	...	...
7	...	...	...	...	...	...	...	0·6	0·1	...	...	6·5	...	...	...	...	...	...	...	1·8	...	10·7	...	...	...	...	...	5·4	...	...	...
8	...	...	...	...	...	...	4·4	0·2	...	...	...	...	...	...	...	...	...	...	...	1·3	...	2·4	...	...	...	...	...	0·6	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	1·2	...	...	...	0·2	9·6	4·3	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·1	...	...	2·2	0·2	...	...	...	4·6	2·1	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	2·4	...	...	...
Noon	...	...	...	...	...	...	0·5	...	...	...	5·0	...	...	...	...	...	...	3·2	...	...	...	...	...	...	...	0·3	0·2	2·8	...	...	...
13h	...	...	...	...	...	...	0·2	...	0·5	...	...	...	...	...	...	...	...	2·2	...	...	...	...	...	...	...	0·1	0·4	2·0	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·8	...	...	1·6	...	...	...
15	...	...	...	...	...	...	...	...	1·7	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	0·2	...	...	0·2	...	...	...
16	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR FEBRUARY 1937.

Hour \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	...	...	..
	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	...	...	0·2	...	...	...	...	...	...	0·8	...	...	0·2	...	...	0·7	...	...	...	...	...	...	...	16·8	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	0·2	0·5	...	0·2	...	...	...	...	1·1	...	...	...	...	...	...	...	7·4	...	...	0·2	...	...	...	...
3	...	...	...	...	...	...	0·5	...	1·5	0·2	1·4	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	0·5	0·2	...	...	...
4	...	0·8	...	...	...	...	...	...	1·0	0·2	...	...	...	...	...	...	...	...	0·2	0·2	...	...	...	...	...	...	0·1	0·5	...	...	...
5	...	...	...	...	...	...	0·2	...	0·2	0·3	...	...	...	...	...	...	...	0·2	...	0·4	6·3	...	...	...	...	...	...	0·9	...	...	...
6	...	...	...	...	...	...	5·1	...	1·4	...	...	0·5	...	...	...	...	...	0·4	...	0·4	1·2	...	2·2	...	...	1·6	0·2	1·2	...	...	...
7	...	...	...	...	...	...	0·9	0·1	0·8	0·7	...	2·2	...	...	...	...	...	...	...	4·8	...	1·3	...	...	...	0·2	1·4	...	...	...	...
8	...	...	...	...	...	...	...	...	...	1·1	...	...	...	...	...	...	...	...	...	0·7	...	2·4	...	...	...	...	3·1	3·8	...	...	...
9	...	...	...	...	...	...	0·7	...	0·7	0·8	1·9	...	...	...	...	...	...	15·4	...	0·2	...	0·3	...	...	...	2·0	...	...	...	...	...
10	...	...	...	...	...	...	...	...	1·4	...	...	...	...	...	...	...	...	1·1	...	0·4	...	0·3	...	...	...	0·9	2·0	2·9	...	...	...
11	...	...	...	...	...	...	1·3	...	0·3	0·5	...	0·2	...	...	...	...	...	...	...	...	0·7	...	...	...	...	...	3·2	0·7	...	...	...
Noon	...	...	...	...	...	...	2·7	...	0·4	...	...	...	...	...	...	...	...	8·9	...	...	...	...	...	...	6·2	0·2	...	0·4	...	...	...
13h	...	...	...	...	...	...	0·1	...	0·6	0·2	0·2	...	...	...	...	...	...	1·2	...	...	1·3	...	...	...	73·6	...	2·6	12·5	...	...	...
14	...	...	0·8	...	0·7	...	...	...	0·4	0·5	...	...	...	...	...	...	...	...	1·2	...	...	...	...	...	5·3	...	0·2	15·0	...	...	...
15	...	...	...	...	1·1	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	...	...	...
16	...	...	...	...	...	...	1·8	...	0·9	0·5	0·2	...	...	...	...	...	...	...	4·0	...	...	...	...	5·3	...	...	...	0·7	...	...	...
17	...	...	...	...	0·4	...	...	0·1	1·3	...	...	...	...	...	...	...	...	...	...	...	...	0·8	...	0·3	...	...	...	3·0	...	...	...
18	...	...	...	...	...	...	0·4	...	0·3	...	...	...	...	...	...	...	...	...	0·9	...	...	13·3	...	0·5	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	0·4	0·4	...	...	...	...	...	...	...	...	0·6	...	...	4·6	...	1·6	...	...	...	...	...	...	...
20	...	...	...	...	...	...	0·7	0·2	0·3	...	...	...	...	...	...	...	...	...	...	...	...	4·0	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	0·5	0·5	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	0·8	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	0·2	...	...	...	...	...	0·4	1·1	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	0·5	...	...	...
24	...	0·9	...	...	...	...	...	...	3·1	0·6	...	...	...	...	...	0·4	...	...	1·2	...	...	...	0·5	...	...	...	...	...	...	...	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for FEBRUARY, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	5.59	...
	St. Antoine	50	6·64	168.7	6.31	16
	Bel Mont	50	7.86	199.6	6.90	16
	Poudre d'Or	20	9.15	232.4	6.48	16
	Mon Loisir (S.E.) ...	300	9.29	236.0	8.09	23
	Forbach	300	6.54	166.1	7.94	12
	Couroupa	...	6.00	152.5	6.36	16
*	Labourdonnais	290	...	...	8.55	...
	Mapou Water Office ...	...	6.06	153.9	...	8
	Beau Séjour	300	5.80	147.3	9.24	18
	Mont Piton	650	5.96	151.4	10.41	17
	Mon Choix	700	5.02	127.5	9.71	14
	Antoinette	640	9.25	235.0	9.99	21
	Mon Songe	620	9.96	253.0	9.94	20
	Botanical Gardens ...	325	6.91	175.5	8.97	22
*	The Observatory ...	179	5.09	129.3	7.51	20
	Solitude	175	...	...	5.19	...
	St. André (Cour) ...	90	4.29	109.0	6.29	12
	La Nicolière	...	9.09	230.3	12.75	21
	California	...	8.79	223.3	...	19
	Australia	..	8.98	228.1	...	18
2 & 3	Union Régnard (Flacq S.E.) ...	600	11.47	291·3	10.21	18
	Constance d'Arifat (L.S.) ...	100	13.02	330·7	8.53	21
	Rich Fund	600	10.66	270.8	9.71	21
	La Joffrette	...	10.54	267.7	...	17
	Belle Vue (Allendy) ...	...	12.00	304.8	8.80	19
4	Sans Souci	900	9.56	242.8	16.13	23
	Beau Champ (G.R.S.E.) ...	20	8.21	208.5	7.44	20
	Olivia	400	10.59	269.0	10.81	22
	Trois Ilots	...	10·02	254.5	..	23
	Belle Rive	400	10.99	279.1	10.44	28
	Sébastopol	700	10.87	276·1	...	16
	Bonne Veine	400	9.84	249.9	15.48	21
5	Rose Belle	850	8.67	220.2	17.65	21
	New Grove	650	6.82	173.2	...	20
	Mon Trésor	...	3.83	97.3	...	17
	Mon Désert (Carié) ...	75	4.84	122.9	8.04	20
	Ferney	20	7.85	199.4	11.45	17
	Sauve Terre	...	3.38	85.9	...	16
6	Tivoli	1,300	9.58	243.3	17.69	22
	La Flora	1,050	8.07	205.0	16.07	22
	Riche Bois (Brit.) ...	650	5.41	137.4	10.72	19

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
6	Britannia (Estate) ...	700	6.12	155.4	13.83	20
	Savannah (Mill) ...	200	4.17	105.9	10.32	20
	St. Aubin	300	5.37	136·4	9.35	18
	St. Avold	900	6.78	172.2	15.01	21
	Colmar	400	5.03	127.8	11.08	14
	Union (S.E.)	...	6.25	158.8	8.54	15
	Fontenelle	320	7.10	180.3	8.61	14
	Choisy	200	6.05	153.7	7.45	13
	Beau Bois	...	6.68	169.7	...	17
	Bel Air	...	4.30	109.2	8.70	16
	St. Félix	...	2.65	67.3	...	11
7,8,9&10	Bel Ombre	40	...	...	8.49	...
	Beau Champ (B du Cap) ...	70	...	...	7.82	...
	Frédérica	...	...	...	8.43	...
	Pierre Fonds	...	8.50	215.9	7.96	19
	St. Marie	...	...	...	...	...
	Hussonia	...	11.50	292.1	...	14
11	Curepipe Gardens ...	1,840	13.70	348.0	17.16	23
	Mare aux Vacoas (G.E.) ...	1,850	10.20	259.1	18.33	17
	Mare aux Vacoas (Arn) ...	1,830	10.54	267.7	18.39	18
	La Marie Filter Beds ...	1,700	9.07	230.4	15.40	17
*	Sophie	...	9.63	244.5	...	22
	Réunion	1,420	11.01	279.7	13.60	21
*	Aerological Station ...	1,393	12.82	325.7	13.15	23
	Phoenix	...	13.44	341.4	...	21
	Quatre Bornes ...	...	10.33	262.4	...	18
12	Quatre Bornes (Board) ...	1,090	11.39	289.3	...	17
*	Le Réduit (D of A) ...	1,000	5.81	223.8	10·05	26
	Alma	1,460	11.40	289.6	18·15	17
	Bagatelle	1,250	12.44	316.0	14·10	22
	Highlands	1,300	13.79	350.3	12·08	18
	Trianon	950	12.55	318.8	10·77	22
	Val Ory	1,100	10.13	257.3	10·75	22
	Bassin	...	7.36	186.4	9·20	16
	Hermitage	1,450	17.70	449.6	15·57	21
	Ebène	...	11.15	283.2	...	22
	Béga	...	9.23	234.4	...	20
	Mon Rêve	...	9.13	231.9	...	21
	Mon Pevril	...	9.40	238.8	...	21
	Minissy	1,150	9 47	240.5	12·11	21
	Plaisance	...	4.43	239.5	...	15
	La Ferme	350	11.53	292.9	7·40	15

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 1937.

Day.	Time	Scud Dir.	Scud 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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	..	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	..	...	...
3	...	..	...	...	...	...	...	...	...	..	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	9¼	...	...	105	16·3	...	...	...	...	...	...	330	3·0
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	..	...	..	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...
10	10¼	135	23·8	135	14·1	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	..	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	..	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	..	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	..	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	..	...	...	...	...	...	...	...	...	...	...	...
23	9½	...	...	285	...	330	...	...	...	...	...	...	...
24	10	...	...	330	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	..	...	...	...	...	...	...	...
26	...	..	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	..	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...

Day.	Time	Scud Dir.	Scud 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
		°		°		°		°		°		°	
1	14¼	90	6·0*	82	4·8*	...	..	...	...	...	...	...	...
2	14¼	...	...	80	7·3*	...	...	...	...	...	...	...	...
3	14¼	...	...	105	8·9*	...	...	...	...	...	...	330	1·8*
4	...	...	..	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	..	...	...	...	...	...	...	...	...	...	...	...
8	14¼	127	17·8*	120	7·1*	...	...	..	...	...	...	...	...
9	...	...	...	...	...	...	...	...	..	...	...	...	...
10	14¼	128	13·0*	150	13·3*	165	4·1*	...	...	...	...	125	3·6*
11	...	..	...	...	...	...	...	...	...	...	...	...	...
12	14¼	...	...	245	4·3*	...	...	...	...	255	4·8*	270	2·4*
13	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	14¼	...	...	360	7·7*	...	...	...	...	...	...	..	...
16	14¼	310	10·1*	353	3·7*	...	...	...	...	...	...	...	...
17	14½	...	...	..	...	..	...	...	...	270	...	...	...
18	...	...	...	...	...	...	...	...	...	...	..	...	...
19	15¼	...	...	360	31·4*	...	...	...	...	...	...	...	...
20	14¼	325	10·7*	330	12·4*	330	0·6*	318	20·0	...	..	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	14¼	...	...	330	10·6*	360	...	...	...	...	...	...	...
23	14¼	...	...	...	...	...	...	...	...	315	1·4*	...	...
24	...	...	...	...	...	..	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...
26	13¼	135	...	165	10·3	...	...	...	...	...	..	...	...
27	17¾	...	...	90	11·3	90	1·7	...	...	...	...	285	...
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.

176/12/37—R.A.O. 250.

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NEW SERIES (MONTHLY) VOL. XXIII. PART 3. PRICE 0.75

ROYAL ALFRED OBSERVATORY, MAURITIUS.

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

MARCH, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

Published by Authority of His Excellency the Governor

PORT LOUIS

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1938

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF MARCH, 1937

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 1 γ)	Daily Range† Vertical Force (Unit 1 γ)	HRz : 10000	ZRz : 10000
MAR.	° ′			′				
1	13°19.3	.22496	.29720	18.2	83	55	187	163
2	20·5	459	726	15·3	80	46	180	137
3	19·4	485	...	13·5	55	...	124	...
4	19.6	504	725	16·0	68	46	153	137
5	19.4	477	730	12.7	172	37	387	110
6	18·8	479	733	9·3	71	23	160	68
7	19.4	487	728	13·5	30	30	67	107
8	19·4	499	732	10·8	58	26	130	77
9	20·0	497	732	11·0	62	37	130	110
10	19·8	500	727	12·5	54	44	121	131
11	19·3	506	729	13·3	51	40	115	119
12	20·1	511	726	14·7	24	55	54	163
13	19·3	516	726	17.5	48	51	108	151
14	20·0	477	733	13·3	43	34	97	101
15	18·9	453	737	14·5	118	42	265	125
16	19·8	474	739	13·0	49	33	110	98
17	19·5	478	740	14·0	48	34	108	101
18	19·5	484	735	12·5	32	30	72	89
19	19·8	489	734	15·0	38	38	85	113
20	19·9	491	733	11·0	30	36	67	107
21	19·9	496	732	9·3	27	29	61	86
22	20·1	486	733	18·0	136	46	306	137
23	20·2	474	736	13·5	30	47	67	140
24	20·2	484	733	9·5	32	51	72	151
25	20·0	493	734	8·8	58	33	130	98
26	19·5	499	734	10·0	68	37	153	110
27	20·3	471	735	10·5	135	42	304	125
28	19·9	468	739	11·8	44	33	99	98
29	20·2	478	737	10·5	36	27	81	80
30	20·2	488	735	12·7	31	41	70	122
31	20·5	446	743	8·0	131	24	294	71
Mean	13°19·76	·22485	·29732	12·72	62·6	38·4	140·8	114·2

Description of the Principal Magnetic Disturbances.

Declination.—1d. Moderately disturbed. Considerable increase in daily ranges (19′·5).
2d. Slightly disturbed.
5d. Moderately disturbed. Large increase in daily range.
22d. Moderately disturbed. Large increase in daily range.
23d. Slightly disturbed.
27d. and 28d. Slightly disturbed.
31d. Slightly disturbed.

Horizontal Force.—1d. and 2d. Moderately disturbed. Important fluctuations between 12^h and 15^h on 1d. and 1h and 3^h on 2d.
4d. Slightly disturbed between 10^h and 19^h. At 18^h 20^m sudden decrease of 21γ.
5d. Sudden commencement at 11^h 20^m of a very disturbed period gradually subsiding on after 2^h on 6d. Small rapid oscillations on a largely fluctuating trace.
14d. Slightly disturbed.
15d. Moderately disturbed.
17d. Slightly disturbed.
22d. Disturbed—Very large fluctuations in the trace and considerable increase in daily range (145γ).
27d. Sudden commencement at 0^h 55^m of a moderately disturbed period. Subsiding gradually on 28d. Large fluctuation in the trace with important oscillations superposed. Considerable increase in daily range (150γ).
31d. Sudden commencement at 7^h 15^m of a moderate disturbance which settles down during the early hours of the next day. Important oscillations on a largely fluctuating trace

Vertical Force.—1d. and 2d. Slightly disturbed. Very rapid oscillations in the trace during the early part of 2d.
5d. Sudden commencement at 11^h 20^m of a moderately disturbed period gradually subsiding after 2^h on 6d.
15d. Slightly disturbed.
22d. Moderately disturbed.
27d. Moderately disturbed, with sudden commencement at 0^h 55^m.
31d. Disturbed with sudden commencement at 7^h 15^m. Important oscillations in the trace at times.

T=·37277 : Mean Dip=52° 54·08′ : (X=·21880 : Y=−·05184 : Z=·29732).

† 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 1937.

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	° ′	
2·15.12	13·11·4	3· 9·22	·22496	2.14.58	52.53.93	·29702
9·13·07	13·16·4	10 9·42	·22510	9·12·51	52·48·94	·29722
16·14·43	13·12·9	13 10·27	·22516	16·14·34	52·53·63	·29720
23·15·02	13·14·1	17· 9·52	·22496	23·15·10	52·54·38	·29718
30·14·53	13·14·9	20· 9·36	·22487	30·14·40	52·53·08	·29718
		24· 9·24	·22490			
		31· 9 45	·22455			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

MARCH 1937

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	19·5	20·0	20·0	20·0	20·0	20·7	20·0	20·0	20·0	20·0	19·8	19·7	19·7	20·0	20·7	20·5	Midnight
1h	20·0	21·5	20·2	20·0	20·0	20·3	20·2	20·2	20·3	20·0	20·0	20·3	20·2	20·5	20·5	20·5	1h
2	20·0	21·3	20·3	20·2	20·0	19·5	20·3	20·3	20·5	20·7	20·5	20·5	20·5	21·5	20·3	20·5	2
3	20·5	22·0	20·2	20·5	20·0	19·5	20·4	20·3	20·2	20·5	20·3	20·7	20·7	22·3	20·2	20·7	3
4	20·7	21·5	20·0	20·5	20·0	19·5	20·4	20·0	20·0	20·3	20·7	20·7	20·7	23·0	20·5	20·7	4
5	21·0	22·5	20·0	20·7	19·7	18·0	20·5	20·2	19·7	20·7	20·7	21·0	20·7	23·0	20·0	21·5	5
6	20·3	23·5	20·0	20·7	19·7	18·0	20·7	20·0	20·0	21·3	20·7	23·0	21·0	22·0	20·0	22·0	6
7	20·0	22·7	21·0	21·0	19·5	20·5	23·0	21·0	22·0	23·0	22·0	24·5	23·0	20·7	22·0	25·0	7
8	21·5	24·0	23·0	24·0	23·5	21·5	25·5	23·3	24·3	25·0	24·7	25·5	26·0	22·0	23·5	25·0	8
9	26·5	26·7	25·5	27·5	25·0	22·3	26·5	24·5	26·0	26·5	26·0	27·0	27·0	23·5	25·5	25·5	9
10	27·2	27·3	25·5	27·0	24·0	22·3	24·0	23·5	26·0	26·0	24·0	26·4	26·5	25·0	24·0	24·5	10
11	26·0	25·0	24·0	24·0	23·0	21·0	21·0	21·5	23·0	22·0	21·0	24·0	23·0	24·0	20·0	22·0	11
Noon	22·0	21·0	20·0	20·5	20·0	19·0	18·0	18·7	20·0	19·5	18·0	20·0	18·0	16·5	16·5	17·0	Noon
13h	17·0	16·0	14·0	15·0	15·0	15·0	15·0	15·5	16·5	16·0	14·0	15·0	13·0	15·0	14·0	14·5	13h
14	10·0	13·0	12·0	12·0	12·3	13·0	13·0	13·7	15·0	14·0	12·7	12·3	09·5	11·7	11·0	12·5	14
15	09·0	12·0	12·3	11·5	12·5	13·0	13·0	14·0	15·0	14·0	13·0	12·5	10·5	12·5	11·5	12·5	15
16	11·5	14·0	14·0	13·5	16·0	14·3	14·0	15·0	16·0	14·7	14·5	14·5	13·5	16·0	12·7	14·0	16
17	15·0	16·5	17·0	16·5	17·5	17·0	16·5	17·5	18·3	17·0	17·0	17·5	17·0	19·0	16·5	17·5	17
18	18·0	18·4	18·5	18·0	18·7	18·7	17·7	18·7	19·0	18·0	18·0	19·5	18·3	20·0	16·0	19·5	18
19	18·5	21·0	18·5	18·7	17·5	19·0	18·5	18·5	18·7	18·3	18·3	18·7	18·5	20·0	18·0	19·7	19
20	19·2	20·0	19·0	19·0	19·0	19·5	19·0	19·0	19·0	18·7	18·7	19·0	18·5	20·0	19·0	20·0	20
21	19·7	20·0	19·7	19·5	20·0	20·0	19·3	19·7	19·3	19·5	19·5	19·7	18·7	20·7	20·0	20·0	21
22	20·0	21·0	20·0	19·7	21·0	20·0	19·7	20·0	19·5	19·7	19·3	19·7	19·5	20·3	20·5	20·0	22
23	19·7	20·5	20·0	19·7	21·5	20·0	20·3	20·2	20·7	19·9	19·7	20·0	20·0	20·3	20·7	20·0	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	20·0	19·8	20·0	20·0	20·0	20·0	20·7	20·5	20·3	20·0	20·0	21·0	20·3	20·0	20·5	20·1	Midnight
1h	19·7	20·0	20·0	20·0	20·5	20·5	20·0	20·5	20·5	20·5	20·0	21·5	20·5	20·0	20·3	20·3	1h
2	20·0	19·7	20·2	20·0	20·5	20·5	20·5	20·7	20·0	20·7	21·0	22·0	20·0	19·8	20·2	20·4	2
3	20·5	20·0	20·2	20·0	20·5	20·7	20·0	20·5	20·3	21·0	21·5	21·3	20·3	20·0	20·3	20·5	3
4	20·5	20·0	20·0	19·8	20·3	20·7	19·5	20·3	20·7	20·7	20·5	20·0	20·5	20·0	21·0	20·5	4
5	20·7	20·5	20·0	20·5	20·5	21·5	19·5	20·5	20·7	20·5	21·0	19·5	21·0	20·3	21·0	20·6	5
6	20·0	20·7	20·5	21·0	20·7	20·7	20·5	20·0	20·7	21·0	22·0	19·5	21·7	21·5	20·5	20·8	6
7	20·0	22·3	22·0	22·5	22·0	22·5	23·0	20·5	21·5	22·7	24·3	23·0	23·0	24·0	21·0	22·1	7
8	23·0	24·7	24·7	24·5	23·0	27·5	24·5	23·5	23·5	23·5	22·0	24·0	24·7	26·7	24·0	24·1	8
9	20·3	25·5	27·5	25·5	23·3	30·0	27·5	25·3	24·3	23·0	25·5	25·5	26·0	25·0	25·0	25·7	9
10	26·0	24·0	26·0	24·3	23·0	26·0	27·0	25·5	24·0	22·0	25·5	24·0	24·7	24·3	23·5	24·9	10
11	22·0	20·0	23·0	22·0	22·7	24·0	24·0	23·5	22·0	20·5	23·0	20·0	21·0	22·0	21·0	22·4	11
Noon	18·0	17·5	19·0	19·0	21·5	20·0	21·0	21·0	18·7	17·5	19·5	17·0	17·5	18·5	20·0	19·1	Noon
13h	14·0	14·5	15·0	16·0	18·5	16·0	18·0	18·0	16·0	14·0	17·0	14·0	15·7	16·0	17·0	15·5	13h
14	12·3	13·0	12·5	14·5	15·5	12·0	14·0	16·3	15·5	13·5	15·0	13·7	15·5	14·0	18·0	13·3	14
15	13·0	13·5	13·3	14·7	14·0	12·0	14·0	16·0	16·0	14·0	16·5	15·5	16·0	15·0	17·0	13·5	15
16	15·0	15·0	14·7	15·5	15·0	13·0	16·0	17·0	17·0	16·0	16·0	16·7	17·3	17·0	17·3	15·1	16
17	17·5	18·5	17·5	17·5	17·0	16·0	17·5	18·3	19·0	19·0	16·7	18·5	19·0	19·3	18·0	17·5	17
18	19·0	19·0	19·5	19·0	19·0	18·5	18·7	19·0	19·7	19·0	18·0	19·5	19·8	20·0	20·0	18·8	18
19	19·7	19·3	19·5	19·7	19·5	18·7	18·5	19·0	19·5	19·5	19·0	20·0	20·0	20·0	20·0	19·1	19
20	20·0	19·5	20·0	19·7	19·7	19·7	19·3	19·5	19·5	19·7	19·7	20·5	20·5	20·3	20·3	19·5	20
21	20·3	20·3	20·0	20·3	20·0	20·0	20·0	20·0	19·7	20·0	20·5	20·3	20·3	20·3	21·0	19·9	21
22	20·5	20·5	20·3	20·5	20·7	20·5	20·7	20·0	20·3	20·0	20·5	20·5	20·0	19·7	22·5	20·2	22
23	20·3	20·3	20·5	20·3	20·7	20·7	20·7	20·0	20·5	20·5	21·0	20·5	19·8	20·0	22·3	20·4	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)

MARCH 1937.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day.
	·22000 + (C.G.S. UNIT).																
Midnight	470	471	460	480	484	441	473	483	487	480	489	500	505	500	461	491	Midnight
1h	475	445	461	482	486	450	473	482	490	475	490	499	506	495	462	497	1h
2	476	442	462	483	485	473	475	487	491	479	490	503	507	481	467	455	2
3	480	470	470	487	490	455	477	487	490	483	490	509	509	475	478	460	3
4	483	460	472	489	493	452	478	490	490	485	496	510	512	490	480	463	4
5	485	455	471	489	497	450	479	489	492	493	499	512	514	483	481	473	5
6	490	456	472	491	495	475	481	488	486	497	500	511	513	480	490	469	6
7	497	455	480	505	502	474	480	492	490	500	501	510	517	483	492	472	7
8	494	461	487	511	505	483	482	495	489	507	503	510	515	477	493	474	8
9	497	470	492	514	534	495	490	500	495	510	507	511	515	475	485	482	9
10	510	482	500	525	530	503	496	517	513	515	520	517	520	479	475	490	10
11	513	500	505	540	540	512	503	537	533	527	522	518	530	487	480	495	11
Noon	522	502	513	548	563	509	502	540	541	529	540	517	535	494	482	491	Noon
13h	553	497	515	545	555	507	501	533	543	527	540	520	545	490	475	492	13h
14	550	482	510	533	500	502	503	520	520	517	531	523	540	480	424	489	14
15	525	463	500	520	450	496	498	507	505	507	517	521	530	457	420	479	15
16	500	453	491	506	420	487	491	501	500	503	510	517	524	465	410	473	16
17	497	454	485	505	425	480	488	497	490	500	507	512	515	473	375	472	17
18	489	439	480	508	391	475	486	490	483	492	501	510	517	471	380	468	18
19	480	425	478	488	415	472	485	490	477	497	499	507	513	470	405	467	19
20	477	422	481	490	425	474	487	490	482	491	495	507	511	462	425	470	20
21	473	423	481	488	430	474	487	489	485	492	497	508	505	460	435	463	21
22	472	430	482	487	425	475	485	487	483	490	500	507	500	463	439	452	22
23	485	460	482	487	435	477	485	487	481	492	501	505	497	467	440	448	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day \ Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	459	473	481	483	483	500	462	479	480	482	489	447	461	477	479	477·7	Midnight
1h	465	468	481	490	482	505	475	479	480	485	480	450	470	479	485	478·3	1h
2	473	489	490	493	492	502	467	480	489	480	497	460	479	482	500	481·9	2
3	473	481	486	495	491	507	477	482	491	488	500	460	480	487	503	484·2	3
4	472	483	485	499	493	503	485	483	489	490	507	462	471	482	505	485·5	4
5	475	482	485	493	495	501	482	484	487	491	500	465	471	480	506	485·8	5
6	478	482	483	495	495	509	481	487	485	490	482	472	470	476	509	486·7	6
7	482	484	490	493	497	512	475	489	487	495	485	475	470	477	505	489·2	7
8	481	487	490	492	500	511	462	486	492	499	481	481	473	480	521	491·0	8
9	483	485	483	490	500	503	457	487	501	515	490	479	477	488	480	493·2	9
10	499	489	492	496	503	515	462	492	510	529	492	483	487	492	445	499·3	10
11	507	492	505	507	509	535	480	500	530	543	505	483	492	497	425	508·5	11
Noon	500	500	518	510	507	541	487	501	531	547	521	487	497	507	412	512·7	Noon
13h	490	500	515	505	495	540	483	502	523	535	525	491	490	500	410	510·7	13h
14	486	490	500	493	490	525	480	493	516	520	515	470	485	493	423	500·1	14
15	473	483	483	487	492	490	470	482	502	508	470	465	479	488	415	486·5	15
16	472	486	481	480	495	440	470	481	491	497	448	461	474	487	395	477·7	16
17	468	483	480	481	497	405	459	479	482	485	415	463	472	488	393	471·8	17
18	467	484	481	482	500	423	467	472	473	479	410	456	475	491	410	469·4	18
19	469	485	483	484	495	430	475	470	480	483	390	460	479	500	415	469·9	19
20	471	481	485	481	491	440	476	473	480	480	405	463	479	500	400	470·8	20
21	471	475	485	481	492	441	475	473	481	480	430	463	479	488	390	470·8	21
22	470	476	482	482	500	449	479	474	481	481	435	467	478	486	410	471·8	22
23	473	480	485	485	501	450	478	484	479	483	445	465	478	480	400	474·0	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 1937

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	729	729	...	736	731	741	737	735	735	736	733	734	732	735	740	750	Midnight
1h	729	730	...	736	731	741	737	735	735	736	734	734	731	736	739	749	1h
2	727	735	...	734	731	740	736	735	735	736	734	734	731	736	739	745	2
3	726	732	...	733	730	739	737	734	734	736	734	733	731	737	737	743	3
4	726	732	...	733	730	740	737	734	734	736	734	733	731	738	736	743	4
5	727	734	...	732	729	739	736	734	735	737	735	734	732	737	735	742	5
6	725	737	...	732	730	737	737	734	737	737	735	735	733	737	737	743	6
7	726	739	...	734	730	739	741	737	742	740	740	741	740	738	740	746	7
8	733	741	...	740	736	738	742	740	747	742	743	745	745	743	747	747	8
9	735	741	741	740	732	734	735	737	741	741	739	743	742	743	747	743	9
10	731	737	735	729	729	731	727	728	733	735	726	732	736	744	739	740	10
11	723	725	729	707	728	727	716	718	721	721	717	721	720	736	728	733	11
Noon	706	710	715	705	717	720	708	715	713	711	708	704	707	721	711	723	Noon
13h	689	695	707	695	705	719	706	714	710	703	703	692	696	710	708	719	13h
14	680	698	705	694	705	718	706	718	713	698	705	690	694	709	710	717	14
15	691	703	712	701	717	722	710	727	721	702	714	701	699	716	721	724	15
16	703	713	726	715	732	730	718	735	730	710	725	714	714	727	732	733	16
17	713	723	735	727	736	735	725	739	735	721	730	726	725	732	745	740	17
18	721	730	735	727	741	736	730	739	736	727	731	730	729	733	745	741	18
19	721	730	733	729	739	734	730	735	735	729	732	729	729	733	749	740	19
20	725	730	733	729	739	735	731	735	734	729	733	731	731	735	748	741	20
21	727	730	733	731	741	735	732	734	733	731	735	731	732	739	749	743	21
22	729	730	735	731	741	735	733	734	734	731	734	733	735	739	750	744	22
23	729	730	735	731	742	736	734	734	736	731	733	733	736	740	750	747	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	746	742	740	740	739	735	745	740	739	740	739	746	743	741	740	738·3	Midnight
1h	744	743	740	740	740	736	741	740	740	740	738	743	743	741	739	738·0	1h
2	743	740	740	739	740	737	742	740	739	739	738	744	740	740	737	737·5	2
3	742	740	740	738	739	736	741	740	739	739	738	740	740	739	737	736·8	3
4	741	740	739	738	739	736	741	740	739	740	737	741	740	739	737	736·8	4
5	741	740	739	739	739	738	741	741	740	740	739	740	741	740	737	737·1	5
6	740	741	740	740	740	737	744	741	741	741	740	741	742	741	737	737·7	6
7	743	742	741	742	740	740	749	743	742	743	743	747	747	745	739	740·6	7
8	753	743	747	745	740	747	753	751	743	742	743	750	747	751	743	744·2	8
9	752	739	745	743	739	745	754	749	739	735	749	751	745	749	743	742·3	9
10	746	732	733	737	738	731	745	739	729	730	742	742	742	740	745	735·6	10
11	732	723	721	729	730	720	732	721	721	723	730	729	730	729	740	725·0	11
Noon	721	715	711	719	719	705	717	707	714	712	721	723	722	715	738	714·6	Noon
13h	719	713	709	709	712	701	707	700	710	706	715	718	720	710	733	708·2	13h
14	723	717	712	709	711	702	708	701	713	714	707	722	721	712	740	708.9	14
15	731	724	725	717	712	714	716	710	721	725	709	731	727	720	740	716·4	15
16	739	732	730	724	719	727	723	723	729	735	720	738	734	729	741	725·8	16
17	742	737	737	733	726	740	731	731	734	739	727	742	739	733	745	732·9	17
18	742	737	737	734	731	745	737	736	737	740	737	742	738	734	746	735·6	18
19	741	736	736	735	731	743	736	736	738	739	741	743	737	732	746	735·5	19
20	741	738	736	735	732	743	737	739	739	740	743	743	739	733	749	736·4	20
21	742	741	738	737	733	744	739	740	740	741	749	744	741	737	753	738.1	21
22	743	741	739	739	736	745	741	740	740	741	748	744	741	739	757	738·9	22
23	744	741	739	739	735	745	745	740	740	740	748	743	741	739	753	739·0	23

TABLE VI.—RESULTS OF METEOROLOGICAL OBSERVATIONS made at the AEROLOGICAL STATION Vacoas (424·5 metres above mean sea-level) during the MONTH of MARCH 1937.

Month and day 1937.	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—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.
MARCH	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	961·0	25·7	2·5	21·4	77	25·2	70	7·2	9	22·4	23·7	24·5	22·8	27·5	22·4	5·1	9·3	83	2·8	22
2	959·2	23·3	0·5	22·4	95	26·8	80	6·7	9	20·7	21·5	22·9	21·8	25·2	20·7	4·5	60·5	391	3·5	28
3	960·3	24·7	1·5	22·1	85	26·3	90	7·6	9	21·0	25·1	25·4	24·7	27·2	20·5	6·7	2·3	42	1·0	8
4	959·8	23·6	0·8	22·2	92	26·5	340	7·2	10	23·1	23·2	23·7	24·0	25·8	22·6	3·2	32·4	162	0·3	2
5	959·8	23·6	0·3	23·1	97	28·0	Calm		10	23·7	22·6	22·7	21·0	23·7	22·6	1·1	217·1	675	0.0	0
6	960·4	22·1	0·1	21·9	99	26·0	04	0·5	10	21·5	21·7	21·6	20·9	23·4	21·3	2·1	41·7	316	0·0	0
7	961·0	25·4	1·8	22·3	83	26·7	60	3·6	7	20·8	23·8	27·4	23·2	27·5	20·8	6·7	4·3	27	8·6	69
8	963·6	25·5	2·7	20·9	76	24·5	65	1·3	7	22·1	25·1	27·2	23·0	27·7	21·5	6·2	0·0	0	11·0	89
9	963·7	25·0	2·6	20·6	76	24·0	85	3·1	9	22·1	23·2	26·1	22·5	27·3	21·3	6·0	2·1	28	9·5	77
10	962·3	24·3	2·6	19·8	76	22·9	90	4·5	7	21·2	23·7	21·5	22·1	27·0	21·1	5·9	6·7	84	6·1	50
11	963·7	25·1	2·7	20·5	76	23·9	85	8·1	8	21·9	23·6	25·5	22·1	26·5	21·4	5·1	5·2	34	9·3	76
12	964·6	23·9	1·5	21·3	85	25·1	90	4·9	10	21·7	23·8	25·0	22·2	25·0	21·6	3·4	2·3	12	8·1	66
13	964·2	25·5	3·4	19·7	70	22·7	70	5·4	2	21·6	24·1	27·0	22·0	27·6	21·6	6·0	0·0	0	10·2	84
14	964·9	25·9	3·4	20·1	70	23·3	70	3·6	5	21·1	25·0	28·2	22·3	28·2	21·1	7·1	0·6	2	10·9	89
15	966·6	26·5	3·3	20·9	71	24·5	65	2·2	2	21·9	25·0	26·2	22·5	29·0	21·7	7·3	0·0	0	6·8	56
16	967·6	22·1	0·8	20·7	92	24·2	90	1·8	10	21·5	24·2	25·9	21·6	26·5	21·2	5·3	2·9	31	4·1	34
17	965·1	24·4	2·9	19·4	73	22·3	95	7·6	6	21·0	22·9	25·4	21·7	26·8	20·6	6·2	1·1	18	5·2	43
18	964·7	24·9	2·9	19·9	74	23·0	90	8·1	8	21·4	24·5	23·5	22·8	26·0	21·3	4·7	0·4	3	3·4	28
19	965·2	24·9	1·9	21·6	82	25·5	70	8·9	10	22·7	24·0	23·5	20·8	26·5	21·9	4·6	30·2	290	2·5	21
20	964·8	23·4	0·9	21·8	91	25·9	90	4·9	10	21·0	21·9	24·2	21·7	26·0	21·0	5·0	2·1	44	0·5	4
21	963·1	24·3	1·1	22·4	89	26·8	70	4·0	8	21·7	22·2	23·8	22·5	24·8	21·6	3·2	4·9	45	1·7	14
22	963·4	24·1	0·5	23·2	94	28·1	340	2·7	10	21·8	22·7	25·6	23·3	26·3	21·7	4·6	1·7	23	3·4	28
23	965·2	27·4	3·1	22·2	73	26·5	25	0·9	7	19·9	27·1	29·5	23·0	29·9	19·5	10·4	0·0	0	10·8	90
24	966·5	26·5	2·4	22·4	78	26·8	340	1·3	7	20·6	26·0	29·0	22·6	29·5	19·9	9·6	0·0	0	5·6	47
25	965·4	27·1	2·4	23·1	79	28·0	Calm		6	21·1	24·2	28·4	23·7	29·6	21·1	8·5	0·0	0	7·7	64
26	964·2	26·4	4·9	18·1	60	20·6	Calm		0	19·9	25·0	29·4	21·7	29·6	18·6	11·0	0·0	0	9·5	79
27	964·7	26·3	5·3	17·3	58	19·6	Calm		2	18·7	25·8	27·4	21·0	29·2	18·0	11·2	0·0	0	7·5	63
28	965·6	25·5	3·6	19·4	69	22·3	95	0·9	8	20·0	24·2	26·0	21·8	27·8	19·5	8·3	0·0	0	5·7	48
29	968·6	25·8	2·9	20·9	74	24·5	70	0·5	9	21·1	25·0	27·0	23·0	28·2	21·1	7·1	3·5	26	3·9	33
30	966·6	25·2	3·8	18·7	67	21·4	90	3·6	7	22·0	25·0	24·0	20·9	26·5	20·9	5·6	13·2	52	5·7	48
31	965·1	24·3	2·2	20·5	80	23·9	95	8·1	7	20·9	22·6	25·1	21·1	26·3	20·8	5·5	0·6	4	7·8	66
Mean	963·9	24·9	2·3	20·9	79·4	24·7	...	3·8	7·4	21·4	23·9	25·6	22·3	27·0	21·0	6·0	445·1	2392	5·58	46·0
Average	964·6	24·5	2·3	20·4	79·1	23·9	...	3·5	6·7	...	...	...	...	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	+	41·4mbs.	Amount of rain	—	212·9mms.
Temperature of the Air	+	2·3°C	Duration of sunshine	+	41·2hrs.
Vapour Tension	+	2·8mbs.	Mean of maximum temperatures	+	1·8°C
Relative Humidity	—	2·4%	,, minimum temperatures	+	2·0°C
Velocity of Wind	+	0·3mps	Absolute maximum temperature	+	0·4°C
Amount of Cloud	+	0·3	,, minimum temperature	+	3·1°C

Greatest Rainfall intensity at Vacoas. 55 mms. in 55 minutes.

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of MARCH 1937.

Month and Day 1937.	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 (Saturation=100). Mean	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration	Amount of Evaporation.	Mean Amount of Cloud (Scale 0—10)
MARCH	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C			mbs.	°C	mms.	min	mms.	
1	1000·9	− 4·0	29·0	23·1	5·9	26·7	+ 1·0	2·2	23·0	+ 1·2	80	+ 1	27·8	22·1	16·0	120	3·9	8·5
2	999·9	− 5·0	28·6	23·0	5·6	24·9	− 0·7	0·9	23·4	+ 1·7	91	+ 11	28·5	21·9	85·8	460	3·5	9·5
3	1000·2	− 4·7	29·1	23·0	6.1	26·3	+ 0·7	1·6	23·6	+ 1·9	85	+ 5	28·8	22·8	0·0	...	3·5	9·8
4	999·9	− 5·1	28·1	25·4	2·7	26.8	+ 1·2	1·3	24·6	+ 2·7	88	+ 8	30·6	24·8	8·7	115	3·3	9·7
5	999·8	− 5·2	27·2	24·0	3·2	25·7	+ 0·1	0·7	24·5	+ 2·6	93	+ 13	30·4	24·0	19·8	310	3.0	9·8
6	1000·8	− 4·4	26·4	23·0	3·4	24·3	− 1·3	0·5	23·4	+ 1·5	95	+ 15	28·5	22·9	37·6	510	2·7	10·0
7	1002·2	− 2·9	28·9	22·9	6·0	25·5	− 0·1	1·6	22·8	+ 0.9	85	+ 5	27·5	22·9	10·2	70	3·0	6·7
8	1003·7	− 1·4	28·9	23·0	5·9	25·7	+ 0·1	2·0	22·3	+ 0·4	82	+ 2	26·7	21·8	0·0	...	6·8	3·3
9	1003·3	− 1·9	28·5	23·6	4·9	25·6	0·0	2·2	21·9	0·0	80	0	26·0	22·6	2.1	115	5·6	6·2
10	1002·7	− 2·5	28·6	23·1	5·5	25·3	− 0·3	2·0	21·9	0·0	82	+ 2	26·0	22·2	3·9	75	5·9	7·5
11	1004·1	− 1.3	28·1	24·0	4·1	26·1	+ 0·5	3·0	21·0	− 0·9	73	− 7	24·6	23·0	1·1	35	5·0	6·1
12	1004·7	− 0·6	28·6	23·1	5·5	25·8	+ 0·2	2.4	21·7	− 0·2	78	− 2	25·7	23·0	0·8	20	5·8	4·6
13	1004·7	− 0·7	29·0	22·9	6·1	25·5	0·0	2·2	21·8	0·0	80	0	25·9	21·7	0·4	15	5·0	2·8
14	1005·8	+ 0·4	29·2	23·0	6·2	25·7	+ 0·2	2·2	22·0	+ 0·2	80	0	26·2	20·5	0·0	...	6·2	3·5
15	1007·7	+ 2.2	29·9	23·0	6·9	25·9	+ 0·4	2·0	22·5	+ 0·6	82	+ 2	27·0	21.3	0·0	...	7·0	4·2
16	1007·8	+ 2·3	28·0	22·7	5·3	24·7	− 0·3	1·9	21·4	− 0·5	82	+ 2	25·2	21·7	3·9	60	3·9	5·9
17	1005·6	0·0	28·2	22·3	5·9	24·8	− 0·7	2·3	20·8	− 1·1	78	− 2	24·3	22·1	0·5	20	5·1	6·8
18	1005·6	− 0·1	27·6	24·0	3·6	25·5	0·0	2·4	21·4	− 0·5	78	− 2	25·2	24·0	0·0	..	5·2	8·7
19	1005·8	+ 0·1	28·1	22·7	5·4	25·5	0·0	1·8	22·4	+ 0·5	83	+ 2	26·8	22·5	26·0	115	4·0	8·9
20	1004·5	− 1·3	27·9	24·0	3.9	25·3	− 0·2	1·8	22·2	+ 0·3	83	+ 2	26·5	23·8	2·3	20	4·8	9·9
21	1003·3	− 2·5	27·9	24·0	3.9	25·2	− 0·2	1·1	23·3	+ 1·5	89	+ 8	28·3	24·0	6·7	125	3·7	9·0
22	1004·1	− 1·8	29·6	23·5	6·1	25·8	+ 0·4	1·0	23·9	+ 2·1	89	+ 8	29·4	23·2	5·2	45	2·2	7·0
23	1006·1	+ 0·2	30·2	22·9	7·3	26·3	+ 0·9	1·5	23·8	+ 2·0	86	+ 5	29·2	22.0	0·0	...	4·4	4·6
24	1006·6	+ 0·6	30·3	23·0	7·3	26·3	+ 0·9	1·6	23·6	+ 1·8	85	+ 4	28·8	22·0	0·0	...	5·3	3·5
25	1005·5	− 0·5	30·2	22·1	8·1	26·1	+ 0·7	1·6	23·4	+ 1·6	85	+ 4	28·5	21·9	0·0	...	5·4	4·7
26	1004·6	− 1·5	30·1	21·8	8·3	25·5	+ 0·2	2·1	21·9	+ 0·2	81	0	26·0	20·6	0·0	...	5·5	2·3
27	1005·0	− 4·1	30·0	21·1	8·9	24·8	− 0·5	2·2	21·0	− 0·7	79	− 2	24·6	20·8	0·0	...	6·1	4·5
28	1006·9	+ 0·8	28·9	21.1	7·8	24·5	− 0·8	2.3	20·5	− 1·2	79	− 2	23·9	21·0	0·0	...	4·6	7·2
29	1008·5	+ 2·3	29·2	21·1	8·1	25·2	− 0·1	2·3	21·3	− 0·4	79	− 2	25·1	21·1	0·0	...	3·7	5·9
30	1006·9	+ 0·7	29·1	22·1	7·0	25·0	− 0·2	2·1	21·4	− 0·2	80	0	25.2	20.4	0·6	15	5·0	5·4
31	1005·4	− 0.9	28·2	23·4	4·8	25·3	+ 0·1	2·7	20·7	− 0·9	76	− 4	24·2	22·4	0·6	10	4·7	7·0
Mean	1004·3	− 1·3	28·8	23·0	5·8	25·6	+ 0·1	1·9	22·4	+ 0·6	82·8	+ 2·5	26·8	22·3	Sum 232·2	Sum 2255	4·6	6·6
Aver.	1005·6	...	28·9	22·3	6·6	25·5	...	2·2	21·8	...	80·3	...	25·9	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 1937.

Pressure remained low during the first half of the month owing to the influence of the weak cyclone which formed to the North of Mauritius on the last days of the previous month. This weak centre moved slowly westwards, curved near the East Coast of Madagascar and moved away on an almost Southerly course. Pressure remained very variable for the remainder of the month.

Noteworthy excesses of temperature were observed between the 1st and 5th and again from the 22nd to the 25th. On the 4th the minimum temperature recorded was more than 3°C above the average.

Considerable excesses of humidity were also observed during the same periods, the excess on the 6th reached 15% of the average.

Rainfall was to a small extent above the average but with a slight shortage in duration.

A large excess of cloud amount in the mean and a small shortage of sunshine were also among the most noteworthy features.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of MARCH 1937.

Month and Day 1937.	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.	%	mp.s.	mp.s.	°C.	°C.	°C.	°C.	
1	5·1	41	4·1	+ 0·8	24·8	27·3	28·9	28·4	c : o : orr
2	3.2	26	3·4	+ 0·1	24·8	27·4	28·8	28·1	oRR : o : cr_0 c : cqrr
3	2·4	19	5·0	+ 1·7	25·0	27·5	28·6	27·8	o : oq_0
4	0·3	2	5·3	+ 2·0	25·0	27·4	28·2	27·8	orr : o : or_0 : o : br_0
5	0·0	0	2·6	− 0·7	25·0	27·4	28·2	27.7	or_0 : o : orrtsm :
6	0·0	0	3·0	− 0·3	25·0	27·4	28·1	27·4	orr : or_0r_0 : orr
7	9·3	76	3·0	− 0·3	25·1	27·5	27·9	27·0	or_0r_0 : o : or_0 : c : bc : b
8	11·3	92	3·1	− 0·2	25·1	27·4	27·7	27·4	b : bc : c : bc : b
9	9·1	74	3·5	+ 0·2	25·1	27·3	27·7	27·9	berr : c : bc : c : bc
10	8·2	67	3·5	+ 0·2	25·2	27·3	27·8	28·0	cr_0 : c cr_0 : bc : bcr_0
11	10·7	87	5·6	+ 2.3	25·2	27·3	27·9	28·1	oqr_0 : bc c bc
12	10·2	84	4·8	+ 1·5	25·3	27·3	27·9	27·8	bq : beq : bcr_0
13	11·0	90	3·3	0·0	25·4	27·1	27·9	27·9	br_0 : b : br_0 : b
14	11·1	91	2·8	− 0·4	25·3	27·1	28·0	28·1	b : bc b : bc : b
15	9·7	79	2·5	− 0·7	25·3	27·1	28·0	28·3	b : bc : c : bc : b
16	3·8	31	2·1	− 1·1	25·5	27·1	28·1	28·3	b : bc . or_0 : c : bc
17	8·3	68	3·2	0·0	25·3	27·1	28·2	28·2	bcr_0 : bc : cr_0 : c : bc
18	2·4	20	4·8	+ 1·6	25·3	27·0	28·2	28·0	c : bc : c : o :
19	2·9	24	5·3	+ 2·1	25·4	27·0	28·1	27·7	cr_0 : bc : cr_0 : oq_0 : or_0 : oRR : o
20	0·9	7	4·4	+ 1·2	25·2	27·0	28·0	27·2	or_0 : o : oq_0 : o : or_0
21	3·6	30	2·9	− 0·3	25·4	27·0	28·0	27·4	or_0 : cr_0 : : or
22	6·3	52	1·8	− 1·4	25·4	27·0	28.0	27·7	c : cr_0 : o : cgr_0 : c : bc : c
23	10·8	90	1·6	− 1·6	25·5	27·0	28·0	27·8	b : bc
24	10·7	89	1·4	− 1·8	25·5	27·0	28·0	28.1	b : bc : b
25	10·5	87	1·5	− 1·7	25·6	27·0	28·1	28·2	b : bc : c : bc : c
26	11·4	95	1·4	− 1·8	25·6	27·1	28·1	28·4	b : bc : b
27	8·4	70	1.4	− 1·8	25·5	27·0	28·2	28·4	b : bc : c : bc
28	7·1	60	1·7	− 1·5	25·4	27·0	28·2	28·3	c : bc : c : cg : c : bc
29	8·2	69	1.5	− 1·7	25·7	27·1	28·2	28·3	bc : b : bc : c : bc
30	8·6	72	2·8	− 0·4	25·4	27.0	28·2	28·3	: bc : c : bc : bcr_0
31	8·8	74	4·4	+ 1·2	25·5	27·0	28·2	28·1	bc : c : bc : b
Mean	6·91	56·9	3·15	−0.09	25·27	27·17	28·11	27·94	.....
Average	7·15	58·6	3·24	...	25·39	27·07	28·43	28.96	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF MARCH 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1010·0mbs.	...	often	998·1mbs.	at 16·00hrs.	on 5th
Temperature of the Air	30·3°C	at 13·40hrs.	on 24th	21·1°C	...	often
Daily range of temperature of the Air ...	8·9°C	...	on 27th	2·7°C	...	on 4th
Temperature of the Dew Point	25·9°C	at 18·00hrs.	on 19th	19·3°C	at 13·00hrs.	on 17th
Daily range of temperature of the Dew Point	4·3°C	...	on 25th & 26th	1·1°C	...	on 8th
Minimum on Grass	...	...	...	20·4°C	...	on 30th
Relative humidity	99·0%	at 07·00hrs.	on 22nd	58·1%	at 13·00hrs.	on 29th
Vapour Pressure	33.1mbs.	at 18·00hrs.	on 5th	22·2mbs.	at 13·00hrs.	on 17th
Evaporation in 24 hours	7·0mms.	...	on 15th	2·2mms.	...	on 22nd
Wind Velocity	7·3m.p.s	at 13·00hrs.	on 11th	0.6m.p.s.	...	often
Rainfall in 24 hours	100.8mms.	ending 22hrs.	on 2nd	...	...	...
Duration of sunshine	11·4hrs.	...	on 26th	0·0hr.	...	on 5th & 6th

Mean Day Temperature of Air, 26·94°C Average 26·86°C. Mean Night Temperature of Air 24·12°C. Average 23·57°C.

NUMBER OF DAYS OF:—

Mean Cloud Amount: 0	1 — 3	4 — 6	7 — 9	10	Rainfall: 0.1 — 0.9 mms.	1.0 — 4.9 mms.	5.0 — 9.9 mms.	10.0 — 24.9 mms.	25.0 and over mms.	Lightning	Thunderstorm
...	5	10	11	5	5	5	3	3	3	...	1

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

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level.)
(The cistern of the barometer is 55·2 metres above mean sea-level.)

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The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
Midnight	019	013	007	007	001	009	022	036	046	033	033	052	051	058	079	091	Midnight
1	009	006	001	003	000	001	021	031	040	029	031	049	050	051	075	089	1h
2	007	999	000	000	996	999	020	030	035	025	029	044	045	049	070	085	2
3	002	990	997	994	993	994	017	027	030	020	026	041	039	043	066	080	3
4	004	991	999	992	991	990	016	028	031	019	025	040	039	041	063	078	4
5	008	992	001	992	990	991	012	031	031	020	029	041	040	042	066	080	5
6	011	999	003	997	994	000	013	032	036	025	038	046	043	050	070	083	6
7	013	000	010	001	996	002	019	040	041	029	041	052	049	054	073	086	7
8	018	004	014	006	001	016	021	046	043	031	047	058	052	060	081	090	8
9	020	001	017	010	007	019	023	050	044	034	050	061	058	065	082	097	9
10	020	002	016	011	010	019	022	050	046	037	051	060	057	067	081	094	10
11	020	002	008	009	006	011	021	044	043	035	050	056	052	061	080	092	11
Noon	012	000	002	001	001	010	019	040	038	030	047	050	043	057	078	085	Noon
13h	009	994	999	995	991	006	011	031	028	025	040	042	040	051	070	076	13h
14	001	990	992	990	988	996	011	026	022	020	036	039	036	050	068	068	14
15	996	986	989	986	982	000	010	022	019	016	031	031	033	050	065	061	15
16	996	985	986	986	981	001	010	025	019	016	030	031	033	050	069	060	16
17	000	984	990	988	983	004	013	029	021	020	031	033	036	051	071	061	17
18	000	990	994	991	990	010	024	031	024	023	040	040	040	057	078	065	18
19	003	998	000	997	000	016	031	040	028	030	048	046	047	063	081	068	19
20	010	002	002	002	008	020	038	048	031	033	052	051	052	071	089	070	20
21	012	014	006	009	011	021	041	050	034	036	059	053	058	076	094	074	21
22	013	017	010	010	011	023	042	050	037	038	061	057	060	080	100	076	22
23	017	010	010	008	010	022	040	049	037	034	059	056	060	079	099	073	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
Midnight	070	057	064	060	043	034	058	075	071	058	053	061	090	083	067	1004·8	Midnight
1h	067	052	061	060	040	030	051	070	069	051	047	060	087	081	061	1004·4	1h
2	061	050	061	052	031	027	050	068	061	046	041	059	083	073	059	1004·0	2
3	060	043	056	050	031	026	050	061	056	038	034	056	080	070	054	1003·6	3
4	054	043	051	047	030	024	050	060	054	037	031	054	080	068	051	1003·5	4
5	051	044	050	050	029	028	051	060	056	039	033	053	081	064	051	1003·6	5
6	050	049	053	051	032	034	059	064	060	041	040	060	087	067	052	1004·0	6
7	054	051	057	052	040	043	062	069	061	050	044	069	090	071	059	1004·4	7
8	060	057	060	053	043	051	069	071	064	051	051	070	096	075	061	1004·9	8
9	064	060	061	056	046	053	070	076	067	058	059	071	100	079	068	1005·2	9
10	066	061	063	056	046	050	070	076	064	057	060	074	100	079	063	1005·3	10
11	062	061	060	051	040	048	066	073	060	052	057	077	098	076	061	1004·9	11
Noon	060	060	059	044	034	040	060	069	056	048	051	072	091	071	055	1004·5	Noon
13h	055	052	051	031	028	031	051	061	046	039	050	068	080	064	049	1003·8	13h
14	050	050	050	031	022	031	046	059	042	034	047	066	075	060	042	1003·4	14
15	046	049	046	030	020	029	046	054	040	030	042	063	072	057	039	1003·0	15
16	045	049	049	026	020	030	049	055	040	030	045	061	071	056	040	1003·0	16
17	049	051	047	028	021	031	052	058	040	033	047	065	073	059	042	1003·3	17
18	050	059	051	031	026	041	062	061	041	036	051	070	076	059	048	1003·7	18
19	052	060	063	040	030	051	073	066	049	047	057	075	079	061	051	1004·4	19
20	056	065	068	042	034	057	080	071	052	051	060	080	083	070	055	1004·8	20
21	059	070	070	049	040	060	081	072	058	058	066	083	090	072	060	1005·3	21
22	060	073	070	049	043	060	080	073	060	060	069	089	090	071	059	1005·5	22
23	059	069	062	047	038	058	079	074	059	056	062	089	086	070	056	1005·3	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

MARCH 1937.

Hour. \ Day.	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean
Midnight	9	10	10	10	10	10	10	1	2	8	9	3	6	2	1	1	5	7	9	10	10	8	2	4	1	4	1	7	6	5	6	6·0
1h	9	10	10	10	10	10	10	1	3	8	10	2	3	3	1	1	5	8	9	10	10	8	2	4	1	3	1	8	6	3	6	6·0
2	9	10	10	10	8	10	10	2	4	9	10	3	2	3	1	2	3	8	8	10	10	8	2	3	1	3	1	8	6	3	6	5·9
3	8	10	10	10	8	10	10	1	5	7	6	2	1	4	2	2	3	9	8	10	10	7	2	3	1	1	1	8	6	4	8	5·7
4	8	10	10	10	10	10	10	1	5	6	5	3	1	2	2	2	3	9	8	10	10	6	2	3	1	1	1	7	6	3	8	5·6
5	6	10	9	10	10	10	10	1	5	9	5	4	3	3	2	2	3	6	3	10	7	8	1	4	1	1	1	7	5	2	7	5·3
6	7	10	9	10	10	10	10	1	5	8	7	3	2	4	3	3	5	6	6	10	7	10	5	4	3	1	1	7	5	2	7	5·8
7	8	10	10	10	10	10	9	3	4	8	6	4	3	4	4	5	7	7	8	9	8	9	5	5	2	1	1	7	2	2	7	6·1
8	8	10	10	10	10	10	10	5	8	8	6	5	4	4	4	7	8	8	9	10	9	10	6	6	1	1	2	7	2	2	7	6·7
9	8	10	10	10	10	10	10	7	8	8	7	7	7	7	6	8	9	9	9	10	8	10	6	6	5	1	3	7	2	6	9	7·5
10	8	10	10	10	10	10	8	8	8	8	8	6	6	6	6	10	9	8	10	10	9	9	6	6	5	2	4	8	5	7	8	7·7
11	8	9	9	10	10	10	8	8	7	8	8	6	3	5	5	10	8	9	10	9	9	9	5	6	4	2	6	8	7	6	8	7·4
Noon	8	9	10	9	10	10	8	7	5	7	6	4	3	5	7	9	7	9	9	10	8	8	4	6	5	3	7	9	8	6	7	7·2
13h	8	8	10	9	10	10	7	7	7	8	6	8	3	4	5	9	9	10	9	10	10	8	5	5	6	4	8	9	5	8	7	7·5
14	8	7	10	10	10	10	7	5	4	8	7	5	3	3	6	8	9	9	10	9	9	8	5	6	7	6	8	9	3	7	8	7·2
15	9	9	9	10	10	10	7	3	6	6	7	4	3	3	8	8	8	10	9	10	8	8	6	4	8	6	8	9	8	7	8	7·4
16	9	8	10	9	10	10	6	4	7	7	6	4	3	4	8	7	8	7	9	10	8	6	6	4	8	5	8	8	8	8	10	7·3
17	10	9	10	9	10	10	5	4	8	7	6	6	4	4	8	8	8	10	10	10	9	8	7	1	8	4	8	8	8	10	9	7·6
18	9	9	10	10	10	10	4	3	8	8	6	5	3	5	7	8	8	10	10	10	9	8	5	1	7	3	9	8	9	8	8	7·4
19	9	9	10	10	10	10	3	2	8	8	4	8	2	3	5	6	8	10	10	10	10	8	4	1	6	1	7	5	9	7	8	6·8
20	10	10	10	10	10	10	1	1	9	7	4	3	1	2	4	4	7	10	10	10	10	1	7	1	7	1	6	5	8	5	5	6·1
21	10	10	10	8	10	10	1	1	8	6	3	2	0	1	3	5	7	10	10	10	10	2	6	1	7	1	4	5	7	5	4	5·7
22	9	10	10	9	10	10	1	1	6	4	3	3	1	1	2	7	8	10	10	10	10	2	5	1	8	1	3	4	6	6	3	5·6
23	9	10	10	9	10	10	1	1	6	9	4	8	2	1	2	7	7	10	10	10	10	3	5	1	8	1	6	4	5	6	3	6·1

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER

MARCH 1937.

Hour Ending. \ Day.	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	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	12	0	0	0	0	0	0	35	0	25	5	27	34	24	10	1	22	20	0	0	0	0	40	20	35	46	46	2	27	40	22	8·2
8	50	0	7	0	0	0	3	55	43	40	59	60	60	55	60	44	43	23	55	0	0	0	60	55	60	60	60	50	60	60	42	19·4
9	57	3	0	0	0	0	44	60	47	52	60	59	60	60	60	18	15	44	40	0	38	1	56	50	42	60	60	53	53	60	46	20·0
10	60	8	32	0	0	0	52	60	50	45	60	57	60	60	60	6	42	55	3	5	10	22	60	52	60	60	60	60	50	60	60	21·1
11	54	27	49	0	0	0	55	60	25	45	59	50	60	60	60	0	50	0	8	13	18	16	60	60	60	60	60	59	60	46	60	20·6
Noon	36	28	23	0	0	0	59	60	38	60	48	58	60	60	60	0	55	2	8	4	47	60	60	60	60	60	40	53	25	60	60	20·7
13h	23	52	13	0	0	0	59	60	60	17	58	55	60	60	59	0	60	4	28	30	3	60	60	60	60	60	55	38	60	37	60	20·09
14	6	47	0	0	0	0	60	60	59	56	60	59	60	60	58	30	55	0	26	0	33	46	59	60	60	60	60	0	60	26	58	20·3
15	10	4	4	0	0	0	60	60	60	58	60	56	60	60	54	55	45	0	5	0	38	52	60	60	60	59	54	7	27	56	55	19·7
16	1	15	7	16	0	0	60	60	60	35	53	58	55	60	58	58	58	0	0	0	18	50	60	60	53	55	4	59	44	34	52	19·0
17	0	10	7	0	0	0	60	60	60	42	59	53	57	60	34	12	53	0	0	0	9	55	58	60	60	60	0	45	25	20	13	16·2
18	0	0	0	0	0	0	46	50	46	17	58	20	33	45	10	3	0	0	0	0	0	20	15	46	18	45	3	0	0	15	1	8·2
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0

The total Amount of Registered Sunshine was 214·3 hrs. and the total possible sunshine was 377·3 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*)

MARCH 1937.

Day. / Hour.	1d. Air.	1d. Excess of Air over Evap.	2d. Air.	2d. Excess of Air over Evap.	3d. Air.	3d. Excess of Air over Evap.	4d. Air.	4d. Excess of Air over Evap.	5d. Air.	5d. Excess of Air over Evap.	6d. Air.	6d. Excess of Air over Evap.	7d. Air.	7d. Excess of Air over Evap.	8d. Air.	8d. Excess of Air over Evap.	Day. / Hour.
Midnight	25·7	1·4	23·3	0·8	23·0	0·8	26·3	1·2	25·9	0·8	24·5	0·5	23·9	0·6	24·6	1·2	Midnight
1h	25·8	1·1	23·1	0·5	23·2	0·7	26·0	0·9	25·9	0·7	24·6	0·5	23·0	0·6	24·5	1·1	1h
2	26·0	1·3	23·2	0·4	23·4	0·7	26·2	1·2	26·0	1·0	24·3	0·4	23·4	0·4	24·1	1·0	2
3	25·9	1·7	23·6	0·6	23·9	1·1	26·3	1·3	26·0	1·0	24·9	0·7	23·2	0·3	24·1	1·0	3
4	25·9	1·2	23·6	0·5	24·0	0·9	26·3	1·3	26·0	1·0	24·6	0·5	23·2	0·3	23·4	0·7	4
5	25·8	1·2	23·4	0·6	24·7	0·7	26·2	1·3	26·0	0·9	24·3	0·3	23·1	0·5	23·2	0·8	5
6	25·9	1·1	23·6	0·5	25·0	0·7	26·1	1·2	25·0	0·8	24·1	0·4	23·2	0·4	23·1	0·8	6
7	26·0	1·1	23·5	0·4	25·3	0·7	26·3	1·3	24·9	0·8	24·2	0·4	24·2	0·4	24·2	1·2	7
8	27·1	2·1	23·3	0·2	26·1	1·3	26·4	1·3	25·6	0·6	24·2	0·2	25·1	0·6	26.0	2.0	8
9	28·0	2·7	24·1	0·4	26·9	1·9	26·1	0·9	25.1	0·3	24·1	0·6	26·2	1·3	27·4	3·1	9
10	28·7	3·5	25·3	0·5	27·7	2·4	27·0	1·2	25·2	0·9	24·2	0·2	27·1	2·1	27·7	3·1	10
11	28·7	3·7	25·8	0·9	28·1	2·1	27·7	1·8	25·7	0·1	24·4	0·3	27·6	2·6	28·2	3·7	11
Noon	28·6	3·5	26·4	1·1	28·1	2·9	28·0	1·7	26·6	0·5	25·0	0·6	28·1	3·1	28·1	3·3	Noon
13h	28·1	3·1	27·8	2·8	28·0	2·1	27·7	1·6	26·9	0·7	25·5	0·7	28·2	3·2	28·3	3·9	13h
14	28·0	3·2	28·1	2·2	27·9	2·3	27·4	1·3	27·0	0·8	25·8	0·8	28·4	3·4	28·6	3·8	14
15	28·0	3·2	26·3	1·1	27·7	1·9	27·7	1·5	27·0	0·9	24·5	0·5	28·2	3·5	28·2	3·9	15
16	27·5	3·2	27·2	1·6	28·0	2·7	28·0	1·6	26·7	0·7	24·2	0.4	27·7	3·5	28·0	3·3	16
17	27·1	3·1	27.1	2·1	27·6	2·3	27·7	1·6	26·3	0·3	24·1	0·5	27.2	3·4	27·2	3·0	17
18	26·6	2·6	26·5	1·7	27·0	1·9	27·3	1.3	26·2	0·2	23·6	0·7	26·7	2·6	26·2	2·2	18
19	26·0	2·2	26·0	1·3	26·8	1·7	27·0	1·0	25·0	0·4	24·0	1·0	25·2	1·2	25·0	1·3	19
20	26·1	2·3	25·8	0·9	26·8	1·9	26·9	0·9	24·0	0·7	23·1	0·8	25·0	1·2	24.3	1·0	20
21	26·0	2·0	24·2	0·5	26·8	1·9	26·9	0·9	24·3	0·3	23·9	0·7	24·8	1·5	24·2	0·9	21
22	25·2	1·3	23.9	0·9	26·6	1·6	25·7	0·8	24·5	0·5	24·1	0·3	24.8	1·2	24·0	0·9	22
23	24·8	0·9	23·2	0·7	26·5	1·5	25·6	0·7	24·6	0·6	23.4	0.4	24·2	1·1	24·1	0·9	23

Day. / Hour.	9d. Air.	9d. Excess of Air over Evap.	10d. Air.	10d. Excess of Air over Evap.	11d. Air.	11d. Excess of Air over Evap.	12d. Air.	12d. Excess of Air over Evap.	13d. Air.	13d. Excess of Air over Evap.	14d. Air.	14d. Excess of Air over Evap.	15d. Air.	15d. Excess of Air over Evap.	16d. Air	16d. Excess of Air over Evap.	Day. / Hour.
Midnight	24·2	0·8	23·7	1·4	24·6	1·0	24.6	2·5	24·0	0·9	23·2	1·0	24·0	1·0	23·6	0·9	Midnight
1h	24·1	0·8	23·6	1·4	24·1	1·0	24·7	2·5	24·2	0·8	23·2	1·0	23·8	0·9	23·3	0·9	1h
2	24·2	0·9	23·6	1·3	24·2	1·1	24·6	2·3	24·0	0·8	23·1	0·9	23·9	0·9	23·3	0·8	2
3	24·1	0·9	23·2	1·1	24·6	1·6	24·2	1·8	23·3	1·0	23·2	0.8	24·0	0·9	23·2	0·9	3
4	23·8	0·9	23·2	1.1	24·6	1·9	24·1	1·7	23·4	0·7	23·1	0·9	23·8	0·8	23·2	1.0	4
5	23·8	0·9	23·4	1·2	24·7	1·9	24·0	1·5	23·3	0·8	23·1	0·9	23·6	0·8	23·0	0·9	5
6	24·0	0·9	23·2	0·8	24·7	2·1	24·0	1·4	23·1	1·0	23·0	0·8	23·2	0·8	22·9	1.0	6
7	24·1	0·9	24·0	1·4	25·0	2·6	25.0	2·1	24·3	1·2	23·8	1·4	23·6	0·7	23·1	1·0	7
8	25·3	1·3	25·0	2·6	26·2	3·2	26·1	2·1	26·0	2·2	26·5	2·2	26·0	1·4	25·8	1·7	8
9	27·0	2·2	26·2	2·4	27·0	3·5	27·0	2·9	26·5	2·9	27·2	2·5	27·8	2·9	26·0	2·3	9
10	27·1	3·1	27·1	3·2	27·1	3·3	27·2	3·1	27·4	3·7	28·1	3·8	28·6	3·6	25·9	2·2	10
11	27·1	3·0	27·5	3·8	27·7	3·7	27·7	3·4	28.0	4·0	28·4	4·2	28·8	3·8	23·9	0·9	11
Noon	27·9	3·9	28·6	4·4	27·0	3·9	28·1	4·1	28·7	4·7	29.0	4.1	29·1	4·4	26·0	2·0	Noon
13h	28·2	4·2	26·1	2·0	27·7	4·1	27·8	3·7	28·6	4·2	28·9	4·1	29·7	4·6	26·9	3·4	13h
14	28·2	4·1	28·0	4·0	27·8	4·0	28·1	3·9	28·5	3·9	29·0	4·6	29·0	4·1	27·6	4.3	14
15	28·0	4·2	27·3	3·5	27·9	3·9	27·9	3·8	28·2	4·1	28·8	4·4	28·4	3·7	27·9	4·6	15
16	27·8	4·1	26·9	3·0	27·1	3·5	27·6	3·6	27·0	2·9	28·2	3·7	28·7	3·8	27·6	4·4	16
17	27·0	3·4	26·7	2·7	26·9	3·4	27·0	3·0	27·1	3·3	27·7	3·5	27·7	3·1	26·0	2·8	17
18	26·3	3·1	25·9	2·0	26·1	3·1	25·9	1·9	26·1	2·8	26·7	2·7	26·8	2·6	25·3	2·3	18
19	25·1	2·0	25·0	1·6	26·3	3·5	25.2	1·5	24·8	1·6	25·3	1·4	25·4	1·4	24·2	1·5	19
20	24·5	1·5	24·6	1·2	26·2	3·5	24·9	1·6	24·1	1·1	24·7	1·4	24·9	1·1	24·0	1·5	20
21	24·2	1·4	24·7	1·2	26·0	3·2	24·7	1·5	24·0	1·0	24·3	1·1	24·3	1·1	23·7	1·6	21
22	24·2	1·4	24·8	1·2	25·9	3·1	24·4	1.3	23·9	1·1	24·0	1·0	24·0	1·0	23·4	1·2	22
23	23·6	1.0	24·8	1·0	25·8	3·0	24·1	1·0	23·3	1·0	24·1	1·1	23·8	0·9	23·5	1·3	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add* 273)

MARCH 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	23·3	1·2	24·1	1·7	25·8	2·1	24·8	1·7	24·1	1·0	24·2	0·3	23·6	0·9	24·0	0·9	Midnight
1h	23·2	1·2	24·3	1·5	25·6	1·9	24·9	1·8	24·0	0·9	23·7	0·6	23·3	0·6	23·9	0·9	1h
2	23·1	1.1	24·6	1·8	25·8	2·2	24·7	1·8	24·3	1·1	23·8	0·6	23·6	0·7	24·0	0·8	2
3	22·8	0·8	24·8	2·0	24·9	1·1	24·9	1·9	24·1	0·9	23·7	0·5	23·2	0·4	23·8	0·6	3
4	22·5	0·6	24·8	2·1	24·4	0·8	24·1	1·1	24·1	0·9	24·1	0·3	23·1	0·8	23·3	0·7	4
5	22·7	1·4	24·1	1·5	24·9	1·6	24·0	0·9	24·1	0.8	24·1	0·3	22·9	0·7	23·0	0·7	5
6	22·6	1·1	24·3	2·2	25·0	1·6	24·1	1·1	24·2	0·7	24·2	0·3	23·0	0·7	23·0	0·6	6
7	23·5	1·5	25·0	2·3	25·3	1·6	24·2	1·1	24·3	0·6	24·1	0·1	24·0	0·4	24·7	1·8	7
8	25·2	2·4	25·8	2·8	26·1	1·9	25·0	1·2	25·0	1·0	25·0	0·3	26·1	0·7	26·7	1·0	8
9	25·8	2·8	26·4	3·4	26·7	2·1	25·2	1·3	26·0	1·3	25·1	0·4	27·7	1·7	27·3	1·3	9
10	26·9	4·2	27·3	3·8	27·1	2·6	26·1	1·8	26·7	2·0	26·7	0·7	28·2	1·9	29.1	2·1	10
11	27·8	4·6	26·8	3·7	27·3	2·9	26·8	2·6	25·7	0·7	27·1	1·1	29·0	2·4	29·8	2 6	11
Noon	27·4	4·0	27·5	3·5	26·9	2·5	27·0	2·9	26·9	1.9	28·9	2·0	30·0	2·9	30·0	2·8	Noon
13h	27·9	5·1	27·0	3·3	27·2	3·3	27·6	3·1	27·2	2·3	29·1	2·3	30·1	3·3	29·7	2·8	13h
14	27·3	4·7	26·6	3·4	28·0	3·0	26·6	2·6	26·1	1·1	28 8	2·0	30·0	3·1	30.0	3·2	14
15	27·4	4·6	26·6	3·3	26·9	2·3	26·2	2·3	27·4	2·4	28·8	2·1	30·0	3·0	29·6	3·0	15
16	26·6	3.6	26·3	3·0	26·0	2·1	26·1	2·3	26·4	1·4	28·9	2·2	29·7	3·0	29·2	3·2	16
17	24·9	1·9	26·1	2·8	25·7	1·9	26·0	2·7	26·0	1·5	28·1	2·0	29·1	2.9	28·7	2·9	17
18	24·2	2·0	25·8	2·7	23·2	0·5	25·6	2·3	25·4	0·8	27·5	1·4	28·3	2·1	27·7	2·1	18
19	24·1	1·8	24·4	1·2	23·5	0·5	25·2	2·0	25·0	0·8	26·5	0·9	27·0	1·0	25·9	1·0	19
20	24·0	1·5	24·8	1·5	23·3	0.6	25·2	2·0	24·8	0·8	25·2	0·8	25·9	1·0	25·0	0·9	20
21	24·1	1·5	24.9	1·3	24·0	0·8	24·9	1·8	24·6	0·6	24·5	0·5	25·3	0·6	24·6	0·7	21
22	24·2	1·5	24·9	1·2	24·2	1·0	25·0	1·7	24·7	0·6	24·0	0·7	24·9	0·9	24·0	0·9	22
23	24·1	1.4	24·7	1·1	24·1	1·2	24·2	1·0	24·4	0·4	23·8	0·8	24·1	1·1	23·6	0·9	23

Day. / Hour.	25d.		26d.		27d.		28d.		29d		30d		31d		Mean		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	23·3	0·7	24·1	1·0	22·6	1·5	22·1	1·1	22·8	1·1	24·6	1·7	23·7	1·0	24.1	1·1	Midnight
1h	23.2	0·7	24·0	1.1	22·2	1·3	21·9	1·1	22·1	1·0	24·1	1·4	24·0	1·8	23·9	1·0	1h
2	23·2	0·7	23·3	1·0	22·0	1·2	21·8	1·1	22·0	1·0	24·0	1·5	24·0	1·8	29·9	1·1	2
3	23·0	0·9	22·9	1·0	21·8	1·2	21·3	0·8	21·9	1·0	23·1	1·1	24·0	1·9	23·8	1·1	3
4	22·7	0·7	22·2	1·0	21·6	1.1	21.2	0·9	21·5	1·0	22·6	1·3	23·9	1·8	23·6	1·0	4
5	22·2	0·7	22·1	1·0	21·2	0·9	21·1	0·9	21·2	0·8	22·1	1·0	23·8	1·8	23·5	1·0	5
6	22·2	0·5	21·9	1.1	21·1	0·9	21·3	0·8	21·2	0·7	22·3	1·1	23·4	1·7	23·5	1·0	6
7	23·3	0·6	22·6	0·6	22·1	0·9	21·9	1·0	22·0	0·9	23·4	1·4	24·0	1·5	24·1	1·1	7
8	26·1	1·0	25·9	2·1	25·1	1·9	24·4	1·4	25·6	1·6	26·2	2·3	25·5	2·6	25·6	1·6	8
9	27·1	1.1	27·0	2.4	27·2	3.6	26·1	2·9	26·4	2·3	27·2	3·2	25·3	2·5	26·4	2·1	9
10	28·1	2·1	28·5	2.9	28·1	4·1	27·5	3·9	27·5	3·2	27·9	3·6	27·0	3·6	27.2	2·6	10
11	29·1	2·6	29·3	4·3	29·1	4·4	27·4	4·1	28·7	4·4	28·3	4·2	27·9	4·2	27·6	2·9	11
Noon	29·9	2·9	29·9	3·4	29·0	4·0	28·0	4·0	28·0	4·4	29·0	4·7	28·0	4·7	28·1	3·2	Noon
13h	30·1	3·0	29·4	3·5	29·3	4·0	28·1	4·0	29·0	5·5	28·0	3·7	28·0	4·5	28·1	3·3	13h
14	29·8	3·2	29·8	4·4	29·2	4·4	27·0	3·5	29·0	5·2	27·1	3·3	28·2	4·4	28·1	3·3	14
15	29·8	3·0	29·1	3·6	28·9	3.7	27·0	3·5	28·1	3·1	28·1	4·1	27 6	4·3	27·9	3·2	15
16	29·2	2·6	27·8	3·4	26.9	3·2	27·3	3·8	28·1	3·2	26·2	2·8	27·1	4·5	27·4	2·9	16
17	28.8	2·8	27·3	3·1	26·1	2·7	26·3	3 3	27·3	3·2	24·4	1·5	26·1	3·1	26·8	2·6	17
18	27·4	2·0	26·4	2·2	25·1	1·9	25·7	2·7	26·3	2·5	24·3	1·5	25·2	2·3	26·0	2·0	18
19	26·7	1·6	25·1	1·2	24·2	1·3	24·7	2·1	25·2	1·7	23·5	1·5	24·2	1·9	25·2	1·4	19
20	26·3	1·2	24·3	1·3	23·9	1·5	24·0	1·8	25·0	1·8	24·0	1·2	24·1	2·0	24·8	1·3	20
21	25·3	1·1	23·9	1·7	23·1	1·1	24·6	2·4	25·1	2·0	23·3	1·2	24·0	2·0	24·6	1·3	21
22	25·0	1·0	23·2	1.2	22·7	1·4	24·1	2·1	25·0	2·0	23·7	1·6	23·8	2·2	24·4	1·2	22
23	24·5	1·9	22.9	1·4	22·3	1·2	23·8	2·1	24·2	1·5	23·6	1·4	23·8	1·9	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 MARCH 1937.

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 *).*

MARCH 1937.

Hour.	1d Dir.	1d Vel.	2d. Dir.	2d. Vel.	3d. Dir.	3d. Vel.	4d. Dir.	4d. Vel.	5d. * Dir.	5d. * Vel.	6d. Dir.	6d. Vel.	7d. Dir.	7d. Vel.	8d. Dir.	8d. Vel.	9d. Dir.	9d. Vel.	10d. Dir.	10d. Vel.	11d. Dir.	11d. Vel.	12d. Dir.	12d. Vel.	13d. Dir.	13d. Vel.	14d. Dir.	14d. Vel.	15d. Dir.	15d. Vel.	16d. Dir.	16d. Vel.
Midnight	07	4·2	06	2·5	07	2·7	03	5·2	03	2·0	05	2·0	02	3·0	07	2·2	10	2·5	10	2·4	10	3·8	10	4·7	07	2·1	10	2·4	08	2·6	07	2·1
1h	07	4·0	07	2·9	09	2·3	02	5·3	02	2·2	04	3·4	06	1·4	08	2·1	10	2·1	10	2·5	10	4·3	10	5·3	09	2·1	10	2.0	08	1·6	08	1·6
2	05	3·5	08	3·2	09	3·4	03	6·1	01	3·1	05	3·0	06	1·3	08	2·0	05	2·3	10	1·7	08	5·5	10	4·9	10	1·9	10	2·1	08	2·1	09	1·7
3	06	3·2	10	3·2	09	3·9	02	5·9	32	3·7	04	2·9	06	1·1	08	2·3	10	1·8	10	1·8	08	5·6	10	4·0	10	2.5	10	2·0	08	1·6	09	2·0
4	07	3·0	08	3·6	08	4·3	02	5·6	32	3·3	03	2·2	09	1·0	08	2·1	09	3·0	10	1·6	09	4·3	10	3·7	11	2·3	10	1·6	08	2·1	09	2·7
5	06	2·9	08	4·5	07	3·3	02	6·1	32	3·6	04	1·7	09	1·4	08	2·5	09	2·5	10	2·3	08	4·4	10	4·3	11	2·4	10	2·1	08	1·8	09	2·2
6	05	3·4	08	2·5	05	3·5	02	6.0	31	2·8	06	1·4	09	1·6	08	2·2	09	2·1	09	1·6	09	5·0	10	3·9	11	2·4	10	1·5	08	1·5	10	1·3
7	06	4·2	07	3·0	05	3·5	01	6·1	01	1·1	06	1·3	09	1·9	09	2·9	09	1·4	10	2·9	09	4·9	10	3·5	11	2·5	10	1·8	08	2·1	10	1·4
8	06	4·6	09	2·2	05	5·0	02	6·1	32	1·8	08	1·4	06	2·9	08	3·1	09	2·9	10	3·9	09	6·5	09	4·9	08	3 8	10	2·1	08	2·2	10	1·8
9	06	5·3	07	3·0	01	5·6	01	6·1	29	1·5	05	3·0	05	4·3	06	4·0	08	4·3	09	3·9	09	6·9	09	5.9	08	3·9	08	3·3	06	3·1	10	1 8
10	07	5·6	08	4·1	04	6·0	01	6·7	28	1·2	07	1·7	06	5·2	06	4·2	08	4·7	09	4·6	08	7·1	09	6·9	08	5·0	06	3·5	06	3·2	07	2·5
11	06	6·1	08	3·5	05	5·8	01	6·8	28	1·1	06	2·8	06	4·4	06	4·5	08	4·4	09	5·0	08	7·4	08	5·3	08	4 3	06	3·7	06	3·9	d16	2·8
Noon	05	5·1	04	4·4	03	4·5	01	6·7	31	2·1	04	3·4	04	5·1	07	4·8	08	4·7	09	4·9	08	7·2	09	6·7	09	4·5	06	4·3	07	3·8	r05	1·4
13h	06	5·3	03	4·9	02	6·9	01	7·0	29	2·9	05	3·2	06	5·2	07	4·2	08	5·7	09	4·0	07	7·3	09	6·9	06	5·1	08	4·2	04	3·9	10	1·8
14	08	5·2	02	5·1	04	6·5	01	5·8	30	3·4	03	5·0	07	5·5	06	4·5	09	5·4	08	5·1	08	6·9	09	6·5	08	5·7	06	4·2	05	3·9	09	2·9
15	08	5·5	04	3·0	03	6·1	01	6·3	30	3·3	05	5·7	05	4·4	08	4·6	09	5·6	10	5·3	09	6·6	09	7·1	10	4·6	06	3·2	06	3·6	08	3·0
16	08	5·1	02	3·5	02	6·3	32	6·1	31	2·6	06	4·5	06	4·0	08	5·1	09	5·5	10	4·9	09	6·8	09	4·8	09	4·7	08	4·2	06	3·1	11	3·4
17	05	3·9	03	3·2	03	5·9	01	5·2	32	1·7	05	5·1	06	4·4	08	5·5	09	5·0	10	4·7	09	5·8	09	4·3	08	4.2	08	3·3	06	3·3	10	3·2
18	08	3·4	04	2·5	03	5·5	01	4·4	32	1·8	05	4·1	06	3·1	10	3·0	08	4·1	10	3·5	09	5·9	10	4·3	08	3·8	08	2·8	06	1·7	10	2·1
19	07	3·6	04	2·3	02	5·3	01	4·6	d11	2·4	04	3·9	06	1·5	10	2·1	10	3·0	10	2·7	09	4·8	09	3·9	10	2·2	08	2·3	06	1·8	10	1·6
20	07	3·3	03	3·2	02	6·0	01	3·3	09	3·9	07	2·9	06	2·0	10	1·9	10	2·3	10	2·8	09	4·6	10	4·7	10	1·7	08	2·2	06	1·8	11	1·8
21	08	3·1	32	4·5	01	5·8	02	3·4	06	2·8	06	1·3	07	2·8	10	1·8	10	2·4	10	3·3	10	3·9	10	3·8	10	2·8	08	3·8	06	1·4	11	1·9
22	08	3·0	04	3·2	03	5·5	02	3·1	06	3·9	03	3·4	08	2·5	10	1·8	10	2·4	10	2·9	09	4·3	10	3·1	10	2·3	08	1·5	06	1·5	10	1·8
23	04	3·2	07	2·5	03	5·4	02	1·3	04	4·4	06	1·8	08	2·3	10	2·0	10	2·8	06	4·1	09	4·3	09	3·3	10	2·8	08	3·6	06	1·7	10	1·8

Hour.	17d. Dir.	17d. Vel.	18d. Dir.	18d. Vel.	19d. Dir.	19d. Vel.	20d. Dir.	20d. Vel.	21d Dir.	21d Vel.	22d. * Dir.	22d. * Vel.	23d. * Dir.	23d. * Vel.	24d. * Dir.	24d. * Vel.	25d. * Dir.	25d. * Vel.	26d. * Dir.	26d. * Vel.	27d. * Dir.	27d. * Vel.	28d. Dir.	28d. Vel.	29d * Dir.	29d * Vel.	30d * Dir.	30d * Vel.	31d * Dir.	31d * Vel.	Mean. Velocity
Midnight	10	1·9	10	3·0	09	5·3	09	4·4	08	3·3	04	1·2	28	1·5	32	0·8	15	1·1	15	0·7	11	1·4	11	1·2	10	1·6	12	1·4	09	3·2	2·5
1h	11	1·6	08	3·9	09	4·9	09	4·6	09	3·3	05	1·0	28	0·8	32	1·0	15	1.2	15	1·1	11	1·8	11	1·3	10	0·7	12	1·1	11	3·8	2·5
2	11	1·9	09	4·0	09	4·4	09	4·4	08	3.6	05	1·1	28	1·1	32	1·1	15	1·1	15	1·0	11	1·3	11	1·3	10	0·7	12	0·6	11	4·8	2·6
3	11	1·4	09	4·1	10	3·8	08	4·6	08	2·2	05	0·7	28	1·2	32	0·6	15	0·6	15	1·1	11	1·3	11	1·7	10	1·0	12	0·7	11	4·1	2·5
4	06	1·1	09	3·8	10	4·7	09	3·6	08	2·9	05	1·1	28	1·3	32	1·1	15	0·6	15	0·7	11	1·4	11	1·8	10	0·7	12	1·0	10	3·6	2·4
5	09	2·2	09	4·0	09	4·4	09	2·8	08	3·5	05	0·9	28	1·5	32	0·7	15	0·8	15	1.0	11	1·1	11	1·2	10	0 7	12	1·6	11	2·9	2·5
6	11	2·1	09	4·1	09	4·8	10	2·7	09	3·0	05	0·7	28	1·1	32	1·1	15	1·1	15	1·3	11	1·1	11	1·4	10	1·1	12	1·1	11	4·0	2·4
7	11	2·4	09	3·3	08	5·1	10	3·1	09	3·2	05	0·6	28	1·2	07	0·6	15	0·8	15	1·1	11	1·0	12	1·2	10	0·6	12	1·2	11	3·3	2·4
8	10	4·1	09	5·2	09	5·7	09	4·1	09	2·5	02	1·1	01	1·1	07	1·4	15	0·7	15	0·6	11	0·6	12	1.4	10	1·1	12	2·1	11	4·6	3·0
9	09	4·6	09	5·2	09	6·2	09	4·4	07	4·2	01	2·0	03	1·6	32	2·2	21	1·1	15	0·6	11	0·6	10	2·1	09	2·6	10	3.8	09	5·7	3·6
10	09	4·8	08	6·1	08	7·0	09	4·9	06	4·2	32	3·2	01	2·7	29	2·3	22	1·4	d24	1·3	07	0·6	07	2·9	06	2·6	11	4·3	11	6·4	4·1
11	10	5·5	09	6·0	09	6·8	09	5·8	04	4·4	32	3·9	02	2·4	31	2·7	25	2·3	22	1·6	05	1·1	11	2·2	08	2·3	08	3·6	10	6·7	4·2
Noon	08	4.5	09	5·5	07	6·2	09	5·4	08	3·8	32	3·9	32	3.1	30	2·4	24	2·4	21	2·6	r24	2·7	08	2·8	06	2·3	09	4·5	10	6·4	4·3
13h	09	4·8	09	6·7	07	6·2	10	6·3	04	4·1	31	4·8	01	2·9	27	3·0	25	2·8	22	3·3	27	2.5	08	2·8	07	2·6	12	4·5	09	6·0	4·6
14	09	4·4	09	5·5	09	6·1	10	6·0	08	3·3	32	2 8	31	3·3	26	2·3	24	3·0	22	2·2	22	2·1	11	2.1	06	2·8	10	4·1	09	5·9	4·4
15	10	4·3	09	5·6	07	5·4	10	5·0	03	3·5	28	2·9	32	3·2	23	2·5	25	3·4	r13	2·0	24	1·8	11	2·0	d17	2·1	12	3·7	12	5·7	4·2
16	10	5·2	10	5·4	09	6·4	10	4·8	05	2·7	29	2·9	02	3·2	24	2·3	23	2·9	10	2·2	d10	1·8	10	2·2	17	0·9	10	3·9	10	5·6	4·1
17	10	4·9	09	4·8	09	5·6	10	5·0	06	2·2	28	2·7	01	2·2	25	1·8	21	2·7	10	1·2	11	1·4	10	2·0	13	0·9	10	3·9	10	4·3	3·7
18	10	3·2	09	3·9	09	5·6	10	4·4	07	1·8	28	1·6	32	0·7	24	0·7	23	1·8	10	1.2	11	1·6	10	1·1	11	1·0	11	3·4	10	3·2	2·9
19	10	2·2	09	4·5	06	4·7	10	3·9	07	1·5	28	0·7	32	0·6	24	0·6	23	1·1	10	0·7	11	1·5	10	0·7	11	1·2	11	3·9	11	2·5	2·5
20	11	2·2	10	4·5	09	5·0	11	4·7	07	2·0	28	0·7	32	0·6	24	0·6	23	0·6	10	1·3	11	1·4	10	1·4	11	0·9	10	2·7	11	3·5	2·6
21	11	2·7	10	5·0	11	3·8	11	3·9	06	1·7	28	0·7	32	0·7	24	0·8	23	0·8	11	1·1	11	1·0	10	1·7	11	1·9	12	3·6	11	3·4	2·6
22	10	2·3	09	4·8	09	4.6	10	4·3	06	1·1	28	1·0	32	0·6	15	1·0	20	1·1	11	1·1	11	1·5	10	1·2	11	2·0	11	2·6	11	2·3	2·5
23	12	2·6	09	5·0	09	4·3	11	3·7	04	2·4	28	1·0	32	1·1	r15	0·8	15	1·1	11	1·6	11	1·2	10	1·3	11	1·8	10	2·8	11	2·7	2·6

TABLE XIII,—WIND FREQUENCY (NUMBER OF OBSERVATIONS), MARCH 1937.

Hour	Force (0–12) 8 or above	4 to 7	0 to 3	Direction 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	2	1	2	2	8	8	5	...	2	...	...	...	...	...	1	...
9	...	6	25	4	...	3	3	14	3	1	...	1	...	1	...	...	...	1	...
15	...	9	22	2	...	5	2	8	4	4	...	1	...	...	...	3		1	1
21	...	1	30	3	1	...	4	3	8	9	...	...	...	...	...	2	...	1	...
Totals	...			11	2	10	11	33	23	19	...	4	...	1	...	5	...	4	1

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for MARCH 1937.

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	10·0	...	1·6	...	0·8	6·6	..	...	...	0·1	...	...	...	...	...	...	...	...	...	0·3	...	...	..	...	...	...	...	...	...	0·1
2	...	0·1	...	...	...	1·6	...	...	...	...	...	..	0·1	...	...	...	...	...	...	...	..	...	..	..	...	...	...	...	...	...	...
3	...	0·1	...	...	...	0·8	...	...	1·3	0·7	1·0	...	...	...	...	...	0·3	...	1·0	...	...	...	...	...	...	...	...	...	...	...	...
4	...	5·0	..	...	...	1·8	..	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	..	10·0	...	...	...	1·4	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...
6	...	10·1	...	0·4	1·4	0·2	...	...	0·2	1·9	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...
7	...	12·8	...	...	1·4	...	..	...	0·2	...	...	...	..	...	...	...	...	...	...	...	0·4	...	..	...	...	...	...	...	...	...	..
8	..	10·0	...	0·3	...	0·4	3·6	...	...	...	...	...	...	...	...	...	...	...	1·0	...	.	0·2	...	...	...	...	...	...	...	...	...
9	...	0·5	...	4·0	4·0	5·2	..	...	...	...	...	...	0·2	...	...	...	0·2	...	0·2	...	...	4·6	..	...	...	...	...	...	...	...	...
10	..	4·6	...	...	...	6·0	...	...	...	...	...	...	0·1	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5
11	...	0·1	...	...	...	4·0	...	...	...	...	...	..	...	...	...	3·0	...	...	...	...	1·3	...	...	...	...	...	...	...	...	...	...
Noon	...	0·2	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	..
13h	...	...	...	1·2	...	...	...	...	..	0·4	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	..	0·5	...	...	...	...	...	...	...	...	...	...	0·2	0·1	...	...	...	...	..	...	...	...	...
15	...	2·1	..	0·4	...	0·2	...	...	...	...	...	...	...	...	...	0·2	...	...	0·6	...	0·2	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	0·6	...	...	...	...	...	..	..	...	...	...	...	...	...	...	1·5	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	2·2	0·2	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19·4	...	0·4	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·8	...	...	..	...	...	...	...	...	...	...	...	...
20	...	...	...	...	3·0	...	...	...	...	0·1	...	0·1	...	...	...	...	...	...	...	...	0·3	...	...	...	..	...	...	..	...	...	...
21	...	19·2	...	...	2·2	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...	..	...	...	...	...	...	...	...	...
22	...	2·0	...	0·8	4·8	8·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...
23	5·5	1·0	...	...	0·6	5·4	...	...	...	0·3	...	..	...	...	...	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	..
24	10·5	...	...	...	0·2	...	...	...	...	...	...	0·7	...	...	...	...	...	...	...	2·3	...	...	...	...	...	...	...	...	...	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR MARCH 1937.

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	8·9	...	3·3	1·2	3·9	1·8	...	...	0·5	2·0	...	...	...	...	...	...	0·1	...	...	0·5	...	...	...	...	...	...	...	...	...	0·1
2	..	2·8	...	2·3	2·5	0·5	1·2	...	...	...	0·3	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	3·0	0·2	0·8	...	...	...	0·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	0·3	...	0·5	3·7	0·5	..	...	...	...	0·8	...	...	...	...	...	0·2	0·1	0·3	0·2	0·8	...	...	...	...	...	...	...	...	...	...
5	0·1	0·3	...	1·2	1·0	0·3	...	...	1·7	0·3	0·2	...	...	0·6	...	...	...	...	0·7	0·6	0·2	0·1	...	...	...	...	...	...	...	...	...
6	0·5	1·2	...	0·9	2·4	0·3	...	...	...	...	0·6	...	...	...	...	...	...	...	0·1	0·9	0·1	...	...	...	...	...	...	...	...	...	0·4
7	0·9	6·1	...	...	0·2	1·2	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	0·2	...	...	...	...	...	...	...	...	0·1
8	...	13·2	...	4·2	0·7	0·9	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...
9	...	2·3	...	5·6	5·2	2·4	...	...	0·4	...	...	...	...	...	...	...	...	0·2	...	...	...	0·7	...	...	...	...	...	...	...	...	...
10	...	0·4	...	1·2	1·2	4·8	...	...	...	...	...	...	...	..	...	0·2	..	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...
11	...	...	...	4·9	5·1	1·0	...	...	...	...	...	0·5	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Noon	...	0·1	...	...	14·1	1·0	...	...	...	...	...	0·7	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	..	...	...	7·8	...
13h	...	0·2	...	1·1	10·2	0·1	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	0·6	0·4	...	...	...	...	...	...	...	..	...
14	...	2·2	...	...	11·0	...	...	...	...	0·1	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	...	...	0·8	...
15	..	0·1	...	3·4	2·3	6·9	...	...	...	1·1	...	...	...	...	...	...	...	...	1·1	...	0·2	0·2	...	...	...	...	...	...	...	...	...
16	0·2	3·9	...	2·9	23·6	5·7	...	...	...	1·5	...	0·1	...	...	...	...	...	...	7·1	...	...	...	...	...	...	...	...	...	3·4	0·2	...
17	0·1	..	...	...	27·4	0·3	...	...	...	0·7	...	0·2	...	...	...	...	...	...	0·8	...	0·8	...	...	...	...	...	...	...	...	0·4	...
18	...	...	...	...	15·8	...	...	...	...	..	...	0·1	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	0·2	...	...	0·3	45·2	...	...	...	...	0·4	..	0·3	...	...	...	...	...	...	9·5	0·2	0·2	...	...	...	...	...	...	...	...	1·2	...
20	...	...	...	...	30·1	...	...	...	..	0·2	...	0·2	...	...	...	...	...	...	3·8	...	0·2	...	...	...	...	...	...	...	...	...	...
21	0·4	17·9	...	...	3·0	1·0	0·5	...	...	0·3	...	0·1	...	...	...	...	...	...	5·3	...	..	...	...	...	..	...	...	...	...	1·5	...
22	...	0·4	0·2	..	1·8	0·7	...	...	...	0·2	0·3	...	...	...	...	...	...	...	0·4	...	0·2	...	...	...	...	...	...	...	...	1·0	...
23	0·4	0·2	1·3	0·6	1·6	8·5	...	...	...	0·8	0·1	...	...	...	...	...	0·2	..	0·1	...	0·2	...	...	...	...	...	...	...	0·1	...	...
24	6·5	...	0·8	...	4·8	1·5	.	...	...	0·5	...	0·1	...	...	...	...	...	...	...	0·2	0·4	...	...	...	...	...	...	...	...	0·3	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for MARCH, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	6.30	...
	St. Antoine	50	15·73	399.5	7.78	11
	Bel Mont	50	19.17	486.9	8.44	12
	Poudre d'Or	20	24.63	625.6	7.69	12
	Mon Loisir (S.E.) ...	300	19.83	503.7	8.39	12
	Forbach	300	13.60	345.4	6.63	14
	Couroupa	...	11.35	288.2	7.32	13
	* Labourdonnais	290	...	...	9.58	...
	Mapou Water Office ...	...	12.01	305.1	...	12
	Beau Séjour	300	14.66	372.4	11.43	17
	Mont Piton	650	16.41	416.8	10.47	18
	Mon Choix	700	14.07	357.4	9.64	15
	Antoinette	640	17.51	444.8	11.48	19
	Mon Songe	620	15.79	401.1	12.66	18
	Botanical Gardens ...	325	16.12	409.4	9.88	21
	* The Observatory ...	179	9.14	232.2	8.59	19
	Solitude	175	...	...	6.96	...
	St. André (Cour) ...	90	10.52	267.2	7.71	13
	La Nicolière	...	17.19	436.6	15.92	21
	California	...	22.53	572.3	...	17
	Australia	...	19.96	507.0	...	16
2 & 3	Union Régnard (Flacq S.E.) ...	600	25.40	645·2	11.97	17
	Constance d'Arifat (L.S.) ...	100	23.10	586·7	11.28	24
	Rich Fund	600	24.51	622.6	13.29	27
	La Joffrette	...	29.85	758.2	...	18
	Belle Vue (Allendy) ...	...	22.94	582.7	10.89	19
4	Sans Souci	900	32.71	830.8	19.68	26
	Beau Champ (G.R.S.E.) ...	20	21.37	542.8	9.20	22
	Olivia	400	28.60	726.4	12.81	22
	Trois Ilots	...	28.38	720.9	..	22
	Belle Rive	400	26.27	667.3	11.68	25
	Sébastopol	700	27.38	695.5	...	18
	Bonne Veine	400	42.72	1085.1	17.53	21
5	Rose Belle	850	21.67	550.4	16.62	22
	New Grove	650	18.38	466.9	21·41	18
	Mon Trésor	...	22.52	572.0	...	20
	Mon Désert (Carié) ...	75	17.84	453.1	9.03	16
	Ferney	20	...	...	14.25	...
	Sauve Terre	...	16.68	423.7	...	16
6	Tivoli	1,300	22.19	563.6	18.54	27
	La Flora	1,050	23.19	589.0	17.16	27
	Riche Bois (Brit.) ...	650	13.27	337.1	14.93	21
	Britannia (Estate) ...	700	13.25	336.6	16.11	22
6	Savannah (Mill) ...	200	13.41	340.6	15.24	21
	St. Aubin	300	9.02	229·1	11.19	20
	St. Avold	900	19.27	489.5	16.90	22
	Colmar	400	14.10	358.1	13.96	16
	Union (S.E.)	...	11.76	298.7	9.43	17
	Fontenelle	320	13.10	332.7	10.79	19
	Choisy	200	10.49	266.4	9.31	14
	Beau Bois	...	12.88	327.2	...	18
	Bel Air	...	13.82	351.0	10.00	15
	St. Félix	...	14.97	380.0	...	11
7,8,9&10	Bel Ombre	40	...	...	9,65	...
	Beau Champ (3 du Cap) ...	70	...	...	11.35	...
	Frédérica	...	...	...	11.73	...
	Pierre Fonds	...	13.64	346.5	9.03	15
	St. Marie	...	...	...	...	...
	Hussonia	...	8.93	226.8	...	13
11	Curepipe Gardens ...	1,840	18.88	479.6	18.02	...
	Mare aux Vacoas (G.E.) ...	1,850	29.23	742.4	18.24	22
	Mare aux Vacoas (Arn) ...	1,830	29.77	756.2	20.79	22
	La Marie Filter Beds ...	1,700	25.83	655.3	16.35	18
	* Sophie	...	20.72	426.1	...	24
	Réunion	1,420	24.85	631.2	14.00	21
	* Aerological Station ...	1,393	17.52	445.1	12.15	22
	Phoenix	...	13.85	351.8	...	11
	Quatre Bornes ...	...	11.06	280.9	...	11
12	Quatre Bornes (Board) ...	1,090	13.00	330.2	...	12
	* Le Réduit (D of A) ...	1,000	16.63	422.4	10·00	29
	Alma	1,460	37.99	964.9	19,00	19
	Bagatelle	1,250	25.96	659.4	14·04	19
	Highlands	1,300	20.14	511.6	14.71	18
	Trianon	950	12.94	328.7	11·37	13
	Val Ory	1,100	16.67	423.4	11·39	16
	Bassin	.	13.83	351.3	8·81	14
	Hermitage	1,450	32.50	825.5	17·01	21
	Ebène	...	15.79	401.1	...	16
	Béga	...	13.04	331.2	...	13
	Mon Rêve	...	17.03	432.6	...	14
	Mon Pevril	...	16.53	419.9	...	16
	Minissy	1,150	19.60	497.8	12·24	15
	Plaisance	...	22.74	577.6	...	16
	La Ferme	350	11.90	304.3	12·25	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 MARCH 1937.

Day.	Time	Scud Dir.	Scud 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	Scud Dir.	Scud 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
		°		°		°		°		°		°			°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	45	23·7*	30	27·4*	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	95	18·7*	90	8·5*	...	...	...	...	...	...	...	...
9	9½	...	...	90	7·4	30	4·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	10¼	...	...	105	8·5	...	...	...	...	...	...	345	...	14¼	...	...	93	16·5*	...	...	90	5·0*	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	95	14·0*	90	13·7*	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	105	23·3*	75	10·8*	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	50	10·9*	60	7·6*	...	...	...	...	240	*	233	4·7*
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	11½	...	...	120	17·3	300	...	...	...	...	...	255	...	14¼	98	8·7*	120	14·7*	300	...	270	2·5*	...	...	270	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	345	8·2*	360	13·4*	...	...	...	...	...	...	210	*
24	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	303	8·7*	315	5·7*	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	195	2·9*	...	...	...	...	240	4·0*	240	2·9*
28	9¾	...	...	90	...	...	...	...	...	...	...	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	10¼	105	24·1	105	10·1	...	...	...	...	...	...	255	...	14½	...	...	120	8·7	...	...	...	...	...	...	270	...
...	12	...	...	105	28·4	...	...	...	...	...	...	315	...	14¼	113	18·3*	210	6·2*	...	...	...	...	300	4·2*	270	3·2*

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.

78/1/38—R.A.O. 250.

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NEW SERIES (MONTHLY) VOL. XXIII. PART 4. PRICE 0.75

ROYAL ALFRED OBSERVATORY, MAURITIUS.

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

APRIL, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

Published by Authority of His Excellency the Governor

PORT LOUIS

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1938

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF APRIL, 1937

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 1 γ	Daily Range† Vertical Force Unit 1 γ	HR×: 10000	ZR×: 10000
APRIL	′			′				
1	13°20.9	.22463	.29739	12·7	45	44	101	131
2	21·5	475	739	10·5	67	31	151	92
3	20·4	450	739	12·0	56	35	126	104
4	20.9	466	738	13·5	57	42	128	125
5	20.6	474	738	10.0	56	35	126	104
6	21·5	488	736	8·5	47	27	106	80
7	21.1	499	729	10·5	32	36	72	107
8	21·6	502	726	9·2	34	45	76	134
9	20·8	503	725	12·3	50	44	113	131
10	21·1	489	727	10·5	23	37	52	110
11	21·1	483	729	5·0	32	28	72	83
12	22·0	474	731	7·2	156	31	351	92
13	21·2	467	736	6·3	87	15	196	45
14	21·5	464	734	8·9	30	24	68	71
15	21·1	470	732	9·3	39	23	88	68
16	21·4	472	730	10·8	29	29	65	86
17	21·4	489	728	9·0	53	31	119	92
18	21·3	483	...	8·7	66	...	149	...
19	21·2	486	728	10·5	67	39	151	116
20	21·3	481	729	8·2	31	26	70	77
21	20·9	480	731	7·5	53	22	119	65
22	20·9	486	728	9·5	45	31	101	92
23	21·5	486	727	10·0	32	32	72	95
24	21·6	480	728	11·0	19	36	43	107
25	23·6	398	742	7·0	77	23	172	68
26	21·6	450	738	8·5	105	24	236	71
27	22·5	366	746	8·5	134	45	300	134
28	20·4	346	757	16·5	185	31	414	92
29	22·6	396	747	9·0	55	43	123	128
30	22·2	413	745	9·5	40	22	90	65
...	...	...	...	...	...	...	...	...
Mean	13°21·36	·22463	·29735	9·69	60·1	32·1	135·0	95·3

Description of the Principal Magnetic Disturbances.

Declination.—2d. and 3d. Very slightly disturbed at times.
13d. Negative wave of 4′ between 3h.50m. and 4h.20m.
25d. Partially disturbed—Rapid fluctuations of 4′ between 0h.& 6h. Very small pulsations in the trace between 9h.& 12h.& 20h.&22h.
25d. 23h. to 26d. 10h. Disturbed—small rapid pulsations in the trace throughout— One negative wave of 5′ at 26d. 3h.
26d. 23h. to 27d. 10h. Very disturbed—Large irregular fluctuations in range (10′) with small oscillations superposed at times.
27d. 23h. to 29d. 3h. Disturbed. Considerable increase in daily range. Small pulsations superposed on the fluctuating trace.

Horizontal Force.—2d. Moderately disturbed during second half. Large decrease between 14h. & 15h. (57γ). Sharp positive wave (20γ) at 23h.
3d. Slightly disturbed.
12d. Sudden commencement at 12h.50m. of a short & moderately disturbed period. Gradual but considerable decrease from 14h. to 21h.45m. (150γ).
13d. Gradual subsidence of the previous disturbance.
24d. Sudden commencement at 15h55m of four successive periods of considerable disturbance with short intervals of subsidence.
(i) from 24d. 16h. to 25d. 12h.—Very disturbed, with large wave of 50γ between 3h. and 4h. on 25d.
(ii) from 25d. 19h.30m. to 26d. 12h.—very disturbed period of very unusual character: rapid oscillations superposed throughout on the fluctuating trace, oscillations which at times reach 75γ in range.
(iii) from 26d. 21h.30m. to 27d. 12h.—irregularly fluctuating trace with small oscillations superposed. At 2h.20m. sudden commencement of a considerable decrease in value (160γ) ending at 27d. 3h 45m. with only partial recovery.
(iv) from 27d 23h. to 29d. 3h.—very disturbed period with irregular pulsations on a largely fluctuating trace. Sudden increase of 50γ at 28d. 19h. and 28d. 21h.30m.
A quiet trace follows to the end of the month.

Vertical Force—2d. and 3d.—Very slightly disturbed at times.
12d. Very faintly disturbed with sudden commencement at 12h50m.
24d. Sudden commencement at 15h. 55m, of four successive periods of considerable disturbance with short intervals of subsidence. These periods are the same as in Horizontal Force.
On 25d. 23h. 25m. large scillations of 39γ in range followed by more rapid osocillations in the trace.
28d. Considerable and sustained increase in V. F. from 7h.30m. The normal diurnal variation is inexistant.

T=·37266 : Mean Dip=52° 55·87′ : (X=·21855 : Y=—·05188 : Z=·29735).

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

TABLE II.—RESULTS of ABSOLUTE DETERMINATIONS of the MAGNETIC ELEMENTS during the MONTH of APRIL 1937.

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
9·14.33	13·15·2	3· 9·18	·22448	9.14.50	52.51.25	·29706
16·11·06	13·24·2	7· 9·28	·22509	16·10·55	52·54·20	·29721
20·14·38	13·18·3	10· 9·24	·22482	20·14·28	52·54·38	·29725
		14· 9·12	·22463			
		21·13·28	·22480			
		24. 9·11	·22466			
		28· 9·49	·22366			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

APRIL. 1937

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day \ Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	23·3	20·7	22·5	22·3	22·5	21·0	21·0	21·5	20·7	20·7	20·7	21·0	22·5	22·0	21·0	22·3	Midnight
1h	22·5	20·0	22·7	21·8	22·5	21·3	21·0	21·5	21·0	21·0	21·3	21·3	22·3	21·5	21·0	21·5	1h
2	23·5	20·0	22·5	20·3	22·3	21·5	21·0	21·7	21·5	21·5	21·5	21·5	22·0	21·7	21·0	21·5	2
3	20·0	21·0	21·5	20·7	22·0	21·7	21·0	21·5	21·7	21·7	21·8	21·5	22·0	21·7	21·5	21·3	3
4	20·5	23·0	20·7	21·0	21·3	21·5	20·7	21·7	21·5	21·5	22·3	21·7	20·0	21·7	21·0	21·0	4
5	21·3	25·7	20·5	20·7	21·0	21·7	21·0	21·7	21·5	21·7	22·0	22·0	19·0	21·7	21·3	20·7	5
6	22·0	26·3	19·0	20·0	20·7	21·5	21·5	21·7	21·0	21·7	19·7	22·0	21·0	22·0	21·5	20·7	6
7	24·0	26·5	19·0	21·5	21·5	21·5	22·3	22·5	22·0	22·5	19·5	22·5	22·0	23·0	22·5	22·7	7
8	25·0	26·5	21·5	24·5	24·3	23·0	24·5	25·3	24·5	24·7	21·0	24·0	23·0	25·0	25·0	25·0	8
9	26·7	26·3	23·7	27·5	25·0	25·5	26·7	27·7	27·3	27·0	23·7	26·0	24·3	26·7	26·3	27·3	9
10	26·0	26·0	25·5	28·5	24·0	27·0	27·0	26·5	27·0	26·3	24·0	26·5	24·5	26·0	25·0	27·0	10
11	23·0	24·0	24·0	26·0	22·0	26·3	25·0	24·0	24·0	23·0	23·0	24·0	22·0	23·0	22·0	25·0	11
Noon	20·0	20·0	20·0	22·0	19·0	23·0	21·0	21·0	19·0	19·5	21·0	21·0	19·5	19·5	18·5	20·0	Noon
13h	17·5	18·7	15·5	16·5	18·0	20·5	18·0	19·0	15·0	16·7	20·0	19·7	18·7	17·8	17·0	18·0	13h
14	15·0	16·0	13·5	15·0	15·0	19·7	16·5	18·5	15·5	16·5	19·5	19·5	18·3	18·0	17·0	17·0	14
15	14·0	16·0	15·0	15·0	15·5	19·0	17·3	19·0	16·5	17·5	19·0	19·3	18·2	18·5	17·3	16·5	15
16	15·5	17·5	16·0	16·0	16·7	18·5	18·3	19·0	18·0	19·0	19·3	19·5	19·0	18·7	18·0	17·0	16
17	18·0	19·0	19·0	18·3	19·0	19·7	19·5	20·0	19·7	19·8	20·0	20·7	20·7	20·0	19·7	20·0	17
18	19·7	20·0	20·5	20·0	20·0	20·0	20·0	20·0	20·0	20·3	20·7	21·0	21·3	21·0	20·7	20·7	18
19	21·0	20·0	20·3	20·5	20·0	20·5	20·0	20·3	20·3	20·3	20·5	21·0	21·5	21·7	21·5	21·0	19
20	21·5	20·5	21·0	20·3	20·3	20·3	20·5	20·7	20·3	20·5	20·7	22·5	21·5	21·7	21·5	21·7	20
21	21·3	20·3	21·7	20·7	20·5	20·5	20·7	20·7	20·7	20·7	21·0	23·5	21·7	21·7	21·5	22·0	21
22	20·7	21·7	22·0	21·5	20·7	20·7	21·2	21·0	20·5	20·7	21·5	23·0	22·0	21·0	23·0	22·0	22
23	21·5	20·0	22·0	22·0	20·7	20·7	21·5	21·0	20·5	20·7	21·3	23·0	21·3	21·0	22·0	22·0	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day \ Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	21·5	21·0	21·7	21·5	22·0	22·0	21·3	21·0	21·7	23·0	23·5	22·0	23·5	22·5	...	21·8	Midnight
1h	21·0	21·5	21·5	22·0	22·0	21·8	21·5	21·5	24·3	22·0	22·0	20·0	22·5	21·0	...	21·6	1h
2	20·7	21·7	21·3	22·0	22·0	22·0	21·7	21·3	20·0	21·0	18·5	18·0	20·0	21·0	...	21·2	2
3	20·7	21·5	21·0	22·5	22·0	21·5	21·0	21·5	21·5	20·0	25·0	22·0	20·0	20·7	...	21·4	3
4	21·0	21·3	20·0	22·3	21·7	21·5	21·7	21·7	19·7	22·0	22·3	20·0	21·7	20·0	...	21·3	4
5	21·3	21·8	20·7	22·0	21·7	21·0	21·7	21·5	20·5	21·0	22·0	19·0	22·5	20·0	...	21·3	5
6	21·5	21·7	21·0	22·0	20.0	21·0	21·5	21·5	23·0	21·0	21·0	18·0	23·0	20·0	...	21·3	6
7	22·0	20·3	22·0	22·5	19·0	20·5	21·0	20·5	23·6	22·0	18·0	15·0	24·0	20·0	...	21·5	7
8	24·7	23·0	25·0	22·7	20·3	22·0	23·5	25·0	24·5	23·5	21·0	10·0	25·7	20·7	...	23·3	8
9	27·0	26·0	27·0	25·5	21·0	25·0	26·5	28·5	27·0	26·7	25·0	15·0	27·5	27·0	...	25·8	9
10	26·5	26·7	27·5	25·7	25·0	26·0	27·0	28·5	26·5	27·0	26·5	21·0	27·5	28·5	...	26·2	10
11	24·0	24·0	23.0	24·0	24·0	24·0	25·0	25·0	26·7	24·5	26·3	20·0	26·0	27·0	...	24·1	11
Noon	19·7	20·0	20·0	20·0	21·0	20·5	22·5	20·5	25·0	21·5	26·0	20·5	25·0	24·0	...	21·0	Noon
13h	18·0	18·5	18·5	20·0	19·0	18·0	21·0	19·0	23·0	20·0	24·7	21·5	23·0	21·0	...	19·1	13h
14	18·0	18·5	18·1	19·0	19·3	16·5	19·0	18·0	20·5	19·0	23·0	18·5	20·0	20·3	...	17·9	14
15	19·0	18·0	17·0	17·5	18·0	16·5	17·0	17·7	19·7	18·5	20·5	17·0	18·5	19·0	...	17·6	15
16	19·0	18·7	18·0	17·5	17·5	17·0	17·5	17·5	20·0	18·5	20·7	19·0	19·3	21·0	...	18·2	16
17	20·0	20·0	19·0	18·5	19·7	19·0	19·7	19·0	21·0	20·0	21·5	21.5	20·0	22·5	...	19·8	17
18	20·7	20·5	20·0	20·0	20·3	20·5	20·3	20·5	21·7	21·0	21·5	23·5	21·7	23·0	...	20.7	18
19	21·0	20·7	20·5	20·3	20·3	20·5	20·7	21·0	22·0	21·5	22·0	26·0	22·0	23·3	...	21·1	19
20	21·3	20·7	21·0	21·0	21·0	20·7	21·5	20·7	22·5	21·8	22·5	26·5	22·5	23·0	...	21·4	20
21	21·7	21·5	21·0	21·0	21·0	21·5	21·0	22·0	23·0	21·7	22·5	26·0	24·0	23·0	...	21·7	21
22	21·5	22·0	21·5	21·0	21·5	21·0	20·7	22·0	22·7	21·7	22·0	25·0	22·3	22·5	...	21·7	22
23	21·7	21·7	21·5	21·3	21·7	21·3	21.0	22·0	22·0	20·0	23·0	24·0	21·0	22·5	...	21·5	23

TABLE IV.—MAGNETIC HORIZONTAL FORCE at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

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

APRIL 1937.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	400	467	430	443	447	475	489	495	497	489	485	478	413	450	450	460	Midnight
1h	495	475	447	458	445	477	490	495	500	489	489	480	450	455	451	467	1h
2	490	475	447	473	452	479	492	497	500	490	485	480	451	465	459	470	2
3	463	477	450	475	460	481	493	503	500	490	486	585	453	463	463	479	3
4	453	471	472	467	463	480	495	505	501	490	482	488	460	466	470	480	4
5	457	468	470	465	464	483	497	505	502	489	480	489	477	468	473	483	5
6	450	471	479	470	469	485	500	510	502	489	489	489	465	469	475	485	6
7	450	473	470	467	473	487	501	508	500	489	487	487	475	467	479	483	7
8	453	475	465	461	479	485	502	500	499	483	476	486	481	465	480	482	8
9	455	477	463	465	490	495	507	500	505	483	481	491	483	465	482	480	9
10	459	479	460	477	497	502	503	500	515	489	477	497	492	467	485	478	10
11	468	497	460	475	497	510	503	515	527	500	485	510	487	473	485	479	11
Noon	487	517	460	500	501	518	515	525	539	506	500	522	500	479	488	482	Noon
13h	480	505	455	490	500	513	520	527	530	500	503	543	500	480	489	475	13h
14	469	507	438	481	483	500	510	515	520	490	500	530	490	473	479	467	14
15	462	460	427	473	473	483	508	498	505	480	485	530	470	460	467	460	15
16	455	456	429	467	470	471	507	496	499	480	476	518	459	456	463	460	16
17	455	467	423	455	470	473	500	495	495	485	473	480	460	459	465	469	17
18	457	472	430	450	470	477	495	495	495	485	477	440	461	460	467	469	18
19	460	473	440	457	470	489	490	494	493	489	479	415	460	461	463	467	19
20	459	475	437	453	472	488	488	494	492	489	479	395	456	461	460	467	20
21	469	472	440	452	474	489	495	495	490	488	477	387	450	460	459	459	21
22	473	455	445	450	471	487	490	493	490	484	471	391	450	458	453	456	22
23	467	450	447	447	472	487	490	497	489	485	477	399	448	452	458	460	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. / Hour.
	·22000 + (C.G.S. UNIT)																
Midnight	467	480	463	485	479	470	480	480	440	385	435	407	365	413	...	453·9	Midnight
1h	471	472	467	489	480	471	481	479	415	410	430	425	370	430	...	461·8	1h
2	473	476	470	477	480	475	482	478	430	430	452	420	375	425	...	464·9	2
3	478	477	470	475	482	477	490	479	390	460	395	415	400	423	...	464·4	3
4	480	480	480	480	485	479	501	480	485	417	318	407	389	425	...	461·6	4
5	485	479	479	480	480	481	488	482	403	412	325	415	390	425	...	463·1	5
6	485	478	478	483	489	482	490	487	365	430	327	385	393	420	...	463·0	6
7	486	482	485	485	500	487	490	487	363	437	345	380	390	417	...	464·6	7
8	489	499	490	495	500	490	489	480	370	438	371	390	400	413	...	466·4	8
9	489	509	505	494	505	497	483	477	380	457	358	357	403	415	...	468·4	9
10	491	500	509	498	510	498	483	471	389	450	355	363	404	420	...	470·6	10
11	503	510	530	500	495	505	495	483	405	450	347	325	407	429	...	475·2	11
Noon	517	523	523	501	495	509	507	486	408	453	340	305	410	430	...	481·5	Noon
13h	520	517	515	483	480	515	500	481	412	452	340	290	395	420	...	477·7	13h
14	520	510	496	482	477	507	495	475	411	448	340	310	397	410	...	471·0	14
15	505	500	480	473	471	490	480	467	405	435	341	260	395	400	...	458·1	15
16	492	472	475	470	458	483	479	489	397	477	346	240	381	391	...	453·7	16
17	487	470	477	470	457	473	480	487	393	475	355	273	381	390	...	453·1	17
18	484	467	470	472	464	473	480	480	391	479	369	300	390	405	...	454·1	18
19	485	461	470	470	461	477	478	490	397	483	373	280	400	403	...	454·3	19
20	488	460	476	472	467	477	475	490	415	484	375	315	405	402	...	455·5	20
21	479	457	475	470	470	480	477	475	400	490	377	325	405	400	...	454·5	21
22	478	457	477	471	469	480	476	475	411	465	380	375	412	400	...	454·8	22
23	479	461	477	475	470	482	480	473	410	455	400	365	420	417	...	456·3	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 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	752	743	750	745	745	740	735	733	731	730	731	732	743	740	739	737	Midnight
1h	755	742	749	743	744	740	736	733	731	730	731	731	740	739	738	735	1h
2	751	741	746	741	743	740	736	733	731	730	730	730	737	736	736	733	2
3	745	741	745	741	741	740	735	732	731	730	731	730	736	735	736	732	3
4	744	741	740	741	741	740	736	733	731	731	731	730	735	734	734	731	4
5	746	740	741	741	741	740	736	734	731	731	732	730	733	734	734	731	5
6	746	740	740	741	741	740	737	734	732	732	731	731	736	735	733	731	6
7	749	742	740	746	743	740	739	737	736	736	732	732	737	739	735	733	7
8	751	751	747	752	751	747	743	741	741	741	740	737	740	743	741	739	8
9	751	752	751	751	751	749	741	740	739	741	741	740	741	745	737	741	9
10	747	748	747	747	743	747	733	729	725	733	739	737	739	740	728	739	10
11	736	739	735	733	735	740	719	714	710	719	728	725	734	731	721	729	11
Noon	720	729	724	716	724	731	708	700	698	708	719	716	729	723	718	717	Noon
13h	711	724	716	710	716	722	707	696	697	704	715	718	726	721	719	712	13h
14	712	721	718	715	721	723	708	700	701	708	714	715	729	723	723	713	14
15	715	728	723	722	727	725	715	709	710	713	713	717	727	727	727	716	15
16	722	735	731	729	733	729	719	716	719	720	719	720	733	729	729	723	16
17	731	739	740	737	738	731	721	721	725	725	724	730	736	732	730	729	17
18	738	740	742	741	740	734	726	726	729	729	730	731	737	735	731	721	18
19	739	740	741	740	739	734	729	729	730	729	731	737	737	735	733	731	19
20	741	740	743	740	739	735	730	731	731	731	733	743	738	736	735	733	20
21	741	741	745	741	740	735	731	731	732	731	734	746	739	737	736	735	21
22	742	744	746	744	740	736	733	731	732	731	735	747	740	737	739	737	22
23	743	742	747	746	740	735	732	731	731	731	734	744	740	738	738	738	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	737	...	733	731	731	733	731	730	732	747	740	747	759	751	...	738·9	Midnight
1h	736	...	733	731	731	732	730	730	739	743	739	746	758	745	...	738·3	1h
2	734	...	733	733	731	732	730	730	733	740	738	743	759	746	...	737·1	2
3	733	...	732	734	731	732	730	731	740	738	745	748	753	745	...	737·0	3
4	733	...	731	733	732	733	731	731	744	743	751	745	753	745	...	737·2	4
5	732	...	732	732	732	733	731	732	741	746	757	743	753	745	...	737·4	5
6	732	...	733	732	731	732	731	732	749	744	750	744	754	745	...	737·5	6
7	733	...	734	734	730	733	732	735	751	745	751	741	759	748	...	739·4	7
8	738	...	740	737	738	738	740	743	751	750	757	745	762	752	...	744·7	8
9	739	...	739	739	741	740	741	746	753	749	767	760	761	752	...	746·2	9
10	737	731	734	737	741	735	737	741	750	739	760	765	755	749	...	741·4	10
11	727	720	719	724	730	719	720	726	740	730	749	763	743	733	...	730·0	11
Noon	715	713	701	713	723	710	709	719	730	724	746	762	730	730	...	720·4	Noon
13h	709	718	703	714	722	709	709	718	735	729	737	760	721	731	...	717·6	13h
14	708	724	710	718	722	711	709	713	735	727	727	751	719	733	...	718·2	14
15	711	727	719	721	720	712	710	717	735	726	722	757	720	739	...	721·5	15
16	715	730	725	725	724	720	716	722	741	729	730	771	730	746	...	727·6	16
17	723	732	730	729	733	729	723	726	743	735	739	770	740	750	...	733·1	17
18	728	731	731	730	733	731	729	710	746	739	742	769	747	749	...	735·0	18
19	729	733	731	731	732	731	730	710	746	739	746	772	748	749	...	736·1	19
20	730	734	732	731	734	732	731	729	747	741	750	770	749	751	...	738·1	20
21	730	736	731	732	734	731	731	735	741	741	751	769	751	751	...	738·7	21
22	731	736	732	732	734	731	731	731	745	740	751	761	749	752	...	739·1	22
23	733	736	733	731	734	731	731	731	740	735	753	761	749	751	...	738·7	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 1937.

Month and day 1937.	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—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.
APRIL	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	964·6	23·9	2·4	19·7	77	22·7	90	5·4	7	20·0	23·7	25·4	20·9	26·2	20·0	6·2	0·0	0	6·9	58
2	966·6	25·5	4·0	18·7	66	21·4	100	4·0	7	20·1	24·3	26·3	20·2	27·6	20·1	7·5	0·0	0	10·7	90
3	967·8	24·6	3·8	18·1	67	20·6	95	5·4	0	20·0	23·8	26·8	22·0	27·3	20·0	7·3	0·0	0	10·7	91
4	968·0	24·9	3·4	19·1	70	21·9	110	4·9	1	21·0	24·0	26·1	21·2	26·7	20·8	5·9	0·0	0	10·6	90
5	967·6	25·4	4·3	18·1	64	20·6	90	3·6	2	20·9	23·8	26·4	22·0	27·6	20·9	6·7	0·0	0	9·9	84
6	967·2	23·7	1·4	21·3	87	25·1	70	4·0	9	20·8	23·0	25·0	20·7	26·6	20·8	5·8	2·6	60	6·2	54
7	966·4	26·4	3·9	19·8	67	22·9	70	2·2	3	20·1	25·1	26·0	22·0	28·9	20·1	8·8	0·0	0	7·0	60
8	966·5	26·9	5·4	17·8	57	20·2	80	0·5	2	20·9	24·9	26·5	22·3	29·8	20·9	8·9	0·0	0	8·0	68
9	965·4	27·1	3·8	20·7	68	24·2	Calm		7	20·9	27·5	26·2	22·2	29·9	20·0	9·9	0·0	0	5·9	50
10	966·2	24·4	2·3	20·4	78	23·7	95	7·2	3	21·8	21·7	21·5	19·1	25·2	19·1	6·1	11·5	149	5·7	49
11	966·7	24·1	2·4	20·0	78	23·2	95	6·7	6	19·0	21·8	23·2	20·0	25·4	19·0	6·4	5·5	82	3·6	31
12	966·4	24·4	2·9	19·4	73	22·3	90	3·6	3	20·1	23·0	26·3	21·0	27·6	20·0	7·6	7·9	30	7·8	67
13	965·0	22·9	1·0	21·2	90	24·9	90	4·9	8	20·4	23·0	23·4	20·9	25·6	20·4	5·2	12·0	129	3·1	27
14	964·5	23·9	1·5	21·3	85	25·1	90	7·2	7	20·7	24·0	26·8	21·9	27·5	20·7	6·8	0·0	0	7·0	60
15	964·6	25·9	2·6	21·5	77	25·4	Calm		8	19·8	23·0	26·5	21·6	29·1	18·6	10·5	0·5	7	7·9	68
16	965·4	25·8	3·9	19·2	67	22·0	85	3·1	4	20·3	24·0	26·0	21·0	27·5	20·0	7·5	0·5	7	10·9	94
17	966·8	23·5	2·9	18·5	73	21·1	135	5·4	5	20·2	22·2	24·0	19·6	25·6	19·8	5·8	0·1	1	9·9	85
18	966·3	23·6	2·2	19·8	79	22·9	130	7·2	6	19·5	23·0	20·4	18·9	24·3	18·9	5·4	4·9	73	6·4	56
19	966·6	23·2	4·5	15·4	62	17·3	110	7·6	3	18·7	21·7	22·2	18·0	24·4	17·0	7·4	0·3	3	9·9	86
20	967·2	20·6	0·5	19·7	85	22·7	105	7·6	10	17·3	18·9	20·8	19·7	21·1	16·8	4·3	11·5	98	4·7	41
21	967·9	23·4	3·8	16·8	66	18·9	90	8·1	8	19·9	22·3	22·6	19·6	24·3	19·6	4·7	1·4	15	5·9	51
22	967·5	24·4	3·8	17·9	67	20·3	70	3·1	4	18·5	24·0	24·0	19·8	25·6	18·5	7·1	0·0	0	9·4	82
23	966·0	24·7	4·0	17·8	66	20·2	90	3·1	2	19·0	24·3	25·0	21·0	26·6	18·9	7·7	0·0	0	8·0	70
24	964·6	24·4	2·9	19·4	74	22·3	95	4·0	1	20·6	23·0	24·0	21·3	27·0	20·2	6·8	0·6	3	6·7	58
25	962·5	22·5	1·1	20·6	89	24·0	70	6·7	9	20·7	22·0	27·9	21·6	27·9	20·4	7·5	22·1	57	2·1	18
26	961·1	25·3	3·6	19·2	69	22·0	Calm		1	20·8	23·6	25·0	20·0	27·9	19·6	8·3	0·0	0	9·0	79
27	964·6	24·2	4·3	16·8	63	18·9	Calm		6	18·0	23·5	24·9	21·2	26·6	17·9	8·7	0·0	0	5·9	52
28	966·7	22·5	2·5	19·9	85	23·0	Calm		10	19·3	21·2	21·8	19·4	22·5	19·2	3·3	1·0	14	0·4	4
29	966·9	21·6	2·5	18·9	85	21·6	100	7·2	10	18·9	20·0	19·9	20·0	21·6	18·9	2·7	1·0	44	0·1	1
30	968·0	21·4	1·0	19·6	90	22·6	110	4·9	10	18·8	19·0	20·0	19·0	21·6	18·0	3·6	11·8	195	0·0	0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	966·0	24·2	2·9	19·2	74·1	22·0	...	4·2	5·4	19·9	23·0	24·4	20·6	26·2	19·5	6·7	95·2	967	6·68	57·5
Average	966·6	23·3	2·0	20·0	81·7	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	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	+	41·4mbs.	Amount of rain	—	28·5mms.
Temperature of the Air	+	2·5°C.	Duration of sunshine	+	28·2hrs.
Vapour Pressure	+	1·9mbs.	Mean of maximum temperatures	+	1·9°C
Relative Humidity	—	5·2%	,, minimum temperatures	+	1·8°C
Velocity of Wind	—	0·3mps	Absolute maximum temperature	+	0·2°C
Amount of Cloud	+	0·8	,, minimum temperature	+	1·3°C

Greatest Rainfall intensity at Vacoas. 20 mms. in 37 minutes.

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of APRIL 1937.

Month and Day 1937.	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 (Saturation=100). Mean	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration	Amount of Evaporation.	Mean Amount of Cloud (Scale 0—10)
APRIL	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C			mbs.	°C	mms.	min	mms.	
1	1004·8	− 1·6	28·3	22·3	6·0	24·9	− 0·3	2·7	20·3	− 1·2	76	− 4	23·6	21·8	0·0	...	5·7	7·1
2	1007·5	+ 1·0	29·1	21·1	8·0	24·6	− 0·6	2·8	19·8	− 1·7	75	− 5	22·9	21·1	0·0	...	4·6	4·9
3	1009·0	+ 2·5	29·2	20·7	8·5	24·8	− 0·3	2·7	20·2	− 1·2	75	− 5	23·4	20·7	0·0	...	5·0	3·4
4	1008·6	+ 2·0	28·9	23·3	5·6	25·3	+ 0·2	2·9	20·4	− 1·0	74	− 6	23·7	22·9	0·0	...	4·5	7·1
5	1008·1	+ 1·4	29·0	22·6	6·4	25·2	+ 0·2	2·6	20·8	− 0·5	77	− 3	24·3	21·2	0·9	20	6·3	5·4
6	1007·6	+ 0·8	29·0	22·6	6·4	25·0	− 0·0	2·5	20·7	− 0·6	77	− 3	24·2	21·0	0·0	...	6·1	3·3
7	1007·1	+ 0·2	29·2	22·1	7·1	25·4	+ 0·5	2·4	21·3	+ 0·2	78	− 2	25·1	21·0	0·0	...	5·8	3·3
8	1006·2	− 0·8	30·1	22·1	8·0	25·7	+ 0·8	2·5	21·4	+ 0·3	77	− 3	25·2	20·0	0·0	...	5·5	2·5
9	1005·7	− 1·3	29·9	21·2	8·7	25·4	+ 0·6	1·9	22·2	+ 1·2	82	+ 2	26·5	19·2	0·0	...	5·2	3·3
10	1006·8	− 0·3	28·4	22·9	5·5	24·9	+ 0·1	2·4	20·8	− 0·2	78	− 2	24·3	20·4	0·0	...	4·6	4·1
11	1007·6	+ 0·4	28·0	22·7	5·3	24·4	− 0·3	2·3	20·4	− 0·5	78	− 2	23·7	21·7	1·1	115	6·0	7·2
12	1006·5	− 0·7	29·0	22·8	6·2	25·1	+ 0·4	2·3	21·2	+ 0·3	79	− 1	24·9	22·0	1·6	55	4·3	7·5
13	1005·0	− 2·3	27·9	22·2	5·7	24·4	− 0·0	1·6	21·7	+ 0·9	85	+ 5	25·7	21·4	15·0	180	4·4	6·5
14	1004·7	− 2·6	28·2	22·2	6·0	25·0	+ 0·5	1·8	21·9	+ 1·2	83	+ 4	26·0	20·2	0·0	...	2·7	4·2
15	1005·3	− 2·1	29·9	21·7	8·2	25·3	+ 0·8	1·7	22·4	+ 1·7	84	+ 5	26·8	19·6	3·6	20	4·6	4·2
16	1006·6	− 0·9	29·7	21·6	8·1	24·8	+ 0·4	2·4	20·7	+ 0·1	78	− 1	24·2	18·0	0·0	...	5·8	3·5
17	1008·0	+ 0·4	28·2	20·0	8·2	23·8	− 0·5	3·1	18·4	− 2·1	72	− 7	21·0	18·0	0·0	...	5·1	2·4
18	1007·0	− 0·6	27·0	19·0	8·0	22·9	− 1·4	2·1	19·2	− 1·3	80	+ 1	22·0	16·2	0·5	10	5·9	4·9
19	1007·2	− 0·5	27·2	19·8	7·4	23·0	− 1·2	3·7	16·6	− 3·8	67	− 12	18·7	17·2	0·2	5	5·2	3·6
20	1008·4	+ 0·6	24·5	18·1	6·4	22·2	− 2·0	2·1	18·5	− 1·9	80	+ 1	21·1	14·3	7·9	180	4·8	5·3
21	1009·0	+ 1·2	26·9	20·2	6·7	24·1	0·0	3·6	17·9	− 2·4	68	− 11	20·3	20·2	0·1	10	4·8	7·7
22	1007·4	− 0·5	27·6	19·9	7·7	23·4	− 0·7	2·8	18·5	− 1·8	74	− 5	21·1	17·1	0·0	..	4·9	4·1
23	1005·9	− 2·1	28·1	20·1	8·0	23·8	− 0·2	2·4	19·6	− 0·6	77	− 2	22·6	18·0	0·0	...	5·2	3·0
24	1004·2	− 3·9	28·0	21·8	6·2	24·4	+ 0·4	2·3	20·4	+ 0·2	78	− 1	23·7	20·4	0·0	...	4·2	4·8
25	1001·5	− 6·6	28·2	22·0	6·2	24·4	+ 0·5	1·8	21·3	+ 1·2	83	+ 4	25·1	21·0	19·0	90	3·3	9·1
26	1001·7	− 6·5	28·3	20·7	7·6	24·2	+ 0·4	1·8	21·1	+ 1·1	83	+ 4	24·8	19·8	0·0	...	4·2	4·5
27	1005·2	− 3·1	29·0	19·7	9·3	23·5	− 0·3	2·2	19·7	− 0·3	79	0	22·7	17·0	0·0	...	4·5	7·5
28	1007·1	− 1·3	26·2	20·3	5·9	22·9	− 0·8	2·1	19·2	− 0·7	80	+ 1	22·0	18·9	0·0	...	2·8	9·3
29	1008·1	− 0·4	24·3	21·7	2·6	23·0	− 0·6	2·5	18·7	− 1·1	77	− 2	21·4	20·8	0·3	10	2·0	9·6
30	1008·2	− 0·4	25·1	21·1	4·0	22·6	− 0·9	1·7	19·6	− 0·1	83	+ 4	22·6	20·0	16·5	270	1·5	9·8
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	1006·5	− 1·0	28·1	21·3	6·8	24·3	− 0·1	2·4	20·2	+ 0·4	77·9	− 1·5	23·4	19·7	Sum 66·7	Sum 965	4·6	5·4
Aver.	1007·5	...	27·6	21·1	6·5	24·4	...	2·2	20·6	...	79·4	...	24·1	18·3	126·4	1522	4·4	5·3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

GENERAL WEATHER CONDITIONS DURING THE MONTH OF APRIL 1937.

There was no cyclonic activity during the month. Pressure fell very conspicuously below normal between the 12th and the 15th, and again between the 23rd and 27th ; on these two occasions the island was under the influence of extra-tropical depressions moving Eastwards to the South. Pressure was well above normal between the 2nd and the 7th.

Temperature was variable during the month ; it was very markedly below normal between the 18th and the 20th.

Humidity was generally below normal and in this respect the month was conspicuously a dry month ; Rainfall was only 53% of the normal, the whole of which fell practically on 4 days.

Wind velocity was considerably below the average.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of APRIL 1937

Month and Day 1937.	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
APRIL	hrs.	%	mp.s.	mp.s.	°C.	°C.	°C.	°C.									
1	8·6	72	3·2	0·0	25·4	27·0	28·2	27·9				c				: bc :	b .
2	8·7	73	2·1	— 1·1	25·4	27·0	28·2	27·9		c	:		bc			: b	.
3	10·2	86	2·9	— 0·3	25·5	27·1	28·2	27·6			b		: bc	:	c :	bc :	b .
4	9·8	83	3·2	0·0	25·6	27·1	28·2	27·8				bc		:		b :	bc .
5	11·0	93	2·5	— 0·7	25·6	27·0	28·2	27.6	o :	cr_0 :			bc	:		b	.
6	9·4	80	3·1	— 0·1	25·7	27·0	28·2	27·8		b	:		bc			: b	.
7	10·8	92	2·1	— 1·1	25·5	27·0	28·1	27·8			b	:	bc	.		b	.
8	9·4	80	1·5	— 1·8	25·6	27·0	28·1	27·8			b	:		bc		: b	.
9	7·4	63	1·3	— 2·0	25·6	27·0	28·1	28·2			b	:	bc	:	c :	bc :	b .
10	7·7	66	4·4	+ 1·1	25·6	27·0	28·1	28·3			b	:	bc	: bcq_0 :		bc	.
11	4·3	37	4·2	+ 0·9	25·6	27·0	28·1	28·1		b	:	bc .	cq_0 :	oq_0 :		or_0 :	c .
12	8·2	70	3·0	— 0·3	25·6	27·0	28·0	27·8	c :	or_0 :			bc :		c :	cr_0	bc .
13	7·4	64	3·1	— 0·2	25·6	27·0	27·9	27·8	or_0 :	bcr_0 :	cr_0 :		c :		bc	:	b .
14	8·8	76	2·4	— 0·9	25·7	27·0	27·8	27·8		b	:	bc :	eq :			bc	.
15	10·5	91	1·6	— 1·7	25·8	27·0	27·7	27·8		b	:		bc			: cr :	b .
16	9·6	83	1·7	— 1·6	25·6	27·0	27·7	27·7		b	:		bc	:		b	.
17	11·0	95	2·5	— 0·8	25·6	27·0	27·6	27·8			b	:	bc :			b	.
18	6·9	60	2·9	— 0·4	25·7	26·9	27·5	27·5	b_0 :	b :	bcr_0 :			bc		: c :	bc .
19	10·0	87	3·5	+ 0·2	25·7	27·0	27·5	27·1		b	:	br_0 :		bc		:	b .
20	6·4	56	4·1	+ 0·8	25·6	27·0	27·3	27·2		b	:	bcr_0 :		oqr_0r_0	: c	:	bc .
21	6·7	58	4·7	+ 1·4	25·7	27·0	27·1	26·5		bc	:	c	:	oq_0		: cr_0 :	c .
22	8·2	71	2·6	— 0·7	25·6	27·0	27.0	26·4		bc		:	c :	bc		: b	.
23	9·3	81	2·3	— 1·0	25·7	27·0	26·8	26·3			b	:	bc	:		b	.
24	7·9	69	2·7	— 0·6	25·7	26·9	26·8	26·4	b :			bc		:		c :	bc .
25	2·7	24	3·0	— 1·3	25·7	27·0	26·7	26·4		c	:	o	: c	:		orr :	o .
26	10·4	91	1·9	— 1·4	25·7	26·9	26·7	26·6	c :	bc :			b	:		bc	.
27	6·8	60	1.5	— 1·8	25·6	26·9	26·7	26·8	c :			bc	:	cg :		o	.
28	0·4	4	1.8	— 1·5	25·6	26·8	26·8	26·8			o	:	c :	og :		o :	c .
29	0·0	0	3·5	+ 0·2	25·6	26·8	26·8	26·4			c	:		or_0r_0		: o	.
30	0·0	0	3·8	+ 0·5	25·6	26·8	26·7	25·8		orr	:	or_0 :		og	: or_0 :	o	.
...	...	...	...	...	...	...	...	...					.....				
Mean	7·62	65·5	2·74	—0.54	25·62	26·97	27·56	27·32					.....				
Average	7·55	55·0	3·28	...	25·57	26·90	27·07	26.91					.....				
Column	19	20	21	22	23	24	25	26					.....				

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF APRIL 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1010·1mbs.	at 22 & 23hrs.	on 3rd	999·1mbs.	at 04·00hrs.	on 26th
Temperature of the Air	30·1°C	at 15·05hrs.	on 8th	18·1°C	at 04·35hrs.	on 20th
Daily range of temperature of the Air ...	9·3°C	...	on 27th	2·6°C	...	on 29th
Temperature of the Dew Point	24·7°C	at 09·00hrs.	on 15th	14·3°C	at 01·00hrs.	on 20th
Daily range of temperature of the Dew Point	7·1°C	...	on 20th	1·7°C	...	on 1st
Minimum on Grass	...	...	...	14·3°C	...	on 20th
Relative humidity	97·0%	at 08·00hrs.	on 18th	47·0%	at 11·00hrs	on 19th
Vapour Pressure	30.8mbs.	at 09·00hrs.	on 15th	16·2mbs.	at 01·00hr.	on 20th
Evaporation in 24 hours	6·3mms.	...	on 5th	1·5mms.	...	on 30th
Wind Velocity	8·0m.p.s	at 16·00hrs.	on 20th	0.6m.p.s.	...	often
Rainfall in 24 hours	19·0mms.	ending 20hrs.	on 25th	...	...	...
Duration of sunshine	11·0hrs.	...	on 5th & 17th	0·0hr.	...	on 29th & 30th

Mean Day Temperature of Air, 25·97°C Average 25·54°C Mean Night Temperature of Air 24·12°C. Average 22·39°C

NUMBER OF DAYS OF—

Mean Cloud Amount: 0	1 — 3	4 — 6	7 — 9	10	Rainfall: 0.1 — 0.9 mms.	1.0 — 4.9 mms.	5.0 — 9.9 mms.	10.0 — 24.9 mms.	25.0 and over mms.	Lightning	Thunderstorm
...	8	12	8	2	5	3	1	3	...	...	...

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

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level.)
(The cistern of the barometer is 55·2 metres above mean sea-level.)

APRIL 1937.

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d	13d.	14d.	15d.	16d.	Day \ Hour
Midnight	051	062	095	100	091	081	080	081	064	062	081	086	060	054	051	064	Midnight
1	049	061	091	093	088	078	076	071	060	061	078	081	057	052	047	060	1h
2	046	060	088	090	083	072	071	070	057	057	073	080	056	050	043	056	2
3	041	059	086	084	081	070	062	066	053	051	071	073	052	048	041	051	3
4	040	058	084	082	079	070	064	065	050	051	068	070	049	044	041	050	4
5	041	060	084	083	080	070	065	061	051	053	067	064	044	046	043	052	5
6	044	065	088	089	081	071	068	068	056	060	070	068	050	049	045	056	6
7	048	070	091	092	082	080	069	071	060	065	071	070	056	051	050	060	7
8	050	080	092	099	084	081	070	076	061	071	078	071	061	055	056	063	8
9	056	086	096	099	090	086	074	078	063	078	080	077	060	058	063	067	9
10	056	082	096	096	089	086	080	076	066	080	082	076	061	058	061	066	10
11	051	081	093	090	084	082	077	071	061	076	080	070	053	052	059	066	11
Noon	046	080	091	081	078	079	071	065	057	071	071	063	050	050	056	061	Noon
13h	038	072	086	076	071	071	065	053	051	062	068	056	046	041	052	059	13h
14	036	070	081	070	067	068	060	047	049	061	062	050	040	038	048	053	14
15	038	069	078	070	067	063	059	042	043	059	070	047	034	032	045	054	15
16	039	067	079	070	069	066	060	042	046	060	076	046	036	033	046	058	16
17	040	070	080	072	070	069	061	041	050	063	074	051	038	037	050	064	17
18	046	074	082	079	073	071	067	049	052	070	081	055	040	040	054	071	18
19	051	080	090	083	080	077	071	052	056	076	080	061	048	044	057	078	19
20	060	090	095	090	087	080	080	060	061	081	083	064	052	048	063	083	20
21	060	096	100	096	090	085	086	067	067	083	082	068	056	053	067	089	21
22	062	099	101	097	090	087	087	070	067	082	087	068	058	055	067	091	22
23	065	098	101	095	087	081	084	067	063	081	088	063	056	052	065	089	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day	17d.	18d.	19d.	20d.	21d	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day \ Hour
Midnight	088	080	071	086	097	091	071	058	036	010	045	070	081	091	...	1007·1	Midnight
1h	088	073	070	082	096	084	066	053	030	009	041	064	080	090	...	1006·8	1h
2	084	071	067	081	091	079	060	050	027	001	040	063	079	088	...	1006·4	2
3	081	070	065	080	089	073	056	044	022	996	038	061	074	081	...	1006·[illegible]	3
4	080	069	065	078	084	072	052	043	020	991	038	060	071	080	...	1005·9	4
5	080	069	067	077	082	071	051	043	018	996	038	064	071	079	...	1005·9	5
6	081	070	069	079	086	074	058	046	020	000	040	065	074	083	...	1006·2	6
7	087	074	071	080	094	081	063	050	022	008	045	071	080	090	...	1006·7	7
8	090	076	076	083	097	087	069	051	028	011	050	077	082	092	...	1007·1	8
9	090	076	077	091	100	090	070	051	030	020	055	080	089	095	...	1007·4	9
10	084	078	079	091	100	090	071	051	029	020	055	079	090	094	...	1007·4	10
11	079	074	076	088	097	082	068	050	026	017	051	072	086	087	...	1007·0	11
Noon	072	072	070	081	090	077	060	041	014	012	049	070	081	080	...	1006·5	Noon
13h	070	064	063	077	082	071	054	033	000	011	048	068	076	077	...	1005·9	13h
14	068	059	061	075	079	065	050	030	996	010	048	066	076	075	...	1005·5	14
15	067	059	061	072	075	060	046	025	992	011	048	061	077	076	...	1005·3	15
16	069	060	063	076	079	060	045	026	994	013	048	066	076	075	...	1005·5	16
17	071	061	070	079	081	062	049	030	998	020	051	070	078	078	...	1005·8	17
18	073	066	072	084	081	065	051	031	002	027	060	072	080	080	...	1006·2	18
19	078	071	076	086	090	067	057	038	006	032	063	077	081	076	...	1006·6	19
20	083	072	081	092	093	072	061	042	010	041	070	081	090	077	...	1007·1	20
21	085	074	085	100	097	075	064	044	014	044	071	081	092	078	...	1007·5	21
22	087	072	086	098	099	072	067	041	014	046	070	082	092	078	...	1007·6	22
23	081	071	086	100	096	072	061	040	013	047	071	083	091	079	...	1007·4	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	April 1937.																														
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean
Midnight	7	5	2	3	8	1	3	1	0	1	3	10	7	1	3	1	1	0	3	1	5	6	1	1	8	9	9	10	8	10	...	4·3
1h	9	8	1	3	9	1	2	1	1	1	5	9	9	1	2	1	1	0	4	1	4	5	2	1	8	8	9	10	9	10	...	4·5
2	9	8	2	4	10	1	3	2	1	1	3	8	10	1	2	0	1	0	2	1	6	5	2	1	9	8	8	10	8	10	...	4·5
3	9	8	2	4	10	1	4	3	1	1	2	8	10	1	2	0	1	0	3	1	5	3	1	1	8	8	8	10	9	10	...	4·5
4	9	8	2	5	9	1	5	4	1	1	2	8	10	1	1	0	1	0	3	1	5	3	1	1	7	8	4	10	9	10	...	4·3
5	7	8	2	6	10	2	3	1	1	1	2	8	6	1	1	0	1	4	3	1	4	3	2	3	8	3	4	10	10	10	...	4·2
6	7	6	2	9	9	3	2	1	2	2	2	8	4	2	2	1	2	5	2	1	4	3	2	5	9	1	4	10	9	10	...	4·3
7	8	6	0	7	8	5	2	1	2	2	3	7	7	4	3	5	2	5	2	1	7	3	2	3	10	3	5	9	9	10	...	4·7
8	8	6	0	6	6	7	3	1	1	3	8	6	10	5	5	5	3	5	4	8	9	3	3	2	10	3	5	9	9	10	...	5·4
9	8	5	3	6	5	8	4	2	3	5	8	6	9	5	6	5	3	6	3	9	9	7	4	3	10	3	5	6	9	10	...	5·8
10	8	4	2	4	6	7	6	4	6	5	8	7	8	5	5	6	8	5	7	9	9	5	5	4	9	3	5	7	10	10	...	6·2
11	8	6	1	4	4	7	6	4	6	6	9	6	8	8	5	8	7	5	7	10	8	8	7	4	10	2	5	9	10	10	...	6·6
Noon	8	6	2	6	5	6	6	3	5	5	9	7	8	8	7	7	5	5	7	10	8	8	7	4	9	3	6	10	10	10	...	6·7
13h	7	5	5	6	6	4	6	5	6	7	9	8	5	7	6	8	4	6	6	10	9	5	8	6	9	3	8	10	10	10	...	6·8
14	8	4	6	7	3	4	6	4	4	9	10	7	4	7	5	7	4	6	5	9	10	6	7	5	8	3	9	10	10	10	...	6·6
15	7	7	7	6	3	4	4	4	4	5	10	7	7	8	3	6	3	8	4	9	10	7	4	8	8	4	9	9	10	10	...	6·5
16	7	4	10	5	3	3	4	5	8	5	10	8	5	5	4	4	3	7	6	8	10	5	3	8	9	2	9	9	10	10	...	6·3
17	8	4	9	3	4	4	3	4	9	6	10	9	9	5	7	4	3	6	4	8	9	4	3	8	10	4	10	10	10	10	...	6·6
18	8	4	8	3	3	3	3	4	9	8	10	8	5	4	9	3	1	7	3	6	9	2	2	8	10	5	10	10	10	10	...	6·2
19	8	3	5	3	2	3	1	3	5	7	10	9	4	4	10	3	1	8	2	4	9	2	1	9	10	5	10	10	10	9	...	5·7
20	5	1	3	3	3	2	1	2	1	5	10	10	4	4	4	3	1	8	2	3	9	3	1	8	10	5	10	10	10	9	...	5·0
21	3	1	2	3	3	1	1	1	1	4	9	5	3	5	3	3	1	8	2	4	9	2	1	7	10	4	10	9	10	10	...	4·5
22	3	0	2	3	2	1	1	3	1	4	9	6	3	4	3	2	1	6	2	5	9	2	1	5	10	5	9	9	10	9	...	4·3
23	3	2	2	5	2	0	1	1	1	3	9	7	3	3	3	2	1	5	2	4	9	1	1	7	10	7	9	9	10	10	...	4·4

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending. \ Day.	April 1937.																														
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	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
7	16	20	40	1	33	0	33	22	32	33	22	3	0	22	26	37	34	0	27	26	0	0	0	18	0	27	33	0	0	0	...	8·4
8	59	60	60	26	60	24	60	60	60	60	55	58	0	60	60	60	60	25	42	54	16	37	58	60	0	48	60	6	0	0	...	21·5
9	60	60	60	48	60	60	60	60	60	48	30	60	20	56	60	60	60	59	60	20	36	60	60	60	0	60	60	8	0	0	...	23·4
10	60	60	60	60	60	60	60	60	60	28	56	60	40	60	60	60	60	60	55	27	60	60	60	60	22	60	47	3	0	0	...	24·6
11	59	60	60	60	60	60	60	60	36	56	50	49	60	36	60	35	60	59	60	22	60	60	60	60	0	60	60	3	0	0	...	23·8
Noon	58	60	60	60	60	60	60	60	21	58	42	56	52	40	60	48	60	22	60	22	50	27	60	60	12	60	60	0	0	0	...	22·5
13h	36	60	60	60	60	60	60	60	49	54	2	48	54	35	60	53	60	45	60	28	58	52	36	48	30	60	46	0	0	0	...	22·2
14	29	44	60	60	60	60	60	56	52	0	0	40	55	50	60	60	60	59	60	32	43	54	43	42	8	60	3	2	0	0	...	20·2
15	60	11	60	60	60	60	60	56	60	38	0	60	48	60	60	28	60	5	60	45	48	24	45	8	43	60	24	1	0	0	...	20·1
16	40	60	58	60	60	55	60	19	13	60	0	40	52	60	60	36	60	18	60	60	34	43	60	24	48	60	13	0	0	0	...	20·2
17	40	20	35	60	60	58	59	27	0	30	0	18	38	48	46	59	56	46	29	46	0	60	55	33	0	59	0	0	0	0	...	16·4
18	1	7	0	30	25	6	18	25	0	0	0	0	25	0	17	38	30	16	26	3	0	16	20	0	0	10	0	0	0	0	...	5·2
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

The total Amount of Registered Sunshine was 228·5 hrs. and the total possible sunshine was 348·0 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)

APRIL 1937.

Day. / Hour.	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	24·0	2·0	22·5	1·3	21·1	1·0	23·9	1·3	23·6	1·8	22·9	1·2	22·9	1·8	23.0	1·0	Midnight
1h	23·8	2·1	22·4	1·3	21·0	1·0	23·5	1·3	24·1	2·1	22·9	1·2	22·3	1·3	23·1	1·0	1h
2	23·2	1·8	22·3	1·2	20·7	1·0	23·6	1·6	23·3	1·7	22·6	1·0	22·1	1·1	23·1	1·0	2
3	23·3	1·9	22·1	1·1	21·1	1·1	23·6	1·8	23·1	1.1	22·8	1·0	22·5	1·4	23·3	0·8	3
4	23·1	1·5	22·0	1·0	21·2	1·1	23·5	1·7	23·0	1·2	22·9	1·1	23·2	1·2	23·1	1·0	4
5	23·0	1·7	22·2	1·1	21·3	1·2	23·6	1·9	23·2	1·2	23·0	1·1	23·1	1·0	23·0	0·9	5
6	22.9	1·7	22·1	1·1	21·8	1·5	23·8	1·9	23·1	1·1	23·0	1·0	22·8	0·9	22·6	1·0	6
7	23·7	1·8	22·8	1·7	23·1	2·1	24·0	2·0	24·1	1·9	23·2	1·1	23·6	1·2	22·9	0·9	7
8	25·9	3·0	25·3	2·4	25·1	2·9	25·2	2·5	25·6	2·6	24·8	1·2	25·3	2·1	26.0	1·8	8
9	26·8	3·7	27·0	4·0	26·3	3·9	27·0	3·7	26·2	3·3	26·7	2·7	26·9	3·0	27·7	3·6	9
10	27·5	4·3	27·7	4·6	27·2	4·4	27·9	4·4	27·1	3·9	27·8	3·8	27·7	3·6	28·1	4·1	10
11	27·4	4·4	28·0	4·9	28·1	5·2	28·1	4·4	28·1	5·1	27·9	3·8	28·2	4·0	28·9	4·8	11
Noon	28·0	4·6	28·7	5·7	28·9	5·5	28·2	4·5	28·3	4·9	28·2	4·3	28·9	4·3	29·4	5·4	Noon
13h	27·0	4·0	28·9	5·3	28·9	5·2	28·3	4·4	27·9	4·3	28·5	5·2	29·0	4·5	29·9	5·9	13h
14	27·2	4·6	28·5	5·0	28·9	5·1	28·6	4·8	28·3	4·6	28·5	4·6	29·1	4·4	30·0	4·5	14
15	27·7	4·7	27·7	4·6	28·1	5·1	27·6	4·4	28·3	4·7	27·5	4·4	28·3	4·1	30·0	4·3	15
16	26·7	3·9	27·8	4·7	27·2	3·9	27·2	4·5	27·7	4·5	27·8	4.7	28·3	4·1	28·6	4·4	16
17	26·0	3·7	26·2	3·8	26·6	3·4	26·2	3·8	26·5	3·4	27·0	4·2	27.9	3·8	27·3	3·3	17
18	24·9	2·4	25·0	3·2	25·4	2·7	25·0	3.0	25·5	2·3	24·4	1·7	26·5	2·4	26·0	2·7	18
19	23·6	1·4	23·3	2·1	24·8	2·0	24·0	2·9	24·1	1·5	24·0	1·7	25·2	2·1	24·9	1·6	19
20	23·4	1·7	23·1	2·1	24·7	2·2	23·9	2·6	23·8	1·5	23·6	1·7	24·2	1·3	24.6	1·5	20
21	23·2	1·7	22·6	1·7	24·2	1·4	23·8	2·3	23·5	1·2	23·1	1·4	24·1	1·1	24·0	1·0	21
22	23·1	1·6	21·8	1·5	24·2	1·3	23·6	2·4	23·2	1·2	23·0	1·8	24·0	1·2	23·6	1·4	22
23	22·9	1·6	21·6	1·4	24·1	1·4	23·6	2·3	22·9	1·4	23.0	1·9	23·4	1·1	23·1	1·1	23

Day. / Hour.	9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	22·8	1·4	24·1	1·4	23·1	2·0	23·8	1·9	23·0	1·0	23·0	0·9	23·0	0·9	22·5	1·1	Midnight
1h	22·1	1·0	24·1	1·6	23·0	2·0	23·7	1·7	23·1	1·0	23·0	0·9	22·9	0·9	22·1	1·0	1h
2	22·0	1·0	24·0	1·8	22·9	2·0	23·9	1·8	23·6	0·9	22·9	0·9	22·4	0·6	22·0	1·0	2
3	22·0	1·0	24·0	1·7	22·9	1·8	23·8	1·6	23·5	0·8	22·9	0·9	22·2	0·6	22·0	1·0	3
4	21·9	1·1	24·1	2.0	22·8	1·8	23·9	1·7	23·2	0·8	22·2	0.7	22·1	0·8	21·4	1.1	4
5	21·6	1·0	24·0	1·8	22·9	2·0	24·0	1·7	23·0	0·9	22·6	0·7	21·9	0·9	20·9	1·0	5
6	21·7	1·0	23·9	1·8	23·0	2·2	23·3	0·8	23·0	0·9	22·9	0·9	21·9	0·9	21·0	1.1	6
7	23·0	1·0	25·2	3·0	23·8	2·5	23.1	1·0	23·2	0·5	23·8	1·0	22·9	0·8	21·9	1·0	7
8	25·9	1·8	26·2	3·2	25·2	3·1	25·2	1·6	22·3	0·4	25·3	1·3	25·1	0·6	24·6	1·4	8
9	27·7	2·7	26·1	2·5	25·7	3·4	26·4	3·3	24·6	0·9	26·0	1·9	27·0	1·4	26·6	2·7	9
10	29·0	4·0	26·7	2·9	26·7	3·7	27·8	4·3	24·9	1·0	27·4	3·4	28·6	3·1	27·5	3·4	10
11	28·5	3·1	27·7	3·9	28·0	4·8	27·1	3·4	27.0	2·8	27·3	3·3	29·2	3·4	28·2	3·9	11
Noon	28·9	2·9	27·2	3·1	27·0	3·9	28·1	4·1	26·9	2·7	27·5	3.4	29·2	3·2	29·0	3·8	Noon
13h	29·3	3·1	27·2	3·1	26·9	3·8	27·7	3·8	27·7	3·7	27·7	3·5	29·5	3·8	29·1	4·1	13h
14	29·3	3·3	26·9	3·7	26·3	3·3	28·2	4·1	27·0	3·5	27·7	2·9	29·0	3·2	29·1	3·6	14
15	29·8	3·8	26·1	3·1	25·9	2·8	28·4	4·6	25·9	2·7	28·1	3·5	28·5	3·2	28·1	4·0	15
16	26·2	1·4	26·1	3·1	25·2	2·0	27·9	4·1	26·0	2·3	27·9	3·6	28·2	3·2	27 6	3·9	16
17	26·8	1·6	24·7	2·0	24·1	1·1	25·0	2·2	24·3	1·9	27·0	2·8	27·3	2·3	26·4	4·0	17
18	26·5	1·4	23·9	1·9	23·2	1·0	24·1	1·4	24·2	2·1	25·6	1·6	26·3	1·7	25·0	3·0	18
19	25·2	1·1	23·2	1·6	23·1	0·9	23·9	1·1	24·0	1·5	24·4	0·8	25·1	1·0	24·5	2·6	19
20	24·9	1·5	23·1	1·7	23·1	0·8	23·6	0·9	24·1	1·3	24·3	0·9	24·7	0·8	24·1	2·5	20
21	24·8	1·8	22·9	1·8	23·1	1·1	23·0	1·0	23·8	1·2	23·9	0·9	24·0	0·9	23·8	1·9	21
22	24·1	1·4	23·0	1·8	23·2	1·1	23·1	1.1	23·3	1·0	23·7	0·8	23·3	0·9	23.3	1·6	22
23	24·1	1.6	23·0	1·9	23·1	1·1	22·9	0·9	23·1	0·9	23·1	0·9	23·0	1·1	23·1	1·9	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add 273*)

APRIL 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	23·1	1·2	20·0	1·3	22·0	1·7	20.8	2·5	23·0	2·7	21·1	2·1	21·6	1·6	22·2	1·1	Midnight
1h	22·3	1·2	21·3	0·9	22·0	1·9	21·0	3·8	23·0	2·5	20·6	2·0	21·1	1·2	22·1	1·1	1h
2	22·2	1.2	21·1	1·1	22·0	2·0	20·1	3·1	23·0	2·4	21·1	2·0	21·6	1·5	22·0	1·0	2
3	21·4	1·2	20·0	1·1	22·2	2·4	19·7	2·6	23·0	2·5	20·7	2·0	21·2	1·2	22·1	1·1	3
4	20·9	1·3	19·3	1·1	21·6	2·4	19·1	1·9	23·0	2·4	19·9	1·7	20·5	1·2	22·7	1·5	4
5	20·7	1·3	19·0	1·1	20·3	1·9	18 9	1·9	23·0	2·4	20·9	1·7	20·9	1·3	22·5	1·3	5
6	20·2	1·1	19·9	1·0	20·0	2·0	19·1	1·7	23·1	2·8	20·8	1·6	20·7	0·9	22·7	1·4	6
7	20·8	0·8	21·9	1·6	20·2	2·0	21·1	1·3	23 0	2·4	20·3	1·2	20·7	1·1	23·0	1·6	7
8	24·1	2·8	22·1	0·2	22·3	2·3	23·6	2·8	23·6	3·4	23·4	1·9	24·1	2·2	24·9	2·3	8
9	26·0	4·5	24·9	3·1	25·0	5·2	23·0	1·9	24·9	3·9	25·5	3·5	25·9	3·8	26·0	3·1	9
10	26·7	5·4	25·9	4·2	25·0	5·0	22·9	1·1	26·0	5·1	26·6	4·6	26·7	4·2	26.9	4·3	10
11	27·2	5·2	26·6	4·1	26·7	7·3	22·5	0·8	26·1	5·0	26·6	4·9	27·1	4·1	27·0	4·0	11
Noon	27·8	5·7	25·1	3·1	27·2	7·2	23·0	0·9	26·0	5·0	26·7	5·2	27·3	4·2	27·5	4·5	Noon
13h	28·1	5·8	26·0	4·0	27·0	6·5	23·7	1·5	26·7	5·8	27·2	5·2	27·2	4·9	27·3	4·2	13h
14	27.5	5·6	26·6	4·3	27·0	6·0	23·3	1·3	26·5	5·6	27·2	5·1	28·1	5·2	27·0	4·0	14
15	27·0	5·9	24·0	2·0	25·1	4·7	23·9	1·9	26·2	4·6	26·8	4·6	27·1	4·1	26·8	3·8	15
16	26·6	5·5	25·0	3·0	24·7	4·6	24·0	2·4	25·1	4·4	26·2	4·3	26·9	4·7	26·0	3·2	16
17	25·1	4·1	24·6	2·8	23·9	4·2	24·0	2·8	24·6	4·5	25·6	3·8	25·8	3.5	25·1	2·2	17
18	24·0	3·6	23·6	2·0	23·0	4·0	23·2	2·6	23·9	3·9	24·0	2·7	24·3	2·1	24·1	1·6	18
19	22·5	2·5	22·9	1·8	22·0	3·0	23·1	2·4	23·1	2·8	22·7	1·7	23·3	1·4	24·0	1·7	19
20	22·4	2·4	22·3	2·0	21·7	3·5	23·2	2·7	23·6	3·5	22·1	1·4	22·9	1·4	24·0	1·8	20
21	22·0	2·2	22·5	1·7	21·0	3·6	23·1	2·3	23·1	3·6	21·7	1·6	22·7	1·4	23·3	1·4	21
22	22·1	1·8	22·2	1·3	21·1	3·4	22·9	2·9	23·0	3·0	22·0	1·7	22·1	1·1	23·0	1·3	22
23	21·1	1.4	22·3	1·6	20·6	3·1	22·9	2·7	22·1	2·8	21·5	1·4	22·3	1·2	22·6	1·3	23

Day. / Hour.	25d.		26d.		27d.		28d.		29d		30d		...		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 Afr over Evap.	
Midnight	22·2	1·1	23·1	0·8	20·9	0·9	21·7	1·6	22·1	2·0	23·4	2·9	...	...	22·5	1·5	Midnight
1h	22·6	1·1	23·1	0·8	20·8	1·0	21·0	1·3	22·3	2·2	21·6	0·9	...	...	22·4	1·4	1h
2	22·3	1·0	23·0	0·7	20·5	1·0	20·9	1·6	21·8	1·8	21·1	0·9	...	...	22·2	1·3	2
3	22·3	1·0	22·6	0·6	20·2	1·0	20·8	1·1	22·0	2·0	21·7	0·8	...	...	22·2	1·4	3
4	22·2	1·0	22·0	0·8	20·1	1.0	21.1	1·5	22·2	2·8	21 8	1·0	...	...	22·0	1·4	4
5	22·1	1·0	21·2	0·6	20·0	1·0	21·1	1·2	22·3	3·1	21·1	1·0	...	...	21·9	1·4	5
6	22·9	1·0	20·9	1.0	19·8	1·1	20·9	1·3	22·5	2·9	21·4	1·3	...	...	21·9	1·3	6
7	23·4	1·3	22·0	1·0	21·0	0·8	20·8	1·0	23·0	3·1	22·0	1·3	...	...	22·6	1·5	7
8	24·7	1·7	24·2	1·1	24·2	1·6	22·6	1·3	23·6	3·3	22·7	1·1	..	...	24·4	2·0	8
9	25·6	1.8	25·9	2.2	25·7	2·7	24·6	2·5	24·1	3·2	24·0	2·0	...	...	25·9	3·0	9
10	26·0	2·5	27·0	2.8	27·0	3·2	25·4	2·6	24·3	3·2	24·1	2·2	...	...	26·7	3·7	10
11	26·1	3·1	27·7	2·9	27·9	4·0	26·1	3·6	23·8	2·9	25·0	2·5	...	...	27·1	3·9	11
Noon	26·9	4·2	28·1	4·3	28·3	4·2	26·0	3·3	23·1	1·8	23·5	3·4	...	...	27.3	4·1	Noon
13h	28·1	5·1	28·1	4·0	27·4	4·4	25·8	3·8	23·0	1·9	25·0	3·0	...	...	27·5	4·3	13h
14	28·1	4·9	27·6	3·7	25·9	3·2	25·0	3·3	23·0	2·1	24·0	2·9	...	...	27·3	4·1	14
15	28·1	4·3	27·6	3·5	25·3	3·2	24·9	3·3	23·2	2·0	22·7	1·5	...	...	26·8	3·8	15
16	27·3	3·2	27·0	3·4	24.9	2·9	24·1	3·0	23·0	1·1	22·9	1·3	...	...	26·3	3·5	16
17	24·9	0·9	26·1	2·9	24·1	2·3	23·6	2·6	23·0	1·8	21·2	1·0	...	...	25·4	2·9	17
18	23·6	1·0	24·9	1·9	23·9	1·9	23·0	2·3	22·7	2·6	21·1	1·2	...	...	24·4	2·3	18
19	23·6	1·0	23·6	1·2	23·2	1·6	22·1	1·2	22·9	2·7	21·4	1·6	...	...	23·6	1·8	19
20	23·4	0·6	22·6	1·3	23·2	2·1	22·2	1·2	22·9	2·3	22·1	1·8	...	...	23·4	1·8	20
21	23·2	0·5	21·9	1·2	23·1	2·1	22·0	1·9	23·1	2·8	22·7	2·0	...	...	23·1	1·7	21
22	23·1	0·8	21·3	1.2	23·0	2·0	22·0	1·9	23·3	2·5	22·9	1·9	...	...	22·9	1·6	22
23	23·1	0·7	21·1	1·0	22·3	1·5	22·1	2·1	23·3	2·7	23·1	1·7	...	...	22·7	1·6	23

TABLE XII.—DIRECTION and VELOCITY of the WIND at every HOUR of the DAY as recorded by the ROBINSON CUP ANEMOMETER during APRIL 1937.

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 1937.

Hour.	1d		2d. *		3d.		4d.		5d.		6d.		7d.		8d. *		9d. *		10d.		11d.		12d.		13d.		14d.		15d. *		16d. *	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	3·0	11	1·2	11	1·2	10	3·5	11	1·3	10	2·3	10	2·0	08	1·1	16	0·6	14	1·1	11	4·0	11	3·9	12	2·1	10	1·6	09	1·1	15	0·9
1h	10	3·2	11	1·3	11	1·2	11	2·6	11	1·1	10	1·9	10	2·0	08	1·1	16	1·1	14	1·9	11	4·1	10	3·2	12	2·2	10	1·7	09	1·0	15	0·7
2	10	3·0	11	1·9	11	1·1	10	2·2	12	2·8	10	1·6	10	1·5	08	0·7	16	1·2	13	2·2	11	3·5	11	3·0	12	3·0	10	1·7	09	1·1	15	1·2
3	11	2·6	11	1·5	11	1·1	11	2·6	12	0·8	10	1·9	10	1·5	11	1·0	16	0·6	13	2·1	11	3·3	11	2·8	13	1·1	11	1·7	09	1·3	15	1·0
4	10	2·5	11	1·8	11	1·6	10	2·1	12	2·2	10	2·4	10	2·7	11	1·2	16	1·2	14	2·9	12	4·4	10	3·0	11	2·8	11	1·2	09	1·2	15	0·6
5	10	2·4	11	2·1	11	1·3	11	2·3	10	1·9	10	2·2	09	2·5	11	1·2	17	0·6	12	3·2	10	3·4	09	3·1	11	2·0	11	1·8	09	0·7	15	0·7
6	11	2·3	11	1·1	10	1·7	12	1·8	11	1·3	10	2·2	11	1·1	11	1·0	12	1·1	11	2·9	11	3·2	10	3·0	10	1·5	10	1·5	09	1·1	15	1·8
7	10	3·0	13	1·0	11	1·7	12	1·8	11	1·8	10	2·2	11	3·4	11	0·7	12	0·8	11	3·7	11	3·0	10	3·0	11	2·9	10	2·1	09	0·6	15	1·1
8	08	4·2	13	1·2	12	3·3	14	2·3	10	2·9	10	3·0	11	2·7	11	1·0	11	0·9	11	3·7	11	3·8	09	3·3	11	3·1	10	3·3	09	1·0	15	0·6
9	09	4·8	12	3·4	10	4·1	12	3·5	10	3·7	09	3·4	09	3·5	10	1·8	06	1·2	11	3·0	11	5·2	09	4·5	11	2·8	10	4·3	d19	1·2	22	0·8
10	08	5·5	12	3·3	09	4·3	12	5·1	09	3·3	08	4·3	10	3·1	10	1·8	10	1·7	09	5·5	12	5·4	08	4·3	11	4·1	07	4·8	25	1·7	23	1·0
11	09	5·8	09	3·4	10	4·3	12	4·4	10	3·6	08	5·0	07	2·8	10	1·7	r32	1·1	11	6·3	09	6·1	10	4·2	09	4·4	08	4·2	26	2·5	28	1·1
Noon	05	5·0	11	3·6	12	4·4	11	5·2	08	3·6	05	4·2	06	3·3	12	2·2	r23	2·3	09	5·6	09	6·3	09	3·7	10	5·1	08	4·4	24	3·0	24	2·5
13h	07	5·1	10	3·2	11	4·0	09	4·8	09	3·8	07	4·2	07	2·2	09	2·3	24	2·9	10	6·8	11	5·7	09	3·5	07	5·1	09	3·7	24	2·9	26	1·9
14	09	4·5	d23	1·3	10	4·5	11	5·1	09	4·3	08	4·9	05	2·7	d20	2·8	29	2·7	10	6·1	10	5·6	07	3·2	08	4·6	09	3·6	20	3·0	24	1·2
15	08	4·1	09	2·8	11	3·6	10	5·1	08	3·4	09	4·6	05	2·5	20	2·8	r21	1·7	12	6·2	10	3·5	10	3·1	09	4·9	07	3·5	26	3·1	r07	2·1
16	09	3·6	10	3·7	09	4·8	10	5·3	08	4·0	08	4·7	06	2·4	r07	1·5	r09	1·5	10	6·2	11	3·2	10	2·9	11	5·3	08	3·1	24	3·1	12	3·4
17	09	3·4	10	2·9	10	3·5	11	4·7	10	3·5	10	4·2	07	1·9	09	2·3	09	0·7	10	5·1	10	3·5	07	3·3	11	4·2	09	2·8	21	2·5	12	3·3
18	10	1·8	11	2·3	11	2·1	12	3·1	11	2·4	10	3·3	08	1·0	11	2·0	09	0·6	11	4·7	11	3·8	11	2·6	11	2·8	09	1·5	20	2·9	14	1·7
19	11	1·7	11	1·9	10	2·1	12	2·3	11	1·5	10	2·9	08	1·2	11	1·2	09	1·2	12	4·9	12	5·0	10	2·9	11	2·2	09	1·2	20	0·9	12	3·6
20	11	1·8	11	1·8	11	2·8	12	2·1	11	1·5	10	2·3	08	0·9	11	1·2	13	1·0	11	5·1	12	2·2	12	2·3	11	2·3	09	0·6	15	0·7	12	3·1
21	11	2·1	11	1·6	10	2·8	12	1·7	11	1·3	10	2·2	08	1·2	16	0·7	13	1·2	11	5·3	10	4·6	12	1·8	11	2·6	09	1·1	15	0·7	14	2·1
22	11	1·5	11	1·2	11	3·1	12	1·8	11	2·0	10	2·1	08	1·2	16	1·1	14	0·7	11	4·8	11	3·5	12	1·4	11	2·3	09	1·0	15	1·1	14	2·2
23	11	1·7	11	1·2	11	4·1	12	1·6	11	1·8	10	2·4	08	0·6	16	1·1	14	1·8	10	5·0	11	3·5	12	1·8	11	2·0	09	1·0	15	0·7	13	2·0

Hour.	17d.		18d.		19d. *		20d.		21d		22d.		23d.		24d.		25d. *		26d. *		27d. *		28d. *		29d		30d		...		Mean.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	13	0·5	12	1·4	11	2·4	11	2·1	10	4·8	09	2·2	11	1·4	11	2·1	10	1·4	07	0·8	22	1·1	13	1·0	11	2·2	11	4·0	...	...	1·9
1h	11	0·6	12	1·4	11	2·7	10	2·3	10	4·4	09	2·7	11	1·6	11	2·0	10	1·4	07	0·7	22	1·3	13	0·9	12	2·6	12	3·9	...	...	2·0
2	11	0·8	14	0·8	12	3·3	11	1·9	11	4·1	09	3·0	11	1·8	11	1·7	10	1·7	07	0·9	22	1·2	13	0·8	13	2·2	12	4·0	...	...	2·0
3	11	0·6	14	0·9	12	4·3	11	1·6	11	4·4	09	2·0	11	1·7	11	2·2	10	1·3	07	0·6	15	1·9	13	1·8	11	3·1	12	2·9	...	...	1·9
4	11	0·6	14	1·0	12	3·3	11	1·0	11	4·7	09	1·3	11	1·3	10	2·9	10	0·9	07	0·6	15	1·3	13	1·4	11	3·7	13	2·1	...	...	2·0
5	11	0·8	14	0·7	12	2·1	11	1·3	10	4·7	09	2·3	11	1·9	11	2·3	10	1·5	07	1·0	14	1·4	13	1·8	11	3·3	13	1·4	...	...	1·9
6	11	0·6	15	0·6	14	1·9	11	1·6	10	5·1	09	1·7	11	1·8	11	2·5	10	1·4	07	0·7	14	1·3	13	1·4	10	3·2	15	2·6	...	...	1·8
7	05	0·6	12	3·0	14	1·3	11	1·6	09	5·1	09	1·1	11	1·5	11	2·0	11	2·1	13	0·7	12	1·0	13	0·7	11	4·3	12	2·2	...	...	2·0
8	12	2·8	11	3·0	17	1·5	11	2·2	09	5·3	09	1·6	10	2·4	11	3·7	11	2·7	13	0·6	12	0·6	13	0·7	11	3·2	12	1·9	...	...	2·4
9	12	4·4	12	4·1	12	3·7	11	4·3	09	6·0	08	3·2	11	2·6	12	4·1	10	3·6	20	1·4	01	0·6	13	0·6	11	3·3	11	3·8	...	...	3·2
10	11	5·0	11	5·1	12	5·2	12	5·1	08	7·1	06	4·3	10	3·7	11	3·7	08	4·6	22	2·1	01	0·7	13	0·6	11	5·5	11	4·0	...	...	3·9
11	11	5·1	12	5·3	12	5·5	10	5·6	09	6·8	08	4·2	09	4·4	10	4·0	05	3·9	22	2·6	r23	1·8	16	0·7	09	3·8	11	3·4	...	...	3·9
Noon	11	5·1	11	5·1	12	5·0	06	4·2	09	6·4	08	3·8	08	2·5	08	3·9	08	3·4	22	3·8	25	2·1	20	1·7	09	3·7	10	4·2	...	...	4·0
13h	12	4·9	11	6·4	09	5·1	12	5·7	09	6·4	06	3·6	10	3·1	10	4·0	08	2·8	22	4·5	32	2·1	14	2·6	08	3·5	10	4·4	...	...	4·0
14	12	4·9	11	5·0	12	6·2	11	5·7	08	6·1	07	4·1	10	3·7	10	3·6	10	1·4	22	5·6	01	1·7	13	2·6	10	4·0	10	3·2	...	...	3·9
15	12	5·0	11	4·8	12	5·1	11	6·9	08	6·2	09	3·7	10	3·3	08	3·9	11	2·5	20	4·4	07	1·8	11	3·8	10	3·2	06	4·1	...	...	3·9
16	13	5·0	12	3·6	12	5·1	11	8·0	09	4·7	09	4·0	10	3·1	09	3·4	18	3·1	20	4·0	11	2·9	12	2·5	08	4·4	06	3·2	...	...	3·9
17	12	4·0	12	3·7	12	4·4	11	6·2	10	4·4	10	3·8	10	2·6	10	2·9	14	2·2	20	3·6	12	1·5	12	2·6	10	3·2	10	6·2	...	...	3·4
18	12	2·5	12	2·6	13	4·2	11	5·0	09	3·3	09	2·1	12	1·4	11	1·4	11	2·1	22	2·0	12	1·6	12	3·1	10	3·0	10	5·1	...	...	2·6
19	11	1·8	11	2·4	13	2·9	11	5·7	09	2·7	09	1·8	12	1·2	11	1·6	14	1·7	22	1·0	12	1·7	15	1·3	09	3·2	10	5·1	...	...	2·4
20	12	1·2	12	2·8	12	2·4	11	4·7	09	2·2	09	1·2	12	1·8	11	2·0	14	0·9	22	1·2	12	1·6	15	1·8	10	3·4	11	6·1	...	...	2·2
21	12	1·6	11	1·4	12	2·4	10	4·3	09	3·7	09	1·8	11	1·7	10	1·9	14	0·7	22	1·1	13	1·8	12	3·7	09	3·2	11	5·1	...	...	2·3
22	12	0·9	11	1·8	11	3·1	09	5·0	09	2·5	10	1·5	11	1·8	10	1·8	14	0·7	22	1·5	13	1·2	12	1·8	10	3·7	10	4·1	...	...	2·1
23	12	1·0	13	2·4	11	2·0	11	4·6	09	2·6	11	2·0	11	2·1	10	1·8	07	0·8	22	0·7	13	0·9	12	3·7	10	3·3	10	4·4	...	...	2·1

TABLE XIII,—WIND FREQUENCY (NUMBER OF OBSERVATIONS), APRIL 1937.

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	...	...	...	...	3	3	20	1	3	...	...	...	...	...	...	...
9	...	1	29	...	...	...	2	6	5	14	...	...	...	2	1	...	...	...	...
15	...	3	27	...	...	1	1	11	5	8	...	...	...	3	...	...	1	...	...
21	...	...	30	...	.	...	...	5	5	15	2	2	...	...	1	...	...	...	...
Totals	...			...	...	1	3	25	18	57	3	5	...	5	2	...	1	...	...

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for APRIL 1937.

Day. / Hour.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	...
	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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	4·7	...
2	...	..	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	. .	...	...	..	...	...	...	...	...	5·0	...
3	...	...	...	...	...	...	...	...	...	...	...	...	1·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·0	...
4	...	...	...	...	0·6	...	. .	...	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...
5	. .	...	...	...	0·1	...	...	...	...	...	...	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...
6	...	...	...	...	0·2	...	...	...	...	...	...	0·6	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	..	...	...	...	...	...	6·1	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...
8	..	.	...	...	...	...	...	...	...	...	...	...	5·0	...	...	...	...	0·5	0·2	...	.	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	0·5	...
10	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	2·1	...	...	...	...	...	...	...	...	...	...	...
Noon	...	...	...	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	2·7	...	...	...	...	...	...	...	...	...	...	..
13h	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	...	...	...	...	...	...	..	...	...	...	...
15	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	0·2	..	..
16	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·5	...
17	...	...	...	...	...	...	..	...	...	...	0·2	..	...	...	...	...	...	...	...	...	...	...	...	...	1·6	...	...	...	...	0·1	...
18	...	...	...	...	...	...	...	..	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	17·0	...	...	...	...	0·2	...
19	...	...	...	...	...	...	...	...	...	...	0·6	...	...	...	3·6	..	...	...	...	...	...	..	...	...	0·2	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	0·1	1·0	...	...	...	...	...	...	...	...	0·1	...	...	...	0·2	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR APRIL 1937.

Day. / Hour.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	...
	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	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	0·2	..	...	...	...	...	...	...	...	...	...	1·7	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	0·5	...	...	...	...	...	..	...	...	3·8	...
3	...	...	...	...	...	...	...	...	...	2·4	...	...	0·9	...	...	...	...	...	...	...	...	...	. .	..	...	...	...	...	...	1·5	...
4	...	...	...	...	..	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	2·4	...
5	...	...	...	...	...	...	...	...	...	0·8	...	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	0·1	...
6	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...	...	...	...	...	...	0·1	...	...	0·3	...	...	...	...	...	0·1	...
7	...	...	...	...	...	0·3	...	...	...	1·0	...	...	.	...	...	...	0·1	...	...	0·2	...	...	...	0·3	...	...	...	...	...	0·3	...
8	...	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	0·9	...
9	...	...	...	...	...	0·4	...	...	...	0·5	...	...	...	...	...	...	...	...	...	1·8	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	0·3	...	...	...	...	...	...	0·4	..	...	...	..	...	...	2·9	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	...	...	...	...	...	...	..	...	...	1·0	...
Noon	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	2·8	...	...	...	...	...	...	...	...	...	..	...
13h	...	...	...	...	...	0·3	...	...	...	0·3	...	...	1·8	...	...	...	...	0·3	...	1·3	...	...	...	...	...	. .	...	...	0·1	0·1	...
14	...	...	...	...	...	0·6	...	...	...	2·3	..	...	5·4	...	...	...	..	0·2	...	0·2	...	...	...	...	...	...	...	...	0·9	0·2	...
15	...	...	...	...	..	...	...	...	...	2·5	...	...	0·1	...	...	...	..	0·2	...	0·2	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	0·7	...	0·3	...	...	...	...	10·6	...	...	...	...	0·5	...
17	...	...	...	...	...	...	...	...	...	...	...	...	1·4	...	...	...	...	...	...	0·2	...	...	...	...	11·5	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	..	0·4	...	1·9	...	0·1	...	...	0·1	...	...	...	..	...	...	...	...	...	0·3	...	..	...
19	...	...	...	...	...	...	...	...	...	...	3·8	...	0·1	...	0·4	...	...	0·5	...	...	...	...	...	...	...	...	...	0·7	...	...	...
20	...	...	...	...	...	...	...	...	..	...	0·9	7·4	...	...	...	...	...	1·3	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	0·5	...	0·6	...	...	..	...	...	...	..	...	...	...	...	...	...
22	...	...	...	..	...	.	...	...	...	0·2	0·2	...	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for APRIL, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	5.95	...
	St. Antoine	50	2·41	61.2	5.47	7
	Bel Mont	50	2·43	61.7	6.01	9
	Poudre d'Or	20	3.70	94.0	5.88	10
	Mon Loisir (S.E.) ...	300	3.22	81.8	6.79	11
	Forbach	300	1.92	48.8	5.20	7
	Couroupa	...	2.26	57.3	6.91	12
	* Labourdonnais	290	...	...	6.21	...
	Mapou Water Office ...	...	1.69	42.9	...	7
	Beau Séjour	300	3.32	84.3	7.34	14
	Mont Piton	650	3.41	86.6	7.37	13
	Mon Choix	700	2.18	55.4	6.74	13
	Antoinette	640	4.30	109.2	7.40	18
	Mon Songe	620	6.01	152.7	7.72	17
	Botanical Gardens ...	325	3.89	98.8	6.18	19
	* The Observatory ...	179	2·63	66·7	5.12	12
	Solitude	175	...	...	4.11	...
	St. André (Cour) ...	90	2.41	61.2	5.30	4
	La Nicolière	...	7.10	180.3	12.79	19
	California	...	6.91	175·5	...	12
	Australia	...	6.00	152.4	...	13
2 & 3	Union Régnard (Flacq S.E.) ...	600	6.44	163·6	8.77	14
	Constance d'Arifat (L.S.) ...	100	6.58	167·1	7.69	18
	Rich Fund	600	5.23	132.8	9.64	20
	La Joffrette	...	4.88	124.0	...	10
	Belle Vue (Allendy) ...	...	6.04	153.4	9.30	15
4	Sans Souci	900	11.99	304.5	15.21	21
	Beau Champ (G.R.S.E.) ...	20	4.30	109.2	7.53	15
	Olivia	400	7.27	184.7	10.96	19
	Trois Ilots	...	5.96	151.4	...	17
	Belle Rive	400	8.73	221.3	...	22
	Sébastopol	700	11.41	289.8	...	15
	Bonne Veine	400	7.50	190.5	15.09	16
5	Rose Belle	850	10.51	267.0	15.40	18
	New Grove	650	10.80	274.3	...	16
	Mon Trésor	...	5.80	147.3	...	10
	Mon Désert (Carié) ...	75	4.73	120.1	6.77	12
	Ferney	20	...	...	9.90	...
	Sauve Terre	...	5.78	146.8	...	14
6	Tivoli	1,300	14.70	373.4	15.08	24
	La Flora	1,050	12.71	312.8	16.37	20
	Riche Bois (Brit.) ...	650	8.97	227·8	12.15	18
	Britannia (Estate) ...	700	10.22	259.6	11.61	18
6	Savannah (Mill) ...	200	3.87	98.3	8.19	13
	St. Aubin	300	4.93	125·2	9.00	16
	St. Avold	900	13.20	335.3	12.84	19
	Colmar	400	10.13	257.3	10.42	13
	Union (S.E.)	...	5·31	134.9	8.55	14
	Fontenelle	320	6.79	172.5	9.29	15
	Choisy	200	4.42	112.3	6.62	9
	Beau Bois	...	8.40	213.4	...	15
	Bel Air	...	5.61	142.5	8.28	10
	St. Félix	...	5.40	137.2	...	8
7,8,9&10	Bel Ombre	40	...	...	6.61	...
	Beau Champ (B du Cap) ...	70	...	...	7.65	...
	Frédérica	...	...	...	7.04	...
	Pierre Fonds	...	2.28	57.9	6.08	11
	St. Marie	...	...	...	...	...
	Hussonia	...	...	...	...	...
11	Curepipe Gardens ...	1,840	6.18	157.0	11.76	29
	Mare aux Vacoas (G.E.) ...	1,850	6.49	164.8	16.19	15
	Mare aux Vacoas (Arn) ...	1,830	7.98	202.7	14.93	16
	La Marie Filter Beds ...	1,700	3.34	84.8	9.62	11
	* Sophie	...	7.36	186.8	...	22
	Réunion	1,420	4 39	111.5	7.85	15
	* Aerological Station ...	1,393	3 75	95.2	10.30	17
	Phoenix	...	2.63	66.8	...	10
	Quatre Bornes ...	...	1.77	45.0	...	11
12	Quatre Bornes (Board) ...	1,090	1.97	50.0	...	9
	* Le Réduit (D of A) ...	1,000	2.51	63.7	4·85	26
	Alma	1,460	5.81	147·6	12.95	13
	Bagatelle	1,250	3.18	80.8	7·33	10
	Highlands	1,300	3.89	98·8	8.64	11
	Trianon	950	2.75	69.9	5·70	9
	Val Ory	1,100	2.03	51.6	5·80	10
	Bassin	.	3.06	77.7	7·30	11
	Hermitage	1,450	4.25	108.0	13·25	10
	Ebène	...	2.49	63.2	...	8
	Béga	...	1·80	45.7	...	7
	Mon Rêve	...	2.49	63.2	...	8
	Mon Pevril	...	2.19	55.6	...	7
	Minissy	1,150	2.73	69.3	7·55	8
	Plaisance	...	6.46	164.1	...	12
	La Ferme	350	1.40	35·6	4.75	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 APRIL 1937.

Day.	Time	Scud Dir.	Scud 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	Scud Dir.	Scud 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
		°		°		°		°		°		°			°		°		°		°		°		°	
1	12	...	...	105	18·4	...	..	...	...	...	...	285	...	...	...	...	...	...	...	..	...	...	...	...	...	...
2	9¾	...	...	...	...	...	...	...	...	...	..	315	...	14¾	...	...	...	...	...	...	...	...	...	...	315	...
3	...	..	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	105	10·6*	165	5·3*	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	53	8·8*	30	4·7*	...	...	...	...	...	...	...	...
8	...	...	...	..	...	..	...	...	...	...	...	...	...	14¾	105	7·9*	120	3·4*	...	...	..	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	225	2·3*	210	3·5*	...	...	300	..	...	...	...	...
10	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	9½	...	...	120	16·5	300	2·4	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
12	12	...	...	75	...	300	3·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	278	10·8*	292	7·2*	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	..	14¼	150	16·1*	145	8·6*	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
19	...	...	...	..	...	...	...	...	...	...	...	...	...	14¼	127	9·8*	122	11·7*	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
21	12	...	...	...	...	270	...	...	...	...	...	270	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	113	9·4*	...	...	...	...	300	3·7*	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
25	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	..	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	237	19·2*	...	...	...	...	...	...	263	4·9*
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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.

157/1/88—R.A.O. 250.

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NEW SERIES (MONTHLY) VOL. XXIII. PART 5. PRICE 0.75

ROYAL ALFRED OBSERVATORY, MAURITIUS.

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

MAY, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

Published by Authority of His Excellency the Governor

PORT LOUIS

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1938

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF MAY, 1937

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 1 γ)	Daily Range† Vertical Force (Unit 1 γ)	HRH : 10000	ZRZ : 10000
MAY	° ′			′				
1	13°22.1	.22424	.29747	7·5	30	28	67	83
2	22·5	445	746	8·5	23	23	52	68
3	22·6	447	742	10·0	25	29	56	86
4	22·1	455	740	7·2	48	20	108	59
5	21.6	388	751	8·5	110	28	246	83
6	23·4	422	745	10.0	40	38	90	113
7	22·8	452	739	9·3	27	29	61	86
8	21·9	459	739	9·5	24	33	54	98
9	22·7	456	739	8·5	67	33	151	98
10	22·3	457	739	5·3	36	31	84	92
11	22·0	448	742	4·8	52	25	117	74
12	22·5	467	737	8·3	32	41	72	122
13	22·4	482	736	7·2	37	32	83	95
14	22·6	482	736	6·3	51	29	115	86
15	22·5	476	740	9·5	23	22	52	65
16	22·2	478	739	7·5	40	24	90	71
17	22·2	475	741	10·7	16	33	36	98
18	21·7	482	739	8·2	21	26	47	77
19	...	...	741	...	...	27	...	80
20	...	...	742	...	...	24	...	71
21	21·4	477	742	7·7	18	27	41	80
22	21·5	478	742	6·5	21	19	47	56
23	21·4	474	739	6·5	35	28	79	83
24	21·8	473	741	6·0	33	22	74	65
25	21·7	461	737	7·5	60	39	135	116
26	21·4	458	739	3·8	36	30	81	89
27	21·8	460	741	7·5	57	21	128	62
28	22·3	423	745	8·5	115	22	258	65
29	21·3	434	743	7·0	40	36	89	107
30	22·0	450	743	7·5	32	34	72	101
31	21·9	462	738	5·9	33	32	74	95
Mean	13°22·09	·22457	·29741	7·63	40·8	28·5	91·6	84·7

Description of the Principal Magnetic Disturbances.

Declination— 4d. at end and 5d. Disturbed—Irregular oscillations of small amplitudes in the trace.
26d. Slightly disturbed in the beginning.
28d. and 29d. Disturbed—Small irregular oscillations in the trace throughout.

Horizontal Force.— 1d. Slightly disturbed.
4d. Slightly disturbed—during first part—From $21^{h.}$ beginning of a moderately disturbed period of short duration ending during the first hours of 6d.
5d. Disturbed, irregular oscillations on a largely fluctuating trace—large increase in daily range (130γ).
9., 10d. and 11d. Slightly disturbed.
16d. Slightly disturbed—From $4^{h.}$ $15^{m.}$ to $5^{h.}$ $30^{m.}$—positive wave of 30γ.
21d. $19^{h.}$ $55^{m.}$ to $21^{h.}$ Short-lived disturbance of small importance with sudden commencement.
25d. and first half of 26d. Slightly disturbed—Irregular fluctuations of small magnitude in the trace.
27d. Commencement at $0^{h.}$ $30^{m.}$ of a long but moderately disturbed period ending on 30d. Important fluctuations with large increase in range (115γ) on 28d.

Vertical Force.— 5d. Slightly disturbed—small pulsations throughout on an otherwise quiet trace.
25d. and first half of 26d. Very slightly disturbed.
27d. to 30d. Slightly disturbed. Irregular fluctuations of small magnitude at times on the trace.

T=·37267 : Mean Dip=52° 56·65′ : (X=·21849 : Y=−·05192 : Z=·29741).

† 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 1937.

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
4·12.20	13·23·1	3· 9·30	·22465	4.12.08	52.55.69	·29737
7·13·00	13·22·2	5· 9·39	·22390	18·14·22	52·54·06	·29724
18· 9·45	13·25·5	8· 9·49	·22471	21·12·29	52·54·75	·29739
18·14·36	13 18·5	15· 9·30	·22490	28·11·26	52·58·06	·29740
21·12·45	13·20·0	19· 9·57	·22495			
28·11·42	13 23·7	26· 9 35	·22463			
		29· 9·28	·22454			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

MAY 1937

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day \ Hour
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	22.0	22.7	22.3	23.0	24.5	22.7	22.5	22.7	22.5	23.0	22.5	22.0	22.3	22.5	22.7	22.7	Midnight
1h	22.5	22.7	22.0	22.5	25.0	23.0	22.5	22.5	22.5	23.5	22.5	22.0	22.2	22.3	22.5	22.5	1h
2	23.0	22.5	22.0	22.0	23.5	23.0	22.5	22.3	22.7	22.7	22.3	22.0	22.3	22.0	23.0	22.3	2
3	22.5	22.5	21.0	21.0	21.5	23.0	22.5	22.2	22.7	22.5	22.3	22.3	22.3	22.0	22.5	22.3	3
4	22.5	22.7	21.7	20.0	20.7	23.0	22.5	22.0	22.5	22.0	20.5	22.3	22.5	22.3	22.5	22.5	4
5	21.0	22.7	22.0	21.5	20.0	22.7	22.0	22.0	22.3	22.3	21.0	22.5	22.5	22.5	22.7	22.3	5
6	19.5	22.5	22.2	20.7	19.0	23.0	22.0	21.5	22.0	22.4	21.0	22.7	22.3	22.5	22.5	22.0	6
7	21.0	22.0	22.0	19.0	16.5	23.0	22.5	20.5	22.3	22.5	20.3	22.7	22.0	22.2	22.3	21.0	7
8	22.0	23.5	24.0	21.0	17.7	24.5	23.7	22.0	24.0	23.0	22.0	24.0	23.0	23.0	23.0	22.5	8
9	25.0	26.0	27.0	24.5	18.5	27.5	20.0	25.5	27.0	25.0	24.0	25.8	25.7	25.0	26.0	24.5	9
10	26.5	27.5	28.5	26.7	22.0	29.5	28.3	27.0	28.0	24.7	24.3	26.3	26.7	26.0	27.0	25.0	10
11	23.5	26.5	27.0	26.3	23.0	28.5	28.0	25.5	27.0	24.0	23.7	25.7	25.5	25.0	25.0	25.5	11
Noon	21.5	24.0	24.5	24.0	22.5	27.0	26.0	23.0	24.1	22.3	22.3	24.0	23.0	23.0	23.5	24.0	Noon
13h	21.5	21.5	22.7	22.0	24.0	25.0	23.0	20.0	21.5	21.0	21.0	22.0	20.0	22.0	22.0	22.0	13h
14	20.3	20.3	21.0	20.0	22.0	22.5	20.5	19.0	20.0	20.0	20.3	20.0	19.5	20.5	20.0	18.5	14
15	19.0	19.0	19.5	19.5	20.3	20.0	19.0	17.5	19.7	16.7	19.5	18.0	19.7	19.7	17.5	18.0	15
16	19.0	19.0	18.5	19.7	21.5	19.5	19.0	17.7	19.5	19.7	19.5	18.7	20.0	20.0	18.5	19.0	16
17	20.7	20.3	20.0	21.0	20.5	20.5	20.0	20.0	20.5	21.0	21.0	20.7	21.5	21.0	20.5	20.5	17
18	21.7	21.5	21.3	21.7	22.0	22.0	21.5	21.5	21.0	21.5	22.2	22.5	22.3	22.5	21.7	21.7	18
19	22.5	22.0	22.0	22.0	21.7	22.5	22.0	22.2	22.0	22.3	22.5	23.0	22.5	23.0	22.0	22.0	19
20	22.7	22.5	22.5	22.5	23.5	22.7	22.7	22.5	22.5	22.5	23.0	23.0	22.7	23.0	22.5	22.5	20
21	23.0	22.5	23.0	22.7	23.0	22.7	23.0	22.7	22.7	22.7	24.3	23.0	23.0	22.7	23.0	23.0	21
22	23.0	22.5	22.7	23.0	23.0	22.5	23.0	22.5	22.5	23.0	22.7	22.7	22.5	23.5	23.0	22.7	22
23	23.3	22.3	23.0	23.0	23.0	22.5	22.7	22.5	22.5	22.3	22.3	22.3	22.3	23.3	23.0	23.3	23

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d	Mean	Day \ Hour
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	22.3	22.0	22.0	...	22.0	22.3	21.5	22.0	21.5	22.0	21.7	21.5	24.5	22.0	22.7	22.4	Midnight
1h	21.7	21.9	22.0	...	22.0	22.0	21.5	22.3	21.3	22.0	20.5	24.3	25.0	22.0	22.5	22.5	1h
2	22.0	21.7	21.7	...	22.3	21.9	21.5	22.3	21.7	20.3	21.5	24.0	23.0	21.5	22.0	22.3	2
3	21.0	21.7	22.0	...	22.0	21.7	21.5	22.5	21.5	22.5	21.7	24.0	24.5	21.0	22.0	22.2	3
4	21.7	21.5	22.3	...	22.0	21.5	21.7	22.0	22.0	22.3	22.0	23.5	22.0	22.0	22.5	22.0	4
5	22.0	21.5	22.3	...	22.3	21.5	21.7	22.3	21.7	20.0	21.5	23.0	22.0	22.3	22.0	21.9	5
6	22.0	21.5	22.0	...	22.0	21.3	21.7	22.3	21.3	22.0	20.0	23.0	20.3	22.3	22.0	21.7	6
7	21.5	21.5	21.7	...	21.0	20.3	22.0	21.0	21.5	22.3	20.3	20.5	19.0	21.0	19.7	21.2	-
8	23.0	22.7	23.7	..	22.0	21.5	23.0	22.5	20.5	22.0	21.5	16.0	18.0	21.5	20.5	22.0	8
9	26.5	25.0	25.5	*	24.0	22.0	24.0	24.5	22.7	21.0	24.0	19.5	19.3	24.0	23.0	24.2	9
10	28.0	26.5	25.0	25.3	25.0	24.5	24.5	25.0	25.5	22.3	26.0	21.0	20.0	25.5	24.0	25.6	10
11	27.5	24.0	23.0	24.0	24.5	24.5	22.0	23.5	25.5	21.5	25.0	22.5	21.0	24.5	24.2	24.8	11
Noon	25.5	22.7	21.0	22.0	22.0	23.0	20.0	22.3	23.0	21.5	23.5	23.7	21.0	24.0	23.7	23.3	Noon
13h	22.0	21.0	18.5	19.0	19.5	20.7	13.0	21.0	20.0	19.5	21.5	22.5	19.7	20.0	22.0	21.4	13h
14	20.5	20.0	*	16.5	17.5	20.0	19.0	20.0	20.0	19.0	19.0	20.3	29.0	19.3	20.0	19.9	14
15	18.0	18.3	...	16.3	17.3	18.0	18.0	19.0	18.0	18.7	18.5	20.0	18.7	18.0	18.3	18.8	15
16	17.3	18.5	...	17.0	18.0	19.5	19.0	19.0	18.7	19.5	20.0	21.0	19.0	19.0	19.0	19.2	16
17	20.0	20.0	...	19.5	19.5	20.5	20.5	20.0	21.0	22.0	20.3	22.3	21.0	21.0	21.5	20.7	17
18	20.7	21.0	...	20.0	20.7	21.0	21.5	21.0	21.5	22.5	21.0	23.7	22.5	22.0	22.0	21.7	18
19	21.3	21.0	...	20.5	21.0	21.5	22.0	21.8	22.0	22.0	22.3	22.5	22.5	22.5	22.5	22.1	19
20	21.7	21.7	...	20.7	21.5	21.5	21.5	22.0	22.0	22.3	22.3	22.5	22.7	22.5	22.7	22.4	20
21	22.5	22.0	...	21.0	21.0	22.0	21.7	22.0	22.3	22.5	22.5	23.3	23.0	22.5	23.0	22.7	21
22	22.0	22.0	...	21.3	21.8	21.7	22.0	22.0	22.5	22.0	23.0	23.5	23.0	23.0	22.5	22.6	22
23	22.0	22.0	...	22.0	22.0	21.7	22.3	22.0	22.0	22.0	22.5	24.5	23.0	22.5	22.0	22.6	23

* Registering Light failed.

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)

MAY 1937.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	413	436	438	433	430	397	438	449	465	453	452	449	475	474	467	473	Midnight
1h	407	436	438	440	433	401	440	450	465	445	450	451	477	475	472	475	1h
2	412	440	440	439	424	409	441	456	465	449	453	457	475	474	473	478	2
3	415	435	453	445	425	412	441	455	470	455	459	560	475	478	475	481	3
4	423	443	450	459	426	417	443	459	473	467	471	463	479	481	476	477	4
5	424	445	453	457	435	420	449	458	475	460	475	467	479	483	481	490	5
6	420	450	453	459	440	421	450	460	475	469	462	467	480	486	481	483	6
7	433	453	455	473	440	425	453	470	475	470	460	469	482	489	483	490	7
8	434	454	459	475	423	428	454	472	481	465	468	469	487	495	487	499	8
9	434	458	460	475	405	429	456	471	483	471	450	465	490	497	488	500	9
10	434	456	457	481	380	427	457	471	484	469	453	473	502	477	485	495	10
11	435	450	455	477	373	429	461	470	483	468	459	470	497	494	483	485	11
Noon	437	451	455	470	370	426	465	467	478	470	457	455	498	491	477	481	Noon
13h	425	447	453	465	355	420	463	455	460	471	453	458	501	500	475	480	13h
14	416	441	447	460	350	412	453	449	445	470	442	465	497	501	479	480	14
15	410	439	440	450	330	411	450	448	444	460	435	471	490	491	483	474	15
16	410	438	439	445	330	414	444	449	442	455	431	473	480	481	473	471	16
17	410	441	438	447	340	421	449	450	420	458	428	475	485	483	469	469	17
18	423	442	441	447	355	423	455	452	417	452	427	481	475	479	471	466	18
19	427	440	442	445	350	429	459	452	422	439	423	477	475	481	473	470	19
20	432	443	443	446	345	431	457	457	425	440	424	477	470	479	472	460	20
21	430	444	445	453	375	434	455	459	431	435	440	473	465	465	465	460	21
22	425	443	440	447	389	433	454	459	430	437	445	470	460	450	470	470	22
23	435	443	435	433	393	437	453	460	437	440	447	471	471	452	471	467	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	·22000 + (C.G.S. UNIT)																
Midnight	466	467	480	...	471	471	476	453	474	441	442	443	412	435	447	450·0	Midnight
1h	473	479	473	...	471	470	477	459	475	449	459	435	413	445	449	452·0	1h
2	474	480	477	...	471	474	480	465	470	475	459	429	430	450	450	454·9	2
3	481	481	475	...	475	476	480	467	475	465	457	435	435	450	461	457·7	3
4	479	482	479	...	474	478	482	470	477	470	460	455	440	455	462	461·8	4
5	480	484	480	...	477	479	487	474	475	470	465	445	440	454	457	463·4	5
6	480	488	484	...	476	481	489	477	480	470	473	450	435	455	470	464·8	6
7	480	490	487	...	480	488	490	481	471	471	473	460	450	461	480	468·8	7
8	481	491	495	*	485	491	488	486	490	477	482	462	450	455	467	470·9	8
9	480	490	490	479	489	490	483	483	487	471	487	475	451	463	463	470·5	9
10	477	485	490	475	487	490	476	480	489	472	486	460	440	463	466	468·7	10
11	473	487	490	473	485	487	477	480	490	467	480	441	445	464	467	466·6	11
Noon	477	491	486	477	480	481	474	477	477	471	483	443	452	467	468	465·1	Noon
13h	575	487	476	471	479	480	480	471	455	455	465	445	430	465	470	459·9	13h
14	470	481	*	471	475	479	479	471	443	451	470	420	423	450	467	454·7	14
15	465	477	...	465	473	480	470	473	430	450	465	380	420	443	470	449·0	15
16	467	479	...	457	473	471	465	471	440	449	454	400	421	440	465	447·2	16
17	471	481	...	456	473	470	467	471	445	443	440	395	427	435	462	446·7	17
18	472	480	...	459	471	471	465	470	436	483	441	380	425	437	459	446·1	18
19	473	478	...	461	474	471	460	471	439	450	450	380	427	441	457	447·4	19
20	477	477	...	463	485	472	463	474	445	451	442	380	440	443	458	448·6	20
21	475	471	...	465	475	477	459	475	445	450	437	387	439	440	455	448·8	21
22	474	470	...	471	475	475	456	475	443	447	430	385	435	442	455	448·1	22
23	476	478	...	471	477	473	455	477	441	445	435	395	433	445	457	449·4	23

* Registering Light failed.

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 1937

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	751	748	746	745	747	753	744	742	740	744	743	746	743	742	745	745	Midnight
1h	752	748	746	743	745	752	744	741	740	743	743	745	741	741	743	744	1h
2	751	746	745	742	744	751	744	741	739	742	742	744	741	741	742	743	2
3	750	746	744	742	741	751	744	741	740	741	742	743	741	741	741	742	3
4	748	745	744	740	742	751	744	741	739	740	740	743	740	740	741	742	4
5	748	745	743	741	742	751	744	743	740	741	741	743	740	740	741	741	5
6	747	745	743	741	742	751	744	743	740	742	741	745	741	740	741	741	6
7	747	746	743	739	739	751	745	742	742	743	742	746	741	740	741	738	7
8	756	753	747	744	746	755	749	748	749	747	750	751	744	742	745	739	8
9	762	759	753	749	756	759	751	752	751	751	751	751	749	743	749	742	9
10	753	759	756	745	767	755	746	751	747	747	751	747	747	740	746	747	10
11	744	749	748	741	765	745	735	739	737	740	742	731	736	733	740	745	11
Noon	738	742	737	739	761	737	725	725	727	731	736	716	725	723	733	739	Noon
13h	740	740	730	734	758	730	723	719	723	726	731	713	720	720	731	731	13h
14	734	738	727	729	749	733	722	721	718	720	729	712	716	719	730	725	14
15	735	736	728	730	746	721	723	727	720	721	726	710	715	718	727	723	15
16	737	739	731	733	750	726	727	732	725	727	731	719	720	724	731	725	16
17	747	743	736	739	751	736	736	740	737	735	740	731	728	731	737	733	17
18	747	745	741	741	753	743	741	743	744	739	744	738	734	739	741	739	18
19	749	745	742	741	755	745	743	745	745	743	747	739	737	739	740	741	19
20	749	746	743	741	761	745	743	744	747	744	750	741	739	740	742	743	20
21	749	746	744	741	756	745	743	743	747	745	752	741	741	740	743	745	21
22	751	746	743	740	754	744	743	743	747	745	748	743	742	747	745	744	22
23	749	746	745	742	753	744	742	742	746	744	747	743	742	746	745	746	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	747	746	743	747	748	743	743	746	741	745	743	747	755	748	748	745·6	Midnight
1h	746	746	744	747	748	743	742	745	740	744	741	749	753	748	746	744·9	1h
2	746	745	745	747	747	742	742	744	740	741	741	749	752	743	745	744·1	2
3	744	744	744	747	747	741	742	744	740	742	741	745	747	743	744	743·4	3
4	745	744	744	747	747	742	742	744	741	742	741	743	746	743	743	743·0	4
5	745	743	744	747	747	743	742	745	741	741	741	742	746	742	742	743·1	5
6	744	743	743	746	747	743	743	745	742	743	740	743	744	743	743	743·2	6
7	743	742	743	744	746	741	742	744	741	740	740	735	741	742	737	742·1	7
8	750	745	749	748	750	746	747	747	746	743	743	734	742	745	742	746·5	8
9	756	746	749	748	751	751	749	750	749	748	750	744	747	750	749	750·5	9
10	751	742	743	744	749	745	743	746	750	750	749	746	749	751	747	748·7	10
11	741	735	735	736	741	737	735	745	740	743	741	745	747	746	741	741·2	11
Noon	735	726	729	731	736	739	731	737	722	736	735	741	743	741	732	733·8	Noon
13h	728	722	722	724	731	735	726	732	713	730	730	739	730	734	727	728·8	13h
14	723	720	723	725	725	735	721	728	711	721	729	736	725	729	720	725·6	14
15	724	723	725	729	724	732	721	729	711	720	729	736	719	727	717	724·9	15
16	727	729	734	734	731	736	726	729	722	726	734	741	724	732	723	729·8	16
17	735	736	741	743	737	740	734	731	735	735	739	742	735	741	732	737·3	17
18	740	739	745	746	741	743	741	736	741	741	743	749	743	745	737	742·0	18
19	741	741	745	747	743	744	742	740	743	742	745	751	746	747	740	743·6	19
20	743	742	747	748	745	745	744	742	745	743	746	753	747	747	741	745·0	20
21	744	743	748	747	741	746	745	743	746	746	747	755	748	749	742	745·5	21
22	745	744	747	748	745	743	745	743	747	743	750	754	749	748	741	745·7	22
23	745	744	747	748	744	744	746	742	746	743	750	756	749	748	742	745·7	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 1937.

Month and day 1937.	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	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	968·8	20·4	0·6	19·3	94	22·2	95	5·8	10	20·1	21·0	20·3	20·2	21·5	18·7	2·8	28·6	209	0·0	0
2	967·2	24·5	2·6	20·0	76	23·2	90	4·5	5	20·8	21·7	27·2	22·5	27·5	19·0	8·5	1·0	12	6·8	60
3	966·2	25·8	3·8	19·3	67	22·2	Calm		5	20·8	26·0	28·5	21·6	29·6	20·0	9·6	0·0	0	9·2	81
4	965·8	24·5	3·6	18·3	68	20·8	16	0·5	9	19·0	22·7	25·5	20·0	26·5	18·3	8·2	0·0	0	7·0	62
5	969·6	19·9	0·8	18·4	91	21·0	145	8·1	10	19·6	19·5	20·9	18·7	21·2	18·6	2·6	1·8	26	0.8	7
6	972·9	20·7	3·8	13·9	65	15·7	90	7·6	9	18·3	18·3	22·0	19·2	23·1	18·1	5·0	0·0	0	2·4	21
7	973·1	21·1	3·4	15·1	69	17·0	95	5·4	9	18·2	18·8	22·6	18·4	22·6	17·4	5·2	1·6	26	2·7	24
8	972·4	21·1	2·5	16·7	76	18·8	90	3·6	10	18·1	18·5	22·7	19·4	24·2	18·1	6·1	4·2	54	3·8	34
9	970·9	21·8	3·0	16·5	72	18·6	90	4·5	7	19·1	21·1	23·0	19·4	23·0	18·8	4·2	1·6	22	7·1	63
10	969·6	23·0	3·1	17·6	68	19·9	90	8·1	3	19·0	21·7	23·1	20·4	24·1	18·9	5·2	6·9	164	9·3	83
11	970·5	21·4	1·5	18·7	85	21·4	90	8·1	10	20·1	20·0	21·9	19·8	22·0	19·7	2·3	31·7	327	3·4	30
12	970·2	22·1	1·6	19·3	84	22·2	90	8·1	10	19·6	20·0	20·9	20·0	22·4	19·3	3·1	5·2	76	0·5	4
13	970·5	20·1	0·8	18·7	92	21·4	90	8·9	10	19·9	19·0	21·7	20·0	23·6	19·0	4·6	21·4	104	0·5	4
14	968·5	22·3	3·8	15·6	66	17·6	90	11·6	6	18·6	20·5	23·0	19·8	23·0	18·6	4·4	4·3	35	3·3	29
15	968·6	21·3	1·4	18·8	85	21·5	85	8·9	8	18·9	19·7	22·0	20·5	23·0	18·9	4·1	4·3	41	1·6	14
16	969·1	21·5	1·0	19·7	89	22·7	70	7·2	10	20·8	21·0	22·3	21·5	22·4	20·7	1·7	2·0	20	2·4	22
17	969·3	22·7	1·6	19·9	84	23·0	70	7·2	9	21·0	21·0	22·3	20·0	23·8	20·0	3·8	15·3	141	3·6	32
18	969·3	21·4	0·9	19·8	91	22·9	70	4·9	10	20·0	20·5	21·8	19·6	22·0	19·6	2·4	2·0	29	2·8	25
19	968·9	23·3	3·0	18·1	73	20·6	55	3·1	6	17·6	21·2	24·9	19·9	25·0	17·6	7·4	0·0	0	10·0	90
20	969·0	24·3	3·0	19·1	73	21·9	70	4·5	8	20·0	22·0	24·8	21·0	25·5	20·0	5·5	0·0	0	9·1	82
21	969·5	23·8	2·3	19·8	78	22·9	65	1·3	6	20·3	21·7	25·4	20·0	26·0	19·4	6·6	0·0	0	10·3	93
22	969·3	22·9	2·8	18·0	74	20·4	Calm		1	18·8	21·5	26·0	19·0	27·0	17·6	9·4	0·1	1	6·9	63
23	968·1	22·0	1·9	18·7	82	21·4	90	3·6	7	17·0	19·7	25·1	21·0	25·6	15·3	10·3	0·3	2	8·1	74
24	968·2	20·8	0·4	19·1	90	21·9	200	2·7	10	20·8	19·7	21·1	17·7	21·9	17·6	4·3	32·6	185	0·2	2
25	972·4	19·5	3·9	12·4	64	14·3	135	7·6	10	16·6	18·6	19·8	17·0	20·2	16·1	4·1	0·0	0	8·2	75
26	972·2	21·3	4·2	13·9	63	15·7	110	9·4	5	16·3	20·1	19·8	18·6	21·9	16·3	5·6	2·5	44	5·5	50
27	971·4	20·3	0·8	18·9	91	21·6	110	0.5	10	18·8	19·2	19·8	19·8	20·3	18·5	1·8	89·6	576	0·0	0
28	969·6	22·2	1·6	19·4	84	22·3	90	1·3	5	19·0	20·7	23·0	20·0	23·4	18·8	4·6	2·4	20	7·5	68
29	970·5	21·6	2·2	17·7	79	20·1	100	5·8	3	20·0	20·3	22·0	17·0	22·4	17·0	5·4	0·0	0	10·1	92
30	971·7	21·1	2·2	17·2	78	19·4	110	2·7	4	14·9	19·7	21·3	19·7	21·5	13·3	8·2	1·6	13	8·2	75
31	972·3	20·6	2·2	16·7	78	18·8	90	2·7	6	19·0	20·4	21·5	19·5	23·6	18·0	5·6	1·0	6	9·4	85
Mean	969·9	21·9	2·3	17·8	80·9	20·4	...	5·2	7·4	19·1	20·5	22·8	19·7	23·5	18·3	5·2	262·0	2133	5·18	46·6
Average	969·2	21·6	2·1	18·0	80·3	20·6	...	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	+	41·8mbs.	Amount of rain	+	34·6mms.
Temperature of the Air	+	2·5°C	Duration of sunshine	+	33·0hrs.
Vapour Pressure	+	1·9mbs.	Mean of maximum temperatures	+	2·4°C
Relative Humidity	—	7·3%	,, minimum temperatures	+	2·0°C
Velocity of Wind	—	0·3mps	Absolute maximum temperature	—	0·7°C
Amount of Cloud	—	0·4	,, minimum temperature	+	1·5°C
Greatest Rainfall intensity at Vacoas. ...					

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of MAY 1937

Month and Day 1937.	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 (Saturation=100). Mean	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration	Amount of Evaporation.	Mean Amount of Cloud (Scale 0—10)
MAY	mbs.	mbs.	°C	°C	°C	°C	°C	C	°C	°C			mbs.	°C	mms.	min	mms.	
1	1007·6	− 1·1	24·2	20·7	3·5	22·8	− 0·6	1·3	20·5	+ 0·9	87	+ 8	23·9	20·7	28·8	125	5·0	8·9
2	1007·6	− 1·1	27·6	22·0	5·6	24·4	+ 1·1	1·5	21·8	+ 2·3	86	+ 7	25·9	21·8	5·1	40	0·8	6·6
3	1006·3	− 2·5	28·9	20·6	8·3	24·3	+ 1·1	1·3	22·1	+ 2·7	87	+ 8	26·3	19·4	1·0	15	4·4	4·9
4	1006·9	− 2·0	28·7	19·6	9·1	23·5	+ 0·4	2·1	19·9	+ 0·6	80	+ 1	23·0	17·3	0·0	...	3·4	5·2
5	1011·1	+ 2·2	25·1	21·0	4·1	22·7	− 0·3	2·6	18·1	− 1·1	75	− 4	20·6	19·2	0·0	...	4·5	9·5
6	1013·9	+ 4·9	25·4	21·1	4·3	22·6	− 0·3	3·7	16·1	− 2·8	67	− 12	18·1	19·6	0·0	...	4·0	8·5
7	1014·2	+ 5·1	25·6	20·2	5·4	22·7	− 0·1	3·5	16·6	− 2·2	69	− 10	18·7	18·2	0·0	...	4·4	7·0
8	1012·9	+ 3·7	26·1	20·8	5·3	22·9	+ 0·2	2·7	18·2	− 0·5	75	− 4	20·7	19·8	3·1	95	4·4	7·3
9	1011·1	+ 1·8	26·1	21·1	5·0	23·1	+ 0·5	2·7	18·4	− 0·2	75	− 4	21·0	19·0	1·6	40	4·8	7·6
10	1010·5	+ 1·2	26·2	21·0	5·2	23·2	+ 0·7	2·2	19·4	+ 0·9	79	0	22·3	19·2	11·3	95	3·6	6·0
11	1011·1	+ 1·7	25·8	21·9	3·9	23·0	+ 0·6	1·3	20·7	+ 2·3	87	+ 8	24·2	20·8	11·5	310	4·0	7·6
12	1011·1	+ 1·6	25·1	21·8	3·3	23·4	+ 1·0	2·2	19·6	+ 1·2	79	+ 1	22·6	21·0	4·0	75	2·9	9·5
13	1010·4	+ 0·8	25·0	20·1	4·9	23·4	+ 1·1	2·3	19·4	+ 1·1	78	0	22·3	20·1	14·5	80	2·6	8·6
14	1009·1	− 0·6	26·1	20·6	5·5	23·5	+ 1·2	3·1	18·1	− 0·2	72	− 6	20·6	20·5	10·5	50	4·7	8·0
15	1008·9	− 0·8	25·9	20·9	5·0	23·5	+ 1·3	2·4	19·5	+ 1·3	78	0	22·4	20·2	0·8	20	3·6	8·3
16	1010·0	+ 0·2	26·0	22·6	3·4	23·8	+ 1·6	1·9	20·5	+ 2·3	82	+ 4	23·9	20·9	6·5	95	3·3	8·1
17	1010·3	+ 0·3	26·2	22·1	4·1	23·7	+ 1·6	1·7	20·7	+ 2·6	83	+ 5	24·2	21·6	3·0	65	3·3	7·8
18	1009·9	− 0·1	26·0	19·7	6·3	22·8	+ 0·8	1·3	20·5	+ 2·5	87	+ 9	23·9	17·0	7·4	110	2·0	5·5
19	1009·9	− 0·2	26·3	18·8	7·5	22·4	+ 0·4	2·0	18·9	+ 0·9	81	+ 3	21·6	16·0	1·0	10	4·0	2·1
20	1010·5	+ 0·3	26·9	21·1	5·8	23·5	+ 1·6	1·6	20·7	+ 2·7	84	+ 6	24·2	18·3	1·0	15	4·2	4·6
21	1010·5	+ 0·2	27·0	20·0	7·0	23·1	+ 1·2	1·8	20·0	+ 2·0	83	+ 5	23·2	18·8	0·0	...	3·9	2·3
22	1010·0	− 0·3	26·9	18·9	8·0	22·1	+ 0·3	1·9	18·8	+ 0·9	82	+ 4	21·5	16·0	0·2	5	4·0	2·0
23	1008·5	− 1·9	26·2	18·1	8·1	22·4	+ 0·6	1·8	19·2	+ 1·3	82	+ 4	22·0	16·0	0·0	...	3·2	4·0
24	1009·2	− 1·2	24·4	20·8	3·6	22·4	+ 0·7	1·9	19·1	+ 1·3	82	+ 4	21·9	18·0	28·9	160	3·1	9·5
25	1013·6	+ 3·1	24·0	19·5	4·5	21·4	− 0·3	4·6	13·3	− 4·5	60	− 18	15·1	18·8	0·0	...	4·1	3·5
26	1013·2	+ 2·6	24·8	19·6	5·2	21·9	+ 0·3	3·2	16·2	− 1·3	70	− 8	18·2	17·9	0·1	5	4·5	5·4
27	1011·7	+ 1·1	23·2	21·1	2·1	21·8	+ 0·2	0·7	20·6	+ 3·1	93	+ 15	24·0	21·0	156·3	695	4·0	9·6
28	1010·6	− 0·1	26·0	21·0	5·0	22·7	+ 1·2	1·4	20·2	+ 2·8	86	+ 8	23·4	20·0	0·0	...	4·5	4·0
29	1011·9	+ 1·2	25·1	17·1	8·0	21·9	+ 0·4	2·5	17·5	+ 0·1	76	− 2	19·8	14·4	0·0	...	3·4	3·1
30	1012·9	+ 2·1	25·2	14·8	10·4	20·8	− 0·6	2·2	16·9	− 0·4	78	0	19·0	12·1	0·0	..	3·8	2·7
31	1012·9	+ 2·1	25·3	20·0	5·3	22·3	+ 0·9	2·5	17·9	+ 0·6	76	− 2	20·3	18·0	0·0	...	4·1	3·5
Mean	1010·6	+ 0·8	25·9	20·3	5·6	22·8	+ 0·6	2·2	19·0	+ 0·7	79·3	+ 0·9	21·9	18·8	Sum 296·6	Sum 2105	3·8	6·2
Aver.	1009·8	...	25·9	19·1	6·8	22·2	...	2·3	18·3	...	78·4	...	20·8	15·7	95·4	1340	3·8	4·8
column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

GENERAL WEATHER CONDITIONS DURING THE MONTH OF MAY 1937.

Pressure was very variable during this month but in general above normal; well marked anticyclonic conditions prevailed between the 5th and the 13th and again at the end of the month.

Temperature was above normal on almost every day with a few exceptions; the excess was particularly important during the period of the 12th to the 21st.

Humidity was variable, being markedly in defect during anticyclonic weather.

Wind velocity was frequently above the average, the excess being comperatively large during the period of the 11th to the 15th.

Rainfall was very considerably above the average; the total for the month was more than three times the average. The fall observed on tho 27th was 52% of the monthly total.

Excessive cloudiness and a marked shortage of bright sunshine were other noteworthy features.

In respect of wetness, this month was remarkably in contrast to the previous one.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of MAY 1937

Month and Day 1937.	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
MAY	hrs.	%	mp.s.	mp.s.	°C.	°C.	°C.	°C.	0h. 3h. 6h. 9h. 12h. 15h. 18h. 21h. 24h
1	0·0	0	2·8	− 0·5	25·6	26·8	26·5	25·6	c : o : or_0 : oqRR : om : o ; c : b
2	8·8	78	2·9	− 0·4	25·6	26·8	26·2	25·0	or_0r_0 : o : cr : bc : b : bc
3	9·9	88	1·2	− 2·1	25·6	26·8	26·0	25·3	bcr_0 : bc : b
4	9·1	81	1·7	− 1·6	25·6	26·8	26·1	25·8	b : bc : c
5	2·8	25	3·5	+ 0·2	25·6	26·7	26·1	26.0	c : oq : o : c
6	2·6	23	3·9	+ 0·6	25·6	26·7	26·2	25·8	c : bc
7	5·6	50	4·0	+ 0·7	25·6	26·7	26·1	25·3	bc : c : o : c : bc : b
8	4·7	42	4·0	+ 0·7	25·6	26·7	26·0	25·0	bc : or_0 : c : cr_0
9	8·3	74	3·8	+ 0·5	25·7	26·7	25·8	25·1	cr_0 : bc : c : bc
10	9·8	87	4·6	+ 1·3	25·7	26·5	25·8	25·2	bc : bcq : orr
11	7·3	65	3·3	+ 2.0	25·7	26·6	25·7	25·2	bc : bcr_0r_0 : bc qr_0r_0 : $oq_0r_0r_0$
12	0·3	3	5·9	+ 2·6	25·7	26·5	25·6	24·9	oq_0 : bc oq : ogq_0 : oqr_0r_0 : oq
13	0·0	0	6·0	+ 2·7	25·8	26·6	25·6	24·9	oq : oqr_0 : o or_0r_0 : bc : b
14	6·1	54	6·5	+ 3·2	25·7	26·4	25·5	24·7	bc : cq : oqr_0r_0 : o
15	2·3	21	5·6	+ 2·3	25·7	26.4	25·4	24·5	cr_0 : bc : c : cqd_0 : og : c
16	0·6	5	4·7	+ 1·4	25·7	26·4	25·3	24·5	bc : bcd_0 : od_0 : c
17	8·7	78	4·5	+ 1·3	25·7	26·3	25·2	24·6	bc : bcr_0 : c cq : cd_0 : o
18	5·9	53	3·5	+ 0·3	25·7	26·3	25·3	24·8	bc : bcd_0 : crr : bc : b
19	10·2	92	2·0	− 1·2	25·7	26·3	25·3	24·7	b : bd_0 : b
20	9·8	88	2·6	− 0·6	25·7	26·3	25·3	25·0	bcr_0 : bc : bcr_0 : bc : b
21	10·1	91	2·2	− 1·0	25·7	26·2	25·3	25·1	b : bc : bc : b_0
22	8·5	77	1·8	− 1·4	25·6	26·2	25.4	25·2	b_0 : b : bc : $bcgd_0$: b
23	9·0	82	2·3	− 0·9	25·7	26·2	25·4	24·9	b : bc : b : bc
24	0·0	0	2·3	− 0·9	25·8	26·1	25·4	25·0	c : orr : c
25	9·9	90	5·3	+ 2·1	25·6	26·1	25·2	24·5	cq : bc . bq_0 . b
26	5·1	46	4·9	+ 1·7	25·8	26·2	25·0	24·2	b : cq_0 : cqr_0 : c
27	0·0	0	2·7	− 0·5	25·7	25·9	24·6	23·7	c : oRR : orr : e
28	8·5	77	3·3	+ 0·1	25·8	25·8	24·1	23·3	bc : b : bc : b
29	9·7	88	3·3	+ 0·1	25·6	25·7	24·0	23·5	bc : b
30	10·1	92	2·4	− 0·9	25 6	25·8	24·2	23·7	b : bc : b
31	10·0	91	3·2	− 0·1	25·6	25·8	24·2	23·6	b : bc : b : bc
Mean	6·25	56·2	3·64	+0.38	25·67	26·36	25·41	24·79	.....
Average	7·39	66·4	3·26	...	25·61	26·29	25·51	25.03	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF MAY 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1015·1mbs.	at 09·00hrs. / 10 & 21hrs.	on 6th / on 7th	1005·0mbs.	at 17·00hrs. / 15·00hrs.	on 1st / on 3rd
Temperature of the Air	28·9°C	at 12·50hrs.	on 8th	14·8°C	at 06·30hrs	on 30th
Daily range of temperature of the Air ...	10·4°C	...	on 30th	2·1°C	...	on 27th
Temperature of the Dew Point	23·6°C	at 11 & 12hrs.	on 3rd	11·6°C	at 11·00hrs.	on 25th
Daily range of temperature of the Dew Point	8·9°C	...	on 24th	1·2°C	...	on 20th
Minimum on Grass	...	...	...	12·1°C	...	on 30th
Relative humidity	97 6%	at 06·00hrs.	on 24th	48 3%	at 12·00hrs	on 25th
Vapour Pressure	28·8mbs.	at 11 & 12hrs.	on 3rd	13·5mbs.	at 11·00hr.	on 25th
Evaporation in 24 hours	5·0mms.	...	on 1st	0·8mms.	...	on 2nd
Wind Velocity	9·2m.p.s	at 10·00hrs.	on 14th	0.6m.p.s.	...	often
Rainfall in 24 hours	156·4mms.	ending 16hrs.	on 27th	...	...	...
Duration of sunshine	10·2hrs.	...	on 19th	0·0hr.	...	often

Mean Day Temperature of Air, 24·04°C Average 24·08°C Mean Night Temperature of Air 21·64°C. Average 20·58°C

NUMBER OF DAYS OF·—

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

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

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level.)
(The cistern of the barometer is 55·2 metres above mean sea-level.)

MAY 1937.

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour. / Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
Midnight	079	080	076	060	091	127	145	140	121	110	112	121	117	101	091	090	Midnight
1	075	080	071	060	090	130	144	138	116	109	110	119	111	100	087	087	1h
2	073	079	070	059	090	127	141	131	111	103	109	117	110	096	080	083	2
3	066	071	068	057	089	127	139	130	110	099	100	110	102	092	078	081	3
4	063	071	061	052	087	128	136	130	106	098	100	108	101	090	076	082	4
5	068	073	061	051	090	129	139	130	109	095	100	106	100	083	072	088	5
6	070	075	064	057	091	131	140	131	110	100	101	104	101	089	077	091	6
7	074	080	070	060	100	139	148	140	118	103	110	111	105	092	086	100	7
8	078	083	070	064	110	147	149	146	121	110	117	117	111	099	098	106	8
9	090	088	072	070	118	151	150	143	124	112	121	120	116	101	099	110	9
10	096	088	072	071	123	152	151	141	125	115	121	121	116	101	100	109	10
11	103	082	070	070	120	150	149	134	120	111	120	115	111	100	097	106	11
Noon	090	075	062	066	111	141	140	125	112	109	113	114	108	092	092	100	Noon
13h	076	069	056	060	109	135	132	119	105	100	108	106	101	083	087	099	13h
14	071	062	051	060	108	130	130	117	101	092	106	101	096	080	083	096	14
15	074	062	050	060	110	130	130	116	100	091	102	097	095	080	083	099	15
16	069	066	051	065	112	131	131	116	101	091	105	099	092	080	083	102	16
17	050	070	054	070	119	136	135	120	101	092	109	101	096	080	088	103	17
18	059	071	056	077	125	141	140	126	109	099	110	108	099	082	090	107	18
19	071	076	058	085	130	146	142	130	110	108	110	110	100	088	091	110	19
20	076	080	062	090	131	150	150	131	110	111	119	112	104	093	097	114	20
21	082	080	063	090	132	150	151	130	115	115	121	118	107	099	099	116	21
22	081	081	062	090	131	150	150	129	111	120	122	120	109	091	100	113	22
23	080	080	061	090	130	145	148	124	110	115	121	120	106	091	096	111	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour. / Day.	17d.	18d.	19d.	20d.	21d	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d	Mean	Day. / Hour.
Midnight	109	111	101	106	114	110	098	078	121	149	133	110	117	134	131	1010·9	Midnight
1h	102	110	099	104	112	110	096	074	120	147	130	106	117	133	131	1010·7	1h
2	100	101	097	102	110	104	091	071	122	140	125	105	112	131	129	1010·4	2
3	096	098	095	100	106	099	088	069	124	136	121	100	110	138	126	1010·[illegible]	3
4	095	093	093	100	101	095	082	069	126	134	117	099	107	123	125	1009·8	4
5	095	093	091	100	103	096	081	070	128	132	116	098	105	125	127	1009·9	5
6	098	100	095	103	104	099	087	080	131	133	120	100	110	129	131	1010·2	6
7	104	101	102	107	110	100	091	089	137	136	122	104	118	134	137	1010·7	7
8	110	104	108	109	111	104	096	091	140	140	130	110	120	137	140	1011·2	8
9	111	111	114	110	118	110	098	100	146	146	130	115	125	138	147	1011·6	9
10	111	111	110	113	116	110	099	100	148	145	131	115	126	137	146	1011·7	10
11	110	103	102	109	111	105	095	096	144	139	130	111	124	131	139	1011·3	11
Noon	102	100	097	100	104	099	090	090	140	131	120	109	117	124	131	1010·7	Noon
13h	095	091	091	096	097	092	080	088	132	121	122	101	111	120	124	1010·0	13h
14	091	088	086	090	090	087	074	080	129	118	110	098	110	116	120	1009·6	14
15	091	086	085	090	088	084	071	080	128	116	107	096	111	113	117	1009·5	15
16	095	085	086	092	090	087	070	084	129	117	106	099	116	116	116	1009·6	16
17	098	090	091	099	091	091	071	091	131	119	106	100	119	120	119	1009·9	17
18	101	090	098	103	096	094	076	101	135	121	105	103	120	121	122	1010·3	18
19	108	096	102	110	102	100	079	110	141	128	106	109	123	130	127	1010·8	19
20	111	101	109	113	110	105	082	119	147	131	108	110	129	133	130	1011·2	20
21	115	103	110	119	110	108	086	121	150	134	110	111	131	138	130	1011·4	21
22	116	103	110	120	111	105	082	120	151	136	110	117	132	138	130	1011·4	22
23	113	102	110	117	111	101	081	120	150	137	110	119	134	136	130	1011·3	23

TABLE IX.—AMOUNT of CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	May 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean
Midnight	8	8	5	1	9	8	8	3	10	5	7	10	10	5	8	7	6	6	1	3	2	0	2	8	9	1	7	5	3	1	2	5·4
1h	10	10	7	1	10	8	8	3	10	5	6	10	9	6	10	7	8	6	1	3	2	0	2	8	10	1	9	5	2	1	3	5·8
2	9	10	8	1	10	8	7	4	9	3	5	10	9	8	9	5	7	4	1	5	2	0	1	10	9	1	9	3	4	1	3	5·6
3	9	10	6	1	10	8	6	5	8	2	4	10	10	8	6	3	6	2	2	5	2	0	1	10	10	1	9	3	3	1	3	5·3
4	10	10	6	1	10	8	6	5	7	1	9	10	10	6	7	3	4	2	1	7	2	0	1	10	9	1	8	3	4	0	3	5·3
5	10	10	5	2	10	9	7	5	6	5	7	5	10	3	4	7	7	1	2	5	1	1	2	10	9	1	10	2	4	0	3	5·3
6	10	9	5	2	10	8	8	5	7	5	9	5	10	5	4	10	6	8	2	3	1	1	2	10	9	1	10	3	4	1	3	5·7
7	10	9	6	3	10	9	8	7	7	4	8	9	10	6	8	9	6	8	2	3	2	1	4	10	6	2	10	4	6	2	3	6·2
8	10	8	6	5	10	9	8	9	7	4	5	10	10	7	10	8	7	8	1	3	4	1	6	10	2	2	10	4	6	2	3	6·3
9	10	6	6	5	10	9	8	9	7	4	8	10	10	8	8	8	8	9	2	6	5	2	6	10	3	3	10	5	5	3	4	6·7
10	10	7	6	8	10	9	9	8	6	6	6	9	10	8	9	8	8	10	4	7	5	3	8	10	2	5	10	6	5	4	4	7·0
11	10	6	7	6	10	9	10	8	8	6	5	10	10	9	8	9	7	10	4	8	5	3	6	9	0	9	10	7	4	5	5	7·2
Noon	10	4	7	6	10	8	10	7	8	5	6	9	10	10	9	9	7	8	1	6	4	3	7	10	0	9	10	6	2	7	4	6·8
13h	10	5	7	6	10	9	10	8	8	5	6	10	10	8	9	9	8	8	2	5	4	4	6	10	1	10	10	5	3	7	3	7·0
14	10	6	7	5	9	10	10	8	8	7	6	10	10	8	9	10	8	8	2	4	4	3	6	9	0	7	10	8	3	6	3	6·9
15	10	5	8	6	9	9	10	6	8	8	7	10	10	9	10	10	6	10	3	3	3	5	3	9	1	7	10	3	3	5	4	6·8
16	10	8	7	8	9	10	8	8	8	7	9	10	10	9	9	10	10	7	3	4	4	0	3	9	1	8	10	3	3	5	5	7·2
17	10	7	3	8	10	9	8	8	8	7	10	10	10	9	10	10	9	6	3	4	1	4	3	9	1	8	10	3	3	4	3	6·7
18	10	6	3	8	10	8	8	9	9	6	10	10	10	9	10	10	10	3	2	6	1	4	2	9	1	9	10	3	2	3	2	6·5
19	10	5	1	9	10	9	7	9	8	10	10	10	7	10	10	9	8	3	2	5	1	2	3	9	1	9	10	3	2	2	2	6·3
20	9	3	0	9	8	9	3	9	7	10	10	10	5	10	8	9	10	2	2	5	1	2	5	9	1	7	10	2	1	2	8	6·0
21	3	2	1	9	8	8	2	9	7	10	10	10	3	10	8	9	10	2	3	4	0	1	5	9	1	7	10	3	1	1	3	5·5
22	3	2	1	9	8	7	1	8	7	10	9	10	3	10	8	8	10	2	2	3	0	0	5	9	1	8	10	4	1	1	2	5·2
23	3	4	1	9	8	7	1	9	7	9	9	10	3	10	8	8	10	1	2	3	0	0	5	10	1	9	10	3	1	1	4	5·4

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending. \ Day.	May 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total.
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	hrs
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	0	0	25	29	0	0	2	0	0	4	3	0	0	0	0	0	0	0	8	4	0	16	0	0	0	9	0	4	6	5	6	2·0
8	0	10	60	60	0	0	35	0	15	45	28	0	0	20	0	0	45	32	60	60	58	60	13	0	58	60	0	60	32	60	59	15·5
9	0	60	60	60	0	0	55	1	52	60	40	0	0	30	13	6	56	29	60	60	60	60	54	0	60	60	0	60	59	60	60	19·6
10	0	60	60	60	0	0	52	0	60	60	56	15	0	50	42	1	60	0	60	50	60	60	50	0	60	60	0	60	60	60	60	20·3
11	0	60	56	60	0	0	29	10	60	60	60	0	0	57	9	0	60	38	60	60	60	60	60	0	60	23	0	60	60	60	60	19·7
Noon	0	60	60	59	19	33	30	52	60	60	50	0	0	20	4	9	60	52	60	60	60	60	60	0	60	7	0	60	60	60	60	20·6
13h	0	60	50	55	47	55	15	40	60	60	60	0	0	50	46	0	60	48	60	60	60	60	60	0	60	2	0	60	60	60	60	21·8
14	0	60	60	60	55	13	44	58	54	60	58	0	0	60	18	0	60	50	60	60	60	60	60	0	60	33	0	46	60	60	60	22·1
15	0	60	60	60	26	45	1	43	55	60	52	0	0	25	5	0	54	22	60	60	60	60	60	0	60	54	0	31	60	60	60	19·9
16	0	38	33	29	20	6	40	54	58	60	31	0	0	50	0	18	42	30	60	60	60	15	60	0	60	0	0	50	60	60	60	17·6
17	0	48	56	15	0	0	32	26	21	58	0	0	0	4	0	0	28	51	60	52	60	0	56	0	55	0	0	18	59	58	52	13·5
18	0	14	16	0	0	0	0	0	0	3	0	0	0	0	0	0	0	4	4	0	9	0	4	0	0	0	0	0	4	3	5	1·1
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

The total Amount of Registered Sunshine was 193·7 hrs. and the total possible sunshine was 345·2 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*)

MAY 1937.

Day. / Hour.	1d. Air.	1d. Excess of Air over Evap.	2d. Air.	2d. Excess of Air over Evap.	3d. Air.	3d. Excess of Air over Evap.	4d. Air.	4d. Excess of Air over Evap.	5d. Air.	5d. Excess of Air over Evap.	6d. Air.	6d. Excess of Air over Evap.	7d. Air.	7d. Excess of Air over Evap.	8d. Air.	8d. Excess of Air over Evap.	Day. / Hour.
Midnight	23·2	2·0	23·3	1·3	22·6	0·6	20·6	0·8	22·2	2·6	21·1	3·0	21·1	3·1	22·0	2·4	Midnight
1h	23·0	1·8	22·7	0·7	22·4	0·5	20·2	0·8	21·9	2·3	21·8	3·4	21·2	2·6	21·5	2·4	1h
2	22·9	1·7	22·8	0·8	22·9	0·4	20·0	0·9	21·8	2·1	21·2	2·9	20·9	2·9	21·6	2·5	2
3	23·1	1·8	22·9	0·8	22·2	0·3	20·1	0·9	22·3	2·3	21·9	2·9	21·0	2·9	21·1	2·0	3
4	23·1	1·8	22·7	0·8	22·0	0·8	20·0	0·8	22·2	2·0	22·1	3·3	20·2	2·2	21·2	1·6	4
5	23·1	1·8	22·6	0·5	21·3	0·3	19·9	0·7	22·7	2·2	22·0	3·9	20·7	2·8	21·0	1·8	5
6	23·2	1·5	22·8	0·8	21·1	0·3	19·8	0·7	22·8	2·1	21·9	3·9	21·0	3·0	21·3	1·6	6
7	23·3	1·4	22·9	0·9	22·2	0·4	20·1	0·5	22·0	2·0	21·9	3·2	20·9	2·6	21·2	1·0	7
8	24·1	1·9	22·8	0·6	25·0	1·5	23·2	1·1	22·3	1·5	21·8	3·6	23·3	3·2	22·1	2·0	8
9	25·6	1·7	25·3	1·5	26·1	1·8	25·5	2·6	23·4	2·3	22·9	3·8	24·2	3·5	22·3	1·9	9
10	22·1	0·8	26·0	2·2	26·9	2·0	26·5	2·5	24·1	2·9	23·2	4·3	25·0	4·4	24·0	3·7	10
11	20·7	1·0	26·1	2·7	28·1	2·7	27·7	3·0	24·1	3·0	23·6	4·2	24·7	4·4	25·1	5·1	11
Noon	21·2	1·0	27·1	2·9	28·6	3·0	27·6	3·4	25·0	3·3	24·9	5·4	24·8	4·8	26·0	5·9	Noon
13h	22·6	0·9	27·3	3·3	28·1	2·8	28·1	4·0	24·7	3·7	24·9	4·4	25·1	5·0	25·9	4·9	13h
14	23·2	0·9	27·5	3·5	28·1	2·9	28·3	4·4	24·7	4·1	24·3	4·2	25·0	5·2	25·7	4·7	14
15	22·8	0·8	27·1	3·1	27·4	2·5	27·8	3·7	24·2	3·2	24·3	4·4	24·6	5·5	25·0	3·9	15
16	23·1	1·0	26·1	2·5	26·9	2·0	26·3	3·4	23·4	2·9	24·0	4·2	24·7	5·5	24·7	3·9	16
17	23·0	1·0	26·0	2·3	26·2	1·9	26·0	3·6	23·1	3·2	23·2	3·5	23·8	4·3	24·0	3·2	17
18	22·8	1·8	24·4	1·2	25·0	0·8	24·0	2·0	22·6	2·7	22·3	2·6	23·0	3·3	23·5	2·7	18
19	22·4	1·5	24·0	1·0	23·8	0·7	23·1	2·0	21·7	2·0	22·0	2·8	21·9	2·3	23·1	2·5	19
20	22·8	1·5	23·6	0·8	23·1	1·0	23·1	3·1	21·5	2·5	21·3	2·6	21·8	2·5	22·0	2·2	20
21	22·8	1·0	23·2	0·6	22·2	0·3	22·1	2·0	21·2	2·5	21·8	3·6	21·7	2·4	21·9	1·1	21
22	22·7	0·6	23·2	0·5	21·8	0·6	22·1	2·0	21·1	2·8	21·7	3·5	21·6	1·8	22·1	1·2	22
23	22·6	0·8	22·7	0·7	21·1	1·0	21·4	1·6	21·3	3·4	21·9	3·6	21·7	2·6	22·1	1·4	23

Day. / Hour.	9d. Air.	9d. Excess of Air over Evap.	10d. Air.	10d. Excess of Air over Evap.	11d. Air.	11d. Excess of Air over Evap.	12d. Air.	12d. Excess of Air over Evap.	13d. Air.	13d. Excess of Air over Evap.	14d. Air.	14d. Excess of Air over Evap.	15d. Air.	15d. Excess of Air over Evap.	16d. Air.	16d. Excess of Air over Evap.	Day. / Hour.
Midnight	22·2	1·3	21·9	1·8	22·1	1·0	23·0	2·0	23·3	3·2	23·3	2·8	21·0	1·1	23·9	2·4	Midnight
1h	22·1	1·4	21·8	1·3	22·2	1·0	22·9	2·1	23·4	3·0	23·3	3·1	21·1	0·9	23·9	2·2	1h
2	22·1	2·0	21·3	1·2	22·1	0·9	23·1	2·5	23·4	2·5	22·1	1·9	21·8	1·5	24·0	2·3	2
3	22·0	2·2	21·8	1·9	22·2	1·1	23·0	2·9	23·3	2·3	22·1	1·8	22·2	1·3	23·9	2·3	3
4	21·7	2·0	21·2	1·5	22·1	0·9	22·3	2·5	23·4	2·5	22·7	3·1	22·3	1·4	23·7	2·1	4
5	21·3	1·7	22·0	2·2	22·1	1·0	22·0	2·3	23·5	2·5	23·0	3·8	22·6	1·8	23·1	1·9	5
6	21·4	1·8	21·7	2·0	22·5	1·2	22·7	2·4	22·9	1·7	23·0	3·2	22·6	1·7	23·4	2·2	6
7	21·7	1·8	22·1	2·0	22·0	0·9	22·7	1·7	22·1	1·1	23·1	3·4	23·0	2·0	23·7	2·4	7
8	23·2	2·4	22·3	1·4	22·5	0·8	23·0	1·8	22·1	1·1	23·9	3·2	22·1	1·8	23·7	1·7	8
9	24·7	4·4	24·5	3·3	22·8	0·9	23·6	1·7	23·3	1·5	24·4	3·4	23·6	1·6	24·7	2·6	9
10	24·7	4·4	24·7	3·7	24·0	1·4	24·8	2·7	23·9	2·4	25·1	4·9	24·4	2·7	25·2	2·6	10
11	25·2	4·0	25·3	4·3	25·0	2·9	23·9	2·0	24·7	3·6	25·7	4·9	24·2	2·7	25·3	2·9	11
Noon	25·3	3·7	25·8	4·5	24·9	2·8	23·4	1·8	24·9	3·3	25·8	5·1	25·0	3·3	25·4	2·6	Noon
13h	25·9	5·0	26·0	4·3	24·7	2·0	24·7	2·4	24·9	3·3	26·0	5·0	25·1	3·3	23·9	1·8	13h
14	25·0	3·8	26·0	4·1	25·0	2·2	25·1	2·9	24·6	2·7	25·9	5·0	25·1	3·1	25·1	2·6	14
15	25·2	4·1	25·3	3·6	24·1	1·5	25·0	2·9	24·6	2·7	25·2	4·1	24·6	3·3	23·5	1·4	15
16	24·7	3·7	24·9	3·1	24·0	2·0	23·0	1·3	22·5	1·3	25·0	3·9	24·4	2·9	23·5	0·9	16
17	23·7	2·8	24·1	2·6	22·9	1·0	23·1	1·1	22·1	1·1	24·0	3·2	23·8	2·5	23·0	0·8	17
18	22·9	2·1	23·1	1·9	22·4	1·0	22·5	1·2	22·4	1·5	23·6	2·9	23·7	2·5	23·2	1·2	18
19	22·0	1·5	22·2	1·0	22·2	1·1	23·1	1·6	23·0	2·1	22·4	2·3	23·6	2·6	23·2	1·3	19
20	22·0	1·8	22·2	0·5	22·7	0·8	23·5	1·9	23·1	2·3	22·0	1·1	23·8	2·8	23·2	1·2	20
21	22·0	1·7	22·3	0·6	22·8	1·3	23·7	2·5	23·2	2·6	22·1	1·0	23·8	2·9	23·1	1·6	21
22	22·0	1·8	22·2	0·6	22·2	1·1	23·7	2·7	23·0	2·4	21·0	1·1	23·9	2·8	23·1	1·4	22
23	21·9	1·8	22·1	0·9	22·8	1·7	23·2	2·5	23·2	2·2	21·1	1·0	24·0	2·8	22·9	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*)

MAY 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	22·9	1·3	23·0	1·7	19·6	0·9	21.9	0·8	21·9	0.9	20·1	0·9	18·6	1·1	22·3	0·6	Midnight
1h	22·9	1·0	23·0	1·8	19·5	0·9	21·2	0·6	21·8	0·8	19·8	0·8	18·1	0·9	22·2	0·6	1h
2	23·1	1.2	22·8	1·6	19·4	0·9	21·6	0·7	22·0	0·9	19·3	0·7	19·1	1·0	22·2	0·5	2
3	23·0	1·8	22·9	1·3	19·3	0·8	22·1	0·9	22·0	1·0	19·1	0·8	18·9	1·1	22·3	0·5	3
4	22·7	1·4	22·9	1·5	19·2	0·8	22·0	0·7	21·2	0·6	19·1	0·9	19·0	1·0	22·3	0·4	4
5	22·9	1·5	22·8	1·2	19·0	0·8	21·9	0·7	21·0	0·9	19·0	0·9	19·2	1·0	22·2	0·3	5
6	23·0	1·4	22·9	1·3	18·9	0·8	21·7	0·7	20·9	0·8	19·0	0·9	19·2	0·9	21·1	0·2	6
7	22·9	1·1	22·7	0·9	19·6	1·0	22·0	0·9	21·0	0·8	19·5	0·7	19·5	0·9	21·1	0·4	7
8	23·6	1·5	23·5	1·2	22·8	2·0	23·8	1·6	23·2	1·3	22·8	0·9	21·8	0·9	21·6	0·5	8
9	24·8	2·5	22 8	0·7	24·7	2·7	25·0	2·4	24·4	2·1	24·4	1·7	24·1	2·0	22·0	0·7	9
10	25·1	2·5	22·9	0·7	25·4	3·1	25·0	2·4	25·8	3·1	25·2	3·0	25·0	2·7	22.6	0·6	10
11	25·8	3·0	24·1	1·1	25·9	3·7	26·0	3·0	26·1	3·2	26·1	4·0	25·8	3·0	23·1	0·4	11
Noon	25·7	2·9	24·3	1·5	26·0	4·1	26·2	3·2	26·6	3·9	26·3	4·3	26·0	3·5	23·7	0·8	Noon
13h	26·0	3·2	24·6	1·9	26·2	4·1	26·5	3·7	26·8	3·8	26·6	4·2	26·0	3·4	23·8	2·9	13h
14	25·7	2·8	25·2	2·3	26·1	4·1	26·3	3·6	26·3	3·6	26 6	4·2	25·4	3·3	24·2	3·1	14
15	24·8	2·1	24·3	2·0	26·0	4·1	26·0	3·7	26·1	3·4	26·0	4·1	25·6	3·5	24·1	4·1	15
16	23·8	2·8	24·0	1·8	25·2	3·5	25·7	3·1	25·6	3·4	24·9	2·9	25·2	3·1	23·8	3·8	16
17	23·6	1·5	23·5	1·7	24·5	3·1	25·0	2·4	24·3	2·3	23·8	2·1	24·8	2·8	23·1	3·0	17
18	22·5	0·7	22·9	1·7	23·0	1·8	23·5	1·5	22·6	1·4	22.7	1·7	23·3	1·5	22·7	2·8	18
19	22·7	1·0	22·0	1·3	22·0	1·4	22·6	1·2	22·1	1·1	21·6	1·6	23·0	1·6	22·1	2·8	19
20	22·2	0·5	21·5	1·1	21·3	1·2	22·1	1·0	21·6	1·0	20·6	1·4	22·5	1·4	21·9	3·0	20
21	23·1	1·2	20·9	1·0	21·0	1·0	22·1	1·0	20·9	0·9	20·0	1·1	22·5	1·0	21·4	3·5	21
22	23·0	1·2	20·5	1·0	21·6	0·7	22·0	1·0	20·7	0·8	19·4	1·2	22·2	1·0	21·0	3·9	22
23	23·1	1.4	19·7	1·0	21·1	0·8	22·0	1·0	20·6	0·9	19·7	0·9	22·0	0·9	21·1	4·3	23

Day. / Hour.	25d.		26d.		27d.		28d.		29d		30d		31d		Mean		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	20·8	4·7	20·0	3·0	21·2	1·0	21·3	0·4	21·9	1·1	17·8	1·1	20·4	1·1	21·6	1·7	Midnight
1h	21·0	5·1	20·0	3·7	21·2	1·0	21·2	0·4	21·9	1·2	17·6	1·3	21·0	1·2	21·5	1·6	1h
2	20·8	4·5	19·9	3·4	21·2	0·8	21·2	0·5	21·4	1·0	17·8	1·3	20·8	1·0	21·5	1·6	2
3	20·7	4·9	19·8	3·7	21·6	0·8	21·3	0·6	21·6	1·3	17·1	1·1	21·1	1·5	21·5	1·6	3
4	20·5	3·8	20·0	3·6	21·6	0.8	21.1	0·5	21·3	1·1	16 0	1·3	20·9	1·7	21·4	1·6	4
5	20·6	4·4	20·0	2·9	21·5	0·5	21·2	0·5	21·4	1·2	15·2	1·3	20·5	1·5	21·3	1·6	5
6	19·7	3·6	20·6	3.6	21·6	0·5	21·2	0·5	21·2	2·1	15·0	1·3	20·2	1·2	21·3	1·6	6
7	19·7	3·5	21·0	3·7	21·9	0·5	21·2	0·5	21·7	1·7	14·9	1·1	20 0	1·2	21·4	1·5	7
8	21·1	4·3	22·1	4·0	21·6	0·5	22·7	0·9	23·0	2·2	20·2	1·6	22·[illegible]	2·0	22·7	1·8	8
9	24·4	4.7	23·4	4·6	21·6	0·5	24·0	1·7	23·7	2·7	22·9	3·0	23·1	2·4	23·8	2·3	9
10	23 0	5·8	24·0	5.1	22·3	0·3	24·7	2·6	24·1	3·3	23·9	3·6	24·1	3·7	24·4	2·9	10
11	23·1	6·6	24·3	4·3	22·0	0·3	24·8	2·6	24·4	3·7	24·4	4·0	25 0	4·1	24·8	3·2	11
Noon	23·6	6·7	24·4	4·4	23·1	1·0	25·2	3·0	25·0	4·3	24·7	3·9	25·0	4·0	25.2	3·5	Noon
13h	23·9	5·8	24·2	4·1	22·3	0·6	25·0	2·8	25·0	4·7	25·2	4·1	25 0	4·7	25·3	3·5	13h
14	23·4	6·5	24·8	4·7	22·4	0·7	24·6	2·3	24·8	4·6	25·0	4·0	25·0	4·9	25·3	3·6	14
15	23·1	5·9	23·7	3·6	21·8	0·7	25·0	3·0	24·2	4·3	24·7	3·8	24·6	4·4	24·9	3·4	15
16	22·6	4·8	23·1	3·1	21.6	0·6	23·9	2·6	23·6	4·5	24·1	3·1	24·3	3·5	24·3	2·9	16
17	21·5	4·5	22·1	2·3	21·9	0·9	23·3	1·4	22·5	3·5	23·1	2·6	23·3	3·4	23·6	2·4	17
18	20·8	4·0	21·7	2·0	21·6	0·7	22·6	1 5	21·1	2·2	21·8	1·7	22·0	2·4	22·8	1·9	18
19	20·7	4·0	21·0	1·1	21·9	0.7	22·1	1·1	20·0	2·0	21·4	1·4	21·2	2·0	22·3	1·7	19
20	20·8	3·6	21·2	1·2	21·9	0·8	22·0	1·1	19·3	2·0	21·6	1·6	22·0	2·7	22·1	1·7	20
21	20.0	3·7	21·0	1·0	21·2	0·5	22·0	1·0	19·0	2·2	21·5	1·6	21·4	2·1	21·9	1·7	21
22	20·1	3·2	21·0	1.0	21·6	0·6	21·8	1·1	18·7	1·9	21·1	1·3	21·3	1·7	21·7	1·6	22
23	20·2	3·1	21·1	1·0	21·5	0·5	21·8	1·0	17·8	1·7	21·0	1·3	21·2	1·7	21·6	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 MAY 1937.

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 *).*

MAY 1937.

Hour \ Day	1d		2d.		3d. *		4d. *		5d.		6d.		7d.		8d.		9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	3·8	11	3·2	09	1·8	16	0·7	15	2·0	10	2·9	11	2·5	12	4·4	09	4·4	10	2·9	10	3·4	09	6·1	09	5·6	09	6·7	10	5·2	09	4·9
1h	10	2·7	11	2·8	09	1·2	16	1·1	13	1·5	10	2·9	11	2·8	12	2·9	09	4·1	08	2·0	10	3·9	09	6·2	08	5·1	08	6·8	09	4·8	07	5·7
2	10	2·7	11	2·5	09	1·2	16	1·5	13	1·5	11	3·5	11	2·2	11	3·2	09	3·7	08	3·2	10	3·4	09	6·2	08	4·8	09	5·7	09	5·0	08	5·7
3	10	3·3	10	2·1	09	0·7	15	1·6	13	2·5	12	1·8	11	2·3	11	3·0	09	2·9	09	3·9	10	4·0	09	6·3	08	5·0	09	5·3	08	4·4	08	5·5
4	10	3·1	11	2·1	09	1·0	15	1·3	13	2·1	11	3·5	11	2·5	10	2·8	09	2·6	10	4·2	10	3·8	09	5·1	09	5·8	08	5·5	09	5·1	08	5·3
5	11	2·5	11	2·3	09	1·1	11	1·1	13	3·1	11	3·9	11	3·0	12	2·8	09	1·9	09	5·0	09	3·0	11	4·8	09	5·3	08	7·4	09	5·4	08	5·3
6	11	2·1	10	3·4	09	1·0	11	1·4	12	4·7	11	3·9	11	2·4	11	3·5	10	2·3	11	4·1	09	4·8	11	6·4	09	5·4	08	7·2	09	5·0	08	5·1
7	11	2·1	11	4·2	09	0·7	11	0·8	11	2·7	11	3·0	11	2·1	11	2·5	10	1·7	11	4·2	09	4·6	10	6·1	10	5·4	08	7·0	09	5·2	08	4·7
8	10	2·3	11	4·3	09	0·7	11	0·6	13	4·5	10	3·0	10	4·3	10	3·5	10	2·5	11	4·1	09	4·8	09	5·9	08	5·4	06	7·0	06	6·1	08	3·9
9	11	3·7	09	4·5	07	0·9	11	0·6	11	3·9	11	3·7	11	5·1	08	5·0	10	4·5	09	5·0	10	5·1	09	4·8	08	5·8	09	7·0	09	4·9	08	7·3
10	11	4·4	09	4·4	04	1·1	11	1·1	12	6·4	09	4·6	11	6·6	09	3·8	09	5·1	09	6·0	09	7·0	09	6·7	09	7·5	08	9·2	08	7·8	08	6·2
11	09	2·3	09	4·4	31	1·8	r24	2·1	12	4·9	10	4·4	11	6·0	09	4·5	08	5·4	09	6·1	09	7·6	07	6·9	08	8·0	08	8·3	09	5·8	08	5·5
Noon	09	2·7	11	4·1	29	1·8	25	2·2	11	6·4	10	5·5	11	6·6	08	5·5	10	5·4	08	6·8	11	7·4	11	5·7	09	7·1	07	8·4	08	7·0	07	5·6
13h	09	1·5	09	4·0	25	1·8	22	3·2	12	7·0	10	5·9	09	6·1	07	5·7	11	5·7	10	5·9	09	7·2	09	5·9	09	8·2	09	7·8	09	7·4	08	4·5
14	11	2·2	08	3·6	23	2·7	21	4·0	11	6·3	11	6·3	09	6·4	10	5·1	11	5·8	11	6·7	09	7·0	08	6·5	09	5·8	07	7·5	08	7·0	08	5·0
15	09	2·9	08	3·2	24	2·4	21	4·3	12	4·3	11	6·0	09	6·1	11	5·2	01	5·5	09	6·9	09	6·5	08	6·5	09	6·2	08	6·1	08	6·2	06	4·3
16	08	3·7	08	3·1	23	2·2	r08	2·4	13	4·0	10	5·5	09	5·2	09	5·6	11	4·4	09	5·9	09	6·4	09	5·5	10	6·7	08	6·3	08	5·9	04	3·7
17	08	5·8	09	3·7	23	1·3	15	1·8	13	2·6	10	4·1	10	3·8	10	4·5	11	4·3	11	4·6	10	5·0	09	6·1	10	4·6	08	6·0	08	4·5	07	2·9
18	08	3·6	09	1·7	23	0·8	15	2·1	13	2·1	11	3·0	11	3·4	10	4·0	10	2·9	11	4·9	09	4·2	10	5·3	09	5·8	08	5·1	08	5·2	08	4·0
19	09	2·4	09	1·7	23	0·6	16	1·8	12	1·4	10	2·7	10	2·1	10	4·3	09	3·1	11	3·2	10	4·6	09	5·8	09	5·4	09	5·3	09	5·0	08	4·1
20	09	1·7	09	1·5	23	0·6	15	1·9	12	2·0	10	3·0	10	2·3	09	4·5	11	3·6	11	4·0	09	5·0	08	6·2	08	5·7	08	4·7	09	5·7	08	3·3
21	09	2·2	09	1·7	23	0·6	15	1·1	11	2·5	11	3·2	10	2·4	10	3·7	10	2·7	11	3·8	09	5·8	08	6·2	08	5·7	08	4·1	08	5·6	08	2·5
22	09	1·8	09	1·3	23	0·9	15	0·6	11	1·3	11	3·4	11	3·2	10	3·6	10	3·6	11	2·8	08	6·1	09	5·8	09	6·3	08	5·9	09	5·2	08	4·9
23	09	2·2	09	1·3	23	1·1	15	1·7	11	3·4	11	3·5	12	4·9	10	3·1	10	3·6	11	2·9	09	5·3	09	5·7	09	6·4	09	6·9	08	5·6	09	3·9

Hour \ Day	17d.		18d.		19d.		20d.		21d		22d.		23d.		24d. *		25d.		26d.		27d.		28d.		29d		30d		31d		Mean.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	09	3·5	09	3·8	08	2·3	09	2·4	09	1·9	10	1·1	07	1·2	10	1·1	12	4·2	12	3·6	10	3·9	10	2·9	11	3·6	11	0·6	11	1·8	3·2
1h	09	4·2	08	3·6	08	2·9	09	1·0	09	1·9	10	1·3	10	1·1	10	0·7	15	6·1	11	3·9	11	4·4	10	2·2	11	3·1	11	0·6	12	0·9	3·0
2	09	3·9	09	4·0	08	1·3	09	1·7	09	1·8	10	0·9	10	1·5	10	0·7	15	2·3	12	3·4	11	3·8	11	2·9	11	2·8	11	0·6	12	1·0	2·9
3	08	4·3	08	4·0	08	1·3	07	1·7	09	2·7	10	1·1	10	1·7	10	0·7	13	3·1	12	3·4	10	2·5	10	2·7	11	2·9	11	0·7	11	1·8	2·9
4	08	4·1	09	4·7	07	1·8	07	1·3	09	2·0	10	1·7	10	1·4	10	0·6	12	3·0	12	3·8	11	3·8	11	2·4	11	2·5	14	1·3	11	2·4	3·0
5	09	4·4	09	4·2	07	1·0	07	1·3	09	1·8	10	1·4	10	1·6	r01	0·6	12	4·5	11	3·9	12	4·1	11	2·8	11	3·4	14	1·7	10	3·1	3·2
6	08	4·1	08	2·7	07	1·3	07	2·0	09	1·8	10	1·2	10	0·9	r21	1·8	12	5·7	12	4·5	11	2·6	11	2·0	13	1·9	14	1·6	10	2·8	3·2
7	08	3·8	09	4·7	08	1·9	08	2·3	09	1·9	10	1·2	10	1·6	21	1·1	12	5·3	11	4·4	07	1·4	10	2·2	10	2·8	14	1·8	10	2·4	3·1
8	08	4·3	08	4·4	08	1·2	08	3·5	09	2·0	10	1·2	10	1·5	21	0·8	12	5·4	11	4·7	16	2·9	10	2·9	11	3·4	14	2·0	10	2·5	3·4
9	08	5·4	07	4·3	07	2·4	08	4·5	08	2·0	10	2·9	09	3·3	21	0·7	12	6·2	12	5·8	15	3·0	10	3·7	11	5·5	12	3·5	10	3·0	4·1
10	08	5·9	06	4·1	06	3·2	07	4·8	07	2·5	09	2·6	10	4·0	21	0·6	12	8·4	11	6·7	11	3·5	09	4·3	09	5·7	11	4·1	09	4·4	4·9
11	08	5·2	06	4·0	06	2·5	07	3·6	08	2·5	07	2·2	10	4·4	22	1·6	13	7·9	12	6·0	12	3·8	09	4·7	10	5·9	11	3·6	09	5·0	4·7
Noon	07	5·6	05	5·6	05	4·4	08	4·2	07	2·9	08	2·1	10	4·1	r14	2·7	12	7·3	11	5·6	10	3·6	10	4·3	10	5·6	11	3·4	10	5·2	5·0
13h	06	5·0	06	4·0	06	3·1	07	4·0	07	3·3	06	3·1	08	3·9	17	3·3	12	6·0	10	6·2	11	2·5	10	4·4	09	5·6	11	3·8	10	5·1	4·9
14	06	5·8	09	4·3	08	3·1	07	3·9	06	3·8	06	3·1	09	3·5	18	3·9	12	9·0	12	7·3	11	1·9	11	4·1	12	4·9	10	4·1	09	6·1	5·1
15	06	4·5	05	2·4	06	2·7	08	3·8	07	3·2	07	2·7	09	3·7	15	4·1	13	5·9	12	6·0	07	1·8	10	4·7	11	5·5	10	4·4	09	5·1	4·6
16	07	5·0	06	3·0	07	2·2	07	2·8	08	2·4	09	1·9	07	3·3	17	2·3	12	7·4	10	5·7	12	2·2	11	4·2	10	4·4	11	3·4	11	4·3	4·2
17	08	3·9	07	2·3	07	1·5	07	2·3	06	2·1	10	2·0	11	2·4	14	2·3	12	5·8	12	5·0	08	2·3	10	2·6	10	2·8	10	2·9	10	3·9	3·5
18	09	3·0	07	2·9	07	1·1	08	1·3	07	2·0	10	1·3	10	2·2	14	3·7	12	4·4	12	4·4	07	1·0	11	3·2	11	1·5	11	2·2	10	2·0	3·0
19	09	3·7	07	2·8	07	1·1	08	1·9	08	1·7	10	1·2	10	2·0	15	4·7	12	3·8	11	4·0	10	2·0	11	3·1	11	1·1	11	3·0	11	1·8	3·0
20	09	3·8	08	2·3	10	1·3	08	1·8	10	1·1	10	1·2	10	1·5	15	4·3	12	4·1	11	5·2	11	2·0	10	4·1	11	1·7	11	2·1	09	3·2	3·1
21	07	4·0	08	2·2	10	1·8	09	2·1	10	1·8	10	1·2	10	1·8	16	4·0	11	4·0	12	5·5	11	2·8	11	3·0	11	1·4	11	2·3	11	2·9	3·1
22	09	4·0	08	2·1	10	1·4	09	1·4	10	1·5	10	1·5	10	0·7	15	3·4	11	3·5	11	4·9	11	2·2	11	2·8	11	1·3	11	2·2	11	2·5	3·0
23	09	4·2	08	2·5	10	1·3	09	2·1	10	1·1	10	2·6	10	1·0	16	4·8	11	4·6	11	4·1	11	2·2	11	3·1	11	1·2	11	1·4	11	2·7	3·2

TABLE XIII,—WIND FREQUENCY (NUMBER OF OBSERVATIONS), MAY 1937.

	Force (0-12)			Direction																
Hour	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W	W.S.W.	W.	W.N.W.	N.W.	N.N.W
3	...	2	29	...	...	...	...	13	8	9	...	1	...	..	...	...	...	...	...
9	...	6	25	..	.	...	...	15	5	9	...	1	...	1	...	...	...	...	...
15	...	12	19	.	...	1	3	15	3	6	...	1	...	1	...	1	...	..	...
21	...	5	26	..	.	...	...	11	7	10	...	2	...	...	...	1	...	...	...
Totals	...			...	...	1	3	54	23	34	...	5	...	2	...	2	...	..	...

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for MAY 1937.

Hour \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	2·0	...	...	..	...	.	..	1·6	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	..
2	...	0·2	...	...	...	...	...	...	...	...	..	..	...	...	0·2	...	...	...	...	...	..	...	..	..	...	...	...	...	...	...	...
3	...	0·5	1·0	...	...	...	...	...	...	..	..	...	...	...	...	...	0·1	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...
4	...	...	..	..	..	...	.	...	...	...	1·7	...	..	..	...	...	...	...	...	0·6	...	...	...	...	...	...	0·6	...	...	...	...
5	..	...	..	...	..	...	...	...	...	..	0·2	...	...	...	...	0·2	0·2	...	...	...	...	...	...	4·7	...	...	4·8	...	...	...	...
6	...	...	..	...	..	..	...	...	...	...	0·1	...	0·7	...	...	...	...	0·1	...	...	...	...	...	10·3	...	..	27·5	...	...	...	..
7	...	...	...	...	...	...	..	1·0	...	...	1·3	.	0·3	...	...	...	0·5	...	..	...	...	...	..	10·0	...	...	2·0	...	...	...	...
8	..	2·4		...	.	...	...	...	...	...	...	...	..	...	...	...	...	...	1·0	...	.	...	...	2·0	...	...	20·0	...	...	...	...
9	0·2	...	...	...	...	...	..	0·2	...	...	0·7	...	5·0	...	...	...	0·1	0·2	..	...	...	...	..	1·0	...	...	23·5	...	...	...	...
10	22·3	...	...	...	...	..	...	..	...	...	0·2	...	...	..	...	...	...	5·8	...	...	...	...	...	0·9	...	...	12·9	...	...	...	...
11	6·3	...	...	...	...	...	...	...	...	...	0·3	..	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	15·0	...	...	...	...
Noon	...	...	...	...	...	..	...	...	...	...	0·2	...	...	...	...	...	...	0·3	...	0·2	...	...	...	...	...	...	10·0	...	...	...	..
13h	...	...	...	...	...	...	...	..	..	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10·0	...	...	...	...
14	...	..	...	...	...	...	...	...	..	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5·0	...	...	...	...
15	...	...	..	...	...	..	...	...	...	...	0·1	...	...	..	0·1	0·2	0·9	0·4	...	...	...	...	...	...	...	...	15·0	...	..	..	..
16	...	...	...	...	...	...	...	...	...	...	..	1·8	7·5	...	...	1·4	...	...	...	...	...	...	...	...	...	...	10·0	...	...	...	...
17	...	...	...	...	...	...	..	...	...	...	1·7	0·2	0·9	...	...	4·7	...	...	...	...	...	0·2	...	...	.	...	...	...	...	...	...
18	...	...	...	...	...	...	...	..	...	...	0·5	2·0	0·1	...	...	...	0·9	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	3·8	...	...	...	0·5	...	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	1·2	0·8	...	...	5·0	...	...	...	...	...	...	...	...	...	...	...	..	...	.	...	...	...
21	...	...	...	...	...	..	...	0·1	...	3·2	1·5	...	...	5·0	...	...	0·3	...	...	...	...	...	..	...	...	0·1	...	...	...	...	...
22	...	...	...	...	...	...	...	0·2	...	2·1	0·7	...	...	...	...	. .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	1·0	0·3	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	..	...	1·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR MAY 1937.

Hour \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	0·2	...	...	...	...	...	...	0·4	...	...	...	...	0·3	0·7	0·4	...	...	...	..	...	...	...	...	...	...	0·2	...	...	...	0·2
2	..	0·8	...	...	...	...	...	...	...	0·2	...	...	...	1·0	0·5	0·2	...	...	...	...	...	...	...	...	...	...	0·1	0·8	...	...	0·8
3	...	...	...	...	...	...	...	...	...	..	0·5	...	...	...	...	...	0·4	...	...	...	...	...	.	..	...	...	...	...	...	...	...
4	...	..	...	...	..	...	..	0·1	...	...	0·5	...	0·1	0·2	0·3	0·7	0·2	...	...	...	...	0·1	0·1	...	...	...	1·8	...	...	...	...
5	...	...	...	...	...	...	...	0·1	...	...	0·6	...	...	...	1·0	0·1	0·4	...	...	...	...	...	...	1·0	...	...	6·6	...	...	...	...
6	..	...	...	...	...	...	...	0·6	...	...	0·5	...	...	...	...	...	0·5	...	...	...	...	...	0·2	9·2	...	...	6·2	...	...	...	...
7	...	...	...	...	0·2	...	...	...	...	...	2·8	0·1	3·0	...	...	...	...	0·2	...	...	...	...	...	18·1	...	...	32·0	...	...	...	...
8	...	...	...	...	0·5	...	...	...	...	...	2·4	0·1	14·0	...	...	...	0·6	...	...	...	...	...	...	3·2	...	...	2·9	...	...	...	...
9	0·2	...	...	...	0·5	...	0·2	0·8	...	...	3·8	0·8	1·2	...	...	...	...	0·2	...	...	...	...	...	0·3	...	...	2·8	...	...	...	...
10	8·6	...	...	...	0·4	...	...	...	...	...	4·4	...	0·6	..	0·1	...	0·3	...	...	...	...	...	...	...	...	...	4·9	...	...	...	...
11	7·0	...	...	...	0·2	...	...	...	...	...	1·3	...	...	...	0·8	...	...	0·1	...	...	...	0·1	...	0·2	...	...	12·2	...	...	...	...
Noon	10·9	...	...	...	..	..	...	...	...	...	0·1	0·8	...	...	...	...	0·7	0·8	...	...	...	...	...	0·4	...	...	4·7	...	...	..	...
13h	1·9	...	...	...	...	...	...	...	...	...	0·4	0·7	...	...	...	...	1·8	0·4	...	...	...	...	...	...	...	..	3·3	...	...	0·1	...
14	...	...	...	...	...	...	...	...	...	...	0·2	0·2	0·3	...	...	0·1	0·4	...	...	...	...	...	...	...	...	...	1·9	...	...	0·1	...
15	..	...	...	...	..	...	...	...	...	...	0·3	0·2	0·4	...	...	0·1	0·2	0·3	...	...	...	...	...	...	...	...	1·7	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	3·5	0·3	...	...	...	0·1	0·6	...	...	...	...	...	...	...	...	...	5·3	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	1·0	0·1	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...
18	...	...	...	...	...	...	...	...	...	..	3·3	1·4	0·3	0·2	0·5	...	0·7	...	...	...	...	..	...	0·1	...	...	1·2	...	...	...	...
19	...	...	...	...	...	...	0·5	...	...	0·3	3·0	0·4	0·1	0·3	0·4	0·1	0·9	..	...	...	...	...	...	...	...	0·3	...	0·2	...	...	...
20	...	...	...	...	...	...	0·1	1·2	0·4	1·0	1·4	...	..	0·2	...	...	1·4	...	...	...	...	...	...	0·1	...	0·5	...	0·3	...	...	...
21	...	...	...	...	...	...	...	0·8	0·7	0·9	1·3	...	0·2	0·2	...	0·1	5·8	...	...	...	..	...	...	...	..	0·6	0·2	0·7	...	...	...
22	...	...	...	..	...	.	...	0·2	...	2·3	...	...	0·3	0·4	...	0·1	...	..	...	...	...	...	...	...	...	0·6	0·2	0·4	...	1·4	...
23	...	...	...	...	...	...	0·5	0·4	.	2·2	0·4	0·1	0·7	0·4	..	...	...	...	...	...	...	...	...	...	...	0·3	0·1	...	...	...	...
24	...	...	...	...	..	...	0·3	...	0·1	...	...	...	0·2	1·1	...	...	...	...	...	...	...	...	...	...	...	0·2	0·4	...	...	...	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for MAY, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	6.30	...
	St. Antoine	50	11.52	292.6	4.41	16
	Bel Mont	50	14.21	360.9	4.27	16
	Poudre d'Or	20	15.25	387.4	4.22	18
	Mon Loisir (S.E.) ...	300	13.32	338.3	5.93	12
	Forbach	300	9.24	234.7	4.63	16
	Couroupa	...	8.98	228.2	7.08	15
	* Labourdonnais	290	9.45	240.0	4.90	15
	Mapou Water Office ...	...	9.45	240.0	...	15
	Beau Séjour	300	12.06	306.3	6.13	20
	Mont Piton	650	11.04	280.4	5.64	17
	Mon Choix	700	14.31	363.5	5.18	19
	Antoinette	640	...	...	6.13	...
	Mon Songe	620	14.45	367.0	6.29	15
	Botanical Gardens ...	325	14.61	371.1	4.57	24
	* The Observatory ..	179	11.68	296.6	3.92	20
	Solitude	175	...	...	3.62	...
	St. André (Cour) ...	90	8.99	228.3	4.10	12
	La Nicolière	...	15.59	396.0	9.63	17
	California	...	17.44	443.0	...	14
	Australia	..	15.72	399.3	...	15
2 & 3	Union Régnard (Flacq S.E.) ...	600	13.25	336.6	7.66	19
	Constance d'Arifat (L.S.) ...	100	16.31	414.3	5.93	18
	Rich Fund	600	11.51	292.4	8.61	19
	La Joffrette	...	11.51	292.4	...	15
	Belle Vue (Allendy) ...	...	13.01	330.5	7.62	17
4	Sans Souci	900	22.93	582.4	13.54	25
	Beau Champ (G.R.S.E.) ...	20	6.71	170.4	5.79	20
	Olivia	400	17.71	449.8	10.30	23
	Trois Ilots	...	9.90	251.5	..	22
	Belle Rive	400	22.38	568.5	13.65	24
	Sébastopol	700	17.88	454.2	...	16
	Bonne Veine	400	16.59	421.4	10.27	19
5	Rose Belle	850	24.36	618.7	14.83	24
	New Grove	650	23.00	584.2	14.93	21
	Mon Trésor	...	12.58	319.5	...	17
	Mon Désert (Carié) ...	75	9.63	244.6	7.10	20
	Ferney	20	...	...	9.45	...
	Sauve Terre	...	9.26	235.2	...	19
6	Tivoli	1,300	20.77	527.6	13.67	27
	La Flora	1,050	27.46	697.5	14.06	25
	Riche Bois (Brit.) ...	650	17.67	448.8	8.92	24
	Britannia (Estate) ...	700	17.77	451.4	10.55	24
6	Savannah (Mill) ...	200	10.35	262.9	7.87	19
	St. Aubin	300	9.97	253.2	6.75	21
	St. Avold	900	22.44	570.0	11.59	25
	Colmar	400	19.85	504.2	8.30	24
	Union (S.E.)	...	10.97	278.6	7.17	19
	Fontenelle	320	12.76	324.1	7.24	19
	Choisy	200	6.83	173.5	7.11	16
	Beau Bois	...	17.30	439.4	...	22
	Bel Air	...	11.89	302.0	6.74	17
	St. Félix	...	14.88	378.0	...	14
7,8,9&10	Bel Ombre	40	...	...	6.16	...
	Beau Champ (3 du Cap) ...	70	...	...	5.83	...
	Frédérica	...	...	...	6.84	...
	Pierre Fonds	...	6.45	163.8	4.43	18
	St. Marie	...	...	...	...	...
	Hussonia	...	...	...	...	...
11	Curepipe Gardens ...	1,840	20.55	522.0	9.58	31
	Mare aux Vacoas (G.E.) ...	1,850	17.27	438.7	13.23	23
	Mare aux Vacoas (Arn) ...	1,830	20.38	517.7	12.74	23
	La Marie Filter Beds ...	1,700	15.70	398.8	8.48	20
	* Sophie	...	16.90	408.7	...	22
	Réunion	1,420	11.74	298.2	6.46	21
	* Aerological Station ...	1,393	10.32	262.0	7.75	23
	Phoenix	...	9.19	233.4	...	13
	Quatre Bornes ...	...	7.06	179.3	...	12
12	Quatre Bornes (Board) ...	1,090	7.96	202.2	...	11
	* Le Réduit (D of A) ...	1,000	8.13	206.4	3.60	27
	Alma	1,460	15.87	403.1	10.15	16
	Bagatelle	1,250	14.82	376.4	5.31	19
	Highlands	1,300	13.24	336.3	6.11	19
	Trianon	950	8.15	207.0	4.00	14
	Val Ory	1,100	...	...	4.50	...
	Bassin	...	6.76	171.7	4.90	15
	Hermitage	1,450	20.05	509.3	9.65	19
	Ebène	...	8.82	224.0	...	17
	Béga	...	6.17	156.7	...	16
	Mon Rêve	...	8.51	216.2	...	17
	Mon Pevril	...	8.90	226.1	...	15
	Minissy	1,150	9.54	242.3	5.30	17
	Plaisance	...	12.40	188.0	...	18
	La Ferme	350	4.57	116.1	3.30	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 MAY 1937.

Day.	Time	Scud Dir.	Scud 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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	..	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	..	...	...
3	...	.	...	...	...	...	...	...	...	..	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	..	...	..	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	..	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	..	...	...	...	...	...	...	...	...	...	...	...	...
14	..	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	..	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	..	..
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	..	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	..	...	...	...	...	...	...	...	...	...	...	...
23	10	...	...	90	...	330	5·6	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	..	...	...	...	...	...	...	...
26	...	..	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	..	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	.	...	...

Day.	Time	Scud Dir.	Scud 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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	.	...	...	...	...	...	...
2	...	...	..	...	...	...	...	...	...	...	...	...	...
3	14½	270	16·0*	270	12·9*	...	...	...	...	...	...	...	...
4	14½	...	...	233	3·8*	295	4·2*	...	...	...	...	...	...
5	14¼	...	...	120	19·0*	300	5·5*	...	...	...	...	...	...
6	14¼	...	...	...	...	...	...	...	...	270	2·4*	295	5·2*
7	...	..	.	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	..	...	...	...	...	...
9	...	...	...	...	...	...	...	...	..	...	...	...	...
10	14¼	113	27·4*	120	14·2*	283	2·8*	...	...	...	...	...	...
11	...	...	...	..	...	...	...	...	...	...	. .	...	...
12	14¼	...	...	83	8·1*	...	...	...	...	...	...	...	...
13	...	...	..	...	...	...	...	...	...	...	...	...	...
14	14¼	90	20·1*	75	12·8*	...	...	285	0·8	...	...	. .	...
15	14¼	...	..	90	12·4*	...	...	...	...	...	...	...	...
16	...	...	...	.	...	...	...	...	...	...	...	...	...
17	14¼	60	43·0*	60	30·5*	...	...	...	...	70	5·9*	...	...
18	14¼	90	31·4*	...	...	60	11·8*	...	...	83	5·6*	...	...
19	14¼	65	5·5*	90	6·7*	...	...	...	...	...	...	...	...
20	14¼	68	10·8*	60	8·8*	...	...	...	...	...	..	...	...
21	14¼	...	...	90	4·1*	...	...	...	...	...	...	...	...
22	...	...	..	...	...	...	...	...	...	...	...	...	...
23	14½	55	11·6*	30	11·8*	...	...	...	...	...	...	...	...
24	...	...	...	...	...	..	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...
26	14¼	113	27·0*	120	21·4*	360	4·2*	...	...	...	...	...	.
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...
29	14¼	135	14·6*	150	20·7*	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	..	...
...	14¼	110	18·7*	100	10·7*	...	...	...	...	...	...	...	...

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.

245/2/38—R.A.O. 250.

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RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

JUNE, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

Published by Authority of His Excellency the Governor

PORT LOUIS

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1938

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF JUNE, 1937

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 1 γ)	Daily Range† Vertical Force (Unit 1 γ)	HRz : 10000	ZRz : 10000
JUNE	° ′			′				
1	13 21.9	.22461	.29738	6·2	31	29	69	86
2	22·2	446	735	5·7	38	26	85	77
3	22·1	474	731	7·0	30	43	67	128
4	22·4	477	732	6·8	31	15	69	45
5	22.2	...	733	5·0	...	21	...	62
6	...	...	741	...	..	25	...	74
7	22·3	431	739	6·8	72	29	162	86
8	21·5	445	733	6·3	55	49	124	146
9	22·5	457	731	6·0	38	32	85	95
10	22·2	478	723	5·3	67	32	151	95
11	22·4	473	724	8·3	24	35	54	104
12	21·5	473	726	7·2	18	29	39	86
13	22·1	439	725	12·5	40	21	90	152
14	22·1	472	727	9·5	52	36	117	107
15	21·9	475	722	9·5	26	38	58	113
16	22·6	479	726	7·8	21	23	47	68
17	21·9	470	726	8·7	36	17	81	51
18	22·0	472	726	6·7	29	33	65	98
19	22·5	479	722	7·5	30	36	67	107
20	22·0	476	722	9·5	67	30	151	89
21	22·3	463	724	6·5	55	42	124	125
22	22·0	461	719	5·5	48	41	108	122
23	21·9	466	721	6·5	38	33	85	98
24	22·7	468	724	6·5	33	23	74	68
25	22·3	465	725	4·5	29	22	65	65
26	22·1	474	727	3·6	22	17	50	51
27	22·0	484	722	3·8	80	33	180	98
28	22·2	456	726	4·7	45	18	101	53
29	22·2	473	724	5·0	21	24	47	71
30	22·4	477	723	4·3	17	29	38	86
...	...	...	...	...	...	...	...	...
Mean	13°22·15	·22467	·29727	6·66	39·0	28·5	87·6	90·2

Description of the Principal Magnetic Disturbances.

Declination.— 6d. Slightly disturbed—small irregular pulsations on the trace at times.
10d. Small pulsations on the trace between $9^{h.}$ and 14h.
13d. Somewhat disturbed from $12^{h.}\ 50^{m.}$ to $16^{h.}$
20d. and 21d. Small irregular pulsations at times on the trace.
27d. and 28d. Small irregular fluctuations in the trace.

Horizontal Force.— 3d. Very slightly disturbed.
4d. Second half—beginning of a very moderately disturbed period ending on 7d. Considerable increase in range on 6d.
10d. Sudden commencement at $9^{h.}\ 10^{m.}$ with an increase of 35γ of a short-lived disturbance, ending at $14^{h.}$ Small rapid oscillations in the trace between $9^{h.}$ and $14^{h.}$
13d. $12^{h.}\ 50^{m.}$ Sudden commencement of a short and very moderate disturbance, ending at $16^{h.}$
15d. Very slightly disturbed.
17d. and 18d. Very slightly disturbed.
20d., 21d. and 22d. Slightly disturbed. At 22d. $14^{h.}$, positive wave of 15γ.
27d. Sudden commencement at $6^{h.}\ 45^{m.}$ of a moderately disturbed period ending during the first half of 28d.
31d. Irregular fluctuations on the trace. At $19^{h.}\ 20^{m.}$ sharp positive wave of 27γ. From $22^{h.}\ 15^{m.}$ to $23^{h.}\ 00^{m.}$ large positive wave of 35γ.
28d. $0^{h.}\ 30^{m.}$ to $2^{h.}\ 00^{m.}$ positive wave of 20γ.

Vertical Force.— 4d. Slightly disturbed during second half. This is the beginning of a very moderately disturbed period ending on 7d.
10d. Sudden commencement at $9^{h.}\ 10^{m.}$ of a short and very moderate disturbance ending at $14^{h.}$
13d. Very slightly disturbed from $12^{h}\ 50^{m.}$ to $16^{h.}$
20d., 21d. and 22d. Slightly disturbed.
27d. and first part of 28d. moderately disturbed. Sharp oscillations of the order of 10γ at times on the trace.

T=·37262 : Mean Dip=53° 55·13′ : (X=·21858 : Y=−·05195 : Z=·29727).

† 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 JUNE 1937.

Declination (West)		Horizontal Force		Dip (South)		Resulting Vertical Force
Day and Hour	Observed Value	Day and Hour	Observed Value	Day and Hour	Observed Value	
d h m	° ′	d h m		d h m	° ′	
1·10.37	13·23·8	2· 9·37	·22487	1.10.24	52.56.06	·29746
8·15·05	13·18·2	5· 9·36	·22504	8·14·54	52·55·56	·29694
15·11·40	13·23·5	12· 9·39	·22463	15·11·30	52·54·75	·29724
25·14·25	13·19·0	16· 9·48	·22491	22·14·17	52·52·69	·29692
		24·12·08	·22475			
		26·12 51	·22473			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

JUNE 1937

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	22·5	22·5	22·5	22·3	22·5	20·5	22·7	22·5	21·7	21·7	21·7	21·5	21·7	22·7	22·0	22·5	Midnight
1h	22·3	22·3	22·0	22·0	22·5	21·7	22·0	22·5	22·3	22·0	22·0	21·7	22·2	22·5	22·0	22·3	1h
2	22·0	22·3	21·0	22·0	22·7	21·5	22·5	22·2	22·0	22·0	22·5	21·7	22·5	22·5	21·7	22·5	2
3	21·5	22·0	22·0	22·2	22·5	21·5	22·0	21·7	22·0	22·2	22·7	21·7	22·5	22·5	21·8	22·3	3
4	21·0	22·0	22·3	22·3	22·5	20·0	20·0	21·5	21·5	22·5	23·0	22·0	22·7	22·7	22·0	23·0	4
5	21·7	21·7	21·5	22·4	22·5	19·7	21·0	20·7	22·3	22·3	23·0	22·3	23·0	22·7	22·0	22·3	5
6	21·5	21·5	21·7	22·3	22·3	20·0	21·0	21·0	22·0	22·0	23·3	22·5	23·3	25·0	22·0	21·5	6
7	20·0	19·3	21·0	21·0	20·5	20·3	19·7	19·5	20·5	21·3	22·0	22·7	22·7	21·5	21·3	21·5	7
8	20·7	20·0	21·0	22·0	21·0	20·7	19·8	18·7	21·0	22·0	23·2	23·5	23·0	22·3	22·3	23·0	8
9	22·3	23·0	23·0	24·0	22·5	22·5	22·0	21·0	23·0	25·0	26·0	25·0	24·0	24·0	24·5	24·5	9
10	23·0	25·0	24·5	26·5	24·5	20·5	25·0	23·5	25·7	25·3	27·0	25·5	26·0	26·5	26·0	26·5	10
11	24·5	25·0	25·0	26·0	24·3	21·7	26·5	24·0	26·5	24·7	26·0	23·0	25·8	25·5	25·0	26·3	11
Noon	24·0	24·5	24·7	24·3	23·5	21·5	26·5	24·3	26·0	23·0	23·5	21·0	24·5	23·0	22·5	26·3	Noon
13h	22·0	23·5	24·0	21·5	22·5	21·5	24·0	22·0	25·0	21·7	20·7	18·5	21·0	19·5	20·5	22·5	13h
14	20·3	21·0	22·0	20·5	21·3	20·0	22·0	20·0	21·5	20·3	19·0	16·3	17·0	17·0	19·0	19·5	14
15	18·3	20·0	19·0	20·0	19·5	19·7	20·7	18·5	20·7	20·0	18·7	16·5	13·5	17·5	16·5	18·7	15
16	19·7	19·7	18·0	19·7	19·5	20·0	20·0	18·0	20·5	20·0	22·2	18·0	17·0	19·0	18·5	19·0	16
17	21·0	20·5	20·5	21·0	20·0	20·0	20·7	20·5	21·5	21·5	21·0	20·5	21·0	21·0	20·5	21·0	17
18	22·7	21·7	22·0	22·0	21·7	20·5	21·5	22·0	22·0	22·2	21·7	22·0	22·3	22·0	22·0	22·0	18
19	23·5	22·5	22·7	22·0	22·3	22·5	22·7	22·3	22·3	22·5	22·5	22·3	22·0	22·3	22·5	22·5	19
20	23·5	22·7	22·7	22·7	22·3	23·5	23·0	22·5	22·7	22·7	22·7	22·5	23·0	22·5	22·7	23·0	20
21	23·0	23·0	23·0	23·5	23·0	23·5	23·5	22·3	22·7	22·5	22·7	22·3	22·7	22·7	22·5	23·0	21
22	23·0	23·3	23·0	22·7	24·0	23·7	23·5	22·2	22·5	22·3	22·5	22·0	22·7	22·5	22·5	23·0	22
23	22·7	22·7	22·5	22·3	23·5	23·5	23·0	22·0	22·0	22·2	19·8	22·0	23·0	22·3	22·3	22·7	23

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.		Mean	Day / Hour
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	22·5	22·3	22·7	22·5	23·7	22·0	22·5	22·0	22·3	22·5	22·3	22·7	22·5	22·5	...	22·3	Midnight
1h	22·3	22·7	22·7	22·7	23·0	22·3	21·7	22·3	22·0	22·0	22·0	21·0	22·2	22·3	...	22·2	1h
2	22·0	22·5	23·0	22·5	24·0	22·3	22·7	22·5	22·5	22·0	22·3	24·2	22·0	22·0	...	22·4	2
3	22·5	22·5	23·0	22·5	23·5	22·3	21·5	22·5	22·5	20·7	22·3	23·0	22·0	22·0	...	22·2	3
4	22·7	22·7	23·0	22·5	23·5	22·0	21·5	22·5	22·5	21·7	22·5	23·0	22·5	22·0	...	22·3	4
5	22·0	22·3	22·5	22·3	22·0	21·5	21·0	22·3	21·7	22·0	22·3	22·5	22·5	22·3	...	22·1	5
6	22·0	22·0	22·2	22·3	20·3	21·0	21·3	22·0	21·0	22·0	22·0	22·7	24·5	22·3	...	22·0	6
7	21·5	20·3	22·0	21·5	19·0	20·3	20·0	22·5	20·3	21·0	20·4	21·0	20·5	21·5	...	20·9	7
8	23·3	21·0	22·7	23·5	20·0	21·5	21·0	22·7	21·0	21·5	20·5	20·0	20·7	21·0	...	21·5	8
9	24·5	22·5	25·5	26·0	20·5	23·0	23·0	25·0	23·5	23·0	22·0	21·0	23·0	22·3	...	23·4	9
10	26·0	25·0	27·0	26·0	24·0	24·0	25·0	27·0	24·5	24·3	23·0	23·0	24·5	24·0	...	25·1	10
11	22·5	25·3	26·0	24·5	25·5	22·7	25·0	26·5	24·5	23·7	23·5	24·0	24·3	24·3	...	24·8	11
Noon	21·5	24·5	23·5	21·0	25·5	22·7	23·0	24·3	23·5	22·7	22·3	23·3	23·7	24·3	...	23·7	Noon
13h	20·3	22·5	20·5	16·5	24·3	20·0	20·5	22·5	21·5	20·3	21·0	20·5	22·0	23·0	...	21·6	13h
14	18·3	20·0	20·3	16·7	22·2	18·5	20·0	21·0	20·0	20·0	20·3	20·0	20·0	21·5	...	19·8	14
15	19·5	18·3	19·5	16·5	20·0	18·5	18·5	20·5	20·0	19·7	20·0	19·5	19·5	20·3	...	18·9	15
16	17·3	18·7	19·5	17·7	20·0	19·5	20·0	20·5	20·3	20·5	19·5	20·0	19·5	20·0	...	19·3	16
17	20·5	20·0	20·5	21·0	21·5	21·5	22·0	20·7	22·0	22·0	21·5	22·0	21·0	21·5	...	21·0	17
18	22·0	21·0	21·3	22·3	22·3	23·0	22·7	22·0	23·0	22·7	23·0	22·7	22·5	22·5	...	22·2	18
19	22·3	21·7	22·0	22·0	22·5	23·0	23·0	22·5	23·0	23·3	23·0	23·3	22·7	22·7	...	22·6	19
20	22·5	22·3	22·3	22·5	22·5	23·5	23·0	22·5	23·3	23·5	23·3	24·0	23·3	23·5	...	22·9	20
21	23·0	22·5	22·3	23·0	22·3	23·8	22·7	22·7	23·5	23·3	22·5	23·8	23·7	23·5	...	22·9	21
22	22·5	22·7	22·5	22·5	22·3	24·0	22·5	22·3	23·0	23·0	23·0	23·5	23·5	23·3	...	22·9	22
23	22·7	23·0	22·7	24·0	22·2	23·7	22·3	22·3	23·0	22·3	22·5	22·7	23·0	23·0	...	22·6	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)

JUNE 1937.

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day
	·22000 + (C.G.S. UNIT).																
Midnight	453	459	461	472	475	...	405	417	449	459	463	470	427	446	467	475	Midnight
1h	457	455	457	472	472	...	427	423	445	462	463	470	428	450	469	477	1h
2	455	457	475	471	473	...	423	426	445	466	465	471	425	452	468	480	2
3	456	460	470	475	472	...	423	431	450	469	468	475	429	453	470	475	3
4	467	462	470	477	476	...	428	433	467	472	471	477	429	457	472	473	4
5	468	467	475	480	479	...	439	445	460	473	473	478	430	462	473	477	5
6	469	470	480	487	478	...	439	450	459	479	473	479	431	463	478	483	6
7	470	477	481	492	481	...	449	457	463	487	480	480	437	473	481	483	7
8	478	485	486	497	490	...	453	465	463	486	483	480	441	479	483	492	8
9	475	489	487	492	492	...	460	472	467	500	485	477	438	485	482	485	9
10	469	490	484	489	491	431	462	467	473	526	483	476	539	498	493	491	10
11	467	487	478	487	488	418	465	465	478	520	480	475	440	486	475	492	11
Noon	466	480	470	485	480	405	467	455	472	508	480	476	443	489	477	490	Noon
13h	467	470	468	475	470	393	459	445	465	490	485	475	460	493	476	483	13h
14	470	470	469	473	466	377	448	436	459	495	481	465	443	490	471	475	14
15	465	457	473	466	461	365	433	435	455	480	473	462	465	475	473	472	15
16	456	452	472	469	449	360	420	442	440	462	461	463	440	470	467	472	16
17	457	453	471	473		353	413	444	443	463	467	467	445	470	467	478	17
18	451	455	472	478	...	350	400	446	449	463	468	475	437	468	473	478	18
19	448	458	475	479	...	357	395	440	450	465	463	474	440	466	474	475	19
20	450	457	472	472	...	359	398	446	452	465	467	474	443	470	474	475	20
21	451	460	472	470	...	375	405	442	453	463	469	475	443	470	474	471	21
22	451	457	471	476	...	398	415	442	457	462	468	472	438	470	473	471	22
23	447	460	475	481	...	401	417	450	459	462	469	477	442	470	475	472	23

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Hour \ Day
	·22000 + (C.G.S. UNIT)																
Midnight	471	474	477	477	442	455	445	472	459	461	470	448	463	470	...	457·3	Midnight
1h	470	467	477	475	455	467	445	473	469	467	471	463	463	471	...	460·3	1h
2	476	462	474	479	452	465	447	473	469	470	473	441	467	472	...	460·7	2
3	475	470	473	480	455	465	455	475	469	479	476	447	471	473	...	463·1	3
4	478	472	477	480	456	467	457	478	467	478	478	450	471	473	...	465·6	4
5	477	476	479	495	455	471	462	481	465	477	480	457	472	477	...	468·7	5
6	474	478	479	491	460	472	466	479	471	478	482	462	473	480	...	470·9	6
7	482	483	485	497	463	473	471	480	473	482	495	467	483	482	...	475·9	7
8	487	491	491	500	473	474	477	480	476	483	505	475	484	487	...	480·5	8
9	483	488	492	490	480	473	476	477	474	479	503	473	484	483	...	480·3	9
10	481	489	495	482	486	471	475	475	473	475	518	467	483	480	...	481·8	10
11	471	480	497	490	497	477	475	469	475	483	520	467	478	474	...	480·3	11
Noon	470	477	493	497	497	465	480	470	470	482	515	458	478	475	...	478·0	Noon
13h	474	470	483	493	475	470	483	461	468	475	510	441	477	475	...	473·8	13h
14	472	471	475	495	465	483	477	472	474	480	495	430	474	483	...	471·5	14
15	455	463	471	492	457	457	465	468	470	480	483	435	473	481	...	465·5	15
16	455	459	467	485	450	456	466	463	460	470	480	443	467	475	...	460·1	16
17	451	464	470	465	451	455	464	459	456	467	475	457	470	474	...	460·3	17
18	462	461	472	463	455	438	465	450	452	469	485	457	467	478	...	460·3	18
19	465	455	473	462	453	450	463	448	447	468	470	453	465	482	...	459·1	19
20	462	467	474	450	457	445	465	455	448	470	480	453	470	481	...	460·4	20
21	463	468	477	440	456	435	465	460	453	468	460	462	470	477	...	459·8	21
22	465	467	477	433	461	443	469	461	459	467	440	463	472	476	...	459·9	22
23	465	475	475	436	457	445	470	453	460	470	460	462	470	473	...	461·7	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 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	743	741	737	732	732	742	743	740	733	733	731	731	732	735	731	730	Midnight
1h	742	741	738	733	733	739	741	739	732	731	731	731	732	734	731	730	1h
2	742	741	737	733	733	740	740	739	732	731	731	730	731	734	731	730	2
3	741	740	739	735	733	738	740	738	733	731	731	730	731	733	731	730	3
4	741	740	739	735	733	738	740	738	732	731	731	730	730	732	731	730	4
5	740	739	737	735	732	739	741	738	733	730	731	731	730	731	731	730	5
6	740	738	737	734	731	736	741	739	734	731	731	731	730	731	731	729	6
7	737	732	734	731	729	728	738	738	731	729	729	730	727	727	729	726	7
8	740	736	739	731	731	731	740	736	737	730	732	731	730	730	729	730	8
9	743	741	741	733	739	737	745	745	742	733	735	732	731	735	730	733	9
10	744	744	744	736	738	743	747	750	741	725	734	730	735	734	730	731	10
11	742	738	739	735	735	743	749	746	740	712	723	720	728	723	720	728	11
Noon	738	733	730	730	731	741	747	735	732	702	714	710	714	718	713	723	Noon
13h	730	725	722	726	725	740	745	724	726	701	705	705	690	699	705	716	13h
14	717	718	712	721	721	735	733	709	716	701	700	704	687	701	693	710	14
15	715	719	701	722	720	737	720	701	710	702	700	710	692	710	695	710	15
16	723	721	705	729	728	740	721	706	713	709	704	719	713	720	705	714	16
17	733	730	720	733	735	743	725	721	723	720	717	727	725	727	715	721	17
18	740	725	730	735	740	747	731	731	730	727	723	730	729	729	721	725	18
19	742	737	732	734	740	751	739	734	733	730	729	731	730	730	725	726	19
20	743	739	733	735	739	753	743	736	735	731	731	731	733	731	726	727	20
21	742	739	734	736	739	751	745	736	735	732	731	731	734	731	728	729	21
22	742	740	735	735	740	749	745	736	735	733	731	733	736	731	729	729	22
23	743	739	734	733	741	744	741	735	733	733	731	732	738	731	730	729	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	729	730	729	725	730	729	727	725	729	730	728	731	729	728	...	732·2	Midnight
1h	729	730	729	726	727	727	724	724	727	728	727	730	729	729	...	731·5	1h
2	729	731	730	726	729	727	726	723	726	726	726	731	729	728	...	731·4	2
3	729	731	730	726	729	727	725	723	725	723	725	730	727	728	...	731·1	3
4	730	731	730	727	729	728	725	723	725	724	724	730	727	727	...	731·0	4
5	730	730	730	725	729	729	724	723	724	724	724	729	726	727	...	730·7	5
6	729	730	729	726	728	729	726	723	725	726	725	727	725	726	...	730·6	6
7	727	726	728	723	727	728	723	724	723	725	723	723	723	723	...	727·9	7
8	729	729	730	725	733	731	728	725	727	729	727	725	726	724	...	730·7	8
9	725	732	732	729	735	730	731	729	732	733	731	728	730	730	...	734·1	9
10	723	735	728	727	739	723	731	731	731	734	734	729	731	733	...	734·5	10
11	720	730	721	719	737	707	721	731	725	732	727	725	726	731	...	729·[illegible]	11
Noon	716	721	715	705	720	696	709	721	715	724	715	718	720	726	...	721·1	Noon
13h	713	708	705	701	703	693	700	712	710	717	702	715	710	719	...	713·1	13h
14	715	702	699	705	697	691	698	709	711	719	701	713	707	709	...	708·5	14
15	719	707	696	709	698	690	702	708	717	719	705	717	707	704	...	708·7	15
16	719	716	704	713	703	697	711	716	721	719	710	723	712	708	...	714·7	16
17	728	726	717	721	717	710	720	720	726	724	721	727	720	716	...	723·6	17
18	730	730	723	728	725	720	724	727	729	729	724	728	723	721	...	728·5	18
19	729	731	725	729	727	723	724	730	730	730	726	730	726	722	...	730·8	19
20	728	730	726	729	729	725	725	730	731	730	726	730	728	723	...	731·9	20
21	729	730	727	730	729	729	726	730	732	731	727	730	729	724	...	732·5	21
22	730	730	726	731	729	730	727	730	731	731	729	730	728	725	...	732·9	22
23	730	730	726	731	729	729	727	730	731	730	729	730	728	726	...	732·4	23

TABLE VI.—RESULTS of METEOROLOGICAL OBSERVATIONS made at the AEROLOGICAL STATION Vacoas (424·5 metres above mean sea-level) during the MONTH of JUNE 1937.

Month and day 1937.	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	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	971·9	22·4	2·7	17·7	75	20·1	100	7·6	7	18·4	21·7	21·8	19·8	23·4	18·4	5·0	1·3	17	8·0	73
2	972·0	20·0	1·5	17·3	84	19·6	105	4·9	10	18·9	19·9	21·5	18·5	21·5	17·2	4·3	1·9	34	5·7	52
3	971·2	20·9	1·0	19·1	89	21·9	90	2·7	10	17·9	20·0	21·6	19·0	22·7	17·6	5·1	6·9	96	5·4	50
4	970·8	20·5	1·6	17·6	83	19·9	90	4·0	5	18·6	19·5	22·6	18·2	22·6	17·8	4·8	0·9	18	8·8	81
5	969·0	23·4	4·8	15·1	60	17·0	Calm		4	17·2	20·7	22·4	18·0	24·0	17·2	6·8	0·3	5	6·0	55
6	969·5	23·0	3·1	17·6	72	19·9	Calm		8	18·0	21·0	20·6	17·2	24·0	17·7	6·3	19·0	80	*	...
7	970·4	21·2	2·8	16·3	74	18·4	110	7·2	1	17·3	19·4	23·4	19·6	23·4	17·1	6·3	2·4	57	7·8	72
8	971·2	20·9	2·4	16·6	76	18·7	110	7·2	3	18·0	20·6	22·4	17·5	22·4	17·3	5·1	0·2	3	10·2	94
9	969·9	20·1	3·7	13·5	66	15·4	110	7·6	1	17·1	18·8	21·0	16·5	21·0	16·0	5·0	0·0	0	10·6	97
10	970·1	20·3	4·3	12·6	61	14·5	110	4·5	1	19·5	18·9	22·4	15·8	22·4	13·8	8·6	0·0	0	8·1	74
11	969·9	20·9	5·6	10·9	53	13·0	110	2·7	8	13·9	16·2	22·0	15·8	24·1	13·0	8·1	0·0	0	5·2	48
12	969·5	21·1	5·5	11·4	54	13·4	110	3·6	0	13·7	18·4	22·4	18·0	22·5	13·2	9·3	0·0	0	10·4	95
13	968·1	22·0	3·7	15·5	66	17·4	95	3·1	1	17·9	19·0	23·2	18·5	23·2	16·3	6·9	0·0	0	7·4	68
14	968·4	20·9	3·6	14·5	67	16·4	110	4·0	4	16·1	18·4	22·5	18·1	22·5	13·0	9·5	0·0	0	10·4	95
15	968·9	19·6	1·9	16·2	80	18·2	110	8·1	3	15·2	19·0	20·2	17·7	21·3	15·0	6·3	0·2	5	6·3	58
16	970·3	17·8	0·7	16·5	92	18·6	110	8·6	10	15·9	16·1	17·4	17·1	17·8	15·9	1·9	2·3	54	0·3	3
17	971·9	18·5	1·0	16·7	89	18·8	85	7·6	10	17·0	17·1	18·1	18·1	19·0	16·7	2·3	1·5	18	0·2	2
18	972·5	20·3	3·0	14·9	71	16·8	95	7·2	10	17·0	17·8	21·0	18·1	21·7	17·0	4·7	0·1	1	4·7	43
19	972·0	19·2	1·8	15·9	81	17·9	90	6·3	10	17·1	18·0	20·6	18·2	20·6	16·2	4·4	0·8	14	0·8	7
20	972·3	19·1	1·1	17·1	88	19·3	85	6·7	8	17·7	18·6	19·4	17·1	20·0	17·3	2·7	2·8	45	4·9	45
21	971·6	18·8	1·0	17·0	89	19·2	70	3·6	10	17·0	17·0	22·0	19·0	23·0	16·9	6·1	2·5	40	4·6	42
22	968·7	20·7	1·9	17·1	80	19·3	70	1·8	9	18·8	19·7	22·1	19·2	22·1	18·4	3·7	5·7	64	0·2	2
23	967·6	21·7	3·2	16·0	70	18·0	135	3·1	3	15·5	18·6	22·9	17·0	22·9	15·5	7·4	0·0	0	8·8	81
24	968·3	20·0	3·7	13·4	65	15·2	160	2·7	5	12·9	18·5	19·7	15·0	21·5	12·0	9·5	0·2	2	7·6	70
25	971·4	19·9	3·6	13·4	66	15·2	140	2·7	5	12·6	18·7	22·0	15·0	22·3	11·9	10·4	0·0	0	10·1	93
26	973·7	20·3	2·7	15·5	74	17·4	95	2·2	7	15·4	18·0	20·9	16·5	21·6	13·8	7·8	0·5	12	6·1	56
27	972·4	20·9	4·5	12·8	60	14·7	75	2.7	2	15·7	18·5	22·8	14·8	22·8	13·5	9·3	0·0	0	9·5	87
28	971·3	20·9	3·3	15·0	69	16·9	85	3·1	2	14·9	19·7	22·0	16·8	24·2	14·1	10·1	0·0	0	8·9	82
29	971·7	20·8	2·8	15·8	73	17·8	110	8·5	3	16·4	20·0	21·6	18·2	22·5	16·4	6·1	0·6	11	9·9	91
30	971·9	20·8	3·4	14·7	68	16·6	110	7·6	3	17·8	20·5	22·0	18·8	22·5	17·8	4·7	0·0	0	10·5	96
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	970·6	20·6	2·9	15·4	73·2	17·5	...	4·7	5·4	16·6	18·9	21·4	17·6	22·1	15·8	6·3	50·1	576	6·81	62·5
Average	970·9	19·8	2·1	15·9	78·6	18·0	...	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	+	42·3mbs.	Amount of rain	—	23·1mms.
Temperature of the Air	+	2·4°C	Duration of sunshine		...
Vapour Pressure	—	0·6mbs.	Mean of maximum temperatures	+	2·3°C
Relative Humidity	—	4·9%	,, minimum temperatures	+	0·8°C
Velocity of Wind	—	0·7mps	Absolute maximum temperature	+	1·7°C
Amount of Cloud	—	0·6	,, minimum temperature	+	0·4°C
Greatest Rainfall intensity at Vacoas.	...				

* Card stolen from Recorder.

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of JUNE 1937.

Month and Day 1937.	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 (Saturation=100). Mean	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley 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	1012·4	+ 1·5	25·7	20·8	4·9	22·6	+ 1·3	2·7	17·9	+ 0·7	75	− 2	20·3	19·0	0·0	...	4·0	3·5
2	1012·6	+ 1·7	24·9	19·2	5·7	21·7	+ 0·5	2·5	17·3	+ 0·2	76	− 1	19·6	16·0	0·3	10	2·7	3·7
3	1011·6	+ 0·6	24·8	19·9	4·9	21·9	+ 0·7	1·6	19·1	+ 2·0	84	+ 7	21·9	18·1	2·7	70	3·3	4·7
4	1011·1	0·0	25·9	19·2	6·7	21·9	+ 0·8	2·0	18·4	+ 1·4	81	+ 4	21·0	19·0	0·2	5	3·8	3·6
5	1010·4	− 0·8	25·3	17·3	8·0	21·2	+ 0·2	1·8	18·0	+ 1·1	82	+ 5	20·4	15·0	0·0	...	3·5	2·7
6	1011·1	− 0·2	25·2	17·9	7·3	21·2	+ 0·2	1·3	18·9	+ 2·1	87	+ 10	21·6	16·0	4·3	200	3·5	6·6
7	1012·2	+ 0·8	25·2	17·3	7·9	21·2	+ 0·3	2·4	17·0	+ 0·4	77	0	19·2	14·8	1·4	30	2·1	3·7
8	1012·8	+ 1·3	24·5	16·4	8·1	20·7	− 0·1	2·4	16·4	− 0·1	76	− 1	18·5	14·3	2·0	90	4·0	4·7
9	1012·2	+ 0·6	23·8	15·0	8·8	19·4	− 1·4	2·9	14·2	− 2·3	72	− 5	16·1	14·2	0·0	...	4·3	1·1
10	1011·4	− 0·3	24·0	13·5	10·6	18·3	− 2·4	2·8	13·2	− 3·2	72	− 5	15·0	10·0	0·0	...	3·5	3·0
11	1011·2	− 0·6	24·1	14·0	10·1	18·7	− 2·0	3·2	12·8	− 3·6	69	− 8	14·7	11·3	0·0	...	3·8	4·8
12	1010·5	− 1·4	24·3	13·7	10·6	19·2	− 1·4	2·8	14·1	− 2·3	72	− 5	15·9	10·0	0·0	...	2·9	2·5
13	1009·3	− 2·7	24·9	17·1	7·8	21·0	+ 0·4	2·6	16·4	+ 0·1	76	− 1	18·5	14·7	0·0	...	3·5	3·8
14	1009·1	− 2·7	24·9	13·7	11·2	19·6	− 1·0	2·8	14·5	− 0·8	73	− 3	16·4	10·5	0·0	...	2·9	1·1
15	1010·5	− 1·7	24·0	16·2	7·8	20·5	0·0	3·2	14·8	− 1·4	70	− 6	16·7	12·8	0·0	...	3·7	4·8
16	1012·1	− 0·2	22·3	19·1	3·2	20·7	+ 0·2	2·8	15·7	− 0·5	73	− 3	17·7	18·1	0·0	...	3·8	9·2
17	1013·5	+ 1·1	23·5	19·8	3·7	21·2	+ 0·8	2·6	16·6	+ 0·5	75	− 1	18·6	19·0	0·7	25	3·0	9·8
18	1014·0	+ 1·5	24·0	18·1	5·9	21·2	+ 0·8	2·8	16·3	+ 0·2	74	− 2	18·4	18·0	0·0	...	1·8	8·7
19	1013·1	+ 0·4	24·0	17·9	6·1	20·6	+ 0·3	2·1	16·8	+ 0·8	79	+ 3	18·9	16·1	1·0	5	3·8	9·1
20	1013·5	+ 0·7	23·0	18·1	4·9	20·5	+ 0·2	1·6	17·6	+ 1·6	83	+ 7	19·9	17·8	2·1	90	1·6	7·8
21	1012·3	− 0·6	24·2	18·1	6·1	20·9	+ 0·6	1·8	17·7	+ 1·7	82	+ 6	20·1	18·1	1·3	15	2·4	7·0
22	1010·3	− 2·7	24·9	18·0	6·9	21·3	+ 1·1	1·4	18·8	+ 2·9	86	+ 10	21·5	16·0	9·0	155	2·6	8·5
23	1008·3	− 4·8	24·7	15·5	9·2	19·9	− 0·3	1·8	16·6	+ 0·7	81	+ 5	18·7	15·3	1·3	15	2·1	6·0
24	1009·9	− 3·3	24·0	12·3	11·7	17·9	− 2·3	2·4	13·5	− 2·4	75	− 1	15·3	9·4	0·0	...	5·8	2·6
25	1013·3	0·0	24·1	14·1	10·0	18·5	− 1·7	2·5	13·9	− 2·0	74	− 2	15·7	10·8	0·0	...	2·5	4·2
26	1014·9	+ 1·5	24·0	14·3	9·7	19·1	− 1·0	1·9	15·7	− 0·1	81	+ 5	17·7	12·9	0·7	15	3·4	7·7
27	1013·1	− 0·4	24·2	14·0	10·2	18·8	− 1·3	2·7	13·9	− 1·9	73	− 3	15·7	10·4	0·0	...	2·8	2·5
28	1012·6	− 0·9	24·8	13·9	10·9	18·9	− 1·2	1·9	15·4	− 0·4	88	+ 12	17·3	11·5	0·0	...	2·7	2·0
29	1013·6	0·0	24·8	14·5	10·3	19·8	− 0·3	1·9	16·4	+ 0·6	81	+ 5	18·5	12·6	0·0	...	2·8	4·2
30	1012·9	− 0·8	25·1	18·7	6·4	21·5	+ 1·4	2·4	17·3	+ 1·5	77	+ 1	19·6	16·0	0·0	..	3·9	2·9
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	1011·9	− 0·4	24·4	16·6	7·8	20·3	− 0·2	2·3	16·2	− 0·1	77·5	+ 1·1	18·3	14·6	Sum 27·0	Sum 725	3·2	4·9
Aver.	1012·3	...	24·4	17·0	7·4	20·5	...	2·4	16·3	...	76·4	...	18·7	13·4	64·9	1164	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 1937.

In general, pressure oscillations were small during this month; but noteworthy departures below the average were observed from the 12th to the 15th and from the 22nd to the 24th.

Important fluctuations were recorded in temperature; a regular succession of warm and cold periods occurred, lasting in each case about 7 days.

Humidity was variable and slightly in excess in the mean for the month.

Wind velocity was generally in defect; it was in excess on 5 days only during the month.

A considerable shortage of rainfall was again the most important feature.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of JUNE 1937

Month and Day 1937.	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: 3h.	6h.	9h.	12h.	15h.	18h.	21h.	24h.
JUNE	hrs.	%	mp.s.	mp.s.	°C.	°C.	°C.	°C.								
1	9·4	85	4·1	+ 0·9	25·6	25·8	24·2	27·9		b		:	bc	:	b	
2	7·2	65	3·3	0·0	25·6	25·7	24·2	27·9	b :	bc		or$_0$:	ber$_0$:		b :	
3	7·6	70	3·0	− 0·3	25·6	25·7	24·2	27·9		ber$_0$	:		bc	:	ber$_0$:	b
4	8·8	81	2·6	− 0·7	25·6	25·7	24·2	27·9	ber$_0$:		bc	:		b		
5	9·6	88	2·2	− 1·1	25·6	25·7	24·3	28.1		b	:	bc :	b	:	bc	
6	2·2	20	1·4	− 1·9	25·6	25·7	24·3	27·9	c :	or$_0$r$_0$	:	o :	cgd$_0$d$_0$	:	b	
7	10·4	95	2·7	− 0·6	25·6	25·7	24·3	27·8	b$_0$:		b	:	bc :	ber$_0$:	cr$_0$:	bc
8	9·8	90	3·0	− 0·4	25·6	25·7	24·3	27·8	or$_0$r$_0$:	:		bc		b		
9	10·3	94	3·2	− 0·2	25·6	25·6	24·2	27·6				b				
10	8·1	74	2·5	− 0·9	25·6	25·4	24·1	26·9	b$_0$:		b	:	bc :	c ;	b	
11	8·1	74	2·3	− 1·1	25·7	25·4	24·0	26·9			bc		:		b	
12	10·4	95	2·2	− 1·2	25·6	25·4	23·8	26·5	bc	.			bb			
13	7·0	64	2·0	− 1·4	25·7	25·4	23·8	26·8	b		:	bc :		c	:	bc
14	9·5	87	2·6	− 0·9	25·6	25·3	23·6	26·6				b				
15	6·5	60	4·0	+ 0·5	25·6	25·3	23·5	26·4	b$_0$:	b	:	bc :		c		
16	0·2	2	5·1	+ 1·6	25·6	25·3	23·4	26·4		c	:	:	oq$_0$:		o	
17	0·0	0	4·7	+ 1·2	25·6	25·3	23·4	26·5	o		:	omd$_0$d$_0$:		o		
18	3·9	36	3·6	+ 0·1	25·6	25·3	23·4	26·2		o		:	bc		o	
19	2·9	27	3·0	− 0·6	25·6	25·2	23·3	26·4	o	:	c :	o :		c	:	or$_0$
20	6·1	56	3·6	0·0	25·6	25·2	23·3	26·4	or$_0$:	bc	:		cr$_0$:		bc	
21	4·5	41	2·9	− 0·7	25·6	25·2	23·3	26·5	bc :	ber$_0$:	c	:	cgr$_0$:	c :	bc	
22	1·3	12	1·5	− 2·1	25·6	25·1	23·2	26·4	bc	:	c :		o	:	or$_0$r$_0$	
23	5·8	53	1·1	− 2·5	25·4	25·2	23·3	26·5	or$_0$:	o :		bcg	.	b		
24	7·8	72	1·8	− 1·8	25·6	25·1	23·3	26·1		b		:	c :	bc :	b	
25	8·9	82	1·9	− 1·8	25·6	25·1	23·2	25·8	b :		bc		:	b :	c	
26	6·2	57	2.8	− 0·9	25·4	25·0	23·1	25·7	c :	cr$_0$:	bc	:	cr$_0$		c :	
27	9·4	86	2·4	− 1·3	25·5	25·0	23·0	25·7	bc :	c :	bc .			b		
28	7·2	66	1·5	− 2·2	25·6	25·0	22·9	25·7		b	:		bc	:	b	
29	8·0	73	2·8	− 0·9	25·5	24·9	22·9	25·7	b :			bc		:	b :	bc
30	10·1	93	3·7	0·0	25·5	24·8	22·8	25·7	bc				b		:	b$_0$
...	...	...	...	...	...	...	...	...				.....				
Mean	6·91	63·3	2·78	−0.71	25·58	25·34	23·63	26·75				.....				
Average	7·48	68·8	3·49	...	25·51	25·38	23·78	23.08				.....				
Column	19	20	21	22	23	24	25	26				.....				

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF JUNE 1937.

Element	Highest			Date	Lowest			Date
Atmospheric Pressure	1016·1mbs.	at	9 & 10hrs.	on 26th	1006·0mbs.	at	15·00hrs.	on 23rd
Temperature of the Air	25·9°C	at	12·10hrs.	on 4th	12·3°C	at	06·05hrs	on 24th
Daily range of temperature of the Air ...	11·7°C		...	on 24th	3·2°C		...	on 16th
Temperature of the Dew Point	21·1°C	at	18·00hrs.	on 22nd	9·9°C	at	23·00hrs.	on 11th
Daily range of temperature of the Dew Point	6·2°C		...	on 23rd	2·0°C		...	on 3rd
Minimum on Grass	...		...	...	9·4°C		...	on 24th
Relative humidity	97·5%	at	22·00hrs.	on 22nd	47·0%	at	12·00hrs.	on 4th
Vapour Pressure	24·8mbs.	at	18·00hrs.	on 22nd	12·1mbs.	at	23·00hr.	on 11th
Evaporation in 24 hours	5·8mms.		...	on 24th	1·6mms.		...	on 20th
Wind Velocity	8·1m.p.s	at	12·00hrs.	on 16th	0.6m.p.s.		...	often
Rainfall in 24 hours	10·3mms.	ending	01hr.	on 23rd	...		...	...
Duration of sunshine	10·4hrs.		...	on 7th & 12th	0·0hr.		...	on 17th

Mean Day Temperature of Air, 22·23°C Average 22·26°C Mean Night Temperature of Air 18·42°C. Average 18 74°C

NUMBER OF DAYS OF:—

Mean Cloud Amount: 0	1 — 3	4 — 6	7 — 9	10	Rainfall: 0.1 — 0.9 mms.	1.0 — 4.9 mms.	5.0 — 9.9 mms.	10.0 — 24.9 mms.	25.0 and over mms.	Lightning	Thunderstorm
...	10	11	8	1	4	8	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 1937.

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. \ Hour.
Midnight	125	133	120	110	113	106	123	132	131	129	119	117	107	100	104	117	Midnight
1	122	132	120	110	110	103	121	133	129	125	118	115	105	098	101	120	1h
2	121	130	116	107	106	101	120	130	123	120	112	110	100	094	100	112	2
3	120	126	115	105	102	101	115	126	121	117	110	109	098	091	095	110	3
4	119	126	116	104	103	100	114	127	120	112	111	108	092	090	091	110	4
5	119	126	118	109	104	101	114	125	120	110	110	108	090	089	090	110	5
6	120	130	119	111	108	103	118	128	121	110	110	109	090	090	091	115	6
7	121	133	124	117	111	109	121	131	124	115	111	110	091	091	097	119	7
8	129	140	130	121	113	113	126	136	130	120	118	114	097	100	102	121	8
9	131	145	134	127	119	120	131	140	131	122	120	119	101	103	110	129	9
10	131	145	131	125	115	120	131	139	131	121	120	114	100	103	111	126	10
11	130	139	127	120	108	117	129	135	127	118	119	110	096	101	110	122	11
Noon	126	130	120	111	100	111	121	130	120	114	112	102	090	093	109	120	Noon
13h	118	120	111	104	091	101	115	120	112	107	109	093	084	087	101	111	13h
14	114	116	106	100	088	102	110	116	109	101	100	089	080	081	094	109	14
15	114	112	102	100	086	103	110	111	109	100	101	087	080	080	093	110	15
16	116	111	101	100	085	107	110	112	110	100	102	088	080	081	097	112	16
17	119	111	107	101	090	110	115	116	111	102	107	090	082	085	101	120	17
18	122	113	110	106	099	113	121	120	114	106	110	097	086	090	102	122	18
19	129	117	111	110	105	119	129	128	120	111	111	100	090	094	108	130	19
20	132	120	114	115	111	121	131	131	126	114	113	105	099	100	121	137	20
21	134	123	114	115	111	126	135	135	130	120	119	110	101	103	128	139	21
22	136	123	114	116	111	126	136	136	130	121	120	110	101	106	129	139	22
23	134	122	114	115	110	125	136	134	130	120	118	109	101	105	130	136	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. \ Hour.
Midnight	134	149	140	139	134	116	100	096	121	151	150	126	130	146	...	1012·4	Midnight
1h	136	146	137	137	134	111	090	092	121	150	145	126	130	145	...	1012·2	1h
2	130	141	131	132	130	110	089	090	121	149	140	121	129	141	...	1011·8	2
3	120	139	126	130	126	108	084	086	120	146	135	120	129	140	...	1011·6	3
4	123	136	130	130	126	103	081	086	120	143	134	120	129	137	...	1011·5	4
5	120	134	131	130	124	100	080	082	120	143	135	120	130	134	...	1011·4	5
6	126	136	131	132	129	102	080	086	124	149	137	121	131	136	...	1011·6	6
7	130	141	131	139	131	108	085	090	128	151	140	127	136	138	...	1012·0	7
8	132	143	140	144	137	114	090	100	131	159	144	131	141	141	...	1012·5	8
9	140	150	147	149	137	118	091	101	140	161	147	137	144	145	...	1013·0	9
10	140	150	141	150	134	116	091	103	140	161	145	138	146	141	...	1012·9	10
11	140	146	140	142	127	112	089	101	138	159	138	132	143	138	...	1012·5	11
Noon	132	145	131	140	119	110	081	100	131	151	131	136	140	131	...	1012·0	Noon
13h	129	134	121	131	111	094	070	092	126	146	121	120	132	121	...	1011·1	13h
14	123	130	119	122	110	091	061	090	121	142	119	118	130	116	...	1010·7	14
15	123	126	120	120	110	090	060	090	121	142	111	117	130	112	...	1010·6	15
16	124	124	120	121	111	087	063	090	126	143	113	119	130	111	...	1010·6	16
17	131	131	119	126	113	090	070	096	132	145	118	120	132	113	...	1011·0	17
18	137	140	124	130	119	091	075	103	139	147	120	121	135	117	...	1011·4	18
19	142	139	131	132	120	094	081	109	143	147	123	123	140	120	...	1011·9	19
20	150	142	135	138	120	100	089	114	149	149	129	130	141	123	...	1012·3	20
21	154	147	140	140	120	101	091	120	150	149	128	131	144	122	...	1012·6	21
22	157	149	140	140	120	103	097	121	151	150	130	130	147	126	...	1012·7	22
23	155	146	131	140	116	101	096	122	152	150	128	130	144	123	...	1012·6	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	JUNE 1937.																														
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	...	Mean
Midnight	5	2	3	4	1	5	0	10	1	0	3	2	1	1	0	8	10	10	10	10	9	7	10	1	1	7	7	1	1	5	...	4·5
1h	5	2	5	4	1	5	0	9	1	0	3	4	1	2	0	9	10	9	10	10	8	6	10	1	2	6	5	1	1	6	...	4·5
2	4	2	5	8	1	6	0	9	1	0	5	4	1	2	0	8	10	10	10	10	9	7	9	1	3	8	5	0	1	7	...	4·9
3	3	2	2	5	1	7	0	9	1	0	8	5	1	1	0	9	10	10	10	8	7	8	9	1	3	8	5	0	1	8	...	4·7
4	3	2	2	4	1	10	0	10	1	0	9	5	1	1	0	8	10	10	10	7	7	8	8	1	4	8	4	0	1	8	...	4·8
5	2	4	5	6	1	10	1	10	1	1	9	4	1	1	1	8	10	10	10	6	8	3	7	1	4	10	8	1	6	5	...	5·1
6	2	9	4	7	1	10	1	9	1	1	6	8	1	1	1	9	10	9	10	6	9	3	7	0	5	9	8	1	5	3	...	5·2
7	3	7	5	7	2	10	2	8	1	1	7	5	1	1	1	9	10	10	9	6	8	8	7	0	2	7	6	1	4	2	...	5·0
8	3	6	5	8	2	9	3	6	1	1	6	1	1	1	1	8	9	10	8	7	9	8	8	0	1	6	5	0	4	1	...	4·6
9	3	5	6	8	3	9	2	4	1	1	6	1	1	1	3	8	9	9	8	5	8	8	7	1	1	6	1	1	3	1	...	4·3
10	2	9	5	6	4	7	3	4	0	2	5	2	4	1	3	9	10	8	9	8	8	9	8	1	3	3	1	4	4	2	...	4·8
11	2	9	4	4	6	7	3	4	1	2	5	4	5	0	5	9	10	8	9	6	8	9	8	3	4	5	0	4	8	2	...	5·1
Noon	2	9	7	2	3	8	4	4	0	3	7	0	4	1	6	10	10	10	9	10	8	10	5	8	6	4	0	2	5	3	...	5·3
13h	4	6	8	2	3	8	3	4	1	6	6	0	5	1	8	9	10	9	9	10	8	9	7	9	5	9	0	3	5	3	...	5·7
14	3	3	6	1	3	9	4	2	3	8	6	1	6	2	9	9	10	5	9	9	9	10	7	8	4	8	0	6	8	3	...	5·7
15	8	2	6	3	3	10	4	2	2	8	5	2	8	2	10	9	10	4	7	8	6	10	6	8	3	9	0	6	9	2	...	5·7
16	7	2	3	3	3	8	2	2	2	7	5	2	8	2	9	10	10	5	8	7	6	10	5	8	3	9	0	5	7	2	...	5·3
17	6	1	8	1	2	9	3	3	2	8	4	2	8	2	8	10	10	6	9	8	8	10	4	4	3	9	0	4	5	2	...	5·3
18	4	1	9	1	4	9	10	3	2	8	3	2	8	1	8	10	10	7	9	8	9	10	3	1	3	9	1	3	4	1	...	5·4
19	3	1	5	1	4	2	9	1	2	8	2	1	8	1	8	10	10	9	9	7	6	10	3	1	5	9	1	0	3	1	...	4·7
20	4	1	4	1	4	1	9	1	1	1	2	2	6	1	7	10	9	10	9	8	4	10	3	1	7	9	1	1	3	0	...	4·3
21	3	1	2	1	5	1	7	1	1	1	2	2	5	1	7	10	9	10	9	8	1	10	3	1	8	9	1	1	2	0	...	4·1
22	3	1	1	1	3	1	6	1	1	1	1	1	3	1	8	10	9	10	9	8	1	10	2	1	9	9	2	1	4	0	...	3·9
23	3	1	3	1	3	1	8	1	0	1	1	1	3	1	8	10	10	10	10	8	5	10	2	1	8	9	2	1	4	0	...	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 1937.																														
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	...	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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	13	0	0	0	1	0	13	0	10	0	0	20	6	3	0	0	0	0	0	0	0	8	7	20	14	0	2	12	2	10	...	2·3
8	60	38	7	5	43	0	60	48	59	51	23	60	60	56	60	4	0	1	32	18	0	30	53	60	60	30	8	60	60	60	...	18·4
9	60	59	32	38	60	0	60	59	60	60	60	60	60	60	60	0	0	0	5	57	0	0	54	60	60	53	60	60	60	60	...	22·0
10	60	5	47	55	60	6	60	56	60	60	60	60	60	60	60	8	1	9	17	58	12	0	38	60	60	60	60	60	60	60	...	22·2
11	60	17	60	60	58	56	60	60	60	60	60	65	60	60	60	0	0	26	35	48	44	25	20	60	55	60	60	60	59	60	...	24·4
Noon	60	28	55	60	60	50	60	60	60	60	56	60	58	60	60	0	0	40	8	28	54	5	35	48	40	60	60	60	60	60	...	23·4
13h	60	43	35	60	60	20	60	60	60	60	48	60	55	60	38	0	0	10	35	30	44	10	25	23	48	15	60	60	60	56	...	20·9
14	60	60	58	60	60	0	60	60	60	56	44	60	35	60	7	0	0	27	15	4	36	0	45	18	54	20	60	32	56	60	...	19·4
15	52	60	60	60	60	0	60	60	60	23	36	60	26	60	30	0	0	56	12	30	22	0	10	0	55	28	60	26	37	60	...	18·4
16	48	60	60	60	46	0	60	60	60	44	48	60	2	60	13	0	0	52	10	40	50	0	26	47	60	45	60	4	27	60	...	19·4
17	34	54	42	54	54	0	58	55	58	10	48	59	0	28	0	0	0	13	6	54	8	0	31	60	27	5	58	0	0	58	...	14·6
18	0	8	0	12	16	0	12	9	9	0	6	5	0	6	0	0	0	0	0	0	0	0	0	10	0	0	13	0	0	3	...	1·8
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

The total Amount of Registered Sunshine was 207·2 hrs. and the total possible sunshine was 327·2 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)

JUNE 1937.

Day. / Hour.	1d. Air.	1d. Excess of Air over Evap.	2d. Air.	2d. Excess of Air over Evap.	3d. Air.	3d. Excess of Air over Evap.	4d. Air.	4d. Excess of Air over Evap.	5d. Air.	5d. Excess of Air over Evap.	6d. Air.	6d. Excess of Air over Evap.	7d. Air.	7d. Excess of Air over Evap.	8d. Air.	8d. Excess of Air over Evap.	Day. / Hour.
Midnight	21·5	1·9	21·0	1·7	20·0	1·1	21·1	0·8	19·2	1·1	20·5	0·8	18·1	1·0	19·7	2·0	Midnight
1h	21·1	2·0	20·6	1·5	20·3	1·0	20·9	0·8	19·1	1·0	20·2	0·9	18·1	1·0	19·7	1·0	1h
2	21·0	2·0	20·5	1·6	20·2	0·9	20·7	0·7	19·1	0·9	20·1	0·9	18·1	1·0	19·9	1·0	2
3	21·2	2·1	20·1	2·0	20·0	0·9	21·1	0·5	18·6	0·9	20·1	0·8	17·9	0·9	19·4	0·8	3
4	21·0	1·8	19·8	1·9	20·1	0·9	20·1	0·9	17·9	0·9	21·1	1·0	18·0	1·1	19·2	0·7	4
5	21·2	1·8	19·2	2·1	20·1	0·8	20·3	0·7	17·5	0·8	20·9	0·9	17·9	0·9	19·6	0·7	5
6	21·2	1·8	20·1	2·2	20·0	0·9	20·1	0·9	17·9	1·0	20·7	0·7	17·8	0·9	19·2	0·9	6
7	21·2	2·0	20·1	1·1	20·2	1·0	20·5	0·7	17·8	0·8	20·6	0·6	17·9	1·1	18·8	1·0	7
8	22·8	2·8	21·5	1·8	20·9	1·1	21·0	1·0	20·1	0·4	21·1	0·8	21·1	1·1	21·1	1·3	8
9	24·0	2·8	22·9	3·0	22·8	2·7	23·0	1·8	23·2	2·4	23·0	1·5	23·0	2·8	23·0	3·0	9
10	24·8	3·5	21·3	1·5	23·9	2·6	24·3	3·6	24·2	3·2	23·9	2·2	23·9	3·9	23·8	3·8	10
11	25·1	4·3	22·8	2·2	24·1	3·1	24·8	4·6	24·7	3·2	25·0	3·3	24·6	4·8	24·2	4·1	11
Noon	25·3	5·3	24·0	3·9	24·5	2·9	25·1	5·0	25·0	3·7	25·2	3·0	24·6	4·6	24·1	4·1	Noon
13h	25·1	4·4	24·9	4·9	23·9	2·4	25·0	4·2	25·2	3·6	25·0	3·0	25·0	5·2	24·2	4·2	13h
14	25·1	5·0	24·9	5·1	24·6	3·0	25·0	4·7	23·9	2·8	23·0	1·3	25·0	5·0	24·1	4·4	14
15	24·3	3·5	24·4	4·4	24·4	3·1	24·8	4·5	23·6	2·6	23·0	1·3	24·3	4·2	23·8	4·7	15
16	23·9	3·0	24·0	4·2	24·1	3·0	24·0	3·3	23·9	3·8	21·2	1·2	24·1	4·0	23·0	3·9	16
17	23·2	3·2	23·0	3·5	22·7	1·7	23·0	3·0	23·0	3·1	21·0	1·0	23·0	3·6	21·9	3·8	17
18	22·6	2·4	21·6	2·2	21·7	1·4	21·2	1·3	21·2	1·8	20·9	0·9	21·6	1·6	20·0	2·4	18
19	21·6	1·7	20·5	1·8	21·1	0·8	20·6	1·3	20·8	1·5	19·9	0·8	21·2	1·2	18·6	1·8	19
20	21·2	1·3	20·5	1·7	21·2	0·7	20·1	1·0	21·0	1·1	19·2	1·0	20·9	1·2	18·0	1·9	20
21	21·3	1·5	21·0	1·9	21·1	0·9	20·1	1·0	21·2	1·2	18·7	1·0	20·7	1·3	17·8	1·8	21
22	20·9	1·7	21·4	2·2	21·1	0·8	19·9	1·0	20·9	1·1	18.1	1·0	20·3	1·3	18·1	2·2	22
23	21·0	1·5	20·3	1·3	21·1	0·7	19·5	1·1	20·3	0·8	17·9	1·1	20·0	1·4	17·1	2·0	23

Day. / Hour.	9d. Air.	9d. Excess of Air over Evap.	10d. Air.	10d. Excess of Air over Evap.	11d. Air.	11d. Excess of Air over Evap.	12d. Air.	12d. Excess of Air over Evap.	13d. Air.	13d. Excess of Air over Evap.	14d. Air.	14d. Excess of Air over Evap.	15d. Air.	15d. Excess of Air over Evap.	16d. Air.	16d. Excess of Air over Evap.	Day. / Hour.
Midnight	16·6	1·6	15·0	1·4	14·3	1·5	14·1	1·3	19·2	1·4	18·0	1·8	18·6	2·3	20·1	2·9	Midnight
1h	17·4	1·7	14·7	1·6	14·0	1·3	13·9	1·1	19·7	1·8	17·0	2·0	17·0	1·8	19·1	1·7	1h
2	17·0	1·7	14·8	2·5	15·2	2·0	14·0	1·2	19·6	1·7	17·0	1·9	18·2	2·2	19·7	2·6	2
3	18·2	2·0	14·0	1·3	16·6	2·5	14·0	1·3	19·1	1·2	15·4	1·3	17·7	2·0	20·0	2·9	3
4	17·2	1·9	13·7	1·0	16·4	1·7	14·6	1·0	19·0	1·4	15·3	1·3	17·0	2·0	20·0	2·4	4
5	17·0	1·9	14·0	1·1	16·5	1·6	14·2	1·1	18·7	1·6	14·9	1·3	17·1	1·3	19·6	2·0	5
6	17·1	1·8	15·7	1·9	16·3	1·9	15·0	1·0	18·2	1·2	14·1	1·1	18·2	1·6	19·9	2·5	6
7	17·0	1·7	14·4	1·3	16·3	2·1	15·7	1·6	18·9	1·8	14·0	1·3	19·2	1·4	20·1	2·5	7
8	19·8	2·7	17·9	1·5	17·9	2·0	17·6	1·6	21·0	2·4	17·0	1·0	20·9	2·6	21·0	2·9	8
9	21·9	3·9	21·4	3·3	21·4	4·2	21·3	3·5	23·0	3·1	20·9	2·1	22·4	3·4	21·1	2·8	9
10	22·7	4·8	22·8	4·8	22·8	6·0	23·0	5·3	23·8	3·9	22·6	3·9	23·0	3·9	22·2	3·3	10
11	23·2	5·1	23·2	5·2	23·5	6·7	23·7	5·6	24·1	4·8	23·9	5·5	23·9	4·7	22·2	3·7	11
Noon	23·3	5·0	23·8	5·6	24·0	7·0	24·1	6·5	24·2	4·3	24·1	5·9	23·3	4·8	22·0	3·5	Noon
13h	23·6	5·4	23·3	5·4	23·9	6·9	24·3	6·3	24·6	5·0	24·6	6·0	23·3	4·6	21·1	2·9	13h
14	23·6	5·0	23·3	5·5	23·6	5·6	24·2	5·6	23·8	4·6	24·7	5·7	23·0	4·7	21·6	3·1	14
15	23·0	4·9	22·7	5·1	23·1	5·1	24·0	5·4	23·9	4·2	24·1	5·2	22·3	4·8	21·9	3·6	15
16	22·4	4·5	22·3	5·1	23·0	5·4	23·3	4·1	23·0	3·7	23·9	4·6	22·0	4·8	21·4	3·9	16
17	21·2	3·6	21·1	3·5	21·1	3·4	22·0	3·0	22·0	2·9	22·1	3·1	21·2	4·0	21·1	3·6	17
18	19·5	2·5	19·9	2·3	19·4	2·4	21·5	3·3	21·4	1·9	20·9	2·6	20·9	3·9	20·7	2·8	18
19	18·1	2·0	18·7	2·5	18·0	1·8	19·3	1·6	20·2	1·4	20·0	2·0	20·6	3·4	20·0	1·7	19
20	17·8	1·9	17·0	2·0	17·1	1·8	18·3	1·3	20·0	2·0	19·2	1·5	20·8	3·2	20·0	1·7	20
21	16·2	1·4	16·0	1·5	15·7	1·6	19·2	1·5	20·1	2·1	18·9	1·8	20·7	3·1	20·1	1·9	21
22	17·0	2·0	15·1	1·1	15·2	1·2	19·1	1·7	18·9	1·9	18·0	1·5	20·4	3·1	20·2	2·2	22
23	16·1	2·1	14·2	1·2	14·7	1·5	18·2	1·3	17·1	1·2	18·9	2·2	20·0	2·9	20·6	2·8	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add 273*)

JUNE 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	21·0	3·1	19·8	2·0	18·1	1·0	19.4	0·6	18·1	1.1	19·7	1·0	19·9	0·6	15·5	1·1	Midnight
1h	20·8	2·8	19·7	1·8	18·1	0·9	19·8	1·1	19·3	1·2	19·1	1·0	19·3	0·5	14·8	0·9	1h
2	21·0	3.2	20·4	2·4	19·2	1·3	19·7	1·1	19·2	1·0	18·5	0·6	18·1	0·8	14·2	1·1	2
3	21·0	3·4	20·7	2·5	19·0	1·0	20·0	1·2	19·1	0·9	19·2	0·6	17·4	0·5	14·0	1·1	3
4	21·0	3·2	19·9	1·6	18·8	1·5	20·1	1·1	19·1	1·1	19·7	1·0	17·1	0·7	13·9	1·4	4
5	20·8	2·6	20·2	1·7	18·3	1·2	20·0	1·3	20·0	1·1	18·7	0·8	17·1	0·5	13·8	1·5	5
6	20·8	2·5	20·4	2·3	18·2	1·2	20·0	1·7	20·0	1·1	18·3	1·0	17·0	0·8	13·2	1·0	6
7	21·0	2·8	20·8	2·7	18·1	1·1	20·1	1·3	20 1	1·1	18·9	0·8	16·8	0·7	12·4	0·4	7
8	21·0	2·1	21·3	2·5	20·7	1·7	21·0	1·7	20 6	1·4	21·0	1·1	19·6	0·5	16·2	1·0	8
9	22·1	2·9	21·7	2·4	22·0	2·8	22·2	2·3	21·5	1·6	22·0	1·3	21·5	1·4	20·2	2·5	9
10	22·2	2·4	23·0	4·0	22·7	3·3	20·9	0·9	23·1	2·3	23·0	2·3	22·8	2·7	21.9	3·3	10
11	22·1	3·0	23·2	4·1	23·0	4·0	21 8	1·8	23·1	2 3	24·0	3·1	23·0	2·0	23·3	5 2	11
Noon	22·0	2·0	23·3	4·3	23·1	4·0	20·8	0·8	24·2	3·9	24·3	3·1	23·4	2·3	23·8	5·1	Noon
13h	20·7	0·9	23·1	4·1	23·4	4·5	20·9	0·8	23·8	3·8	24·8	3·3	23·6	3·4	23·2	4·4	13h
14	21·3	2·2	23·7	4·9	23·2	4·0	22·2	2·2	23·3	3·7	24·3	2·9	24·1	3·0	22·2	3·4	14
15	22·1	3·0	23·3	4·4	23·0	4·1	22·6	3·0	23·3	3·1	24·0	2·6	23·6	3·4	22·1	3·9	15
16	22·1	3·2	22·6	3·6	22·3	4 1	22·2	2·7	23·2	3 0	23·7	1·9	23·2	3·9	23·0	4·0	16
17	21·6	2·7	21·6	3·4	21·9	3·2	22·1	3·1	22 3	2·3	23·1	1·2	22·0	3·0	21·0	4·8	17
18	20·9	2·6	21·0	2·9	21·0	2·1	20 7	2·5	21·3	1·6	22.2	0·6	20·0	2·0	19·0	3·0	18
19	21·2	3·1	20·3	2·3	20·3	1·2	19·6	1·5	20·2	1·4	21·1	0·9	19·7	2·0	17·1	1·8	19
20	21·0	2·9	20·2	2.2	20·0	1·0	19·1	1·1	19·3	1·3	21·0	0·9	18·9	2·5	16·2	1·4	20
21	21·0	2·9	20·2	2·2	20·0	1·1	19·9	1·9	19·1	1·0	20·4	0·4	17·9	2·0	15·9	1·7	21
22	20·5	2·5	19·4	1·4	19·9	0·9	19 2	1·4	19·2	1·0	20·3	0·2	17·2	1·9	16·1	1·1	22
23	20·3	2.2	19·0	1·4	19·8	0·7	18 7	1·4	19·0	0·9	19·9	0·2	17·0	2·0	16·3	1·2	23

Day. / Hour.	25d.		26d.		27d.		28d.		29d		30d		...		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	15·3	0·8	15·0	1·0	16·9	1·2	15·3	0·3	16·9	0·8	20·7	2·0	...	...	18·3	1·4	Midnight
1h	14·9	0·9	15·0	1·0	15·2	1 2	15·0	0·8	16·3	0 5	20·3	1·5	...	...	18·0	1·3	1h
2	14·3	0·7	14·9	1.0	15·7	1·7	15·1	0·8	16·0	0·4	20·0	2·0	...	...	18·0	1·4	2
3	14·4	0·7	14·9	0·9	15·0	1·3	15·1	0·7	16·0	1·0	20·0	2·1	...	...	18·0	1·4	3
4	14·7	1·2	17·0	0·8	14·2	1.2	15.0	0·7	15·0	0·8	19·9	1·8	...	...	17·9	1·4	4
5	14·6	0·9	17·9	0·9	14·1	1·1	15·0	0·9	14·9	0·8	18·7	0·7	...	...	17·8	1·3	5
6	14·3	0·5	17·1	1.1	15·0	1·0	14·6	0·6	15·9	0·8	19·0	1·0	...	...	17·8	1·3	6
7	15·8	1·0	17·8	0·9	17·0	1·0	14·0	0·8	15·0	0·8	19·1	1·0	...	...	18·0	1·3	7
8	18·2	1·4	19·3	1·2	18·0	0·9	17·5	0·5	19·1	0·6	21·3	1·8	...	...	19·9	1·5	8
9	20·9	2.8	21·1	2·9	21·0	2·8	21·6	1·8	22·0	1·9	23·0	3·0	...	...	22·0	2·6	9
10	22·3	4·2	22·9	4.8	23·1	4·9	22·8	3·6	23·2	3·1	23·8	3·8	...	...	23·0	3·5	10
11	23·6	5·5	23·6	4·6	24·0	6·3	24·0	4·5	23·4	3·4	24·2	4·5	...	...	23 6	4·1	11
Noon	23·2	4·4	23·8	4·8	24·1	6·1	24·3	5·2	24·0	4·0	24·8	4·3	...	...	23.9	4·4	Noon
13h	23·9	5·0	22·0	2·7	24·1	5·9	24·8	5·0	24·8	4·8	24·1	4·1	...	...	23·8	4·2	13h
14	24·0	5·6	22·8	3·0	24·0	6·0	23·8	3·6	24·2	4·2	24·9	4·8	...	...	23·7	4·1	14
15	23·6	6·3	20·4	1·4	23·7	5·2	24·0	3·3	22·3	2·3	24·1	3·4	...	...	23·3	3·8	15
16	22·9	5·2	21·4	2·6	23.0	4·3	23·0	3·0	22·8	3·0	23·6	3·5	...	...	22·9	3·6	16
17	21·7	3·9	20·1	1·9	21·9	3·9	21·3	1 5	21·9	2·8	22·6	3·0	...	...	21·9	3·0	17
18	19·9	2·8	19·3	1·3	19·7	2·3	19·7	1·7	20·6	1·7	21·1	1·9	...	...	20·7	2·1	18
19	17·3	1·3	19·3	1·5	17·8	1.7	18·2	1·1	19·6	1·6	20·2	1·2	...	...	19·7	1·7	19
20	16·0	1·2	19·0	1·6	16·8	1·3	17·1	1·1	19·2	1·1	20·3	1·5	...	...	19·2	1·5	20
21	16.9	1·2	19·2	1·9	16·1	1·1	17·1	1·2	19·4	1·0	20·0	1·1	...	...	19·1	1·6	21
22	15·9	1·4	17·7	1.5	15·9	1·0	17·0	0·9	19·8	1·8	20·1	1·3	...	..	18·8	1·5	22
23	16·0	1·5	16·5	1·4	15·4	1·1	16·8	1·2	20·5	1·6	20·5	1·6	...	...	18·4	1·4	23

TABLE XII.—DIRECTION and VELOCITY of the WIND at every HOUR of the DAY as recorded by the ROBINSON CUP ANEMOMETER during JUNE 1937.

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 1937.

Hour.	1d		2d.		3d.		4d.		5d.		6d. *		7d. *		8d.		9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	11	2·5	10	2·9	10	2·0	10	2·4	10	1·8	10	1·4	15	1·4	13	2·3	11	2·0	11	2·0	12	3·3	13	2·1	10	1·8	13	1·3	12	2·2	11	4·4
1h	11	3·4	11	1·9	08	2·9	10	1·8	10	1·7	10	1·2	15	1·6	11	3·0	12	2·3	11	1·4	12	1·9	13	1·9	10	1·6	13	1·4	12	1·1	12	5·8
2	10	3·3	11	2·1	11	2·9	10	2·2	10	1·5	10	1·3	15	1·9	12	1·3	12	2·7	11	2·0	12	2·0	13	1·7	11	1·5	16	1·8	14	2·0	12	3·4
3	10	4·5	11	1·9	11	2·1	10	2·5	10	0·8	10	1·2	12	0·8	09	2·0	12	2·6	12	1·8	13	1·8	13	2·7	11	2·9	16	1·4	14	1·9	12	3·3
4	10	3·2	11	2·3	08	3·2	11	2·3	10	0·8	07	2·0	17	1·0	06	1·4	11	2·5	12	2·2	13	1·8	13	1·6	12	1·5	16	1·7	15	1·8	11	3·9
5	11	4·7	11	2·4	09	2·8	11	1·8	10	1·1	11	1·4	16	1·2	13	1·1	11	1·9	11	2·5	13	1·9	13	1·6	12	2·3	16	1·8	13	1·3	11	4·1
6	10	4·6	11	2·1	11	2·5	11	2·3	10	1·6	11	1·9	16	1·1	13	1·0	11	1·9	12	2·4	13	2·0	13	1·9	12	2·2	16	2·0	12	1·2	11	3·7
7	09	5·0	11	1·8	11	2·6	11	2·2	10	1·4	11	1·1	22	0·8	12	2·0	11	2·3	12	1·9	13	2·4	13	1·8	11	2·0	16	1·7	12	2·0	12	4·2
8	09	5·0	11	2·8	11	2·2	11	2·0	10	0·7	11	1·4	r14	2·5	12	2·3	11	2·2	12	1·3	13	1·6	13	1·3	10	1·9	16	0·9	11	4·1	12	5·1
9	09	4·5	10	4·2	10	2·2	10	2·0	15	1·2	10	1·3	11	3·4	11	3·4	10	4·9	10	3·6	14	1·6	13	0·8	10	2·6	12	1·2	11	6·5	12	6·9
10	09	6·1	11	5·1	10	4·2	07	3·6	10	1·6	10	1·3	11	5·1	10	5·2	10	5·7	10	4·1	12	2·2	11	3·1	09	3·9	12	4·4	09	7·0	11	7·2
11	10	6·2	11	4·9	09	4·4	08	4·0	10	3·1	07	1·2	11	4·7	11	5·1	10	5·6	09	4·0	12	3·5	11	3·5	09	3·7	12	4·2	11	6·0	10	5·4
Noon	09	6·2	09	5·8	08	4·0	08	3·9	10	2·9	06	1·4	11	5·0	10	5·5	10	5·3	09	3·6	12	3·9	11	3·4	11	3·5	09	4·7	12	7·6	10	8·1
13h	09	5·6	08	6·4	10	3·2	08	4·2	09	3·3	04	2·0	11	5·3	10	5·4	10	5·2	08	3·5	10	2·9	10	3·3	10	3·5	09	4·4	11	6·8	11	6·0
14	09	5·5	09	5·8	11	3·8	11	4·2	08	5·5	d18	1·9	09	5·0	11	5·3	10	4·9	11	2·4	11	3·2	09	3·1	11	2·7	11	4·4	12	6·6	12	7·1
15	12	5·0	09	5·6	10	4·0	09	4·3	09	3·9	18	1·3	10	5·0	11	5·2	10	5·1	10	2·7	12	3·9	11	3·7	10	2·5	11	4·1	11	6·0	11	4·5
16	10	4·4	10	4·9	08	3·9	11	3·5	10	4·4	11	1·3	10	4·5	11	4·3	11	4·1	10	2·7	11	3·0	10	3·4	11	1·4	11	3·8	11	5·8	11	6·3
17	10	4·0	10	3·8	09	3·1	10	2·8	09	3·2	18	0·9	10	2·7	11	2·9	11	2·9	10	2·3	13	2·2	10	4·1	11	1·2	11	3·4	12	4·7	11	3·7
18	10	2·5	10	2·0	10	2·6	10	2·0	09	2·3	18	0·7	10	2·4	11	2·3	11	2·1	10	1·1	13	2·2	11	1·6	11	0·9	11	2·6	11	2·8	10	3·5
19	11	2·5	10	1·4	10	1·4	10	1·6	09	1·5	14	1·1	10	1·3	11	1·7	11	2·2	10	2·1	13	1·8	11	1·8	11	0·9	11	2·0	12	1·8	10	4·9
20	10	2·1	10	2·0	10	3·0	09	1·7	09	3·1	14	1·4	10	1·3	11	2·7	10	2·2	11	2·1	13	1·4	11	1·2	12	1·2	11	1·4	12	3·5	12	4·6
21	10	2·7	10	2·2	10	3·0	09	1·7	10	1·7	14	1·8	15	1·4	11	2·3	10	2·3	11	2·2	13	2·0	11	1·7	13	1·0	11	2·3	11	4·2	12	5·0
22	10	2·0	09	2·6	10	3·0	09	2·2	10	2·0	14	1·2	11	2·1	11	2·4	11	2·1	12	2·8	13	2·2	11	1·1	13	1·3	11	2·0	11	4·8	10	5·0
23	10	2·2	09	3·0	09	3·0	09	2·2	10	1·8	15	1·4	11	2·5	11	2·0	11	2·3	12	2·5	13	1·7	11	1·0	13	1·1	11	2·8	11	3·4	11	5·3

Hour.	17d.		18d.		19d.		20d.		21d		22d. *		23d. *		24d. *		25d.		26d.		27d.		28d. *		29d		30d		...		Mean.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	09	5·5	11	2·3	10	1·8	10	2·2	10	2·2	07	1·6	17	1·7	12	1·2	12	2·1	12	1·2	11	1·5	11	2·0	10	1·7	10	3·9	...	...	2·2
1h	11	3·9	11	1·4	11	1·8	10	2·2	10	3·8	07	1·2	10	0·7	12	1·5	12	1·8	12	1·3	11	1·9	11	1·8	10	1·8	10	3·0	...	...	2·1
2	10	4·8	11	2·2	09	1·8	10	2·1	10	1·9	07	1·2	16	0·6	12	1·1	12	1·8	13	1·8	11	2·1	11	1·8	10	1·8	10	2·4	...	...	2·0
3	10	5·7	10	3·6	11	2·0	08	3·1	10	1·8	07	1·4	16	0·8	12	1·4	12	1·3	14	1·2	11	1·9	11	1·6	10	0·9	10	3·4	...	...	2·1
4	10	4·7	09	2·9	11	1·7	09	3·0	10	2·8	07	1·9	11	0·9	12	1·9	12	1·5	11	2·0	11	2·3	11	1·8	11	1·7	11	3·1	...	...	2·1
5	09	5·9	09	4·3	11	1·3	09	3·1	09	2·8	07	1·5	11	1·1	12	1·2	12	1·1	13	1·2	11	2·2	11	1·8	11	1·9	11	3·0	...	...	2·2
6	11	5·1	09	2·8	10	1·9	08	3·4	07	2·9	07	1·2	11	0·7	12	2·0	12	0·7	14	1·3	11	1·8	11	1·5	10	1·6	12	3·2	...	...	2·2
7	10	6·0	09	3·9	10	2·2	08	3·4	07	3·3	07	1·2	11	1·3	12	1·8	13	1·2	13	2·1	05	1·1	11	1·0	10	0·9	11	3·8	...	...	2·3
8	11	4·4	08	3·7	10	2·1	08	3·7	06	3·0	07	1·1	11	1·0	12	1·0	14	0·9	13	1·9	05	1·1	11	0·7	11	1·8	12	3·7	...	...	2·3
9	09	5·8	08	4·6	10	4·1	08	5·0	10	3·0	07	1·6	11	1·1	12	0·6	14	2·2	08	4·2	08	1·8	11	1·1	10	3·2	10	4·1	...	...	3·1
10	09	6·3	11	3·7	09	4·5	08	5·3	07	3·3	05	2·1	14	2·0	12	0·9	13	3·0	10	4·4	11	3·5	10	2·6	11	4·4	10	4·0	...	...	4·0
11	09	5·7	08	6·6	09	5·7	09	5·4	07	4·4	05	2·1	21	0·7	18	1·9	12	3·1	09	4·4	09	4·1	10	1·3	09	4·9	11	4·4	...	...	4·1
Noon	10	5·5	08	6·5	10	5·4	08	5·8	06	5·2	03	2·5	15	1·2	21	2·7	14	2·5	11	5·3	12	4·7	07	2·3	09	6·0	12	5·0	...	...	4·5
13h	10	4·5	08	5·0	09	6·0	08	4·0	05	4·8	03	2·6	15	1·1	15	3·0	13	2·4	10	4·2	09	3·8	07	2·6	09	4·0	11	4·3	...	...	4·1
14	10	5·7	08	5·5	10	5·2	08	4·5	05	4·2	02	2·1	15	0·6	13	3·1	14	3·7	04	3·8	07	3·7	d20	1·5	09	5·7	12	4·7	...	...	4·2
15	09	5·0	08	5·3	11	4·9	09	5·2	06	4·1	32	1·8	15	0·7	13	2·2	11	2·9	11	4·4	09	3·2	d28	1·1	06	5·1	12	4·9	...	...	3·9
16	09	5·4	08	5·5	10	4·1	09	4·3	07	3·3	32	0·7	14	1·7	19	1·6	12	2·8	10	5·3	09	3·0	27	0·6	10	4·0	13	4·7	...	...	3·6
17	10	5·0	08	3·2	10	3·6	09	4·3	06	2·1	32	0·6	14	2·0	15	3·9	12	2·7	12	3·9	08	1·8	27	0·6	10	2·3	12	3·3	...	...	2·9
18	09	4·3	08	2·1	09	3·3	09	3·1	06	1·4	32	0·6	14	1·6	14	1·5	12	2·1	12	2·2	08	1·1	27	1·1	10	1·8	12	3·6	...	...	2·1
19	10	4·0	09	2·4	10	2·1	09	2·1	06	1·8	32	1·1	12	1·4	14	1·1	12	0·9	12	2·2	08	1·3	27	1·3	10	1·7	12	3·5	...	...	1·9
20	11	3·3	09	3·0	11	1·9	09	2·4	07	2·5	06	1·2	12	2·0	14	1·4	12	1·3	12	2·4	10	2·3	27	1·7	10	1·8	12	3·1	...	...	2·2
21	10	2·8	09	2·4	10	1·8	09	2·8	07	1·6	10	1·0	12	1·2	14	1·8	12	1·5	11	1·8	10	2·1	27	1·8	10	2·2	12	3·5	...	...	2·2
22	11	2·5	10	1·3	10	1·5	09	3·3	07	1·9	10	0·8	12	0·7	14	1·2	12	1·5	11	2·1	10	2·3	d06	1·5	10	3·3	12	3·3	...	...	2·2
23	11	2·8	10	2·0	10	2·3	09	2·2	07	2·5	15	2·1	12	1·1	12	2·1	12	0·7	11	1·5	11	2·7	10	1·8	10	2·5	12	2·9	...	...	2·2

TABLE XIII.—WIND FREQUENCY (NUMBER OF OBSERVATIONS), JUNE 1937.

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	...	...	...	...	3	9	14	2	2	...	...	...	...	...	...	...
9	...	3	27	...	.	...	...	7	11	9	2	1	...	...	...	...	...	...	...
15	...	2	28	1	...	...	2	7	5	12	...	1	1	...	...	...	...	1	...
21	...	...	30	...	.	...	...	4	10	12	2	1	...	...	...	...	...	1	...
Totals	...			1	...	.	2	21	35	47	6	5	1	...	...	...	...	2	...

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for JUNE 1937.

Hour \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	...
	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	...	..	0·6	...	..	...	...	0·1	...	...	...	...	...	...	...	...	...	...	. .	0·1	...	...	1·3	..	...	...	...	...	...	...	..
2	...	...	0·1	...	...	...	...	0·3	...	...	...	..	...	...	..	...	...	...	...	0·5	. .	...	..	..	...	...	...	...	...	...	...
3	...	..	...	0·2	...	...	...	0·4	...	.	..	..	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...
4	...	...	..	...	..	...	.	0·8	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	. .	..	0·5	...	..	0·5	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	0·6	...	...	...	...	...
6	...	...	0·4	...	..	1·3	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
7	...	...	...	...	...	0·1	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
8	..	...	.	...	.	...	...	...	...	...	...	...	..	...	...	.	...	...	..	...	.	...	...	...	...	...	...	...	...	...	...
9	..	...	0·1	...	...	...	..	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	. .	...	..	...	...	...	...	...	...
10	...	...	...	..	...	..	...	...	...	...	...	..	...	. .	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...
11	..	0·2	...	...	...	...	...	..	...	.	..	..	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	..	...	...	...	...
Noon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	0·2	...	...	...	...	...	...	...	...	...	...	..
13h	...	0·1	...	...	...	0·2	...	...	.	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	0·1	...	..	..	...	...	...	...	...	...	...	0·4	...	...	0·3	...	...	...	...	...	...	..	...	...	...	...
15	...	...	..	...	...	0·1	...	...	...	...	..	...	...	...	...	..	...	...	...	0·1	1·1	...	...	...	...	0·1	...	...	..	..	..
16		...	...	...	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
17	...	...	...	...	..	1·2	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...
18	...	...	0·1	...	...	...	0·3	...	...	...	...	...	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
19	...	...	0·2	...	...	...	1·1	..	...	...	...	...	...	...	...	..	...	...	...	...	...	1·7	...	...	...	...	...	...	...	...	...
20	...	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...
21	...	...	0·2	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	0·3	..	...	...	..	...	...	...	...	...
22	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	..	2·2	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	3·2	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...	...	1·6	. .	...	...	...	...	...	...	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR JUNE 1937.

Hour \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	..
	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	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	0·2	...	1·5	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...
3	0·4	...	...	0·2	...	...	...	...	...	..	...	...	...	...	...	...	0·1	...	0·1	...	...	...	.	..	.	0·1	...	...	...	...	...
4	...	...	...	...	0·1	...	..	...	...	...	...	...	...	...	...	...	...	...	...	0·4	.	...	...	...	...	...	...	...	...	...	...
5	...	...	1·8	...	..	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	0·1	...	...	...	...	...
6	...	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2	...	...	...	...	...	...	...	0·1	...	...	...	...	...
7	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	0·2	...	...
8	...	...	...	0·5	...	...	...	...	...	...	...	...	...	...	...	0·2	...	0·3	...	...	0·9	0·9	...	...	...	...	...	...	...	...	...
9	...	...	...	0·2	...	...	. .	...	...		...	...	...	...	...	...	...	...	...	0·2	...	1·4	...	...	...	...	...	...	...	...	...
10	..	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	0·7	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...	...	...	...	...	...	...
Noon	...	0·7	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	0·7	...	...	0·2	..	...	...	...	...	...	...	...	...	...
13h	...	0·2	...	...	...	9·1	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	. .	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...
15	..	...	...	...	..	2·8	...	...	...	...	...	...	..	...	...	...	...	..	...	...	...	0·1	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	7·1	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	1·3	...	...	...	0·8	...	...	...	...	...	...	...	...	...	0·2	...	...	...	..	0·1	...	...	...	0·2	...	...	...	...	...
18	...		0·2	...	...	...	0·4	...	...	..	...	...	...	...	...	...	0·9	...	...	...	...	..	...	...	...	...	...	...	...	...	...
19	...	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	..	0·2	...	...	...	...	...	...	...	...	...	...	...
20	...	...	0·4	...	...	...	0·1	...	...	...	...	...	...	...	...	...	0·2	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...
21	...	...	0·3	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	..	...	...	..	...	...	...	0·3	...	...
22	...	...	0·5	..	...	.	1·1	...	...	...	...	...	...	...	...	...	...	...	..	...	...	0·3	...	...	...	...	...	...	0·1	...	...
23	...	0·2	0·1	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	..	2·2	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	3·0	...	...	...	...	...	...	...	...	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for JUNE, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	2.41	...
	St. Antoine	50	1.50	38.1	2.40	9
	Bel Mont	50	1.70	43.2	2.85	9
	Poudre d'Or	20	2·40	61.0	2.74	9
	Mon Loisir (S.E.) ...	300	1.11	28.2	3.91	5
	Forbach	300	1.88	47.8	2.55	8
	Couroupa	...	1.72	43.7	2.43	9
	* Labourdonnais	290	...	...	3.02	...
	Mapou Water Office ...	...	0.75	19.1	...	4
	Beau Séjour	300	1.81	46.0	4.05	10
	Mont Piton	650	3.19	81.0	4.59	10
	Mon Choix	700	1.42	36.1	4.36	8
	Antoinette	640	...	...	4.20	...
	Mon Songe	620	2.38	60.5	4.48	9
	Botanical Gardens ...	325	...	...	3.01	...
	* The Observatory ..	179	1.06	27.0	2.41	13
	Solitude	175	...	...	1.38	...
	St. André (Cour) ...	90	0.58	14.7	1.87	2
	La Nicolière	...	2.41	61.2	5.29	11
	California	...	2.70	68.6	...	9
	Australia	...	1.92	48.8	...	5
2 & 3	Union Régnard (Flacq S.E.) ...	600	2.89	73.4	5.04	9
	Constance d'Arifat (L.S.) ...	100	2.01	51.1	4.18	15
	Rich Fund	600	2.25	57.2	4.57	10
	La Joffrette	...	3.40	86.4	...	8
	Belle Vue (Allendy) ...	..	1.90	48.3	3.74	8
4	Sans Souci	900	4.13	104.9	10.46	17
	Beau Champ (G.R.S.E.) ...	20	1.28	32.5	4.10	10
	Olivia	400	2.19	55.6	6.03	15
	Trois Ilots	...	1.82	46.2	..	12
	Belle Rive	400	2.90	73.7	6.27	15
	Sébastopol	700	3.47	88.1	...	10
	Bonne Veine	400	3.18	80.8	6.55	16
5	Rose Belle	850	2.44	62.0	8.31	17
	New Grove	650	2.13	54.1	9.60	12
	Mon Trésor	...	1.03	26.2	...	6
	Mon Désert (Carié) ...	75	2.17	55.1	3.78	11
	Ferney	20	...	...	6.20	...
	Sauve Terre	...	1.84	46.7	...	9
6	Tivoli	1,300	4.00	101.6	9.35	20
	La Flora	1,050	3.13	79.5	8.16	18
	Riche Bois (Brit.) ...	650	2.61	66.3	5.87	14
6	Britannia (Estate) ...	700	3.27	83.1	8.19	17
	Savannah (Mill) ...	200	2.31	58.7	4.81	11
	St. Aubin	300	1.73	43.9	4.94	11
	St. Avold	900	2.53	64.3	7.72	16
	Colmar	400	3.28	83.3	6.79	15
	Union (S.E.)	...	2.11	53.6	3.37	8
	Fontenelle	320	3.45	87.6	4.61	9
	Choisy	200	1.22	31.0	3.18	8
	Beau Bois	...	3.35	85.1	...	12
	Bel Air	...	1.97	50.0	3.42	4
	St. Félix	...	2.48	63.0	...	4
7,8,9&10	Bel Ombre	40	...	...	3.64	...
	Beau Champ (B du Cap) ...	70	...	...	2.79	...
	Frédérica	...	...	...	3.27	...
	Pierre Fonds	...	1.07	27.2	1.11	9
	St. Marie	...	...	...	...	...
	Hussonia	...	...	...	...	...
11	Curepipe Gardens ...	1,840	4.42	112.3	7.55	28
	Mare aux Vacoas (G.E.) ...	1,850	2.61	66.3	7.79	15
	Mare aux Vacoas (Arn) ...	1,830	4.10	104.1	10.62	17
	La Marie Filter Beds ...	1,700	1.92	48.8	6.01	12
	* Sophie	...	3.73	94.8	...	20
	Réunion	1,420	2.00	50.8	4.60	13
	* Aerological Station ...	1,393	1.97	50.1	3.85	19
	Phoenix	...	2.42	61.5	...	7
	Quatre Bornes ...	...	1.55	39.4	...	7
12	Quatre Bornes (Board) ...	1,090	1.48	37.6	...	6
	* Le Réduit (D of A) ...	1,000	2.72	69.1	2.33	26
	Alma	1,460	3.61	91.7	7.84	17
	Bagatelle	1,250	2.30	58.4	4.33	9
	Highlands	1,300	1.77	45.0	4.78	9
	Trianon	950	1.88	47.8	2.71	7
	Val Ory	1,100	...	...	3.10	...
	Bassin	..	0.57	14.5	1.35	5
	Hermitage	1,450	3.85	97.8	7.10	9
	Ebène	...	2.04	51.8	...	6
	Béga	...	2.47	62.7	...	5
	Mon Rêve	...	2.30	58.4	...	5
	Mon Pevril	...	2.95	74.9	...	5
	Minissy	1,150	1.83	46.5	3.00	5
	Plaisance	...	1.77	45.0	...	6
	La Ferme	350	1.00	25·4	1.35	4

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 JUNE 1937.

Day.	Time	Scud Dir.	Scud 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	Scud Dir.	Scud 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
		°		°		°		°		°		°			°		°		°		°		°		°	
1	...	...	...	...	...	...	..	...	...	...	...	...	...	14¼	110	11·0*	120	16·3*	...	.	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	..	...	...	14¼	87	20·4*	72	17·7*	...	...	...	...		...	...	...
3	...	..	...	...	...	...	...	...	...	..	...	...	...	14¼	90	22·1*	95	11·3*	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	14½	128	8·7*	73	8·5*	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	9¾	...	...	300	...	315	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	14¼	..		120	3·9*	...	...	...	...	...	...	...	...
8	...	...	...	..	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
10	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	. .	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
14	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	. .	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	..	...	...	...	14½	...	...	.	...	315	4·7*	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...
18	10¼	...	...	105	13·4	255	...	...	...	...	...	...	...	15	..	...	120	20·3	...	...	...	...	...	...	...	...
19	9¾	...	...	90	...	270	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	10¾	200	15·4	195	...	...	...	...	...	...	...	...	15	...	...	...	200	7·0	..	...	...	...	...	...	...	...
25	10	...	...	150	...	..	...	...	...	...	...	...	...	14¼	...	...	180	3·3*	...	...	. .	...	...	..	...	...
26	...	..	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	90	7·1*	..	...	...	...	...	...	...	.
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	..	...	...	...	...	...	...	...	...	...	...	...	14¼	...	...	115	7·0*	...	...	...	...	...	...	...	...
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.

246/2/38—R.A.O. 250.

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ROYAL ALFRED OBSERVATORY, MAURITIUS

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RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

JULY, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

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1938

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF JULY, 1937

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 1 γ)	Daily Range† Vertical Force (Unit 1 γ)	HR: 10000	ZR: 10000
JULY	° ′			′				
1	13°22·2	·22474	·29721	5·0	47	27	106	80
2	22·8	470	726	4·3	26	17	58	50
3	23·0	476	725	3·6	28	10	63	30
4	22·8	482	722	6·0	27	22	61	65
5	22.6	488	719	5·0	32	29	72	86
6	22·8	476	719	7·0	72	43	162	128
7	23·5	463	725	6·3	57	20	126	59
8	23·4	471	716	8·2	30	50	68	148
9	23·4	483	714	8·5	37	43	83	128
10	23·2	466	718	6·5	35	34	79	101
11	23·0	472	721	8·3	54	38	121	113
12	23·2	468	721	6·0	40	23	90	68
13	22·8	475	720	7·4	47	25	106	74
14	22·9	446	720	7·3	112	46	252	137
15	...	450	724	...	71	32	159	95
16	23·9	458	724	8·3	40	21	90	62
17	23·9	444	720	6·8	65	29	146	86
18	23·9	486	716	7·2	37	42	83	125
19	23·8	490	719	10·2	49	42	110	125
20	23·7	479	720	7·5	102	27	230	80
21	23·3	475	717	6·8	69	25	155	74
22	23·8	433	726	7·5	88	29	197	86
23	23·5	442	724	6·5	62	46	139	137
24	22·8	445	722	9·5	80	31	179	92
25	23·1	455	723	9·0	57	36	128	107
26	23·4	466	725	6·5	43	36	97	107
27	23·7	479	723	7·0	45	27	101	80
28	23·5	481	718	8·0	28	29	63	86
29	23·7	482	722	7·5	32	24	72	71
30	23·5	493	720	7·3	52	33	117	98
31	23·5	490	720	6·3	44	20	99	59
Mean	13°23·29	·22470	·29721	7·04	51·9	30·8	116·6	91·5

Description of the Principal Magnetic Disturbances.

Declination.—5d., 6d. & 7d. Slightly disturbed at times.
9d. & 10d. Very slightly disturbed at times.
14d. & 15d. Slightly disturbed at times.
19d, to 21d. Slightly disturbed at times.
22d. to 26d. Slightly disturbed. Important increase in the trace (7.5′) between 3^{h} to 6^{h} on 24d.

Horizontal Force.—5d., 6d. & 7d. Moderately disturbed; irregular pulsations of small amplitudes in the trace at times.
9d. & 10d. Very slightly disturbed at times. 10d. 2^{h} to 3^{h} double wave of total amplitude 20γ; 5^{h} to 6^{h} double wave of total amplitude 25γ.
12d. Slightly disturbed during second half.
14d. Disturbed during second half; considerable increase in daily range.
15d. Slightly disturbed.
17d, Slightly disturbed at times.
19d. Sudden commencement at $16^{h}\cdot50^{m}$. of a disturbed period of long duration, ending gradually on 21d. Important increase in force (60γ) between $8^{h}\cdot30^{m}$ and $10^{h}\cdot30^{m}$ on 20d. with small rapid oscillations in the trace.
22d. to 26d. Moderately disturbed. Irregular fluctuations of lesser importance in the trace throughout.
30d. Slightly disturbed.

Vertical Force—5d., 6d. & 7d. Small pulsations in the trace at times.
14d. Disturbed during second half— small fluctuations in the trace between 19^{h} & 24^{h}.
19d. Sudden commencement at $16^{h}\cdot50^{m}$ of a moderately disturbed period; rapid pulsations on the trace throughout.
22d. to 26d. Slightly disturbed at times.

T=·37259: Mean Dip=52° 54′·59: (X=·21859: Y=−·05203: Z=·29721).

† 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 JULY 1937.

Declination (West) Day and Hour	Declination (West) Observed Value	Horizontal Force Day and Hour	Horizontal Force Observed Value	Dip (South) Day and Hour	Dip (South) Observed Value	Resulting Vertical Force
d h m	° ′	d h m		d h m	° ′	
6·11·17	13·24·6	17·11·35	·22486	6.11.05	52.52.81	·29718
9·10·49	13·25·8	22 11·44	·22418	9·10·39	52·52·56	·29724
20·15·01	13·21·3	24· 9·28	·22459	20·15·13	52·53·00	·29707
30·15·20	13 19·0	29·11·22	·22483	30·15·32	52·52·44	·29713
		31· 9·45	·22513			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

JULY 1937

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	23·0	23·5	22·5	23·0	22·5	23·3	24·0	24·0	23·7	23·7	23·0	23·7	22·7	23·5	...	24·7	Midnight
1h	22·5	23·0	23·3	22·7	22·5	23·0	25·5	24·3	24·3	23·7	23·0	24·3	22·5	23·3	...	24·0	1h
2	22·3	22·7	23·0	22·5	22·3	23·0	26·0	24·3	23·7	24·5	23·0	25·3	22·5	24·0	...	24·0	2
3	22·3	22·5	22·0	22·5	22·3	22·7	26·3	23·7	24·0	24·5	23·5	25·0	22·7	23·5	...	23·5	3
4	22·2	22·5	22·5	22·5	22·3	22·5	26·0	23·5	24·0	25·3	23·5	23·5	23·0	23·0	...	23·5	4
5	21·0	22·3	22·7	22·5	22·3	22·5	25·0	23·5	23·5	24·0	23·5	25·0	23·0	22·7	...	23·5	5
6	21·5	22·0	22·5	22·3	22·0	22·0	23·5	23·0	23·5	23·0	23·5	24·0	22·5	22·5	...	23·0	6
7	20·7	20·7	21·0	21·3	21·0	21·5	20·5	22·0	22·5	20·5	22·0	21·5	22·0	22·5	...	22·5	7
8	20·7	21·0	20·7	21·5	22·0	22·5	20·7	22·7	22·7	20·0	22·7	21·5	22·0	22·7	21·0	23·5	8
9	23·0	23·0	22·5	23·5	24·3	24·3	23·0	24·5	23·0	20·0	24·5	23·0	25·0	23·5	23·5	26·5	9
10	24·5	24·3	24·0	24·5	25·0	26·0	24·0	26·5	25·5	22·0	26·0	24·5	26·5	24·7	25·5	27·3	10
11	24·7	25·0	24·3	25·7	24·0	25·0	24·5	26·7	26·5	25·0	26·3	25·5	26·7	26·0	25·0	27·0	11
Noon	22·3	24·7	23·5	24·3	23·7	24·0	23·0	26·5	26·0	26·5	25·5	26·0	24·7	25·0	23·5	28·3	Noon
13h	21·0	23·5	22·7	23·5	21·5	23·5	20·7	24·0	24·0	25·5	24·0	23·0	23·0	24·0	22·5	25·0	13h
14	20·2	22·0	23·0	22·0	20·0	22·0	20·0	20·7	20·5	23·5	21·5	20·7	21·5	23·0	21·0	23·0	14
15	19·7	21·0	22·0	20·5	20·0	19·0	20·3	18·5	18·5	21·0	19·0	20·0	20·0	20·5	19·0	20·7	15
16	20·5	20·7	21·5	19·7	20·0	19·0	21·5	18·7	18.0	20·3	18·0	20·0	19·3	18·7	19·7	20·0	16
17	21·5	22·0	23·0	21·5	21·7	21·0	23·5	21·0	21·0	21·5	20·0	21·5	20·0	20·0	21·0	21·0	17
18	22·7	23·0	24·0	23·5	23·0	23·0	24·5	23·5	23·0	23·0	22·5	22·7	22·5	21·0	23·3	22·5	18
19	23·3	23·5	24·3	23·7	23·0	23·0	24·7	24·0	24·0	24·0	22·7	23·3	22·5	22·0	24·0	22.7	19
20	23·5	23·7	24·3	23·7	23·5	24·0	24·5	24·0	25·0	24·0	22·5	23.5	22·7	21·0	23·7	24·3	20
21	23·7	24·0	24·0	23·5	24·0	22·7	24·3	24·5	25·0	24·0	23·7	23·5	23·3	23·5	24·3	24·3	21
22	23·5	24·0	24·0	23·5	24·3	23·6	24·3	24·0	24·5	24·0	23·7	23·5	23·5	24·5	24·5	24·5	22
23	23·0	23·7	23·7	23·0	23·5	24·5	24·0	23·5	24·2	23·5	24·0	23·3	23·7	24·5	24·7	24·7	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. \ Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	24·3	24·0	24·5	25·0	23·5	24·0	25·5	25·0	27·0	22·7	24·3	23·5	23·5	23·7	24·0	23·9	Midnight
1h	24·0	23·7	24·3	24·5	23·5	24·0	26·5	24·3	24·5	23·5	24·0	23·5	23·0	23·5	23·5	23·7	1h
2	24·5	23·5	24·0	23·5	23·0	24·0	25·0	23·5	24·0	23·5	24·0	23·5	22·7	23·3	23·5	23·6	2
3	24·3	23·7	24·0	22·7	23·5	25·0	24·7	23·0	23·5	23·0	24·0	23·3	23·0	23·5	23·5	23·5	3
4	24·0	23·5	23·8	22·0	23.0	24·5	24·3	22·0	22·0	23·0	23·7	23·5	23·0	23·5	23·7	23·3	4
5	23·5	23·0	23·5	21·5	23·3	24·7	23·5	16·0	22·5	23·0	23·5	23·0	23·5	23·0	23·7	22·9	5
6	23·0	22·7	23·3	22·3	23·0	24·5	22·0	21·0	23·0	23·0	23·5	23·5	23·0	22·7	24·0	22·8	6
7	22·0	22·0	21·5	20·7	22·0	23·0	20·7	19·0	22·0	22·5	22·7	22·7	22·5	22·5	23.0	21·7	7
8	23·0	23·0	22·5	20·5	22·3	22·0	20·0	20·0	22·0	22·7	24·0	23·0	24·0	23·0	23·7	22·1	8
9	26·0	26·0	26·0	22·5	25·0	25·0	23·0	22·0	23·0	25·0	26·0	25·0	26·5	25·5	25·5	24·2	9
10	27·5	27·3	28·0	26·0	26·5	25·0	22·5	23·7	25·5	26·5	27·5	26·7	28·0	27·0	26·3	25·6	10
11	26·5	27·7	29·7	28·0	26·3	26·0	24·3	25·5	25·5	26·0	26·5	27·5	27·5	26·0	25·0	26·0	11
Noon	26·3	27·3	28·0	28·3	25·0	24·0	24·5	24·7	24·0	24·0	24·0	25·0	26·0	24·3	24·5	25·1	Noon
13h	23·5	25·0	23·5	27·5	25·0	21·0	24·0	22·5	22·0	22·7	22·0	22·5	23·5	23·0	23·0	23·3	13h
14	22·0	22·0	20·7	24·0	23·5	18·5	22·0	22·3	20·3	22·0	21·5	20·0	22·0	21·5	21·5	21·6	14
15	21·0	20·7	20·0	21·5	20·7	20·0	20·5	20·5	18·0	20·0	20·7	19·5	20·5	20·0	20·0	20·1	15
16	20·7	20·5	19·5	21·5	19·7	21·0	20·3	20·0	19·0	20·5	20·5	19·7	20·7	19·7	20·3	20.0	16
17	22·0	22·0	20·0	22·7	20·0	22·0	22·0	22·0	22·5	22·0	22·7	22·0	22·0	21·5	21·0	21·6	17
18	23·3	23·5	22·7	24·0	22·0	24·0	23·0	24·3	24·0	23·5	23·5	23·5	23·5	23·0	22·5	23·2	18
19	24·0	24·0	23·8	24·3	23·5	24·7	24·3	24·5	24·5	23·7	24·3	24·5	24·0	24·3	24·0	23·8	19
20	24·0	24·3	23·7	24·2	24·0	24·7	24·7	25·0	25·0	24·3	24·5	24·5	24·0	24·7	24·5	24·0	20
21	24·5	24·3	23·7	24·2	23·7	26·0	25·0	25·0	25·0	25·0	24·5	24·5	24·5	25·3	24·3	24·3	21
22	24·5	24·0	24·5	24·0	23·5	26·3	25·0	25·3	25·0	25·0	24·3	24·5	24·3	24·7	24·5	24·3	22
23	24·3	24·5	25·0	24·0	24·0	26·0	26·3	26·0	23·0	24·7	24·0	24·3	24·0	24·5	24·3	24·2	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)

JULY 1937.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day \ Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	477	470	479	472	485	491	435	457	470	477	460	450	470	473	410	442	Midnight
1h	473	467	465	472	487	492	430	465	475	477	462	448	469	475	427	440	1h
2	475	467	467	474	490	497	440	468	473	470	463	450	472	475	435	449	2
3	477	469	470	477	492	500	447	470	477	480	467	447	473	467	440	450	3
4	479	468	473	479	495	495	450	471	480	472	467	460	476	477	445	453	4
5	483	470	475	482	502	495	457	475	482	460	471	467	475	483	443	457	5
6	487	472	474	483	500	485	465	477	485	480	473	475	481	485	460	463	6
7	490	480	479	487	500	490	470	480	487	475	477	483	487	483	463	470	7
8	492	483	485	490	502	500	473	487	493	475	483	487	491	484	473	477	8
9	490	487	489	491	498	500	477	483	495	477	485	485	492	487	481	477	9
10	477	483	493	497	497	497	475	477	500	471	497	480	497	487	477	480	10
11	467	475	490	497	490	490	475	475	502	470	490	475	497	480	477	477	11
Noon	475	473	487	495	487	490	483	470	507	470	487	475	493	467	475	475	Noon
13h	480	475	485	487	490	487	487	470	497	473	490	470	475	445	465	460	13h
14	478	475	477	478	485	487	480	468	489	460	487	483	460	435	455	452	14
15	472	465	472	473	480	485	481	467	480	450	492	473	450	420	435	443	15
16	467	463	470	470	475	467	469	465	485	445	483	467	450	417	437	440	16
17	463	467	470	477	477	450	467	465	483	449	473	465	457	405	445	441	17
18	445	469	471	485	470	440	467	470	483	452	463	466	465	395	445	453	18
19	460	468	471	480	477	428	460	474	470	455	471	467	473	375	443	455	19
20	467	461	472	482	485	429	460	470	473	457	450	468	477	383	445	462	20
21	467	461	471	483	483	430	463	470	470	457	449	467	477	380	445	465	21
22	466	464	472	483	480	430	460	473	470	460	443	467	475	395	452	460	22
23	463	463	473	485	485	429	458	473	475	461	445	467	473	400	447	463	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d	Mean	Day. \ Hour.
	·22000 + (C.G.S. UNIT)																
Midnight	465	477	477	457	467	466	413	425	433	463	462	472	477	473	485	462·3	Midnight
1h	463	478	480	443	465	464	430	433	430	465	462	473	480	475	483	462·8	1h
2	467	480	490	455	470	460	440	445	443	463	467	475	481	477	483	466·5	2
3	468	477	490	463	472	465	445	455	447	463	470	477	481	480	483	469·0	3
4	470	478	495	465	475	470	442	465	455	467	471	476	480	480	486	471·5	4
5	471	481	495	485	478	465	445	483	463	473	473	482	482	483	489	475·0	5
6	477	486	497	483	482	465	445	480	465	470	477	485	483	489	490	478·0	6
7	483	492	507	497	485	463	455	465	473	473	480	490	490	491	493	481·9	7
8	438	497	512	502	500	475	468	469	470	473	487	495	489	497	500	485·4	8
9	443	505	507	500	487	467	475	465	473	477	491	490	487	505	505	486·2	9
10	450	507	497	515	493	465	473	453	470	480	500	486	482	512	510	486·4	10
11	445	503	501	545	490	440	473	460	480	483	503	487	487	525	517	486·0	11
Noon	435	500	500	525	514	423	467	457	480	480	507	500	490	517	513	484·4	Noon
13h	433	497	485	495	485	410	465	463	477	482	500	493	502	495	510	478·3	13h
14	430	487	477	480	473	410	460	450	462	477	490	487	487	493	505	471·5	14
15	420	475	463	478	460	410	435	480	459	465	487	480	482	495	490	465·1	15
16	418	470	464	475	455	407	422	417	455	452	477	472	475	495	477	458·1	16
17	423	477	485	470	462	390	421	403	453	450	470	473	470	490	473	456·9	17
18	427	480	505	468	463	387	425	405	450	447	472	475	475	500	478	457·9	18
19	427	477	500	463	461	387	437	413	423	440	470	477	477	500	480	456·7	19
20	431	485	502	462	462	387	430	417	430	457	475	473	477	500	480	458·3	20
21	430	485	485	463	463	387	421	430	435	460	473	473	477	487	478	457·6	21
22	427	489	470	460	470	400	425	425	440	460	470	474	475	489	475	458·0	22
23	427	483	465	463	473	407	413	415	457	460	467	475	475	486	477	458·2	23

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

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

JULY 1937

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day
	·29000+(C.G.S. UNIT.)																
Midnight	726	729	724	725	721	721	729	725	721	721	725	729	725	725	739	731	Midnight
1h	725	727	726	725	721	720	729	727	721	721	724	729	723	724	733	731	1h
2	725	728	727	726	721	719	729	723	720	721	723	729	723	725	731	730	2
3	725	728	726	727	720	718	727	722	719	721	722	728	722	723	731	730	3
4	725	729	727	728	721	717	725	722	719	721	722	725	721	723	731	729	4
5	724	729	728	728	721	720	725	723	719	720	721	725	721	721	730	729	5
6	724	727	727	727	720	721	723	723	719	720	721	722	721	721	729	728	6
7	722	724	724	725	720	724	719	722	719	715	720	716	720	719	723	724	7
8	723	727	725	727	721	727	721	726	721	720	722	719	721	720	725	727	8
9	730	731	729	729	728	729	730	730	725	725	731	726	726	721	729	731	9
10	730	732	729	723	729	725	731	729	725	731	735	729	729	721	730	730	10
11	725	731	729	719	720	722	730	719	720	729	729	727	725	722	724	729	11
Noon	709	729	723	713	711	715	719	710	710	721	729	719	720	715	711	721	Noon
13h	705	720	721	711	701	707	711	697	691	709	715	716	711	700	707	711	13h
14	703	719	719	707	700	696	715	680	682	697	701	711	707	691	708	711	14
15	706	715	720	710	705	687	719	680	687	697	697	709	704	695	709	710	15
16	709	718	721	720	711	700	725	693	695	700	701	706	710	700	715	711	16
17	719	721	723	725	719	717	729	709	710	709	711	711	719	711	720	718	17
18	723	726	728	725	724	725	730	719	719	717	720	719	722	721	725	723	18
19	727	726	729	724	725	726	730	721	720	720	721	721	721	728	725	723	19
20	726	727	727	723	725	729	730	722	721	723	721	722	721	729	727	725	20
21	726	728	727	722	720	729	729	725	721	725	727	722	721	737	728	724	21
22	725	727	726	722	724	730	727	723	722	725	729	723	723	737	729	724	22
23	726	726	725	721	725	730	727	721	722	725	729	723	724	734	729	725	23

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Hour \ Day
	·29000+(C.G.S. UNIT.)																
Midnight	725	722	720	719	721	721	733	730	733	730	730	728	726	726	723	725·9	Midnight
1h	724	721	720	720	721	721	731	729	728	730	729	727	725	726	725	725·3	1h
2	725	721	719	721	720	721	729	727	725	729	728	727	725	725	724	724·7	2
3	725	723	719	721	721	722	728	725	724	729	726	725	724	725	725	724·3	3
4	725	723	719	721	721	723	727	723	723	728	725	724	724	725	725	723·9	4
5	724	724	720	722	722	724	729	717	723	727	724	724	723	724	724	723·7	5
6	723	723	717	721	722	723	727	722	726	726	725	723	723	723	723	723·2	6
7	721	721	720	717	721	721	726	719	724	726	723	720	722	721	721	721·3	7
8	728	721	729	719	722	722	731	721	725	729	728	720	726	725	721	723·8	8
9	731	727	730	729	723	731	739	728	732	734	731	721	732	730	724	728·8	9
10	731	727	730	734	725	732	736	731	735	735	731	724	731	732	725	729·6	10
11	725	721	728	731	721	725	730	729	730	729	721	720	725	724	716	725·0	11
Noon	717	709	710	725	714	717	715	718	719	724	709	709	720	712	714	716·4	Noon
13h	710	691	688	711	701	709	703	705	703	715	704	701	712	699	706	706·2	13h
14	702	685	781	707	700	711	693	700	701	702	710	699	711	701	705	705·0	14
15	702	690	689	707	701	717	698	701	699	699	715	699	708	702	707	702·7	15
16	710	703	700	711	701	726	702	707	702	704	717	701	710	712	712	708·2	16
17	717	712	712	720	709	731	715	719	718	718	720	711	717	719	720	717·1	17
18	721	718	715	723	717	735	725	725	722	723	723	720	721	721	723	722·5	18
19	721	720	717	722	721	735	727	727	727	729	725	721	722	721	724	724·1	19
20	722	721	718	723	722	736	729	730	731	730	726	722	723	721	725	725·1	20
21	722	720	718	722	722	738	731	730	731	730	727	721	723	721	725	725·5	21
22	721	719	719	721	722	737	731	730	730	731	727	724	724	721	725	725·7	22
23	721	719	719	721	721	733	732	731	730	731	728	725	725	722	725	725·6	23

TABLE VI.—RESULTS of METEOROLOGICAL OBSERVATIONS made at the AEROLOGICAL STATION Vacoas (424·5 metres above mean sea-level) during the MONTH of JULY 1937.

Month and day 1937.	Observations at 10 a.m.									Temperature of the Air.							Rainfall			
	Atmospheric Pressure.	Temperature of the Air.	Excess of Air Temperature over Evaporation Temperature.	Temperature of the Dew Point.	Relative Humidity (Sat 100).	Vapour Pressure	Wind. Direction.	Wind. Velocity	Amount of Cloud (Scale 0—10).	3h	9h	15h	21h	Daily Maximum.	Daily Minimum.	Daily Range.	Amount recorded by the Casella Pluviograph.	Duration.	Duration of Bright Sunshine.	Percentage of Possible Sunshine.
JULY	mbs.	°	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	970·1	18·5	1·0	16·7	89	18·8	150	6·7	10	18·2	17·5	18·4	17·7	19·6	17·2	2·4	23·1	626	0·6	6
2	970·7	19·5	1·5	16·8	84	18·9	90	10·3	8	17·4	18·2	20·7	18·5	21·4	17·4	4·0	9·3	177	1·9	17
3	971·7	20·6	2·7	15·8	74	17·8	90	11·2	5	18·6	19·2	20·2	18·8	22·0	17·6	4·4	1·7	21	6·4	59
4	972·8	18·7	1·2	16·5	87	18·6	90	3·6	10	18·0	17·7	21·0	18·2	21·0	17·4	3·6	1·7	16	7·1	65
5	970·2	20·5	0·9	18·9	90	21·6	70	1·3	10	17·9	18·3	23·2	19·0	23·2	17·5	5·7	5·4	91	0·7	6
6	968·1	20·2	1·3	17·9	87	20·3	200	1·3	10	16·0	18·5	23·7	19·2	24·4	15·0	9·4	0·2	2	6·0	55
7	969·8	19·3	2·3	15·1	77	17·0	125	5·4	3	17·5	18·0	20·3	16·0	20·3	16·0	4·3	0·2	2	10·0	92
8	972·2	19·3	1·9	15·9	81	17·9	110	7·2	5	15·4	17·1	18·2	16·3	20·3	15·4	4·9	5·3	57	5·1	47
9	971·0	19·9	2·0	17·3	84	19·4	100	4·9	7	16·2	18·0	21·1	18·5	21·2	16·1	5·1	0·1	1	5·3	49
10	970·7	19·4	3·1	13·8	70	15·6	120	6·7	9	16·2	17·7	21·0	17·7	21·4	15·9	5·5	1·2	17	10·0	92
11	970·8	18·4	2·1	14·6	78	16·5	130	7·6	2	16·1	16·1	18·6	15·0	18·8	15·0	3·8	6·8	162	9·1	83
12	973·9	18·1	3·1	12·4	69	14·3	130	4·9	7	14·2	15·0	17·6	15·3	19·3	13·5	5·8	6·2	90	5·6	51
13	974·8	17·2	2·4	12·8	76	14·7	110	8·1	10	14·7	15·1	18·2	15·2	18·2	14·7	3·5	8·9	103	5·7	52
14	973·6	17·9	2·0	13·2	74	15·0	100	7·2	9	14·6	17·7	18·0	16·8	20·2	14·6	5·6	10·3	131	6·8	62
15	972·4	20·0	1·9	16·6	81	18·7	90	7·6	8	16·7	19·0	21·1	18·5	21·1	16·7	4·4	0·1	1	8·3	75
16	971·7	21·5	3·1	16·0	74	18·0	90	2·7	1	16·2	20·0	23·0	16·2	23·0	16·0	7·0	8·1	26	5·8	53
17	970·2	20·3	3·3	14·4	69	16·3	160	0·9	2	15·0	18·3	22·0	17·7	23·2	14·6	8·6	2·2	34	9·3	85
18	968·8	20·5	3·0	15·1	71	17·0	100	1·8	8	16·7	16·0	21·8	18·2	22·4	15·0	7·4	0·0	0	5·4	49
19	968·2	20·5	2·1	16·7	79	18·8	90	1·8	9	16·0	19·8	22·2	19·0	23·6	14·4	9·2	0·0	0	6·9	63
20	967·5	20·5	1·5	17·8	84	20·2	90	0·9	9	18·8	20·0	23·2	19·1	24·0	18·0	6·0	1·3	14	3·8	35
21	966·6	21·2	3·7	14·7	67	16·6	140	3·1	9	18·7	20·0	24·1	19·9	24·1	18·1	6·0	0·0	0	6·7	61
22	967·9	20·5	2·9	15·3	72	17·2	160	3·1	5	19·0	18·7	22·5	17·9	23·0	17·9	5·1	0·0	0	6·8	62
23	969·3	18·0	2·5	13·4	74	15·2	110	7·2	7	16·7	16·1	17·2	16·1	19·5	16·1	3·4	1·4	22	5·0	45
24	969·6	18·9	4·0	11·6	62	13·5	90	8·1	1	15·0	16·6	20·0	14·7	20·0	13·8	6·2	0·0	0	10·5	95
25	969·8	18·8	4·3	10·9	60	13·0	110	3·6	9	12·8	16·7	18·2	15·7	19·0	12·8	6·2	1·0	27	4·4	40
26	971·5	16·6	1·7	13·4	81	15·2	85	4·9	10	15·0	15·1	19·7	15·9	20·6	15·0	5·6	8·5	108	4·9	44
27	970·9	19·3	3·2	13·5	69	15·4	70	2·7	4	14·2	18·8	20·0	16·0	21·4	14·0	7·4	1·3	15	8·0	72
28	970·4	19·9	2·8	14·8	73	16·7	80	5·8	7	16·0	19·0	20·5	17·0	21·6	15·4	6·2	0·0	0	7·4	67
29	969·5	20·9	3·3	15·0	69	16·9	Calm		8	15·5	21·0	24·0	18·5	24·4	15·4	9·0	0·8	24	6·9	62
30	970·7	20·8	2·5	16·3	76	18·4	110	3·6	3	16·8	20·9	21·5	18·0	22·8	16·8	6·0	0·0	0	8·0	71
31	973·1	19·9	2·5	15·4	75	17·3	100	9·8	6	17·7	18·5	19·8	17·5	21·0	17·5	3·5	0·7	8	7·7	69
Mean	970·6	19·5	2·4	15·2	76·0	17·1	...	5·0	6·9	16·4	18·0	20·7	17·4	21·5	15·8	5·7	105·8	1775	6·32	57·5
Average	972·0	18·9	2·0	15·4	80·4	17·5	...	4·8	5·8	...	...	...	...	20·8	14·9	5·9	120·9	...	7·09	64·5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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

Atmospheric Pressure	+	42·4mbs.	Amount of rain	—	31·0mms.
Temperature of the Air	+	3·0°C	Duration of sunshine	+	25·7hrs.
Vapour Pressure	+	1·5mbs.	Mean of maximum temperatures	+	2·6°C
Relative Humidity	—	7·1%	,, minimum temperatures	+	0·9°C
Velocity of Wind	—	0·6mps	Absolute maximum temperature	+	1·6°C
Amount of Cloud	—	2·0	,, minimum temperature	—	1·2°C
Greatest Rainfall intensity at Vacoas. ...					

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of JULY 1937

Month and Day 1937.	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 (Saturation=100). Mean	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration	Amount of Evaporation.	Mean Amount of Cloud (Scale 0—10)
JULY	mbs.	mbs.	°C	°C	°C	°C	°C	C	°C	°C			mbs.	°C	mms.	min	mms.	
1	1011·1	− 2·6	22·9	19·5	3·4	20·8	+ 0·8	1·5	18·1	+ 2·4	84	+ 8	20·5	17·0	11·2	403	2·9	8·0
2	1012·2	− 1·6	24·8	19·1	5·7	21·7	+ 1·7	2·1	18·0	+ 2·3	79	+ 3	20·4	17·8	13·1	295	2·3	7·9
3	1013·9	+ 0·1	24·2	20·4	3·8	21·9	+ 1·9	2·8	17·0	+ 1·3	74	− 2	19·2	19·2	0·1	3	4·0	5·2
4	1013·7	− 0·2	24·0	19·0	5·0	21·2	+ 1·2	2·4	17·1	+ 1·4	78	+ 2	19·3	18·0	0·9	10	2·8	4·1
5	1010·6	− 3·3	25·0	18·7	6·3	21·6	+ 1·6	1·3	19·3	+ 3·6	87	+ 11	22·2	17·7	7·1	145	3·6	6·6
6	1009·3	− 4·6	26·0	17·3	8·7	20·7	+ 0·7	1·4	18·2	+ 2·5	86	+ 10	20·7	15·2	0·0	...	3·4	3·6
7	1011·7	− 2·3	23·8	16·0	7·8	20·0	+ 0·1	2·7	15·2	− 0·4	74	− 2	17·1	15·1	0·0	...	3·4	2·8
8	1013·7	− 0·3	23·9	15·8	8·1	19·6	− 0·3	2·1	15·8	+ 0·2	79	+ 3	17·8	12·9	1·8	55	3·1	4·5
9	1012·3	− 1·7	24·7	14·6	10·1	19·5	− 0·4	1·9	16·2	+ 0·6	81	+ 5	18·2	11·9	0·0	...	3·9	3·4
10	1012·0	− 2·0	24·1	16·6	7·5	20·0	+ 0·1	2·6	15·4	− 0·2	75	− 1	17·3	14·4	0·0	...	2·8	4·9
11	1013·5	− 0·5	23·2	18·6	4·6	20·2	+ 0·3	2·8	15·2	− 0·3	73	− 3	17·1	14·2	0·2	10	3·6	3·1
12	1015·4	+ 1·4	23·0	17·4	5·6	19·5	− 0·3	3·3	13·5	− 2·0	68	− 8	15·3	16·2	0·7	10	4·8	3·6
13	1015·9	+ 1·9	22·9	17·2	5·7	19·8	0·0	3·6	13·3	− 2·2	66	− 10	15·1	15·2	0·0	...	4·5	5·5
14	1014·9	+ 0·9	23·8	17·0	6·8	19·9	+ 0·1	2·7	15·0	− 0·5	73	− 3	16·9	14·6	3·5	60	4·2	5·7
15	1013·8	− 0·2	24·2	18·4	5·8	20·8	+ 1·0	2·1	17·0	+ 1·5	79	+ 3	19·2	16·0	3·9	90	3·0	3·1
16	1012·7	− 1·3	24·9	15·9	9·0	19·7	− 0·1	1·5	17·0	+ 1·5	85	+ 9	19·2	13·0	18·5	85	3·7	3·5
17	1011·1	− 2·9	22·3	14·3	8·0	19·3	− 0·5	1·8	16·0	+ 0·5	81	+ 5	18·0	11·9	0·1	5	4·1	4·7
18	1009·4	− 4·6	24·0	16·0	8·0	19·7	− 0·1	1·6	16·8	+ 1·3	83	+ 7	18·9	16·0	3·3	35	2·6	7·4
19	1008·8	− 5·2	24·9	15·3	9·6	19·8	0·0	1·9	16·5	+ 1·2	81	+ 5	18·6	13·7	0·0	...	2·3	4·8
20	1007·9	− 6·1	25·1	18·0	7·1	20·7	+ 0·9	1·4	18·2	+ 2·9	86	+ 10	20·7	16·0	3·5	60	3·4	6·5
21	1007·2	− 6·8	26·0	17·8	8·2	21·3	+ 0·5	1·8	18·1	+ 2·8	82	+ 6	20·5	15·8	2·9	30	2·9	7·1
22	1008·9	− 5·1	25·7	18·1	7·6	21·1	+ 1·4	2·7	16·3	+ 1·1	74	− 1	18·3	16·6	0·0	...	2·6	6·4
23	1010·4	− 3·6	23·3	17·0	6·3	19·8	+ 0·3	3·0	14·4	− 0·8	71	− 4	16·3	15·3	0·0	...	3·7	5·5
24	1011·4	− 2·6	23·1	13·3	9·8	18·5	− 1·2	3·2	12·6	− 2·6	69	− 6	14·5	13·0	0·0	...	3·8	1·7
25	1012·1	− 1·9	23·1	11·6	11·5	16·8	− 2·9	2·7	11·8	− 3·4	73	− 2	13·7	9·6	0·8	25	4·0	5·2
26	1013·1	− 0·9	23·3	14·0	9·3	18·9	− 0·8	2·2	14·9	− 0·3	78	+ 3	16·8	10·8	2·3	85	3·4	5·9
27	1013·0	− 1·0	24·0	15·0	9·0	19·6	− 0·1	3·0	14·2	− 1·0	71	− 4	16·1	11·2	0·7	15	3·2	4·1
28	1011·9	− 2·1	24·0	16·4	7·6	19·7	0·0	2·2	15·7	+ 0·5	78	+ 3	17·7	14·6	0·1	5	3·9	4·4
29	1010·6	− 3·4	24·7	15·7	9·0	19·7	0·0	1·9	16·4	+ 1·2	82	+ 7	18·5	13·2	0·0	...	3·2	4·3
30	1012·4	− 1·6	25·2	15·0	10·2	20·2	+ 0·5	2·6	15·6	+ 0·4	75	0	17·6	12·5	0·0	..	2·7	2·8
31	1014·7	+ 0·7	24·1	19·1	5·0	21·4	+ 1·7	3·2	15·7	+ 0·5	70	− 5	17·7	18·3	0·1	5	4·8	6·4
Mean	1011·9	− 2·1	24·1	16·7	7·4	20·1	+ 0·3	2·3	16·0	+ 0·6	77·3	+ 1·6	18·0	14·8	Sum 74·8	Sum 1431	...	4·9
Aver.	1014·0	...	23·7	15·5	8·2	19·8	...	2·4	15·4	...	75·7	...	17·4	13·1	59·6	128	...	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 JULY 1937.

Pressure remained consistently below normal during the month; important departures below the average were observed from the 16th to the 25th with very abnormally calm weather, and only slight occasional precipitation.

Temperature was variable to a small extent but in general above normal.

Humidity was above normal on 17 days with a small excess in the mean for the month.

Wind Velocity was in defect on most days during the month, it was well below the average during the period of the 16th to the 22nd.

Rainfall was 25% above the average but mostly distributed in slight occasional, rain but 80% of the daily falls amounted to less than 5 mms.

Cloudiness and Sunshine were very close to the normal amounts.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of JULY 1937

Month and Day 1937.	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Observed Wind Velocity: Mean.	Observed Wind Velocity: Excess above Average.	Temperature of the Soil: 10 Feet.	Temperature of the Soil: 5 Feet.	Temperature of the Soil: 2 Feet.	Temperature of the Soil: 12 inches.	Weather								
JULY	hrs.	%	mp.s.	mp.s.	°C.	°C.	°C.	°C.	oh. 3h.	6h.	9h.	12h.	15h.	18h.	21h.	24h.
1	0·2	2	4·3	+ 0·5	25·4	24·8	22·8	22·2	b :	bc :	O :	om :		od_0d_0		: or_0r_0
2	7·0	64	5·9	+ 2·1	25·5	24·8	22·8	22·2		or_0r_0	:		bcq		cr :	bc
3	8·5	76	5·4	+ 1·6	25·3	24·8	22·9	22·3	bc :	b :	bcq	:	cqr_0 :		bc	
4	8·1	74	3·6	− 0·2	25·4	24·7	22·9	22·2	bcr :		bc		:		b	
5	5·7	52	2·3	− 1·5	25·6	24·7	22·9	22·3		or_0r_0	:	cr_0 :		bc :		b
6	7·2	66	1·9	− 1·9	25·6	24·7	22·9	22·6	b	:	bc		:		b	
7	7·8	72	3·2	− 0·6	25·5	24·6	23·0	22·7	b	:	bc		:		b :	b_0
8	7·4	68	2·9	− 0·9	25·5	24·7	23·1	22·7	cqr_0 :	bc :	bcr_0 :		bc	:	b	
9	4·6	42	2·6	− 1·2	25·3	24·6	23·0	22·4	b_0 :	b :	bc	:	c	:	b	
10	9·0	83	2·7	− 1·1	25·4	24·6	23·0	22·3	b	:		bc			:	c
11	9·1	83	5·0	+ 1·2	25·4	24·7	23·0	22·3	cr_0 :	bc :			b			
12	8·0	73	5·7	+ 1·9	25·3	24·6	22·9	22·2		bc	:	bq	:	bcd_0 :	bd_0 :	b
13	8·0	73	6.0	+ 2·2	25·3	24·6	22·9	22·0	b	:	eq	:	bcq :	eq :		bc
14	8·1	74	5·2	+ 1·4	25·5	24·6	22·7	21·9	cr_0 :	bc		bcq		:		bcr_0r_0
15	8·3	75	3·5	− 0·3	25·3	24.6	22·7	21·8	b	:	bcr_0r_0	:			b	
16	6·3	57	1·6	− 2·2	25·2	24·6	22·6	21·9		b	:	bc :	orr :	c :		b
17	8·8	80	1·9	− 1·9	25·3	24·5	22·6	21·9		b	:	bc :	bcr_0 :		c	
18	3·4	31	1·2	− 2·6	25·3	24·4	22·7	22·1	or_0r_0 :	o :	c	:	cgr :	c :	bc :	b
19	9·0	82	2·1	− 1·7	25·3	24·6	22·6	22·1	b	:	bc	:	c :		bc :	c
20	6·0	55	1·4	− 2·4	25·4	24·5	22·6	22·2	c :	cr_0r_0	: bc	:	cr_0 :		bc :	b
21	3·3	30	1·2	− 2·6	25·2	24·4	22·7	22·6		bc		:	c :	bcr :		c
22	7·5	68	2·3	− 1·5	25·4	24·4	22·9	22·7		c	:		bc		:	b
23	5·2	47	4·3	+ 0·5	25·1	24·4	22·8	22·7	bc :	c			bc		:	b
24	10·4	94	3·4	− 0·4	25·2	24·3	22·9	22·5		b		:	bq_0 :		b	
25	6·7	60	2·5	− 1·3	25·1	24·4	22·9	22·1	b :	bc	.	c	;		bc :	bcr
26	6·8	61	3·6	− 0·2	25·3	24·4	22·7	21·7		or_0r_0		:	bcq :		b	
27	9·6	86	2·7	− 1·0	25·3	24·3	22·5	21·4		b	:	:		bc :	cr_0 :	bcr_0
28	8·2	74	2·9	− 0·8	25·1	24·3	22·5	21·7	bc	: b :	bc :	bcg :	bcr_0 :		bc :	b
29	6·4	58	1·7	− 2·0	25·1	24·3	22·4	21·7	bc	b :	bc :		c	:	b	
30	9·1	81	3·1	− 0·6	25·1	24·2	22·5	21·8	b_0 :	b	:		bc		: b :	bc
31	8·1	72	5·5	+ 1·8	25·1	24·2	22·4	22·0	c	: bc :		bcq	: bc :		c :	cd_0d_0
Mean	7·15	65·0	3·28	−0.50	25·32	24·53	22·77	22·17	.....							
Average	7·57	68·6	3·78	...	25·23	24·42	22·62	21.93	.....							
Column	19	20	21	22	23	24	25	26	.....							

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF JULY 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1017·5mbs.	at 10·00hrs.	on 13th	1005·9mbs.	at 14 & 15hrs.	on 21st
Temperature of the Air	26·0°C	at 12·30hrs. / 12·05hrs.	on 6th / on 21st	11·6°C	at 05·10hrs	on 25th
Daily range of temperature of the Air ...	11·5°C	...	on 25th	3·4°C	...	on 1st
Temperature of the Dew Point	20·9°C	at 10·00hrs.	on 5th	9·7°C	at 05·00hrs.	on 25th
Daily range of temperature of the Dew Point	5·7°C	...	on 14th	1·8°C	...	on 2nd
Minimum on Grass	...	...	...	9·6°C	...	on 25th
Relative humidity	97·5%	at 04·00hrs.	on 6th	46·9%	at 12·00hrs.	on 27th
Vapour Pressure	24·5mbs.	at 10·00hrs.	on 5th	11·9mbs.	at 05·00hrs.	on 25th
Evaporation in 24 hours	4·8mms.	...	on 12th & 31st	2·3mms.	...	on 2nd & 19th
Wind Velocity	8·9m.p.s	at 15·00hrs.	on 12th	0.6m.p.s.	...	often
Rainfall in 24 hours	23·8mms.	ending 7hr.	on 2nd	...	...	...
Duration of sunshine	10·4hrs.	...	on 24th	0·2hr.	...	on 1st

Mean Day Temperature of Air, 21·84°C Average 21·57°C Mean Night Temperature of Air 18·38°C. Average 18·15°C

NUMBER OF DAYS OF—

Mean Cloud Amount: 0	1 – 3	4 – 6	7 – 9	10	Rainfall: 0.1 — 0.9 mms.	1.0 — 4.9 mms.	5.0 — 9.9 mms.	10.0 — 24.9 mms.	25.0 and over mms.	Lightning	Thunderstorm
...	7	19	5	...	9	7	1	3	...	...	...

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

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level.)
(The cistern of the barometer is 55·2 metres above mean sea-level.)

JULY 1937.

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour. / Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
Midnight	120	119	131	148	131	092	106	140	140	122	128	150	163	160	142	133	Midnight
1	119	119	130	145	131	091	105	140	139	120	129	148	163	162	140	135	1h
2	114	113	130	141	125	090	102	140	131	119	128	147	159	159	139	132	2
3	111	112	130	137	120	090	101	136	128	116	124	145	156	151	139	130	3
4	110	111	130	136	119	089	101	131	121	111	121	143	153	151	135	127	4
5	110	111	132	136	116	086	101	130	121	110	123	145	155	151	135	128	5
6	110	115	135	137	115	090	106	134	121	110	127	150	153	152	136	129	6
7	114	120	139	141	118	092	121	140	128	116	131	153	156	154	141	131	7
8	120	123	141	151	120	100	119	142	131	123	140	160	162	160	144	132	8
9	120	131	149	156	121	102	126	151	134	130	145	161	170	161	150	139	9
10	119	133	150	154	120	101	127	151	131	131	146	161	175	161	150	137	10
11	119	130	148	150	111	097	123	145	127	129	140	160	171	158	144	132	11
Noon	108	124	140	140	102	090	119	139	121	123	136	156	162	149	140	123	Noon
13h	101	118	131	131	093	085	110	131	114	120	131	150	158	141	131	119	13h
14	095	113	130	127	090	080	110	129	110	111	130	149	152	138	130	117	14
15	094	113	130	123	086	079	109	127	107	110	131	142	151	134	129	117	15
16	096	117	131	121	086	080	110	127	105	110	131	149	150	135	130	113	16
17	100	119	134	126	089	086	114	128	107	114	132	150	151	137	131	116	17
18	105	120	135	130	090	090	120	130	110	119	136	151	152	140	134	119	18
19	110	125	140	132	091	097	124	131	119	121	138	160	155	144	138	121	19
20	113	130	149	136	099	101	131	140	125	129	141	160	160	147	140	126	20
21	116	131	151	136	098	106	137	142	128	129	150	161	166	150	141	130	21
22	119	135	151	137	099	109	141	144	129	127	151	163	160	150	140	131	22
23	120	132	150	135	097	108	140	142	127	127	151	163	160	149	140	130	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour. / Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. / Hour.
Midnight	129	102	095	088	080	081	101	120	119	130	140	132	116	108	150	1012·3	Midnight
1h	126	101	093	085	078	081	101	121	120	128	140	130	110	109	149	1012·2	1h
2	121	099	090	081	074	079	100	120	115	123	134	125	109	109	143	1011·9	2
3	119	096	085	078	069	079	099	116	112	124	131	121	103	107	140	1012·6	3
4	117	092	081	075	064	077	097	114	111	121	130	120	101	108	140	1011·4	4
5	114	091	083	074	063	079	097	111	110	121	129	119	101	110	141	1011·4	5
6	116	096	086	079	069	081	100	112	114	124	130	118	102	115	146	1011·6	6
7	116	100	090	081	070	087	101	117	120	125	131	120	107	121	150	1012·0	7
8	120	101	099	089	076	096	111	120	123	131	140	125	111	126	155	1012·6	8
9	123	106	102	091	081	101	116	123	129	140	141	129	118	130	160	1013·0	9
10	124	106	103	091	082	101	116	124	130	140	141	130	117	131	157	1013·0	10
11	121	101	099	087	080	100	114	120	130	139	135	126	112	127	152	1012·7	11
Noon	112	094	091	080	071	090	105	113	125	132	130	121	105	121	145	1012·0	Noon
13h	101	085	083	071	062	082	098	106	120	129	122	110	101	117	141	1011·3	13h
14	097	080	079	070	059	080	092	102	119	124	119	106	096	113	137	1010·9	14
15	094	080	074	067	059	080	089	100	111	121	115	104	092	114	135	1010·7	15
16	095	080	076	066	061	081	089	101	114	125	114	106	093	120	135	1010·8	16
17	099	081	077	068	063	084	091	106	117	130	118	108	100	126	139	1011·1	17
18	099	084	080	071	069	088	100	110	120	133	121	110	103	131	142	1011·4	18
19	101	088	085	076	072	092	105	110	122	137	130	113	109	138	150	1011·9	19
20	106	095	089	081	077	100	110	118	128	142	131	120	112	140	151	1012·3	20
21	107	099	091	083	080	102	116	120	130	143	131	120	114	143	153	1012·6	21
22	109	100	090	084	083	105	120	121	133	144	136	120	111	147	154	1012·7	22
23	107	100	090	082	084	105	120	120	136	141	136	119	110	150	153	1012·7	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	JULY 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean
Midnight	1	10	5	6	4	2	1	3	0	1	7	3	1	8	3	2	1	9	1	8	3	9	5	1	2	10	0	6	3	0	8	4·0
1h	1	10	5	7	5	2	1	7	0	1	7	4	1	9	2	2	1	10	1	7	5	9	5	1	3	10	0	6	4	0	9	4·4
2	1	10	4	4	8	3	1	9	0	0	8	4	1	9	2	2	1	10	1	9	8	10	8	2	2	9	1	6	4	0	9	4·7
3	2	10	4	6	10	3	1	9	0	0	8	5	1	7	1	1	1	10	1	8	9	9	8	1	2	10	1	7	5	0	10	4·8
4	2	10	4	5	10	4	1	6	0	1	6	5	1	6	1	1	1	10	1	7	9	9	9	2	2	10	1	7	4	0	9	4·6
5	10	10	1	5	10	2	2	2	1	1	5	7	2	4	2	1	1	10	2	6	3	9	8	1	4	9	2	3	6	1	8	4·5
6	10	10	1	6	10	2	2	2	3	1	5	8	2	3	2	1	1	8	3	10	3	9	7	1	5	10	3	1	5	1	5	4·5
7	10	9	3	7	10	6	3	3	4	2	2	7	5	4	6	1	1	8	4	9	5	9	7	1	5	9	2	2	3	1	4	4·9
8	10	8	4	8	10	8	5	4	4	5	2	7	8	5	8	1	1	8	5	8	7	8	8	1	5	9	2	2	1	2	3	5·4
9	10	7	4	6	10	7	5	4	6	6	3	8	8	4	9	1	1	7	4	9	7	8	8	1	4	7	2	2	2	2	6	5·4
10	10	7	5	6	9	6	7	5	5	7	2	4	6	5	5	3	3	9	6	7	7	5	8	1	5	6	2	3	4	4	5	5·4
11	9	4	6	6	9	6	9	5	6	8	3	1	5	4	4	4	6	7	7	6	8	5	9	0	8	6	1	4	5	4	5	5·5
Noon	9	7	7	5	8	5	7	6	7	7	3	1	8	8	4	6	3	9	8	6	7	4	5	0	8	5	5	5	4	4	6	5·7
13h	9	7	7	4	8	9	8	5	7	7	2	0	6	10	3	10	4	7	9	8	8	6	4	1	9	5	8	6	7	5	6	6·3
14	9	7	8	4	6	6	4	5	9	0	3	1	7	8	4	9	5	7	8	9	8	7	6	3	8	7	7	7	8	6	7	6·5
15	10	9	8	4	7	4	1	5	8	6	2	3	6	5	2	9	7	9	0	6	8	8	8	5	5	7	5	6	8	3	3	5·9
16	7	8	7	3	7	5	0	6	8	7	1	4	8	4	2	8	8	8	6	6	6	9	2	4	6	4	8	6	8	2	4	5·6
17	9	9	6	2	5	2	2	8	4	8	1	7	8	7	2	7	9	8	5	7	8	9	6	3	7	2	5	5	8	4	5	5·7
18	9	7	4	1	4	1	2	9	2	7	1	4	9	5	2	8	9	8	4	3	7	7	4	2	6	3	5	5	8	4	3	4·9
19	10	9	6	1	3	1	2	2	2	3	1	2	6	3	2	3	8	5	4	7	8	2	2	2	5	2	10	7	4	3	9	4·3
20	10	7	7	1	2	1	2	1	2	6	1	1	7	7	2	1	9	5	5	3	8	1	2	2	5	3	10	5	1	3	8	4·1
21	10	7	7	1	2	1	1	1	1	8	1	1	8	4	2	1	9	4	5	1	8	1	2	2	4	1	6	2	1	3	8	3·6
22	10	6	6	1	1	1	0	1	1	8	1	1	7	5	2	1	9	3	8	1	9	1	2	2	4	1	5	2	1	5	8	3·6
23	10	6	6	1	1	1	0	1	1	8	2	1	6	5	2	1	9	3	8	1	9	1	2	2	6	2	4	2	1	7	7	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.	JULY 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	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	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
7	0	0	0	0	0	6	0	3	5	16	2	0	0	0	0	6	18	0	14	0	0	0	4	15	0	0	15	26	2	22	5	2·6
8	0	28	57	0	0	60	54	50	35	50	17	5	16	20	1	60	60	9	52	10	0	18	0	60	11	18	60	60	56	60	27	15·9
9	8	38	57	53	0	58	60	3	7	38	60	10	59	59	19	60	60	35	60	8	33	55	6	60	59	21	60	60	60	60	43	21·2
10	0	59	60	53	2	45	59	60	58	25	60	60	37	53	60	60	60	13	40	20	40	60	27	60	60	57	60	60	60	60	50	24·6
11	3	60	60	28	42	16	52	60	60	60	60	60	58	60	60	60	60	46	37	58	44	60	5	60	55	60	60	60	60	60	60	26·4
Noon	0	60	59	58	34	60	44	60	48	58	60	60	52	52	60	60	60	20	56	60	53	60	50	60	56	60	60	37	54	60	48	27·0
13h	0	60	58	60	46	27	4	60	55	60	60	60	58	28	60	8	60	28	60	48	12	60	60	60	11	60	37	33	13	42	38	22·1
14	0	60	50	60	47	34	14	60	0	60	60	60	60	56	60	0	47	34	52	15	0	60	46	60	0	60	52	52	25	20	51	20·9
15	0	38	55	60	57	54	60	58	0	60	60	60	55	60	60	0	0	0	54	39	7	55	0	60	47	40	60	48	28	40	36	20·9
16	3	19	34	60	50	16	60	12	0	60	60	60	48	60	60	47	46	0	58	60	0	13	56	60	52	17	59	30	17	60	60	20·6
17	0	0	20	55	60	52	56	17	8	53	48	47	36	36	58	20	57	16	55	43	6	10	56	59	43	15	52	26	7	57	55	18·7
18	0	0	0	2	1	0	4	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	4	9	7	0	3	1	0	6	11	0·9
19	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...	...	...

The total Amount of Registered Sunshine was 221·8 hrs. and the total possible sunshine was 341·1 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*)

JULY 1937.

Day. / Hour.	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	20·3	2·1	19·9	0·9	21·4	2·5	20·8	1·7	21·1	1·2	18·7	0·7	20·0	1·7	16·0	1·6	Midnight
1h	20·0	1·7	19·9	0·8	21·7	2·7	20·1	1·1	20·1	0·8	18·6	0·7	19·8	1·7	16·2	1·0	1h
2	19·9	1·6	19·8	0·7	21·3	3·2	20·1	1·1	19·8	0·8	18·1	0·6	19.0	1·3	18·0	0·9	2
3	19·8	1·3	19 9	0·8	21·3	3·2	20·0	1·2	20·0	0·9	18·0	0·9	19·4	1·5	18·2	1·2	3
4	19·9	1·0	19·1	0·8	21·0	3·0	19·6	1·4	20·0	0·9	18·0	0·2	19·1	1·6	18·0	1·7	4
5	20·0	1·1	19·9	0·9	20·9	3·1	19·3	1·2	20·1	0·7	17·9	0·8	18·0	1·2	17·8	1·7	5
6	20·2	1·2	20·1	1·0	20·3	2·4	19·2	1·2	20·2	0·6	18·0	0·9	17·9	1·2	17 3	1·3	6
7	20·7	1·7	20·4	0·9	21·0	2·9	19·9	1·2	20·4	0·5	17·8	0·7	18·3	1·2	17·1	1·3	7
8	21·0	2·0	21·2	1·9	22·1	3·2	20·1	1·1	22·0	0·5	20·0	0·5	20·0	2·0	18 9	2·0	8
9	21·7	2·0	23·0	2·9	22·9	3·4	22·2	3·0	22·1	0·8	23·0	1·1	21·2	2·5	19·0	1·0	9
10	22·2	2·5	23·2	3·1	23·4	4·1	23·1	3·9	23·0	1·2	23·5	2·2	22·8	4·0	21·8	2·7	10
11	22·3	2·6	23·6	3·4	24·0	4·0	23·0	4·3	24·2	2·2	23·5	1·9	23·0	4·2	22·9	4·3	11
Noon	22·7	2·7	24·8	4·1	24 0	4 0	23·7	4·7	23·8	1·7	25·1	2·9	23·2	4 4	23·6	4·1	Noon
13h	22·4	2·7	24·1	3·8	23·0	3·0	23·9	5·6	24·2	2·5	23·8	2·6	23·0	4·7	23·3	4·0	13h
14	22 6	2·7	24·1	3·6	23·1	3·0	23·8	4 8	24·6	2·6	23·9	2·6	22·9	4·9	23·1	3·8	14
15	21·8	1·3	23·8	3·4	23·0	3·0	23·5	4·4	24·8	3·1	24·2	2·0	23·1	4·3	23·0	3·7	15
16	21·5	1·5	22·2	2·2	23·0	3·1	23 0	4·1	24·0	2·7	23·9	2·1	22·6	5·1	22·0	3·1	16
17	21·0	1·0	22·0	2·0	22·1	2·3	22·0	3·3	23·2	2·1	22·7	3·3	21·3	4·1	21·8	2·8	17
18	20·3	0·7	22·0	2·3	21·4	2·2	20·9	2·4	22·0	1·2	20·7	1·6	19·9	3·1	21 0	2·4	18
19	20·2	0·8	21·6	1·5	21·0	1·8	20·2	1·4	21·0	0·9	19·8	1·5	17·9	2·2	19·3	1·6	19
20	20·1	0·8	21·4	1·9	21·0	2·0	20·1	1·1	20·2	0·6	19.4	1·2	17·3	2·2	18·5	1·5	20
21	20·0	0·7	21·3	2·2	20·7	1·4	20·1	1·1	19·9	0·8	19·4	1·1	17·0	1·9	18·0	1·3	21
22	20·0	0·6	21·2	2·1	20·5	1·4	20·1	1·1	19·9	0·8	19·1	1·0	17·3	1·4	18·4	1·4	22
23	19·8	0·6	21·3	2·4	20·7	1·6	20·5	1·1	19·0	0·8	20·0	1·5	16·9	1·6	17·6	1·4	23

Day. / Hour.	9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	16·9	1·2	19·7	2·1	18·8	0·8	18·7	3 4	18·8	2 3	18·8	2·5	19·0	1·5	19·8	1·1	Midnight
1h	16·5	1·1	19·0	1·4	18·4	0·9	18 4	3·3	17·9	1·8	17·8	1·7	19·1	1·8	19·5	1·2	1h
2	15·1	1·0	19·0	1·8	18·9	0·9	18·2	2·4	17·7	2·4	18·0	1·8	19·0	1·9	18·7	1·2	2
3	14·8	0·9	19·1	1·6	19·0	1·3	18·2	2·2	18·1	2·4	18·0	1·9	19·0	1·3	17·3	0·7	3
4	14·8	0·9	18·0	1 8	18·9	1·5	18·0	2·1	18·6	3·0	18·9	4·0	19·1	1·2	16·6	0·9	4
5	14·7	0·9	18·7	2·4	18 9	1·6	18·1	2·2	19·0	3·4	17·2	3·1	19·0	1·2	16·8	0·8	5
6	15·1	0·3	18·0	1·9	18·8	1·6	17·8	1·9	19·1	3·2	18·6	3·5	18·9	1·4	16·3	0·7	6
7	15·0	0·9	16·7	1·6	19·0	1·9	18·2	2·5	19·1	3·0	17·0	2·4	19·0	0·9	16·1	0·7	7
8	17·9	0·2	20·0	2·9	19·9	2·0	19·0	3·1	19·2	3·2	18·8	1·9	19·4	0·6	19·9	1·8	8
9	21·3	1·8	21·2	2·8	21·2	2·7	20·2	4·2	21·0	3·8	21·2	3·9	20·0	0·2	22·5	2·3	9
10	23·4	3·0	21·7	3 6	22·0	3·8	21·6	4·9	20·0	3·0	22·0	4·4	22·3	2·2	23·2	3·1	10
11	24·0	3·9	23·3	4·9	22·9	4·5	22·0	5·2	21·6	4·5	22·7	4·9	23·2	3·1	24·1	4·1	11
Noon	24·3	4·0	23·2	4·5	23·1	4·5	22·8	5·7	21·9	4·8	23·1	4·9	23·9	3·9	24·8	4·7	Noon
13h	24·7	4·1	23·5	4·8	23·1	4·5	22·9	6·0	22·0	5·1	22·3	4·2	24·0	4·3	21·9	1·9	13h
14	23·1	3·1	23·8	5·0	22·9	4·7	22·2	5·5	21·9	4·9	22·3	3·6	24·0	4·1	21·3	1·5	14
15	23·0	2·9	23·3	4·6	22·1	4·0	20·6	3·2	21·9	5·2	22·7	4·2	23·9	4·2	20·9	1·0	15
16	23·0	3·1	22·7	4·5	21·2	4·1	20·9	3·9	21·1	4·4	22·1	3·8	23·3	4·0	21·2	1·1	16
17	22·0	2·9	21·4	3·7	20·3	3·5	19 1	2·1	20·5	4·7	20·6	2·4	22·5	3·2	21·6	1·4	17
18	20·8	2·3	20·0	2·2	19·5	3·4	19·0	2·7	19·1	3·1	20·0	2·0	20·9	1·9	21·0	0·9	18
19	19·9	1·9	18·2	1·6	19·1	3·0	18·0	1·8	19·1	3·1	19·2	1·2	19·9	1·7	19·1	1·1	19
20	19·2	1·2	18·0	1·1	19·1	3·1	18·4	3 1	19·0	3·0	19·2	1·1	19·9	1·7	18·3	0·8	20
21	19·0	1·4	18·0	1·3	19·1	3·1	18·2	2·2	19·1	3·0	19·2	1·1	19·9	1·8	18 0	0·9	21
22	19·7	1·7	16·9	1·0	18·8	2·7	18·2	2·2	19 3	4·3	19·2	1·2	20·0	1·8	17·6	0·9	22
23	19·5	1·6	16·8	0·8	18·9	3·2	18·7	2 8	19·5	4·2	19·0	1·2	19·8	1·6	17·9	1·0	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add 273*)

JULY 1937.

Day. / Hour.	17d. Air.	17d. Excess of Air over Evap.	18d. Air.	18d. Excess of Air over Evap.	19d. Air.	19d. Excess of Air over Evap.	20d. Air.	20d. Excess of Air over Evap.	21d. Air.	21d. Excess of Air over Evap.	22d. Air.	22d. Excess of Air over Evap.	23d. Air.	23d. Excess of Air over Evap.	24d. Air.	24d. Excess of Air over Evap.	Day. / Hour.
Midnight	16·6	0·8	19·1	1·6	16·0	1·0	18.5	0·7	18·4	0.7	20·0	0·9	18·9	2·1	18·1	2·5	Midnig
1h	16·1	0·9	18·9	1·3	15·9	0·9	18·6	0·9	18·1	0·9	20·0	1·0	19·1	2·4	17·2	2·1	1h
2	16·6	0.9	18·8	1·0	16·0	0·9	18·3	0·7	18·1	0·8	20·0	0·9	18·6	2·3	17·0	2·1	2
3	16·0	1·0	18·6	1·2	15·8	0·9	18·2	0·9	18·3	0·5	20·0	1·7	19·2	2·1	15·6	1·6	3
4	15·1	0·9	18·3	0·9	15·8	0·9	19·0	0·7	18·1	0·9	19·9	1·9	19·6	2·5	15·4	1·4	4
5	14·6	0·7	18·1	1·1	15·4	0·6	18·3	0·5	17·9	0·9	19·0	1·4	19·7	2·6	15·7	1·7	5
6	15·0	0·9	17·7	1·1	15·6	0·7	19·9	0·8	18·0	1·0	18·9	1·4	19·3	2·3	15·9	1·9	6
7	14·6	0·7	17·8	1·0	16·3	0·5	19·5	0·5	18·4	0·6	18·7	1·5	19·1	3·0	16·3	2·2	7
8	18·0	0·9	18·7	0·9	19·6	0·7	20·1	0·3	20·3	0·5	19·7	1·6	18·9	1·9	19·0	3·7	8
9	21·0	2·0	20·9	2·3	22·0	1·7	21·3	0·7	22·7	1·7	22·1	3·4	20·7	3·2	21·1	4·8	9
10	22·0	2·3	21·4	2·1	22·9	2·8	22·3	1·2	23·8	2·3	23·5	3·9	22·0	4·7	22.0	5·3	10
11	23·2	3·5	23·0	3·0	23·6	3·6	23·8	2·6	25·0	3·1	24·1	4·1	22·1	5·1	22·3	5·6	11
Noon	24·0	3·8	23·1	3·0	24·0	4·0	24·9	3·7	25·7	4·0	24·8	4·3	23·2	5·0	22·7	6·0	Noon
13h	24·0	4·8	23·3	3·2	24·9	4·7	23·6	2·4	25·3	3·4	25·1	4·8	21·7	3·4	23·0	5·9	13h
14	23·9	4·3	23·1	3·0	24·2	4·1	23·6	2·4	25·3	3·8	25·5	4·7	21·2	3·0	22·8	5·6	14
15	22·1	2·9	21·6	1·5	24·0	4·1	23·5	2·5	25·0	2·9	25·1	4.7	21·3	3·2	22·0	4·6	15
16	22·8	2·9	21·4	1·3	23·8	3·8	24·0	3·2	23·2	2·2	22.8	3·7	21·8	4·6	21·6	4·6	16
17	21·3	2·3	21·7	2·6	22·6	3·0	22·6	1·9	22·9	2·8	22·0	4·1	20·6	3·7	20·5	3·4	17
18	20·1	1·4	20·9	1·8	21·0	1·8	21·8	1·7	22·1	2·0	20·9	3·5	19·5	3·2	19·0	2·8	18
19	19·7	1·4	19·6	1·5	20·3	1·2	20·2	1·0	21·3	2·0	20·1	2·5	18·7	2·7	17·1	1·8	19
20	19·1	1·2	18·2	1.1	19·7	1·4	19·7	0·9	20·9	1·8	19·1	1·9	18·1	2·0	16·6	1·7	20
21	19·1	1·3	17·3	1·0	19·1	0·9	18·8	0·8	20·1	1·3	18·3	1·7	17·1	1·5	15·2	1·3	21
22	19·0	1·1	17·0	1·0	18·4	1·0	18·2	1·0	20·5	1·3	18·2	1·9	17·0	1·7	15·0	1·3	22
23	19·0	1.1	16·2	1·0	18·3	0·8	18·4	0·8	20·3	0·9	19·0	2·2	17·5	1·8	14·0	1·7	23

Day. / Hour.	25d. Air.	25d. Excess of Air over Evap.	26d. Air.	26d. Excess of Air over Evap.	27d. Air.	27d. Excess of Air over Evap.	28d. Air.	28d. Excess of Air over Evap.	29d Air.	29d Excess of Air over Evap.	30d Air.	30d Excess of Air over Evap.	31d Air.	31d Excess of Air over Evap.	Mean Air.	Mean Excess of Air over Evap.	Day. / Hour.
Midnight	13·3	1·4	16·6	0·9	17·2	1·6	18·3	1·0	17·0	1·0	17·1	1·1	20·5	2.9	18·5	1·5	Midnight
1h	13·1	1·2	15·0	1·0	16·9	1·7	18·0	1·2	17·4	0·8	16·2	1·0	20·9	3·0	18·2	1·4	1h
2	13·2	1·2	14·6	1.4	16·0	1·5	17·3	1·1	17·0	1·0	15·8	0·9	20·9	3·0	18·0	1·4	2
3	12·3	1·2	17·1	0·5	16·7	1·6	17·0	1·1	16·1	1·0	15·6	0·9	20·9	3·7	18·0	1·4	3
4	12·0	1·0	16·4	0·5	15·9	1.4	17·3	1·1	16·1	1·0	15·3	0·8	20·7	3·7	17·8	1·5	4
5	11·9	1·1	17·0	0·9	17·6	2·3	17·1	1·1	16·0	0·9	15·1	0·9	20·6	2·9	17·8	1·5	5
6	12·3	1·1	17·1	0.7	16·9	1·9	17·7	1·6	16·0	1·0	15·0	0·9	20·3	2·4	17·8	1·4	6
7	13·0	1·1	17·6	1·0	16·9	2·0	16·4	1·2	16·0	1·0	15·7	0·9	20·3	2·4	17·8	1·4	7
8	14·3	1·0	18·0	1·0	19·2	2·6	19·3	2·1	19·2	1·0	19·9	2·1	21·1	3·1	19·5	1·7	8
9	19·2	3·5	18·8	1·2	21·6	4·4	21·5	2·5	21·8	2·1	22·1	2·5	22·2	3·6	21·4	2·5	9
10	21·6	5·6	21·1	3·2	22·4	5·2	22·2	3·3	23·0	3·3	24·0	4·3	22·7	3·8	22·5	3·4	10
11	21·8	5·5	22·1	4·1	23·2	6·2	23·3	4·2	24·1	4·4	24·6	4·5	23·3	4·3	23·2	4·0	11
Noon	22·6	5·8	22·7	4·8	23·9	6·9	22·8	3·6	24·0	3·9	25·2	5·2	23·8	4·7	23.7	4·3	Noon
13h	21·6	5·7	22·9	5·4	23·6	6·0	24·0	4·4	23·4	3·2	24·9	4·9	23·5	4·5	23·4	4·2	13h
14	21·1	5·1	22·9	5·3	23·1	5·0	23·3	4·4	23·2	3·3	23·8	3·9	23·7	4·6	23·2	3·9	14
15	21·6	5·4	22·1	4·3	23·1	5·1	23·1	4·1	23·2	3·9	23·9	4·0	23·1	4·6	22.9	3·6	15
16	21·1	4·4	21·0	2·9	22.8	4·7	21·9	3·8	23·0	3·5	23·3	4·2	22·9	4·3	22·5	3·5	16
17	20·1	4·0	19·7	2·3	21·3	4·0	21·9	3·0	21·9	2·7	22·1	3·1	22·0	3·9	21·5	2·9	17
18	18·3	2·4	19·0	1·9	20·1	2·9	20·0	1·6	20·9	1·7	21·1	2·8	21·0	2·9	20·5	2·3	18
19	17·3	1·3	18·3	1·6	19·0	1.1	19·2	1·2	20·2	1·1	20·7	2·6	20·1	1·1	19·5	1·6	19
20	16·0	1·7	18·1	1·7	19·0	1·0	18·6	1·3	19·4	0·8	20·5	2·5	19·2	1·1	19·1	1·6	20
21	14·6	1·5	18·3	2·2	18·1	1·1	18·2	1.1	18·2	0·6	20·6	2·5	19·8	1·7	18·7	1·5	21
22	14·0	1·7	18·9	2.3	17·0	1·0	18·1	1·0	18·0	0·9	20·6	2·4	20·0	1·9	18·6	1·5	22
23	15·7	2·0	18·0	2·0	18·0	1·2	17·7	1·1	17·3	1·0	20·5	2·3	20·0	2·0	18·6	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 JULY 1937.

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 *).*

JULY 1937.

Day. / Hour.	1d		2d.		3d.		4d.		5d.		6d. *		7d.		8d.		9d.		10d. *		11d.		12d.		13d.		14d.		15d.		16d. *	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	13	1·9	09	5·8	09	5·9	09	3·6	11	2·9	10	1·8	13	2·9	11	1·4	13	2·1	12	3·7	11	1·9	12	5·1	11	5·7	10	4·3	10	4·6	10	2·7
1h	13	1·9	10	5·3	09	5·1	10	3·1	10	3·2	11	1·8	13	2·9	11	2·0	12	1·3	12	3·1	11	1·9	13	4·0	11	3·8	09	3·0	09	4·4	10	1·4
2	16	1·6	09	4·7	09	5·4	09	3·2	11	1·9	11	1·8	13	1·9	12	3·0	12	0·8	12	3·1	11	1·6	13	5·4	11	3·2	10	4·1	10	1·8	11	1·2
3	15	1·9	10	4·5	09	4·5	11	2·4	11	1·3	11	2·0	13	3·1	11	4·1	12	0·8	13	2·2	14	2·6	13	4·8	11	4·4	10	4·2	10	2·6	11	1·2
4	15	2·6	10	4·4	09	4·5	10	2·9	12	1·8	11	1·8	13	2·1	12	2·7	12	1·8	15	2·1	12	4·2	14	4·3	11	4·9	08	4·7	10	2·9	11	1·0
5	14	2·2	10	4·5	09	4·5	10	0·9	12	2·7	11	2·0	13	1·2	11	2·1	12	0·9	14	2·5	11	3·2	13	4·6	11	5·1	08	3·2	10	3·1	13	1·1
6	15	2·2	10	3·8	09	4·0	10	1·0	11	2·3	11	2·0	13	1·2	11	2·3	12	1·1	r03	1·3	11	3·2	13	2·3	11	6·0	09	3·2	11	2·9	13	1·7
7	14	3·2	09	5·6	09	4·2	09	3·6	11	2·3	11	1·3	14	1·8	11	2·6	11	1·0	29	1·2	11	4·2	13	2·8	12	6·1	10	2·4	11	3·4	11	1·3
8	13	3·9	09	5·9	08	4·9	11	3·2	11	2·3	11	0·6	13	3·6	11	2·1	11	2·0	d12	3·3	12	3·3	11	4·6	11	6·4	08	4·0	11	1·5	11	2·0
9	12	7·2	09	6·6	09	6·2	09	4·6	11	2·7	11	1·2	13	4·4	10	2·8	11	2·6	13	1·8	12	3·1	13	5·0	11	7·0	10	5·5	09	2·9	09	2·5
10	12	6·2	09	7·5	09	8·1	09	5·7	09	3·1	d24	0·8	11	4·9	11	4·2	11	4·1	14	3·8	12	6·5	12	7·4	11	8·2	09	6·6	11	4·2	08	2·8
11	13	4·8	09	7·7	09	6·8	10	5·4	08	3·4	17	1·1	12	5·3	10	4·9	09	4·4	11	4·7	12	7·2	12	7·7	11	7·2	09	6·6	11	4·8	06	2·2
Noon	18	3·4	09	7·5	09	7·4	08	5·4	09	2·3	20	3·3	11	6·2	09	4·9	11	4·6	12	4·8	11	7·9	12	7·7	11	8·7	11	7·7	11	6·5	06	2·2
13h	15	5·3	09	8·0	09	7·3	09	5·6	08	3·1	05	2·6	12	4·9	09	4·5	11	4·8	11	4·3	11	8·2	12	8·1	09	8·7	10	7·0	09	5·8	d18	3·0
14	14	6·0	10	8·0	09	7·1	09	5·3	08	2·2	r04	2·4	12	4·7	09	5·2	12	3·9	11	4·3	12	7·4	12	8·4	09	8·6	10	6·7	11	4·9	r08	1·3
15	11	4·8	09	7·4	09	7·2	09	5·1	06	3·0	03	1·9	11	4·7	11	3·2	11	2·9	13	5·0	12	7·6	12	8·9	09	8·8	10	7·3	10	4·7	10	1·1
16	12	4·6	10	5·6	09	6·5	10	4·6	08	3·0	07	1·4	10	4·3	11	4·6	11	3·6	13	4·4	12	7·4	12	6·3	11	7·3	09	7·8	10	5·0	13	1·4
17	11	5·0	10	5·2	10	5·2	11	3·8	06	2·2	14	2·9	12	4·2	11	2·2	11	3·1	13	4·0	12	6·4	12	6·3	11	5·8	10	6·4	10	2·9	13	0·7
18	11	5·0	10	5·7	09	4·9	11	2·4	06	1·7	14	1·4	12	2·6	11	1·7	11	2·3	13	1·1	12	6·0	11	4·5	09	5·0	10	6·2	10	2·5	13	1·4
19	11	5·4	09	5·5	10	4·4	11	3·1	07	2·6	11	1·9	11	1·8	11	1·7	11	2·6	13	0·6	13	4·6	10	5·5	10	5·3	10	5·1	10	3·0	10	1·9
20	11	5·9	09	5·6	10	4·9	11	3·0	07	1·5	09	0·9	11	2·2	11	1·6	11	2·4	13	0·7	13	4·7	11	5·2	10	5·4	08	5·4	09	3·0	10	1·6
21	10	5·3	09	5·2	09	4·2	10	2·8	07	1·8	10	1·0	11	2·5	11	2·0	10	2·4	13	1·0	12	4·9	12	7·0	09	5·1	09	4·7	09	2·6	10	1·6
22	10	5·6	10	5·5	09	3·2	10	2·7	07	1·6	11	2·5	11	1·8	11	2·2	12	3·8	13	1·2	12	4·3	12	5·6	11	4·3	09	4·2	08	3·0	12	1·6
23	08	4·9	09	5·9	09	4·4	11	2·4	07	1·3	13	3·4	11	1·8	13	2·2	12	2·9	11	1·8	12	4·5	12	3·9	10	4·7	10	3·9	10	2·7	13	1·1

Day. / Hour.	17d. *		18d.		19d.		20d.		21d *		22d. *		23d.		24d.		25d.		26d. *		27d.		28d.		29d *		30d		31d.		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.	
Midnight	13	0·8	13	0·7	11	1·7	11	1·3	10	0·6	15	0·6	12	2·9	12	2·7	10	1·8	17	1·1	12	2·3	11	1·9	10	2·0	12	2·1	11	4·6	2·7
1h	13	1·5	14	1·2	11	1·9	11	1·1	10	0·6	15	0·6	12	3·6	12	1·9	12	1·4	17	1·0	12	2·8	11	2·2	10	1·9	12	1·2	11	4·6	2·8
2	13	1·9	14	0·7	11	1·8	11	1·1	10	1·1	15	0·8	16	1·6	12	2·6	12	2·2	17	1·1	12	1·5	11	2·1	10	1·3	12	1·1	11	4·1	2·2
3	13	1·6	14	1·1	10	1·9	11	1·1	10	1·0	15	1·5	12	3·7	12	2·2	12	1·8	r09	2·3	11	2·3	11	2·1	10	2·1	12	1·6	11	5·5	2·5
4	13	1·3	14	0·9	10	2·0	11	1·2	10	0·6	15	1·3	12	3·1	12	3·3	12	1·8	11	1·8	11	1·4	11	1·6	11	1·8	12	1·4	10	4·9	2·3
5	13	2·0	14	1·2	10	1·6	11	1·3	10	0·6	15	1·0	12	3·6	11	1·5	13	2·1	11	3·1	11	2·0	11	2·8	11	1·8	12	1·5	11	3·8	2·4
6	11	1·9	14	0·7	10	2·0	08	1·3	10	1·1	15	0·8	12	4·7	11	2·0	12	1·4	10	2·1	11	3·2	11	3·2	11	1·3	12	1·7	10	4·1	2·3
7	11	1·6	14	1·7	10	1·7	08	0·6	14	0·6	15	1·1	12	5·4	12	3·1	12	0·6	11	4·1	11	3·7	12	1·6	11	2·0	12	1·4	11	5·1	2·6
8	11	1·8	14	0·7	10	0·9	08	0·7	14	0·7	15	1·2	12	4·3	11	3·0	12	1·1	10	3·3	12	2·3	12	2·0	11	1·2	12	1·2	10	5·2	2·7
9	11	0·9	14	0·9	10	2·3	02	0·7	14	0·6	14	3·2	11	3·3	10	4·3	12	3·5	11	4·6	10	3·1	11	3·3	11	2·0	12	1·8	11	5·3	3·5
10	d23	1·1	d28	1·1	11	3·2	04	0·6	18	0·9	13	3·0	11	4·8	10	6·1	12	5·1	09	5·7	11	3·1	09	4·0	11	2·2	10	3·1	11	7·6	4·4
11	21	2·1	32	1·1	10	3·1	05	2·1	22	1·4	20	2·8	11	5·4	11	6·2	11	5·5	09	6·0	11	2·8	11	4·3	07	2·0	10	3·3	11	6·8	4·5
Noon	23	2·9	01	1·4	08	3·1	07	2·7	17	1·5	21	3·7	11	6·3	09	6·0	12	5·6	10	5·8	10	3·9	10	4·7	07	1·8	11	4·3	11	7·3	4·9
13h	21	3·4	28	2·0	06	3·1	09	2·7	16	1·4	21	4·6	11	7·6	12	5·4	10	4·5	10	5·3	09	4·2	10	4·0	d18	1·6	12	4·4	09	7·9	4·9
14	21	3·9	26	2·1	08	3·2	04	3·3	16	1·1	21	4·1	11	7·3	10	5·3	09	3·7	11	5·2	12	4·0	09	4·3	07	1·8	12	4·3	09	7·4	4·8
15	r06	2·1	20	1·4	08	3·4	09	2·1	r02	1·8	15	2·6	11	7·3	11	5·1	12	4·2	12	5·0	11	3·8	09	4·5	07	1·8	11	5·4	09	7·1	4·6
16	02	1·9	20	1·0	07	3·1	08	2·8	d11	2·4	14	4·4	11	6·7	11	5·2	12	4·0	11	4·8	11	4·0	09	4·3	07	1·3	11	5·6	09	7·6	4·1
17	08	2·4	r11	1·4	10	2·7	09	1·6	14	3·0	14	4·5	11	5·5	11	4·7	11	3·2	10	4·5	11	3·1	09	4·0	07	1·5	10	5·1	09	7·4	3·9
18	11	1·5	11	1·4	11	1·6	09	1·1	15	2·0	13	4·5	11	3·6	10	2·2	11	1·3	09	3·7	11	2·7	11	3·2	10	1·7	11	4·1	09	3·5	3·0
19	13	2·0	11	1·1	11	1·3	10	0·8	15	1·5	13	2·1	11	3·0	10	2·1	10	1·5	11	2·7	10	1·3	10	2·4	10	1·3	12	2·1	11	4·6	2·7
20	13	1·3	11	1·1	11	1·2	10	1·0	15	1·1	16	1·0	10	3·2	10	1·8	10	0·8	11	2·8	09	1·6	10	2·0	10	1·2	11	4·2	10	4·4	2·7
21	13	2·0	11	1·2	11	1·4	10	1·1	15	0·6	r06	1·2	10	2·4	10	1·6	10	0·6	11	3·3	11	1·3	10	2·1	10	1·8	11	3·2	10	4·3	2·7
22	13	1·3	11	1·3	11	1·2	10	1·1	15	1·1	11	1·6	11	2·5	10	1·4	10	1·1	12	3·4	11	1·1	10	1·5	10	1·7	11	4·2	10	4·5	2·6
23	13	1·0	11	1·6	11	1·5	10	1·2	15	0·7	11	2·2	11	2·4	10	1·5	10	0·8	12	3·1	11	2·2	10	1·4	10	2·0	11	4·5	10	4·9	2·7

TABLE XIII.—WIND FREQUENCY (NUMBER OF OBSERVATIONS), JULY 1937.

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	...	...	...	...	2	6	19	2	2	...	...	...	...	...	...	...
9	...	5	26	...	1	...	...	5	5	17	3	...	...	...	...	...	...	...	...
15	...	8	23	...	1	1	2	9	3	13	...	1	...	1	...	...	...	...	...
21	...	1	30	...	.	...	1	6	12	10	...	2	...	...	...	...	...	...	...
Totals	...			..	...	1	3	22	26	59	5	5	...	1	...	...	...	...	...

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for JULY 1937.

Day / Hour	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	0·9	1·4	...	..	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	..	...	0·1	...	...	...	...	..
2	...	1·6	..	...	0·5	...	...	...	...	...	0·1	..	...	0·3	..	...	...	0·1	...	...	...	...	...	..	...	...	...	...	...	...	...
3	...	0·4	...	...	0·1	...	...	1·1	...	..	...	...	...	0·5	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	1·8	..	...	0·5	...	.	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...
5	..	6·7	...	...	0·3	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	..	...	...
6	...	1·3	...	...	1·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	...	...	...	...	...	0·5	...	...	...	...	...
7	...	0·4	...	...	2·4	...	..	...	...	...	...	...	...	1·5	...	...	...	...	...	1·2	...	...	..	...	...	...	...	...	...	...	...
8	..	...	...	...	...	...	...	...	...	...	...	...	..	0·8	..	...	...	..	...	0·2	...	...	...	...	...	0·5	...	...	...	...	...
9	...	...	...	...	...	...	..	0·7	...	...	...	...	...	1·0	...	..	...	...	...	0·5	...	...	..	...	...	0·2	...	...	...	...	...
10	...	...	...	...	...	..	...	...	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	..	...	.	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...
Noon	...	...	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
13h	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7·1	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	..	..	...	...	..	...	..	..	...	..	...	...	...	...	10·2	...	...	...	0·2	...	...	...	...	...	...	..	...	...	...	...
15	0·1	...	0·1	...	...	..	...	...	...	...	..	...	...	..	...	1·2	...	3·1	...	0·3	...	...	...	...	...	..	...	...	..	..	..
16	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·9	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	..	..	...	...	...	...	0·4	..	...	...	...	...	...	...	...	...	...	...	...	.	...	...	0·1	...	...	...
18	0·2	...	...	...	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
19	0·7	0·5	...	...	...	...	...	..	...	...	...	0·3	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	0·9	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	...	...	0·1	.	...	...	...
21	1·0	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
22	4·1	...	...	...	...	...	...	..	...	...	...	...	...	0·7	...	. .	...	...	...	...	..	...	...	...	...	...	...	...	...	...	0·1
23	3·0	...	...	...	...	...	...	...	...	...	..	..	...	1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	1·2	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	. .	...	0·8	...	0·6	...	...	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR JULY 1937.

Day / Hour	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	1·3	...	...	0·1	...	...	...	...	...	2·0	...	2·8	0·2	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	0·9	...	0·3	1·5	...	...	0·3	...	...	1·2	0·2	2·0	0·8	...	...	...	...	...	...	...	...	...	...	...	0·3	0·3	...	...	...	...
3	...	0·8	...	...	..	...	...	0·5	...	..	0·8	...	...	0·4	...	...	...	...	...	...	...	...	.	..	...	0·3	0·1	...	...	...	...
4	...	2·0	...	...	0·4	...	..	0·5	...	...	0·9	...	0·7	...	0·1	...	...	...	...	...	...	...	...	...	...	0·1	0·6	...	...	...	...
5	..	...	...	0·1	0·8	...	...	0·1	...	...	0·8	1·4	1·4	0·1	...	...	...	...	...	0·1	...	...	...	...	...	1·2	..	...	...	...	...
6	...	...	...	0·1	1·0	0·2	...	...	0·1	...	0·2	0·9	0·9	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...
7	0·4	0·8	...	0·2	1·1	...	...	...	...	...	0·1	0·4	0·3	...	...	...	...	...	...	0·3	...	...	...	...	...	0·9	...	...	...	...	...
8	0·3	0·4	...	0·4	0·3	...	...	...	...	...	0·1	...	0·5	...	...	0·1	0·1	...	...	0·9	...	...	...	...	...	1·4	...	...	...	...	...
9	0·3	0·2	...	..	0·2	...	. .	0·1	...		0·2	...	..	...	...	...	...	..	...	...	...	...	...	...	...	2·3	...	...	...	...	...
10	..	0·6	...	0·3	...	...	...	...	...	...	...	...	0·2	..	...	...	...	...	...	...	...	...	...	...	...	1·2	...	...	...	...	...
11	...	0·2	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...
Noon	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	...	...	...	...	...	..	...
13h	0·7	...	...	...	...	..	...	...	...	...	...	0·2	...	0·2	...	...	..	...	...	...	...	...	0·3	...	...	. .	...	...	...	...	...
14	0·7	...	...	...	...	...	...	...	...	...	...	0·3	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	0·7	...	0·1	...	..	...	...	...	...	...	...	...	..	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	2·3	0·6	0·1	...	...	...	...	1·7	...	...	..	0·3	...	1·0	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	2·2	0·1	...	...	...	...	...	0·4	...	...	...	...	...	1·6	...	7·8	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
18	2·4	0·4	0·2	...	...	...	...	1·5	...	..	...	1·5	...	0·9	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	0·3	...	...
19	1·6	0·6	...	...	...	...	...	...	...	...	...	0·5	...	..	...	...	...	..	...	...	...	...	...	...	...	0·1	0·3	...	0·4	...	...
20	2·6	0·9	...	...	...	...	...	...	...	...	0·2	0·2	..	1·6	...	...	0·4	...	...	...	...	...	...	...	0·2	...	...	...	0·1	...	0·3
21	0·9	...	0·4	...	...	...	...	...	...	...	0·2	...	0·1	1·9	...	...	0·3	...	...	...	..	...	...	...	..	...	...	...	...	...	0·4
22	2·4	...	0·1	..	...	.	0·2	...	...	0·2	0·1	...	...	0·6	...	...	...	..	...	...	...	...	...	...	0·1	...	...	...	...	...	...
23	2·9	...	.	...	...	...	...	0·2	...	0·1	...	0·1	...	0·4	..	...	1·1	...	...	...	..	...	...	...	0·7	...	...	...	...	...	...
24	2·7	...	0·8	...	..	...	...	...	...	0·9	...	0·2	...	0·1	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for JULY, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	2.32	...
	St. Antoine	50	3.87	98.3	2.72	9
	Bel Mont	50	5.32	135.1	2.86	14
	Poudre d'Or	20	5·72	145.3	2.89	14
	Mon Loisir (S.E.) ...	300	3.33	84.6	3.54	7
	Forbach	300	3.72	94.5	2.08	11
	Couroupa	...	3.24	82.4	3.07	12
*	Labourdonnais	290	...	...	3.10	...
	Mapou Water Office ...	...	3.45	87.6	...	6
	Beau Séjour	300	5.18	131.6	4.16	16
	Mont Piton	650	5.13	130.3	4.16	14
	Mon Choix	700	4.47	113.5	3.54	17
	Antoinette	640	...	...	3.96	...
	Mon Songe	620	5.87	149.1	4.23	17
	Botanical Gardens ...	325	4.91	124.7	3.21	23
*	The Observatory ...	179	2.95	74.8	2.28	20
	Solitude	175	...	...	1.44	...
	St. André (Cour) ...	90	2.38	60.5	1.90	6
	La Nicolière	...	5·73	145.5	4.89	21
	California	...	6.04	153.4	...	13
	Australia	..	6.16	156.5	...	13
2 & 3	Union Régnard (Flacq S.E.) ...	600	6.11	155.2	4 83	12
	Constance d'Arifat (L.S.) ...	100	5.38	136.7	3.73	20
	Rich Fund	600	5.03	134.6	4.79	15
	La Joffrette	...	5.93	150.6	...	10
	Belle Vue (Allendy) ...	...	5.18	132.6	4.07	18
4	Sans Souci	900	15.00	381.0	9.73	27
	Beau Champ (G.R.S.E.) ...	20	3.75	95.3	3.19	17
	Olivia	400	9.87	251.0	5.57	21
	Trois Ilots	...	9.16	232.7	..	20
	Belle Rive	400	13.95	354.3	6.43	25
	Sébastopol	700	10.24	260.1	...	15
	Bonne Veine	400	7.72	196.1	7.60	24
5	Rose Belle	850	14.33	364.0	8.40	24
	New Grove	650	12.83	325.9	8.48	24
	Mon Trésor	...	6.43	163.3	...	18
	Mon Désert (Carié) ...	75	4.68	118.9	2.98	21
	Ferney	20	...	...	5.00	...
	Sauve Terre	...	5.05	128.3	..	17
6	Tivoli	1,300	21.38	543.1	9.38	30
	La Flora	1,050	17.15	435.6	8.67	29
	Riche Bois (Brit.) ...	650	9.91	251.7	6.92	24
	Britannia (Estate) ...	700	12.80	325.1	6.45	27
6	Savannah (Mill) ...	200	5.74	145.8	3.86	21
	St. Aubin	300	6.64	168.7	4.53	24
	St. Avold	900	13.88	352.6	7.38	30
	Colmar	400	14.87	377.7	5.27	28
	Union (S.E.)	...	8.65	219.7	3.95	23
	Fontenelle	320	11.58	294.1	4.55	21
	Choisy	200	8.37	212.6	2.90	16
	Beau Bois	...	13.96	354.6	...	27
	Bel Air	...	5.95	151.1	3.70	11
	St. Félix	...	7.40	188.0	...	11
7,8,9&10	Bel Ombre	40	..	...	2.94	...
	Beau . hamp (S du Cap) ...	70	...	...	2.75	...
	Frédérica	...	...	..	3.50	...
	Pierre Fonds	...	1.20	30.5	1.14	18
	St. Marie	...	...	...	...	...
	Hussonia	...	...	...	...	...
11	Curepipe Gardens ...	1,840	10.30	261.6	8.17	...
	Mare aux Vacoas (G.E.) ...	1,850	11.24	285.5	11.28	25
	Mare aux Vacoas (Arn) ...	1,830	15.12	384.0	11.21	25
	La Marie Filter Beds ...	1,700	6.15	156.2	6.75	15
*	Sophie	...	12.98	329.7	...	27
	Réunion	1,420	5.02	127.5	5.15	18
*	Aerological Station ...	1,393	4.17	105.8	4.50	24
	Phoenix	...	3.37	85.6	...	13
	Quatre Bornes ...	...	1.69	42.9	...	9
12	Quatre Bornes (Board) ...	1,090	1.68	42.7	...	6
*	Le Réduit (D of A) ...	1,000	2.13	54.2	2.50	25
	Alma	1,460	7.06	179.3	7.97	20
	Bagatelle	1,250	4.89	124.2	3.98	14
	Highlands	1,300	4.19	106.4	4.49	14
	Trianon	950	1.98	50.3	2.73	14
	Val Ory	1,100	..	..	3.10	...
	Bassin	.	1.10	27.9	2.14	8
	Hermitage	1,450	8.30	210.8	7.82	13
	Ebène	...	1.99	50.5	...	14
	Béga	...	1.85	47.0	...	12
	Mon Rêve	...	2.67	67.8	...	13
	Mon Pevril	...	2.92	74.2	...	12
	Minissy	1,150	3.26	82.8	3.20	13
	Plaisance	...	5.43	137.9	...	16
	La Ferme	350	1.15	29·2	1.25	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 JULY 1937.

Day.	Time	Scud Dir.	Scud 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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	..	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	..	...	...
3	...		...	...	...	...	...	...	...	..	...	...	...
4	...	...	...	...	...	...	...	...	...	..	...	...	...
5	...	...	...	...	...	...	..	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	..	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	.	..	...	...	...	...	...	...
9	...	...	...	..	...	...	...	...	...	...	...	...	...
10	10	150	20·5	165	...	...	...	...	...	...	...	300	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	..	...	...	...	..	...	...	...	...	..	...	...	...
14	..	...	...	...	..	...	...	...	...	...	...	...	...
15	...	...	...	...	..	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	..	...	...	...
17	10	...	...	165	...	...	...	...	...	...	...	..	..
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	11¾	...	...	105	10·0	45	4·9	...	...	...	...	...	..
20	...	...	...	...	...	...	...	...	...	...	...	...	...
21	11½	...	...	180	8·4	...	...	...	...	...	...	...	...
22	10	..	...	195	9·9	345	3·4	...	...	...	...	...	...
23	...	...	...	...	...	...	..	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	..	...	...	...	..	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	10	..	...	...	...	90	...	...	...	...	...	..	...
29	11	...	...	...	...	315	7·4	...	...	...	...	...	...
30	10¾	135	15·7	135	9·7	310	4·5	...	...	...	...	...	...
31	10½	...	...	...	...	270	...	...	...	.	...	...	...

Day.	Time	Scud Dir.	Scud 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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	15¼	112	22·9*	112	21·4*	120	...	...	...	...	...	...	...
3	14¼	90	29·7*	98	17·4*	...	...	...	...	...	...	...	...
4	...	...	..	...	..	...	...	...	...	...	...	...	...
5	14¼	90	6·7*	85	6·3*	345	1·0*	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	..	..	...	...	...	...	...	...	...	...	...	...
8	14¾	...	...	120	10·0	150	...	..	...	...	...	...	...
9	14¼	...	...	135	21·9	105	...	...	..	...	...	...	...
10	14¼	157	11·1*	150	7·8*	...	...	...	...	...	...	300	1·7*
11	...	...	...	...	...	..	...	...	...	...	. .	...	...
12	14¼	150	16·4*	143	13·6*	...	...	...	...	...	...	...	...
13	14¼	105	19·6*	117	12·4*	...	...	...	...	...	...	...	...
14	15½	105	17·3*	90	31·0	...	...	...	..	...	...	270	1·0*
15	14¼	...	...	120	11·9*	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...
17	15¼	...	...	240	8·1*	...	...	...	...	...	...	...	...
18	...	...	...	..	...	...	...	...	...	...	...	...	...
19	14¼	120	11·4*	30	6·0*	...	..	...	...	08	3·5*	...	...
20	14½	...	...	83	4·2*	120	3·7*	...	...	...	..	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	..	...	...	...	...	...	...	...	...	...	...
23	14¼	...	...	...	...	180	2·0*	...	...	...	...	...	...
24	14¾	...	...	210	6·1*	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	. .	...	...	..	...	...
26	13¾	97	9·6*	90	8·1*	..	...	...	...	...	..	...	. .
27	14¼	...	...	90	9·4*	105	10·5*	...	...	120	10·1*	...	...
28	14¼	...	...	...	...	270	2·0*	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...
30	14¼	150	14·2*	280	4·7*	...	...	...	...	...	...	..	...
31	14¾	...	...	...	...	315	1·3*	...	...	...	...	...	...

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.

75/3/38—R.A.O. 250.

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RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

AUGUST, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

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1938

TABLE I.—RESULTS OF MAGNETICAL OBSERVATIONS made during the MONTH OF AUGUST, 1937

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 1 γ)	Daily Range† Vertical Force (Unit 1 γ)	HR₃: 10000	ZR₂: 10000
AUG.	° ′			′				
1	13°23·1	.22493	.29722	7·8	39	24	88	71
2	24·3	423	733	8·5	136	35	305	104
3	23·6	442	732	9·0	64	34	144	101
4	23·8	440	734	6·5	46	20	103	59
5	24·3	460	727	10·0	43	40	97	119
6	23·7	457	728	9·8	42	41	94	122
7	23·5	467	726	8·6	88	39	198	116
8	23·9	467	729	10·0	43	40	97	119
9	23·8	474	725	7·2	50	37	113	110
10	23·6	473	730	6·7	54	35	122	104
11	24·2	482	728	10·3	68	43	153	128
12	24·1	489	731	10·6	47	34	106	101
13	24·3	493	728	9·4	67	23	151	68
14	23·5	489	727	9·0	53	30	119	89
15	23·8	475	729	11·0	55	35	124	104
16	23·3	485	735	7·8	47	20	106	59
17	24·3	483	739	9·5	46	14	103	41
18	24·8	481	736	7·5	28	39	63	116
19	24·7	487	733	8·0	40	36	90	107
20	24·1	483	729	9·8	24	43	54	128
21	24·3	484	731	7·0	45	34	101	101
22	25·1	414	744	7·0	227	26	508	77
23	24·9	402	745	9·0	118	48	264	143
24	24·7	438	746	12·2	28	42	63	125
25	24·2	450	742	12·3	45	47	101	140
26	24·0	475	741	8·0	33	41	74	122
27	24·5	458	744	10·7	62	32	140	95
28	24·8	447	739	12·2	53	56	119	166
29	23·4	458	742	9·2	17	34	38	101
30	24·0	469	745	10·7	24	35	54	104
31	24·6	480	740	12·5	43	60	97	178
Mean	13°24·10	·22465	·29734	9·28	57·3	36·0	128·7	107.0

Description of the Principal Magnetic Disturbances.

Declination.—2d. Very slightly disturbed trace.
22d. $7^h{\cdot}05^m$ to 18^h Disturbed ; small pulsations superposed on a very irregular trace.

Horizontal Force.—2d. Disturbed from $1^h{\cdot}50^m$ Irregular fluctuations in the trace with considerable increase in daily range.
3d. & 4d. Moderately disturbed. Irregular fluctuations on the trace at times.
22d. Sudden commencement at $7^h{\cdot}05^m$ of a considerable but short-lived disturbance ending during the early hours of 23d.; small oscillations on a widely fluctuating trace; the absolute range for the day is 240γ.
26d, 27d. & 28d. Slightly disturbed.

Vertical Force—2d., 3d. & 4d. Moderately disturbed.
22d. Sudden commencement at $7^h{\cdot}05^m$ of an important disturbance ; continuous oscillations of small amplitude superposed on the fluctuating trace.

T=·37266 : Mean Dip=52° 55′·66 : (X=·21853 : Y=−·05207 : Z=·29734).
† The daily range is the difference between the greatest and least hourly values.

TABLE II.—RESULTS OF ABSOLUTE DETERMINATIONS of the MAGNETIC ELEMENTS during the MONTH of AUGUST 1937.

Declination (West) Day and Hour	Declination (West) Observed Value	Horizontal Force Day and Hour	Horizontal Force Observed Value	Dip (South) Day and Hour	Dip (South) Observed Value	Resulting Vertical Force
d h m	° ′	d h m		d h m	° ′	
6·11·08	13·28·1	5· 9·07	·22473	6.10.59	52.54.68	·29724
17·13·07	13·25·0	7· 9·39	·22478	17·12·52	52·53·07	·29741
31·14·25	13·18·6	12· 9·52	·22500	27·15·05	52·56·38	·29733
		14· 9·41	·22521	31·14·37	52·51·00	·29695
		19· 9·36	·22527			
		21· 9·03	·22514			
		26· 9·39	·22486			
		28· 9·22	·22469			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

AUGUST 1937

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	24·5	24·3	25·5	24·5	24·3	24·5	24·3	24·3	23·5	23·8	24·0	23·5	23·7	24·0	24·3	25·2	Midnight
1h	24·0	24·0	24·7	23·5	24·0	24·5	24·5	24·0	24·0	23·7	24·0	23·3	23·5	23·5	23·8	25·5	1h
2	23·8	24·3	24·3	25·5	24·3	24·5	24·3	24·0	24·0	24·0	24·0	23·5	23·7	23·5	23·5	24·7	2
3	23·7	24·5	24·0	25·0	24·5	24·5	24·3	24·3	24·3	24·2	24·3	23·7	23·5	23·5	23·5	24·5	3
4	23·5	25·0	23·5	25·0	24·5	24·3	23·5	24·5	24·5	24·5	24·5	24·0	23·3	23·5	23·0	24·3	4
5	24·0	25·0	23·5	26·5	23·0	23·5	23·0	24·3	24·3	24·3	24·3	23·7	23·5	23·3	22·7	23·5	5
6	23·3	23·7	23·3	23·0	23·0	23·0	20·3	24·0	23·5	24·0	24·0	23·5	23·0	22·5	22·5	23·5	6
7	22·5	25·0	22·0	22·0	22·0	22·7	20·5	22·0	21·7	22·0	22·3	21·5	22·0	21·5	22·0	22·0	7
8	23·3	22·0	22·7	22·5	23·5	23·0	22·7	22·0	22·5	22·5	23·0	22·0	23·7	23·0	24·5	22·5	8
9	25·0	24·0	25·5	24·0	27·0	26·0	26·0	26·5	24·5	25·0	26·5	26·5	27·0	26·0	27·0	25·0	9
10	26·5	25·5	28·0	26·5	28·0	28·0	27·0	29·0	26·7	26·7	29·0	29·3	30·7	28·0	28·0	26·3	10
11	25·0	20·0	27·0	26·0	29·3	28·3	27·3	28·5	27·5	26·3	29·3	30·3	30·5	27·5	28·5	26·0	11
Noon	23·5	19·5	24·3	25·0	29·0	26·5	26·0	27·5	27·0	25·0	29·0	29·7	28·0	26·3	28·5	24·5	Noon
13h	22·0	22·0	22·0	23·7	28·3	24·7	23·0	24·0	24·5	23·7	27·0	27·0	26·0	24·0	28·0	23·0	13h
14	20·5	23·0	20·0	22·0	25·0	22·5	20·0	21·0	22·3	22·0	23·0	22·7	23·0	21·7	23·0	19·7	14
15	19·7	23·0	19·0	20·0	21·0	19·0	18·7	19·0	21·0	20·0	19·0	19·7	21·5	19·0	17·5	18·5	15
16	18·7	23·7	20·0	20·0	19·3	18·5	20·0	20·0	20·3	20·3	19·0	19·7	21·3	19·0	17·5	18·5	16
17	20·0	24·7	22·5	21·5	20·5	21·0	22·0	22·0	21·5	22·0	21·5	21·0	22·0	21·0	20·5	20·7	17
18	22·7	24·5	23·5	22·7	22·7	22·7	23·0	23·0	23·5	23·0	23·0	23·0	22·7	22·7	22·3	22·5	18
19	23·0	28·0	24·0	23·5	23·5	23·0	23·5	23·3	23·7	23·5	24·0	23·5	23·3	23·0	22·7	23·0	19
20	23·5	27·3	24·3	24·5	24·0	23·3	24·0	23·5	24·0	23·7	24·5	24·0	23·8	23·7	23·7	23·5	20
21	23·5	27·0	24·7	24·5	24·3	23·5	24·3	24·0	24·0	24·0	24·3	24·2	24·2	24·3	24·5	24·3	21
22	23·5	27·0	24·7	24·3	24·2	24·0	24·7	24·3	24·0	24·3	24·3	24·2	24·3	24·3	24·7	24·3	22
23	24·3	26·0	24·5	24·7	25·0	24·3	24·5	24·2	24·0	24·0	24·0	24·0	24·3	24·3	25·0	24·5	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	24·5	24·5	24·5	24·5	24·5	24·0	26·5	24·5	24·3	24·0	25·0	26·0	25·0	25·0	24·7	24·5	Midnight
1h	24·5	24·7	24·5	24·3	25·0	24·0	25·5	24·3	24·3	23·8	25·0	25·8	25·0	24·5	25·0	24·3	1h
2	24·5	24·7	24·7	23·5	25·0	24·0	25·0	24·5	24·5	23·9	24·7	25·7	25·0	24·3	25·0	24·3	2
3	24·3	25·0	24·7	24·3	25·3	24·5	24·7	24·7	24·7	24·0	24·6	25·0	24·5	24·3	25·3	24·4	3
4	24·0	24·5	24·7	24·0	24·7	24·5	24·5	25·0	25·0	24·0	25·0	25·0	24·3	24·3	25·3	24·3	4
5	23·5	24·3	24·5	24·0	24·5	24·7	24·5	25·0	24·5	24·0	25·3	25·5	24·0	24·3	25·0	24·2	5
6	23·5	24·0	24·5	23·5	24·0	24·0	24·0	25·0	24·0	24·0	24·5	24·3	23·0	23·5	24·5	23·6	6
7	22·0	22·5	22·5	24·0	23·5	24·0	24·7	24·7	22·5	22·0	24·5	25·0	22·5	23·5	23·5	22·7	7
8	23·0	24·0	24·0	25·5	24·5	28·0	26·3	26·3	24·0	23·0	26·0	26·7	24·3	25·0	25·0	23·9	8
9	27·0	28·0	27·5	28·0	27·0	24·5	28·0	29·0	27·0	26·0	28·0	30·0	26·5	28·0	28·0	26·6	9
10	30·0	30·0	30·0	29·5	28·0	24·0	29·3	30·7	30·0	28·3	29·7	30·7	26·7	29·0	30·5	28·4	10
11	30·0	30·0	30·0	28·5	27·5	25·0	29·0	30·0	30·3	27·5	28·0	30·0	26·5	28·0	31·0	28·0	11
Noon	27·5	27·0	28·0	26·3	24·7	24·0	26·5	27·0	28·0	26·0	26·3	29·0	24·0	26·0	28·0	26·4	Noon
13h	26·0	26·0	26·0	23·0	22·5	24·0	24·0	24·0	24·0	24·0	23·0	23·0	20·5	22·5	24·0	24·2	13h
14	22·7	24·5	23·0	20·5	21·0	21·0	21·0	20·5	19·0	22·0	20·5	21·0	18·3	20·0	20·0	21·5	14
15	20·5	23·5	22·0	19·7	21·0	24·5	20·3	18·5	18·0	20·3	19·0	18·5	17·5	18·3	18·5	19·9	15
16	21·3	22·5	12·0	20·0	21·5	24·5	20·7	19·3	19·0	20·5	19·5	18·5	17·7	19·0	20·0	20·1	16
17	22·5	23·0	22·3	22·0	23·5	26·0	23·5	22·0	22·0	22·0	22·0	20·5	20·5	22·0	22·0	21·9	17
18	22·7	23·0	23·5	23·0	24·0	25·3	24·5	24·0	23·7	23·7	23·3	23·0	23·3	23·5	23·0	23·3	18
19	23·3	23·0	23·7	23·5	24·0	24·7	24·5	24·5	24·0	24·0	24·0	23·3	24·0	23·7	23·5	23·7	19
20	23·5	23·7	24·0	24·0	24·3	28·0	25·0	25·0	24·3	24·7	23·5	24·5	24·7	24·3	24·0	24·3	20
21	24·0	24·0	24·5	24·2	24·3	27·5	25·3	25·3	24·3	25·0	24·7	25·0	24·7	24·5	24·3	24·6	21
22	24·3	24·3	24·5	24·3	24·3	27·3	25·5	25·0	24·5	24·5	25·3	25·3	25·0	24·7	24·5	24·7	22
23	24·5	24·5	24·3	24·5	24·0	28·0	25·3	24·7	24·3	25·3	25·0	25·5	25·0	25·0	24·7	24·7	23

TABLE IV.—MAGNETIC HORIZONTAL FORCE at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS

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

AUGUST 1937.

·22000 + (C.G.S. UNIT).

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day / Hour
Midnight	478	480	413	440	440	450	457	455	460	463	449	472	475	472	480	460	Midnight
1h	479	487	415	445	450	451	457	457	460	466	450	479	480	477	485	465	1h
2	481	491	415	440	451	452	457	459	461	465	452	477	482	477	487	467	2
3	483	483	417	445	451	453	459	459	463	465	453	480	483	480	480	470	3
4	489	473	425	450	451	457	473	460	465	470	456	480	485	482	483	473	4
5	489	481	427	430	465	457	481	463	467	467	459	485	485	483	482	475	5
6	493	485	437	457	464	462	482	465	472	473	462	490	489	487	485	480	6
7	500	480	445	455	467	470	490	477	475	480	470	500	493	495	495	485	7
8	502	487	457	461	470	471	493	477	485	487	485	507	507	505	500	497	8
9	507	460	462	461	467	470	485	477	492	490	500	509	515	515	495	499	9
10	412	431	457	460	471	467	483	478	500	490	505	508	520	517	487	498	10
11	517	430	465	450	480	471	490	485	505	495	507	517	530	520	487	499	11
Noon	513	410	477	450	483	473	503	493	500	503	513	519	537	523	495	507	Noon
13h	506	380	460	445	475	475	495	487	500	497	510	505	530	512	490	503	13h
14	507	380	453	445	470	470	485	479	502	495	507	498	520	507	477	500	14
15	493	377	447	430	460	450	415	477	485	497	517	493	500	495	467	492	15
16	490	370	427	427	450	433	450	465	473	480	500	485	487	483	445	489	16
17	483	355	430	422	447	435	445	450	455	460	483	477	477	470	449	480	17
18	480	351	431	421	451	447	452	453	455	452	477	477	470	470	457	479	18
19	478	360	442	415	452	450	453	453	460	449	480	478	472	472	459	480	19
20	480	370	449	423	453	451	452	455	461	450	480	479	472	473	456	480	20
21	487	375	451	425	453	450	451	457	457	452	480	477	473	473	459	481	21
22	483	395	451	429	450	449	455	457	457	457	477	475	473	475	460	481	22
23	479	405	448	433	452	453	457	462	462	458	479	473	475	480	460	481	23

·22000 + (C.G.S. UNIT).

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d	Mean	Day / Hour
Midnight	483	468	480	472	477	475	360	427	445	460	456	450	456	459	470	457·5	Midnight
1h	481	465	481	475	473	475	325	427	447	465	457	443	455	460	470	458·1	1h
2	479	465	483	485	473	482	327	429	447	470	460	441	456	463	470	459·5	2
3	480	469	484	479	474	487	333	433	449	473	462	450	460	463	471	461·0	3
4	479	472	483	479	477	490	340	433	450	476	463	460	465	465	472	463·7	4
5	480	475	483	482	479	493	345	435	452	475	469	455	463	467	475	465·3	5
6	479	479	482	485	482	497	405	439	456	480	475	457	467	470	479	471·5	6
7	485	485	490	490	490	505	417	447	465	485	483	460	465	477	481	477·5	7
8	491	493	507	496	505	532	427	453	475	490	492	463	463	481	483	485·2	8
9	497	490	510	493	503	505	433	455	465	490	480	462	455	483	481	484·1	9
10	503	487	502	487	505	503	420	450	460	487	478	460	462	482	480	482·3	10
11	507	487	505	480	507	465	420	440	450	487	467	459	467	475	490	482·4	11
Noon	513	490	503	483	515	450	422	435	445	487	457	458	465	475	502	483·8	Noon
13h	505	493	497	485	500	360	425	433	430	480	450	455	460	473	513	475·1	13h
14	497	492	500	484	495	308	443	431	430	480	453	435	450	467	510	470·1	14
15	480	487	495	482	483	320	443	435	437	487	453	420	453	465	495	462·4	15
16	473	480	485	485	477	305	430	436	440	479	452	410	452	462	473	454·6	16
17	467	473	480	483	472	305	415	434	445	467	455	420	450	460	472	448·9	17
18	467	475	477	482	472	315	408	433	450	463	453	440	451	463	471	449·8	18
19	467	477	473	477	471	330	409	435	454	465	445	445	453	465	473	451·4	19
20	470	479	470	477	473	340	412	436	456	469	437	442	455	467	471	452·8	20
21	470	482	470	480	470	345	413	437	453	467	430	445	457	467	472	453·5	21
22	469	483	477	480	473	350	413	440	454	463	441	450	457	469	473	455·4	22
23	468	482	473	480	475	355	422	443	455	457	435	455	456	470	473	456·6	23

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

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

AUGUST 1937

Hour. / Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	727	726	738	731	736	732	733	734	734	733	736	731	732	731	731	737	Midnight
1h	728	725	736	732	733	731	732	732	733	732	735	731	732	731	730	737	1h
2	727	726	736	732	732	731	731	731	732	731	734	730	731	731	730	736	2
3	727	727	737	732	732	731	731	731	731	731	733	730	731	731	730	737	3
4	727	729	738	735	733	731	729	730	731	730	731	729	730	730	730	736	4
5	726	729	738	737	732	731	729	730	730	730	731	729	729	730	730	736	5
6	725	726	739	735	732	730	729	730	730	730	730	728	729	730	730	735	6
7	722	724	735	731	731	730	726	729	726	727	728	724	726	727	729	733	7
8	726	725	739	734	737	736	731	736	730	730	732	731	731	731	737	738	8
9	731	731	744	739	741	741	739	742	735	739	741	743	739	738	741	742	9
10	730	740	747	740	737	741	736	745	737	744	744	749	741	739	740	743	10
11	720	719	735	740	729	730	729	741	731	740	740	750	732	730	737	740	11
Noon	711	716	721	731	720	719	719	729	721	729	731	741	722	721	730	731	Noon
13h	709	727	719	727	707	710	701	717	711	723	719	732	720	713	723	726	13h
14	707	737	713	721	703	703	698	706	700	719	704	718	719	711	711	723	14
15	709	738	715	720	701	700	700	705	701	709	701	716	718	709	706	729	15
16	711	749	720	727	706	712	711	710	702	712	709	721	720	713	710	731	16
17	717	741	730	732	715	725	721	724	711	721	719	727	725	713	722	735	17
18	725	742	735	738	727	731	729	731	722	729	725	730	727	729	727	737	18
19	726	751	735	739	731	732	731	732	726	730	728	730	727	729	729	737	19
20	727	744	734	740	733	734	732	733	729	731	729	731	729	730	731	737	20
21	725	743	733	739	733	735	733	735	731	733	730	731	730	731	732	736	21
22	725	741	732	738	734	736	735	735	732	735	731	731	730	732	733	735	22
23	726	749	731	737	733	735	734	734	732	735	731	731	731	732	733	735	23

Hour. / Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	737	740	736	737	736	738	759	751	750	748	749	753	749	750	749	738·8	Midnight
1h	737	740	737	738	736	737	753	751	750	747	749	752	749	750	749	738·3	1h
2	738	740	737	735	736	736	753	750	749	746	748	752	749	750	750	737·7	2
3	737	741	737	735	737	737	753	749	749	745	748	752	749	750	730	737·8	3
4	737	741	738	736	737	736	753	749	748	744	747	751	748	750	750	737·5	4
5	737	740	739	736	737	737	754	749	747	744	746	750	747	750	750	737·4	5
6	737	739	739	737	737	737	755	749	746	743	745	750	746	749	750	737·0	6
7	735	736	735	739	737	737	754	750	744	741	745	751	747	749	748	735·4	7
8	740	741	740	742	740	740	759	755	751	747	751	755	751	752	753	740·0	8
9	747	749	744	741	741	745	762	761	760	756	759	759	754	756	760	745·8	9
10	746	752	747	730	740	746	750	762	762	761	755	750	750	755	757	745·7	10
11	740	735	740	719	724	747	739	757	750	750	750	733	741	749	746	737·5	11
Noon	741	740	731	710	709	733	720	742	739	739	741	719	731	739	723	727·4	Noon
13h	737	721	732	699	707	721	714	731	720	726	731	709	722	723	705	718·8	13h
14	733	719	712	701	709	737	715	720	715	721	728	703	720	721	700	714·4	14
15	738	720	711	711	712	740	722	747	617	620	727	704	720	725	705	716·0	15
16	740	726	715	721	722	745	735	720	725	725	729	715	726	733	720	721·3	16
17	741	730	720	729	731	747	742	733	733	731	736	729	736	743	733	729·1	17
18	740	731	729	731	735	752	745	742	741	737	740	737	744	748	742	734·8	18
19	740	732	732	733	736	759	749	744	741	739	741	739	744	746	743	736·5	19
20	740	735	735	735	738	761	751	747	742	741	743	742	745	747	745	737·8	20
21	740	735	739	735	739	762	751	749	745	742	749	746	746	747	746	738·7	21
22	741	736	738	735	739	761	751	750	747	745	751	747	747	748	747	739·3	22
23	740	736	737	734	739	761	751	750	748	749	751	748	748	749	747	739·3	23

TABLE VI.—RESULTS of METEOROLOGICAL OBSERVATIONS made at the AEROLOGICAL STATION Vacoas (424·5 metres above mean sea level) during the MONTH of AUGUST 1937.

Month and day 1937.	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.
AUG.	mbs.	°	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	973·5	18·4	1·1	16·4	88	18·5	90	7·2	7	17·0	17·5	20·1	17·0	20·2	15·7	4·5	0·4	5	8·2	73
2	973·2	19·7	3·3	13·7	68	15·5	80	4·5	8	15·3	20·0	20·5	17·0	21·6	13·2	8·4	0·0	0	9·3	83
3	971·7	19·5	2·6	14·8	74	16·7	85	4·5	6	16·5	20·0	21·0	16·6	22·6	15·6	7·0	0·2	3	9·2	82
4	970·1	20·6	3·8	13·8	65	15·6	90	1·8	1	15·5	19·5	21·3	16·3	22·5	15·9	6·6	0·7	7	10·4	93
5	970·0	19·5	3·2	13·7	69	15·5	80	4·0	7	14·5	18·4	21·5	16·0	21·5	14·0	7·5	0·0	0	9·1	81
6	969·2	21·5	4·3	13·9	62	15·7	Calm		0	14·9	20·0	25·0	16·1	25·3	14·5	10·8	0·0	0	9·0	80
7	968·3	20·9	3·9	13·9	64	15·7	Calm		4	14·4	19·0	23·0	18·2	23·5	14·4	9·1	0·0	0	5·6	50
8	968·5	20·4	3·1	14·9	71	16·8	110	4·0	1	16·9	19·0	20·5	16·7	21·0	16·1	4·9	0·0	0	10·9	96
9	970·3	19·6	4·7	11·1	58	13·1	110	4·9	0	15·0	17·5	20·4	15·3	21·4	14·3	7·1	0·0	0	11·0	98
10	971·3	18·9	4·5	10·7	59	12·8	110	3·6	1	14·0	17·4	20·0	14·0	20·0	13·5	6·5	0·9	13	10·3	91
11	971·5	19·1	4·6	10·8	59	12·9	90	5·4	5	12·7	19·2	20·0	16·1	20·9	10·0	10·9	3·9	65	9·4	83
12	973·1	17·6	1·6	14·3	82	16·2	110	5·4	9	14·1	17·5	19·0	15·6	19·2	14·1	5·1	1·9	23	4·5	40
13	974·6	18·1	2·2	14·1	77	15·9	90	5·4	7	13·6	18·2	19·0	17·0	21·2	12·9	8·3	4·1	57	5·6	50
14	976·2	18·5	2·6	13·7	73	15·5	90	8·1	6	15·3	16·7	17·1	16·1	20·5	14·9	5·6	7·1	74	4·7	41
15	976·8	17·5	1·3	15·1	86	17·0	95	7·2	9	14·7	16·6	18·5	16·3	19·6	14·6	5·0	11·5	162	6·2	54
16	973·9	18·5	2·5	13·9	74	15·7	90	8·9	4	14·0	17·0	18·2	16·0	20·0	13·9	6·1	5·4	45	7·1	62
17	973·9	19·3	2·6	14·6	74	16·5	85	6·7	8	15·4	16·7	18·5	16·0	20·5	15·4	5·1	8·6	71	6·1	54
18	975·2	17·5	0·8	16·0	91	18·0	95	7·2	6	16·1	17·0	20·2	17·1	20·5	16·1	4·4	11·3	125	6·7	59
19	976·0	17·5	1·4	14·9	85	16·8	110	7·6	10	16·2	16·9	17·4	16·1	18·6	15·5	3·1	12·2	166	3·5	31
20	974·2	17·4	1·4	14·8	85	16·7	90	8·1	9	14·2	15·5	17·4	16·1	19·4	14·1	5·3	16·5	376	5·0	44
21	975·1	17·5	0·7	16·2	92	18·2	90	8·1	10	15·5	15·7	18·1	16·4	18·2	15·6	2·6	15·0	172	3·9	34
22	973·4	19·9	4·2	12·3	62	14·2	75	8·1	1	15·6	18·2	21·1	17·0	21·5	15·0	6·5	5·4	20	10·5	91
23	973·5	19·7	3·3	13·7	68	15·5	90	7·2	7	16·7	18·0	20·1	17·5	22·6	15·8	6·8	9·8	69	9·1	79
24	973·8	18·1	1·1	16·1	88	18·1	90	5·4	10	17·0	18·0	19·5	16·0	21·0	15·5	5·5	16·6	140	4·4	38
25	973·4	18·4	1·9	14·9	80	16·8	90	4·5	7	16·0	18·3	21·0	17·0	21·7	14·5	7·2	9·9	88	9·2	80
26	971·7	17·3	0·7	16·0	92	18·0	95	7·2	10	15·9	16·0	20·4	16·8	20·8	15·9	4·9	6·8	97	8·2	71
27	971·4	19·4	2·1	15·6	79	17·6	90	6·7	4	16·2	16·4	19·4	16·4	20·9	15·8	5·1	9·2	181	7·1	61
28	970·9	18·3	1·1	16·3	88	18·4	90	7·2	6	15·0	15·2	18·6	16·5	19·2	15·0	4·2	4·7	106	8·4	72
29	971·2	20·0	2·8	15·0	73	16·9	90	2·7	4	15·3	18·9	21·2	16·0	22·5	14·7	7·8	0·0	0	7·3	63
30	972·7	18·4	2·0	14·7	79	16·6	110	4·9	10	14·6	18·0	18·0	15·7	21·0	14·6	6·4	6·4	162	6·4	55
31	973·6	17·3	0·9	15·6	90	17·6	110	6·3	10	15·7	16·4	17·5	16·7	18·4	15·7	2·7	21·5	259	4·1	35
Mean	972·6	18·8	2·4	14·4	75·9	16·2	...	5·6	6·0	15·3	17·7	19·8	16·4	20·9	14·7	6·2	190·0	2486	7·43	65·3
Average	972·7	18·6	2·1	15·0	79·3	17·0	...	5·4	6·2	...	...	...	...	20·5	14·5	6·0	127·3	...	6·89	60·5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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

Atmospheric Pressure	+	43·1mbs.	Amount of rain	—	114·7mms.
Temperature of the Air	+	3·4°C	Duration of sunshine	+	31·5hrs.
Vapour Pressure	+	0·6mbs.	Mean of maximum temperatures	+	3·0°C
Relative Humidity	—	12·1%	,, minimum temperatures	+	1·7°C
Velocity of Wind	—	0·3mps	Absolute maximum temperature	—	0·2°C
Amount of Cloud	—	0·3	,, minimum temperature	+	2·0°C
Greatest Rainfall intensity at Vacoas. ...					

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of AUGUST 1937.

Month and Day 1937.	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 (Saturation=100). Mean	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration	Amount of Evaporation.	Mean Amount of Cloud (Scale 0–10)
AUG.	mbs.	mbs.	°C	°C	°C	°C	°C	C	°C	°C			mbs.	°C	mms.	min	mms.	
1	1015·0	+ 1·0	23·0	16·1	6·9	20·2	+ 0·5	2·6	15·6	+ 0·4	75	0	17·6	14·1	0·0	...	3·8	3·8
2	1014·9	+ 0·9	24·0	16·0	8·0	19·6	− 0·1	2·9	14·4	− 0·6	72	− 3	16·3	14·0	0·0	...	3·8	4·5
3	1013·4	− 0·6	24·3	17·0	7·3	20·0	+ 0·2	2·5	15·5	+ 0·4	75	0	17·4	15·5	1·2	15	4·4	4·9
4	1011·9	− 2·1	25·0	16·1	8·9	20·0	+ 0·2	2·9	14·8	− 0·3	72	− 3	16·7	13·0	0·0	...	3·7	3·5
5	1011·5	− 2·5	24·1	14·1	10·0	19·0	− 0·8	2·2	15·0	− 0·1	78	+ 3	16·9	11·2	0·0	...	4·6	3·5
6	1010·5	− 3·5	25·1	14·3	10·8	19·4	− 0·4	2·2	15·4	+ 0·3	78	+ 3	17·3	12·0	0·0	...	3·7	1·7
7	1009·4	− 4·6	25·1	15·1	10·0	20·0	+ 0·2	1·9	16·6	+ 1·5	81	+ 6	18·7	13·2	1·1	25	3·1	5·2
8	1010·7	− 3·3	24·3	18·0	6·3	20·3	+ 0·5	2·6	15·7	+ 0·6	75	0	17·7	16·6	0·0	...	2·9	5·1
9	1012·4	− 1·6	24·2	14·2	10·0	19·0	− 0·8	3·2	13·2	+ 1·9	69	− 5	15·0	13·6	0·0	...	4·0	1·8
10	1013·1	− 0·9	24·0	14·2	9·8	18·8	− 1·0	3·4	12·6	− 2·5	67	− 7	14·5	11·2	0·0	...	4·6	3·6
11	1013·9	− 0·1	23·6	12·0	11·6	18·4	− 1·4	3·5	12·0	− 3·1	66	− 8	13·9	10·0	0·0	...	4·9	3·4
12	1015·3	+ 1·3	23·5	15·3	8·2	19·4	− 0·5	3·0	14·0	− 1·2	71	− 3	15·8	11·2	0·7	20	4·3	6·3
13	1017·2	+ 3·2	24·6	15·9	8·7	19·8	− 0·1	2·5	15·3	+ 0·1	75	+ 1	17·2	13·7	1·1	20	4·4	5·3
14	1019·0	+ 5·0	23·6	17·1	6·5	19·4	− 0·5	2·2	15·4	+ 0·2	78	+ 4	17·3	15·6	4·8	105	3·7	6·3
15	1018·6	+ 4·6	23·1	16·9	6·2	19·6	− 0·3	2·8	14·5	− 0·7	73	− 1	16·4	15·9	3·3	80	2·4	7·8
16	1016·4	+ 2·4	23·5	16·7	6·8	19·2	− 0·7	2·2	15·2	0·0	78	+ 4	17·1	15·0	4·8	125	4·3	6·9
17	1015·5	+ 1·4	24·1	17·9	6·2	20·0	+ 0·1	2·2	16·1	+ 0·9	78	+ 4	18·1	15·9	2·8	55	4·4	5·6
18	1015·8	+ 2·7	23·2	18·1	5·1	19·9	− 0·1	2·1	16·1	+ 0·9	79	+ 5	18·1	16·8	9·2	95	2·0	6·1
19	1017·9	+ 3·8	23·0	18·0	5·0	19·8	− 0·2	2·4	15·5	+ 0·3	76	+ 2	17·4	16·8	5·5	105	3·8	6·6
20	1017·4	+ 3·3	23·1	17·1	6·0	19·6	− 0·4	2·3	15·4	+ 0·2	77	+ 3	17·3	15·0	5·0	75	3·8	6·5
21	1016·5	+ 2·3	23·1	17·7	5·4	19·8	− 0·2	2·2	15·8	+ 0·6	78	+ 4	17·8	16·9	7·5	145	2·4	7·4
22	1015·2	+ 1·0	24·6	16·1	8·5	20·4	+ 0·3	3·3	14·5	− 0·8	69	− 5	16·4	15·0	0·0	...	5·2	2·1
23	1015·1	+ 0·9	25·0	17·8	7·2	20·8	+ 0·7	3·0	15·4	+ 0·1	71	− 3	17·3	16·8	1·2	15	4·7	4·4
24	1015·7	+ 1·4	23·4	18·9	4·5	20·8	+ 0·7	2·8	15·8	+ 0·5	73	− 1	17·8	17·8	6·6	60	4·7	8·5
25	1015·1	+ 0·8	24·8	18·0	6·8	20·9	+ 0·8	2·8	15·9	+ 0·6	73	− 1	17·9	16·9	2·5	45	4·9	6·7
26	1013·7	− 0·6	24·1	18·0	6·1	20·3	+ 0·1	2·3	16·2	+ 1·0	77	+ 4	18·2	16·8	1·1	95	3·9	4·8
27	1013·1	− 1·2	24·2	17·7	6·5	20·1	− 0·1	2·3	16·0	+ 0·8	77	+ 4	18·0	16·0	8·7	215	5·0	5·1
28	1013·3	− 1·0	23·0	17·1	5·9	19·5	− 0·7	2·0	15·9	+ 0·7	80	+ 7	17·9	15·6	2·6	180	4·1	5·7
29	1013·1	− 1·2	24·3	16·3	8·0	19·5	− 0·7	2·2	15·5	+ 0·3	78	+ 5	17·4	14·8	1·0	15	5·0	3·6
30	1014·8	+ 0·5	24·1	14·0	10·1	19·2	− 1·1	2·4	14·9	− 0·4	76	+ 3	16·8	11·0	2·0	35	3·2	5·0
31	1015·2	+ 0·9	23·1	18·3	4·8	20·1	− 0·2	2·3	16·0	+ 0·7	77	+ 4	18·0	17·0	2·1	100	4·0	5·9
Mean	1014·6	+ 0·5	23·9	16·4	7·5	19·8	− 0·2	2·6	15·2	0·0	74·9	+ 0·8	17·1	14·7	Sum 75·3	Sum 1625	4·0	5·1
Aver.	1014·1	...	23·9	16·5	7·4	20·0	...	2·7	15·2	...	74·1	...	17·1	13·2	62·5	1342	4·0	5·2
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

GENERAL WEATHER CONDITIONS DURING THE MONTH OF AUGUST 1937.

From the 4th to the 10th pressure remained low with calm weather, humidity about normal and practically no rainfall.

From the 12th anticyclonic weather of unusual intensity set in with low temperature, increased wind force and frequent precipitation. These conditions lasted until the 25th, and the amount of rain which fell during this period was nearly 75% of the total for the month.

In the mean for the month all elements except Rainfall and Sunshine were normal or nearly so.

It is remarkable however that with over 2% excess of normal rainfall and 21 days of precipitation, the recorded sunshine should have been 7½% of the possible amount above the average.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of AUGUST 1937

Month and Day 1937.	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.)
AUGUST	hrs.	%	mp.s.	mp.s.	°C.	°C.	°C.	°C.	
1	6·5	58	4·6	+ 0·9	25·1	24·2	22·5	22·2	bc : b : eq : b : bc
2	9·4	84	3·6	− 0·1	25·1	24·2	22·5	22·0	o : bc : bcq$_0$: bc : b
3	10·0	89	2·9	− 0·8	25·1	24·2	22·5	21·9	cr$_0$: bc : b : bc
4	10·5	94	2·6	− 1·1	25·1	24·2	22·4	21·8	bc : c : b : bc : b
5	10·2	91	2·4	− 1·3	25·3	24·2	22·5	21·9	b : bc
6	8·9	79	1·8	− 1·9	25·1	24·2	22·4	21·9	b : bc : b
7	6·8	60	2·0	− 1·7	25·1	24·1	22·5	22·0	b$_0$: b : bc : bcg : c : or$_0$
8	6·0	53	3·3	− 0·5	25·1	24·2	22·5	22·2	c : bc : c : bc : b
9	10·8	96	2·7	− 1·1	25·1	24·1	22·5	22·2	b
10	10·3	91	2·7	− 1·1	25·2	24·1	22·5	22·0	bc : b : bc
11	10·8	96	3·0	− 0·8	25·1	24·1	22·5	21·9	b : bc : c : bc
12	5·8	51	4·0	+ 0·2	25·1	24·1	22·5	21·8	b bcd$_0$: cd$_0$: c : o : cr$_0$
13	8·9	79	4·6	+ 0·8	25·1	24·1	22·4	21·8	bb : bd$_0$: b : bcq : : or
14	6·4	56	5·3	+ 1·5	25·0	24·1	22·4	21·8	eq : bcr$_0$: bc : cq$_0$: cqr$_0$r$_0$: bcq : br$_0$
15	7·8	68	6·1	+ 2·3	25·0	24·1	22·7	21·6	orr : cr$_0$: bcq : bc Q : cq : cqr$_0$r$_0$
16	8·1	71	5·0	+ 1·1	25·0	24·1	22·2	21·6	oqr$_0$r$_0$: cr$_0$: bcqr$_0$: bcqd$_0$: bcq : cd$_0$d$_0$: bcd$_0$: b
17	7·4	65	4·4	+ 0·5	25·0	24·0	22·2	21·5	bd$_0$: b : bc : op : c r$_0$: bcr$_0$
18	7·2	63	4·5	+ 0·6	24·9	24·0	22·2	21·6	cr$_0$: bcr$_0$ r cr$_0$r$_0$: bq : bcd$_0$: bc
19	8·7	76	5·3	+ 1·4	25·0	24·1	22·2	21·7	bc : b : c : cqr$_0$: cr : crr : bc
20	8·8	77	5·1	+ 1·2	25·0	24·0	22·2	21·6	bc : c : bcq : bcqd$_0$d$_0$: orr
21	7·7	67	4·9	+ 0·9	24·9	24·0	22·2	21·7	orr : cd : bc : bcd$_0$
22	10·5	91	4·9	+ 0·9	25·0	24·0	22·2	21·6	b : bc : b
23	10·0	87	4·6	+ 0·6	24·8	23·9	22·2	21·8	br : b : bc : c : bc : cr$_0$: c
24	4·2	37	5·0	+ 0·9	25·0	23·9	22·2	21·8	or : o : bc : cqrr : bcq : or$_0$: c
25	9·0	78	4·7	+ 0·6	24·9	23·9	22·2	22·0	or$_0$: bc : cr$_0$
26	9·4	81	4·7	+ 0·6	24·8	23·9	22·2	22·0	cr$_0$: bcr$_0$. bcq$_0$: b : b$_0$
27	9·8	84	4·7	+ 0·6	24·8	23·9	22·3	22·0	b : bcq : bcr$_0$: or$_0$r$_0$
28	8·6	74	4·5	+ 0·4	24·8	23·9	22·3	22·0	or$_0$r$_0$. bc : c : bcq : bc : b
29	6·3	54	2·3	− 1.8	24·9	23·9	22·4	22·1	b : bc : cr$_0$: c : bc : b$_0$
30	9·1	78	3·4	− 0·7	24·8	23·9	22·4	21·9	b$_0$: b : bc : bcq$_0$: or$_0$
31	8·0	69	5·5	+ 1·4	24·8	23·8	22·4	22·0	or$_0$: bc : cr$_0$: c : bcq : bd$_0$
Mean	8·45	74·1	4·04	+0.15	25·00	24·05	22·36	21·87	.....
Average	7·57	66·6	3·89	...	24·87	23·81	22·67	21.91	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF AUGUST 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1020·4mbs.	at 09·00hrs.	on 14th	1008·0mbs.	at 15·00hrs.	on 7th
Temperature of the Air	25·1°C	at 12·30hrs. / 13·10hrs.	on 6th / on 7th	12·0°C	at 06·55hrs	on 11th
Daily range of temperature of the Air ...	11·6°C	...	on 11th	4·5°C	...	on 24th
Temperature of the Dew Point	18·9°C	at 15·00hrs.	on 7th	9·7°C	at 14·00hrs.	on 11th
Daily range of temperature of the Dew Point	5·7°C	...	on 5th	1·5°C	...	on 28th
Minimum on Grass	...	...	...	10·0°C	...	on 11th
Relative humidity	95·4%	at 04·00hrs.	on 7th	41·3°C	at 14·00hrs.	on 11th
Vapour Pressure	21·6mbs.	at 15·00hrs.	on 7th	11·9mbs.	at 14·00hrs.	on 11th
Evaporation in 24 hours	5·2mms.	...	on 22nd	2·0mms.	...	on 18th
Wind Velocity	8·8m.p.s	at 14·00hrs.	on 15th	0.6m.p.s.	at 05 & 06hrs.	on 30th
Rainfall in 24 hours	12·4mms.	ending 11hrs.	on 21st	...	...	...
Duration of sunshine	10·8hrs.	...	on 9th & 11th	4·2hr.	...	on 24th

Mean Day Temperature of Air, 21·52°C Average Mean Night Temperature of Air 18·00°C. Average

NUMBER OF DAYS OF—

Mean Cloud Amount: 0	1 — 3	4 — 6	7 — 9	10	Rainfall: 0.1 — 0.9 mms.	1.0 — 4.9 mms.	5.0 — 9.9 mms.	10.0 — 24.9 mms.	25.0 and over mms.	Lightning	Thunderstorm
...	6	19	6	...	1	14	6	..	...	...	...

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

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level.)
(The cistern of the barometer is 55·2 metres above mean sea-level.)

AUGUST 1937.

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour. / Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
Midnight	160	159	149	132	124	120	106	103	130	137	142	150	170	191	201	181	Midnight
1	155	157	148	130	121	117	102	101	129	131	141	149	166	190	199	177	1h
2	150	155	143	122	118	110	100	100	126	130	139	143	161	188	191	171	2
3	147	151	139	120	117	109	094	099	120	130	132	140	160	189	190	170	3
4	147	150	131	118	116	106	090	096	120	127	131	139	160	186	190	162	4
5	147	149	131	120	116	104	088	098	120	129	130	141	160	189	189	162	5
6	148	150	137	121	117	106	090	100	122	131	136	146	162	190	191	169	6
7	151	151	141	123	120	110	091	103	129	139	143	150	166	196	193	171	7
8	159	157	144	129	125	111	099	109	130	140	146	157	171	202	200	176	8
9	161	161	147	131	130	117	103	114	133	143	150	160	177	204	202	178	9
10	161	161	146	129	128	116	106	113	133	142	151	161	179	201	202	174	10
11	156	157	140	122	121	111	101	110	130	138	150	160	174	197	194	169	11
Noon	151	150	131	119	115	102	094	104	121	127	142	153	170	190	188	161	Noon
13h	144	141	122	110	109	097	089	098	115	120	131	148	161	184	180	155	13h
14	140	138	120	103	101	090	081	097	110	116	126	143	163	180	173	150	14
15	136	132	117	100	099	090	080	097	108	113	123	141	161	178	170	149	15
16	137	132	118	101	098	090	081	100	110	114	126	142	161	179	170	149	16
17	140	135	119	105	101	091	086	103	111	119	130	146	169	180	170	151	17
18	142	140	121	109	104	096	090	110	117	121	133	151	173	186	171	151	18
19	150	146	128	112	111	100	091	112	121	128	140	160	180	191	176	159	19
20	152	150	133	120	119	108	098	119	129	139	147	169	190	193	181	162	20
21	157	151	137	124	121	110	101	121	132	141	150	171	193	192	186	167	21
22	160	151	137	127	122	111	101	126	135	145	151	170	193	192	189	164	22
23	160	150	135	127	120	110	103	128	136	145	150	170	196	199	182	162	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour. / Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
Midnight	160	160	186	187	178	164	157	160	170	150	145	140	137	142	160	1015·3	Midnight
1h	159	160	180	181	174	162	159	158	166	147	141	138	131	141	152	1015·0	1h
2	155	158	177	179	171	160	151	155	161	146	140	138	129	140	151	1014·7	2
3	153	154	172	171	166	154	149	151	159	140	134	132	124	139	148	1014·4	3
4	151	151	170	170	161	151	144	150	151	137	131	131	121	138	146	1014·1	4
5	150	151	170	170	160	151	146	150	151	131	130	131	121	139	147	1014·1	5
6	155	155	173	176	164	158	150	155	151	137	130	135	125	142	150	1014·4	6
7	160	160	180	180	171	160	152	160	151	140	137	140	130	149	156	1014·9	7
8	166	170	182	189	174	161	158	162	160	142	140	140	139	151	160	1015·3	8
9	170	174	190	191	180	163	161	166	162	146	142	141	140	157	162	1015·7	9
10	169	177	191	190	180	162	161	169	161	146	140	141	140	159	163	1015·7	10
11	162	177	186	183	172	160	156	162	159	139	131	139	137	154	160	1015·2	11
Noon	156	170	180	175	165	151	150	160	150	131	125	129	129	147	154	1014·5	Noon
13h	146	163	171	169	159	148	146	150	146	126	120	124	124	141	149	1013·8	13h
14	141	160	168	161	151	141	141	142	139	123	112	120	122	140	140	1013·3	14
15	140	157	167	159	150	139	140	142	131	120	111	119	120	139	133	1013·1	15
16	140	159	167	159	151	139	136	144	131	120	110	120	120	140	134	1013·2	16
17	142	161	171	160	150	140	140	149	137	122	113	121	121	141	140	1013·4	17
18	148	169	176	160	153	140	143	150	140	130	121	123	127	150	145	1013·8	18
19	150	176	181	169	160	144	150	159	148	132	130	130	130	159	151	1014·4	19
20	158	184	186	172	162	149	157	163	155	140	140	136	140	161	159	1015·1	20
21	160	187	190	175	169	151	160	169	160	143	140	139	141	161	161	1015·4	21
22	160	190	190	178	169	151	160	170	151	146	140	140	142	160	166	1015·4	22
23	160	187	190	179	167	156	161	171	150	147	140	139	142	160	161	1015·4	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour \ Day.	August 1937.																														
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean
Midnight	7	5	5	6	1	1	0	10	1	2	1	4	6	9	10	10	3	8	6	4	10	5	1	10	10	10	1	10	1	0	10	5·4
1h	5	6	8	5	1	1	0	10	1	3	1	3	8	7	10	10	3	9	6	7	10	3	1	10	10	8	1	10	1	0	10	5·4
2	3	10	8	7	1	1	0	9	1	4	1	2	6	8	10	10	2	8	7	5	10	2	1	10	10	9	1	10	1	0	10	5·4
3	1	10	4	7	1	1	0	9	1	6	1	2	5	10	10	9	2	7	8	3	10	1	1	10	10	7	1	10	1	1	9	5·1
4	1	9	4	8	1	1	0	8	1	6	1	2	5	8	10	9	2	5	8	2	10	1	1	9	9	5	1	10	1	1	9	4·8
5	1	6	9	10	1	0	2	5	1	4	2	3	3	2	10	9	1	7	3	6	10	1	1	10	5	10	1	9	1	2	7	4·6
6	1	5	9	10	1	1	2	3	1	3	1	4	2	4	8	9	1	5	1	9	9	1	1	9	3	9	1	6	1	4	3	4·1
7	2	4	6	5	1	0	2	4	1	2	1	5	2	5	8	7	3	7	2	9	9	2	2	6	3	7	2	6	2	4	5	4·0
8	3	4	3	1	1	0	3	5	1	2	2	5	2	5	8	5	5	8	3	9	8	3	2	4	3	6	3	6	2	3	7	3·9
9	3	3	3	1	2	1	2	6	0	2	2	0	3	6	5	4	4	8	4	5	9	0	6	8	4	7	4	8	3	5	6	4·2
10	8	4	4	1	4	1	7	5	2	3	2	7	3	7	5	5	5	7	9	8	8	0	7	9	5	6	4	8	5	5	9	5·3
11	9	6	4	0	5	1	5	5	2	2	3	8	2	8	6	7	4	8	8	5	8	1	2	10	4	7	5	8	6	7	8	5·3
Noon	10	4	3	2	5	4	3	4	3	2	0	8	4	8	6	9	4	7	8	5	7	1	1	8	5	8	6	7	6	6	8	5·2
13h	9	5	3	4	5	4	4	7	3	4	1	8	5	10	6	8	7	10	8	5	7	4	8	7	7	7	7	8	8	6	8	6·2
14	8	4	3	3	6	3	9	8	3	5	2	6	7	8	6	6	10	8	7	6	5	4	8	5	0	4	4	6	8	8	7	5·9
15	3	3	5	4	6	4	8	9	3	4	4	7	7	9	7	5	10	8	0	4	4	4	2	5	7	3	6	5	9	3	3	5·4
16	2	4	4	4	6	4	7	9	4	3	6	8	5	8	4	8	9	2	5	7	5	3	3	8	6	3	6	4	9	4	4	5·3
17	2	5	5	3	6	4	8	5	3	5	8	9	9	9	8	9	9	2	10	8	6	3	4	10	5	1	6	4	9	7	5	6·0
18	1	5	5	2	7	5	9	2	3	5	6	9	8	8	7	9	8	2	10	5	5	3	5	10	0	1	7	1	7	2	4	5·4
19	2	3	4	1	8	1	9	0	2	9	7	10	7	2	7	10	9	1	10	10	4	3	8	10	9	1	10	1	4	8	3	5·6
20	1	1	4	1	6	1	10	0	2	5	8	10	5	2	8	7	10	5	9	5	8	2	9	10	10	0	10	1	1	10	3	5·3
21	1	1	3	1	4	1	10	1	1	3	9	10	4	2	9	2	8	7	7	5	9	2	9	9	10	0	10	1	0	10	2	4·9
22	4	1	5	1	3	1	10	1	1	2	6	8	8	2	9	1	7	5	8	10	6	2	9	8	6	0	10	1	0	10	3	4·8
23	6	1	5	1	2	1	10	1	0	2	3	5	10	3	9	1	6	4	6	10	4	2	9	8	7	0	10	1	0	9	3	4·5

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER

Hour Ending. \ Day.	August 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Total.
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.	hrs
6h	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0
7	0	1	0	25	17	25	20	12	27	22	22	0	6	29	0	0	3	0	18	0	0	6	3	0	23	3	12	0	27	35	0	5·6
8	37	27	54	60	60	60	60	47	60	60	60	54	52	35	0	32	53	0	60	45	10	59	60	10	40	59	60	36	55	60	56	23·7
9	55	60	60	60	60	60	60	55	60	60	60	43	60	55	39	60	60	40	55	60	18	60	52	33	60	48	60	55	60	60	50	28·0
10	53	60	60	60	60	60	40	56	60	60	60	36	60	54	54	60	60	57	58	60	13	60	60	0	60	33	60	60	60	56	38	27·1
11	30	60	60	60	60	60	57	60	60	60	60	50	60	56	60	60	60	16	57	60	53	60	60	5	60	38	60	53	60	53	37	27·4
Noon	12	60	60	60	60	60	60	52	60	60	60	12	60	42	59	48	60	45	48	60	56	60	60	25	60	54	60	47	59	42	18	26·3
13h	6	60	60	60	60	37	55	37	60	60	60	44	60	18	58	60	60	33	53	60	59	60	60	16	27	60	60	24	30	60	39	25·0
14	17	60	60	57	60	53	43	0	60	60	60	30	50	18	60	50	12	55	54	45	60	60	55	35	60	60	53	60	0	28	48	23·7
15	60	60	59	60	60	16	4	0	60	60	60	51	47	17	38	50	18	48	56	47	59	60	60	60	56	60	58	60	0	53	60	24·3
16	60	60	60	60	59	16	6	0	60	56	60	4	44	42	60	50	47	60	35	60	42	60	60	33	55	60	50	57	0	43	60	23·6
17	53	48	60	58	45	60	0	32	60	37	58	20	38	13	38	18	13	57	28	22	60	60	60	34	40	60	50	38	6	31	58	20·9
18	10	9	4	13	10	27	0	11	22	23	25	5	0	0	0	0	0	20	0	8	31	23	13	0	0	30	4	26	23	23	16	6·3
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0·0

The total Amount of Registered Sunshine was 261·9 hrs. and the total possible sunshine was 353·2 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*)

AUGUST 1937.

Day. / Hour.	1d. Air.	1d. Excess of Air over Evap.	2d. Air.	2d. Excess of Air over Evap.	3d. Air.	3d. Excess of Air over Evap.	4d. Air.	4d. Excess of Air over Evap.	5d. Air.	5d. Excess of Air over Evap.	6d. Air.	6d. Excess of Air over Evap.	7d. Air.	7d. Excess of Air over Evap.	8d. Air.	8d. Excess of Air over Evap.	Day. / Hour.
Midnight	20·0	2·0	16·1	1·6	17·9	1·4	18·2	1·1	16·1	1·0	16·7	0·9	16·0	1·0	19·3	0·5	Midnight
1h	19·9	1·9	17·2	1·2	17·2	1·1	16·8	1·3	15·0	1·0	16·5	0·9	15·9	0·9	19·2	0·4	1h
2	19·8	2·0	17·8	1·3	18·3	0·6	16·9	1·0	15·0	0·9	16·3	1·0	15·8	0·8	19·1	0·7	2
3	19·3	1·8	18·1	1·2	18·1	0·9	16·2	0·7	14·1	1·0	16·0	1·0	15·3	0·5	18·8	0·7	3
4	19·4	1·7	18·0	1·6	17·9	1·0	16·9	1·1	15·3	0·6	15·6	0·7	15·3	0·4	18·8	0·7	4
5	19·4	2·0	17·6	1·9	18·1	1·0	17·3	1·0	15·1	0·7	15·1	0·9	15·7	0·7	18·7	0·8	5
6	19·6	2·1	16·5	1·8	18·1	0·9	17·9	1·0	14·9	0·8	14·8	0·9	15·3	0·5	18·1	1·0	6
7	19·2	1·3	16·0	1·9	17·6	0·9	16·8	0·9	15·0	0·5	14·8	0·8	16·0	0·7	18·0	1·3	7
8	20·1	2·1	19·5	4·0	19·6	1·5	19·5	1·6	18·6	0·7	19·0	1·1	19·0	1·0	20·0	2·3	8
9	21·8	3·1	21·9	4·7	21·9	3·0	21·8	3·8	21·7	3·0	21·9	3·1	22·0	2·6	21·9	3·2	9
10	21·8	3·0	22·7	5·7	22·6	4·4	23·0	5·0	22·9	3·9	22·8	4·5	23·1	3·0	22·9	3·8	10
11	22·0	2·9	21·9	4·1	23·0	4·0	24·1	6·1	23·2	4·7	23·9	5·1	24·1	4·1	23·5	3·9	11
Noon	22·7	3·8	23·7	5·7	23·9	5·8	24·4	6·3	23·8	5·1	24·4	5·4	24·5	4·0	23·3	3·5	Noon
13h	21·1	2·4	23·0	5·0	24·0	5·1	24·5	6·6	23·9	5·2	24·0	4·1	24·1	4·2	23·8	4·1	13h
14	22·7	4·5	23·3	4·9	24·0	5·2	24·0	6·0	23·9	5·2	24·6	4·4	24·3	3·5	22·5	3·5	14
15	22·5	4·5	23·1	5·1	23·4	5·2	24·1	5·7	23·0	4·2	23·4	3·9	23·9	2·9	22·0	3·9	15
16	22·1	4·3	22·5	4·8	23·1	4·6	23·6	4·9	22·3	3·4	23·5	3·4	23·1	3·1	22·0	4·1	16
17	21·2	3·8	21·6	3·8	22·0	3·8	22·0	3·9	21·9	3·1	23·3	3·7	22·8	2·9	21·3	4·2	17
18	19·9	2·9	20·2	3·1	20·3	2·3	20·3	2·3	20·8	2·7	21·9	2·8	21·9	2·6	19·9	3·1	18
19	19·3	2·2	18·8	2·0	19·0	1·9	19·0	1·8	19·7	1·0	19·8	2·1	20·7	1·8	19·2	3·0	19
20	19·2	2·4	18·2	1·7	18·0	1·7	18·7	1·7	19·0	1·0	18·3	1·3	19·6	1·5	19·1	3·0	20
21	18·5	2·3	18·1	1·8	17·6	1·4	18·8	1·8	18·0	1·2	17·2	0·9	20·0	1·1	19·1	3·0	21
22	17·8	2·1	17·7	1·6	17·0	1·1	18·0	1·4	17·0	1·1	16·9	1·0	19·7	0·7	18·1	2·2	22
23	16·8	1·8	18·1	1·5	17·9	1·1	17·1	1·1	15·9	1·0	16·3	1·1	19·3	0·4	18·1	2·4	23

Day. / Hour.	9d. Air.	9d. Excess of Air over Evap.	10d. Air.	10d. Excess of Air over Evap.	11d. Air.	11d. Excess of Air over Evap.	12d. Air.	12d. Excess of Air over Evap.	13d. Air.	13d. Excess of Air over Evap.	14d. Air.	14d. Excess of Air over Evap.	15d. Air.	15d. Excess of Air over Evap.	16d. Air.	16d. Excess of Air over Evap.	Day. / Hour.
Midnight	17·9	2·6	15·2	1·0	16·9	1·7	17·9	2·9	17·2	1·0	19·0	1·9	17·6	0·7	17·2	1·2	Midnight
1h	17·1	2·1	15·3	0·9	15·9	1·6	17·2	1·5	17·9	1·7	18·6	1·9	17·6	0·9	17·1	0·9	1h
2	16·6	1·9	15·0	0·9	15·0	1·3	17·0	1·7	17·0	1·8	18·4	2·6	17·6	1·4	17·3	1·0	2
3	16·1	1·9	16·4	1·3	13·8	1·2	16·3	1·3	16·3	1·3	18·2	2·3	18·0	1·2	16·9	1·0	3
4	16·8	2·3	16·9	1·8	14·0	1·0	16·3	1·3	16·1	1·8	17·3	1·0	17·1	1·0	16·9	0·8	4
5	16·1	1·9	16·0	1·9	14·6	3·1	17·0	2·4	16·1	1·8	17·7	1·6	17·3	1·2	17·0	0·8	5
6	15·7	1·8	15·1	1·4	12·3	0·7	17·1	1·1	16·6	1·6	17·9	2·3	17·1	0·9	17·1	1·0	6
7	16·0	2·1	14·2	1·3	12·1	0·8	17·9	1·3	17·5	1·6	18·7	2·1	18·0	1·7	17·0	1·3	7
8	19·0	2·9	18·2	2·4	15·8	1·6	19·7	2·5	19·1	1·7	18·7	1·5	18·9	1·9	18·1	1·5	8
9	21·1	3·8	20·9	4·3	20·9	4·7	21·9	4·3	21·7	4·0	20·3	2·9	20·3	2·7	20·1	3·0	9
10	22·2	5·2	22·0	5·8	22·0	6·6	21·6	4·4	23·0	5·2	21·7	3·7	21·2	3·8	22·1	4·1	10
11	23·1	6·1	23·0	6·8	22·9	7·4	22·2	4·6	23·9	5·9	23·0	4·3	21·7	3·9	22·0	4·1	11
Noon	24·0	6·6	23·3	6·8	23·1	7·2	21·9	4·6	24·1	5·3	22·8	3·8	23·6	5·6	22·1	3·4	Noon
13h	24·1	6·4	23·3	6·6	23·1	7·6	22·0	4·2	23·7	4·3	20·0	1·1	23·0	4·9	22·9	5·1	13h
14	23·9	6·2	23·2	6·7	23·6	8·0	22·8	4·8	21·8	2·1	20·0	1·1	23·4	6·2	23·5	5·3	14
15	23·3	5·4	22·6	6·5	22·3	5·4	22·4	4·6	22·8	3·5	19·6	1·5	22·9	5·8	22·5	4·5	15
16	22·4	4·6	21·9	6·4	21·9	5·5	21·1	4·0	21·4	2·4	21·0	2·9	21·9	4·9	21·0	3·2	16
17	21·2	4·1	20·2	4·8	21·1	4·3	21·0	4·2	20·7	2·1	19·9	2·6	20·0	2·9	19·0	1·7	17
18	20·1	2·7	19·1	3·0	20·0	3·2	20·3	3·5	20·0	2·4	19·7	2·7	20·0	3·1	18·8	1·0	18
19	18·2	1·9	18·5	2·5	18·8	2·6	20·1	4·0	20·0	2·1	19·0	2·3	19·7	3·3	18·7	1·7	19
20	17·1	1·4	17·9	2·1	18·0	2·8	19·0	3·5	19·6	1·6	18·9	2·2	19·3	2·5	18·9	1·9	20
21	16·0	1·5	17·0	1·8	18·1	2·2	18·3	2·5	18·9	1·8	19·1	2·2	18·1	1·4	18·0	1·1	21
22	15·7	1·4	17·0	1·8	18·0	2·2	18·2	3·2	18·9	1·0	18·8	1·8	17·6	1·6	18·1	1·5	22
23	14·6	1·4	16·9	1·8	17·2	2·1	17·2	2·3	18·9	1·4	18·1	1·0	17·6	1·3	18·8	2·0	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add 273*)

AUGUST 1937.

Day. / Hour.	17d. Air.	17d. Excess of Air over Evap.	18d. Air.	18d. Excess of Air over Evap.	19d. Air.	19d. Excess of Air over Evap.	20d. Air.	20d. Excess of Air over Evap.	21d. Air.	21d. Excess of Air over Evap.	22d. Air.	22d. Excess of Air over Evap.	23d. Air.	23d. Excess of Air over Evap.	24d. Air.	24d. Excess of Air over Evap.	Day. / Hour.
Midnight	18·4	1·3	19·2	1·2	18·3	1·7	18·0	2·2	18·6	0·9	19·0	1·8	19·3	1·4	19·6	0·9	Midnig
1h	18·9	2·0	19·1	1·2	18·9	2·0	17·3	2·2	18·2	0·6	18·8	2·1	19·0	0·9	19·0	1·2	1h
2	18·9	2·6	18·3	1·2	19·1	2·1	17·5	2·4	17·9	0·9	17·9	2·0	18·9	1·1	19·1	0·8	2
3	18·1	1·4	18·2	1·2	19·2	2·2	17·8	2·0	18·2	1·0	17·5	1·9	18·2	0·9	20·0	1·8	3
4	18·4	1·4	18·8	1·2	18·9	2·9	18·3	2·1	18·3	1·2	17·0	2·0	18·4	1·0	20·1	2·1	4
5	18·3	1·4	18·9	1·1	18·6	2·0	18·0	1·5	18·4	1·4	16·1	2·0	18·9	1·6	19·9	1·8	5
6	17·9	1·5	19·0	1·0	19·0	2·0	18·1	1·6	18·3	1·3	16·9	2·8	18·2	1·4	19·9	2·4	6
7	18·7	1·6	19·1	1·1	19·2	2·1	18·7	2·6	18·6	1·5	17·6	2·5	17·8	1·7	19·9	2·4	7
8	20·1	2·3	19·3	1·0	20·2	2·3	19·3	2·3	19·2	1·4	20·4	3·6	20·7	2·9	20·2	2·7	8
9	21·3	3·0	20·2	1·0	20·9	2·3	20·4	2·0	19·9	1·6	22·6	5·6	21·8	4·1	21·9	3·1	9
10	22·9	4·1	21·2	2·2	22·0	3·7	21·8	3·7	20·2	1·5	23·2	6·1	22·1	4·3	21·9	3·9	10
11	23·3	5·3	19·9	1·0	22·3	4·1	22·9	4·9	21·7	2·8	23·6	6·4	23·7	6·6	22·2	3·2	11
Noon	23·7	5·0	22·1	2·5	22·2	4·1	22·6	3·9	22·2	3·3	24·1	6·2	24·2	6·4	22·6	3·6	Noon
13h	23·7	5·0	20·2	1·8	21·9	2·9	22·8	4·2	21·5	2·9	24·0	5·0	24·2	5·5	22·9	4·1	13h
14	22·8	3·8	23·0	3·9	22·8	4·4	22·7	4·1	22·7	4·4	23·7	4·9	23·9	5·3	23·2	4·3	14
15	19·6	1·0	22·0	3·8	21·9	3·7	20·8	2·5	22·5	4·2	23·1	4·4	23·7	5·6	23·0	4·7	15
16	22·7	3·9	22·8	5·4	20·9	2·8	20·9	2·8	21·9	3·9	22·5	4·3	23·5	6·0	21·2	3·0	16
17	19·8	1·2	21·7	4·4	19·1	1·3	20·1	1·9	21·1	3·6	21·9	3·9	22·2	4·1	20·9	3·7	17
18	19·0	1·0	20·1	3·0	18·3	1·2	19·3	1·4	20·0	3·0	20·1	2·1	21·9	3·2	20·1	3·0	18
19	18·7	1·1	19·1	2·7	18·1	1·0	18·9	1·2	19·1	2·2	19·9	1·9	20·0	2·0	19·4	1·4	19
20	18·9	0·9	19·5	2·4	18·4	1·2	18·8	1·2	19·1	2·1	19·9	1·9	20·0	2·1	20·0	2·3	20
21	18·4	0·8	19·1	2·0	18·7	1·7	18·9	1·1	19·4	2·4	19·7	1·8	19·3	1·6	20·3	2·5	21
22	18·6	1·5	18·9	1·9	18·7	2·1	18·6	0·8	19·0	2·2	19·8	1·9	19·9	1·3	20·4	2·9	22
23	18·7	1·1	18·8	1·9	18·3	2·3	18·2	1·0	18·6	1·9	19·4	1·4	19·4	1·2	20·5	3·0	23

Day. / Hour.	25d. Air.	25d. Excess of Air over Evap.	26d. Air.	26d. Excess of Air over Evap.	27d. Air.	27d. Excess of Air over Evap.	28d. Air.	28d. Excess of Air over Evap.	29d. Air.	29d. Excess of Air over Evap.	30d. Air.	30d. Excess of Air over Evap.	31d. Air.	31d. Excess of Air over Evap.	Mean Air.	Mean Excess of Air over Evap.	Day. / Hour.
Midnight	20·8	3·0	19·1	0·6	18·1	1·3	18·0	0·9	18·0	1·7	17·0	1·8	18·7	1·0	18·0	1·4	Midnight
1h	20·0	1·8	19·1	0·9	18·1	1·4	17·9	0·9	17·1	1·1	17·1	2·0	18·3	1·1	17·8	1·4	1h
2	20·1	2·1	19·0	0·9	18·0	1·3	17·8	0·9	17·3	1·2	17·1	2·0	18·3	1·2	17·7	1·4	2
3	20·1	2·1	18·7	0·8	18·1	1·1	17·2	0·5	17·0	1·1	16·8	2·0	18·4	1·3	17·5	1·3	3
4	19·9	2·0	19·0	0·8	18·0	1·2	17·8	0·8	17·0	1·3	15·1	1·1	18·7	1·5	17·5	1·3	4
5	19·1	2·8	19·0	0·7	17·9	1·3	17·8	0·8	16·4	1·3	14·2	1·1	18·8	1·7	17·4	1·5	5
6	18·2	2·2	18·9	0·8	18·7	1·6	17·2	0·8	16·7	1·5	14·2	1·1	18·9	1·8	17·2	1·4	6
7	19·2	2·0	18·6	0·7	18·6	1·6	17·7	0·9	18·0	1·5	14·9	0·9	19·0	1·9	17·4	1·4	7
8	20·1	2·5	19·8	1·5	20·9	2·8	19·0	1·4	20·7	2·7	19·0	1·2	20·5	2·5	19·4	2·0	8
9	22·2	4·2	20·1	1·2	21·9	3·7	20·5	2·5	22·2	3·3	22·1	3·9	22·3	3·2	21·3	3·2	9
10	23·3	4·7	21·0	1·9	22·8	3·8	21·3	2·9	23·1	4·1	22·5	4·5	20·7	2·5	22·2	4·1	10
11	23·5	4·8	22·2	3·2	23·2	4·7	21·0	2·6	23·9	4·9	23·1	4·4	20·3	2·1	22·7	4·5	11
Noon	23·5	4·4	23·0	4·0	23·7	4·7	22·0	3·1	24·0	4·9	23·1	4·3	21·9	3·0	23·2	4·7	Noon
13h	24·1	5·8	24·0	5·0	23·9	4·9	21·8	3·6	23·5	4·4	23·7	4·7	22·6	5·8	23·1	4·5	13h
14	24·0	5·1	23·5	4·8	23·3	4·2	22·5	4·2	22·6	2·4	22·3	4·1	22·0	3·7	23·1	4·5	14
15	23·3	4·1	23·2	4·9	22·7	3·7	22·2	3·7	21·9	2·9	23·0	4·7	22·7	4·4	22·6	4·3	15
16	23·0	3·2	22·6	4·1	22·1	3·5	22·0	3·3	20·9	2·0	21·9	3·9	22·1	4·0	22·1	4·0	16
17	22·0	3·2	21·6	4·1	20·7	2·4	21·0	3·1	20·3	1·6	20·9	3·4	21·0	2·9	21·1	3·3	17
18	21·2	2·4	20·3	3·0	19·3	0·9	20·1	2·8	19·9	1·8	20·0	2·4	20·5	2·6	20·1	2·5	18
19	19·7	1·7	19·6	2·6	19·0	1·1	19·2	2·2	18·2	1·2	18·9	1·6	20·0	2·3	19·2	2·0	19
20	18·9	1·9	19·2	2·2	18·3	1·0	19·1	2·1	17·5	1·4	18·2	1·0	19·9	2·2	18·9	1·9	20
21	18·1	0·7	19·0	2·0	18·4	1·3	18·8	1·9	17·0	1·3	18·6	1·3	19·1	1·1	18·5	1·7	21
22	18·1	0·9	18·9	1·9	18·2	0·7	18·2	1·5	17·4	1·4	18·7	1·1	19·0	1·3	18·3	1·6	22
23	19·0	0·9	18·3	1·4	18·1	0·8	18·1	1·5	17·2	1·3	18·4	1·1	18·9	1·3	18·0	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 AUGUST 1937.

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 *).*

AUGUST 1937

Hour \ Day	1d		2d		3d		4d		5d		6d *		7d *		8d		9d		10d		11d		12d		13d		14d		15d		16d	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	4·2	10	2·4	11	2·5	14	1·4	11	1·2	09	2·1	12	2·0	10	1·1	13	3·5	14	1·5	11	1·9	11	3·2	11	3·0	10	4·6	10	4·8	08	5·1
1h	09	3·9	10	2·0	12	1·9	13	0·8	11	0·9	09	2·1	12	2·6	10	1·1	13	2·3	11	2·0	11	1·5	12	2·9	12	2·7	10	4·1	11	4·8	09	4·5
2	11	4·3	10	1·8	12	2·4	13	1·8	11	1·4	11	1·7	12	2·1	10	1·5	13	2·8	11	1·8	12	1·8	12	2·2	12	2·6	11	4·2	10	4·9	08	4·2
3	10	4·7	04	1·8	09	2·2	13	2·1	11	1·4	11	2·1	12	1·6	10	1·9	13	2·7	15	2·1	12	1·9	12	1·8	12	2·7	10	4·1	11	4·8	09	5·5
4	11	3·8	09	1·4	09	2·0	13	1·7	14	2·1	11	1·9	12	1·9	10	1·2	12	2·9	15	2·1	13	1·6	13	1·7	12	2·4	10	3·0	10	4·4	10	4·4
5	11	4·4	09	2·1	09	2·7	10	2·8	14	1·5	11	1·6	12	1·5	11	1·4	11	2·1	13	2·4	13	1·9	12	2·9	12	2·4	10	4·5	11	5·0	08	3·8
6	11	4·4	10	2·1	08	2·2	11	2·0	14	1·2	11	1·8	12	2·1	13	2·1	11	2·2	11	1·7	12	1·6	11	2·0	11	2·6	10	3·5	12	4·4	09	5·1
7	10	4·4	12	1·9	11	2·0	11	1·8	14	1·1	11	1·5	12	2·7	13	1·7	11	2·0	11	1·1	12	2·0	11	3·4	11	3·8	11	5·0	11	4·1	10	3·5
8	10	5·0	12	2·3	11	2·4	11	1·8	14	1·0	11	1·4	12	1·2	12	3·3	11	1·5	11	0·9	12	1·1	11	4·6	11	4·4	09	4·1	11	5·5	09	4·1
9	10	5·0	10	4·4	09	4·5	11	3·3	09	3·3	10	2·1	12	1·5	11	3·1	13	3·5	11	2·6	11	3·0	10	6·1	11	5·2	08	5·2	10	6·5	10	4·7
10	10	5·6	11	5·5	06	4·0	11	4·0	09	4·2	09	1·9	12	1·0	12	4·1	13	3·2	13	3·8	11	4·6	11	6·1	09	5·9	10	6·2	11	6·7	09	6·8
11	09	5·7	10	5·0	09	5·7	12	3·2	09	4·5	05	1·6	d23	2·5	10	3·8	13	3·8	12	3·3	11	5·8	11	6·2	10	6·2	11	7·0	11	7·8	09	7·0
Noon	09	6·0	10	5·6	09	5·2	09	3·0	08	4·3	32	1·3	22	3·1	12	4·9	13	4·2	14	3·6	09	5·8	11	5·7	11	6·4	11	7·2	11	8·4	08	7·1
13h	09	4·7	11	6·4	09	4·6	10	3·2	10	4·2	r19	2·7	22	3·2	12	4·5	14	4·6	14	4·0	12	5·5	11	6·7	08	6·6	09	7·2	11	7·9	10	7·9
14	09	6·6	11	6·5	10	4·5	11	4·1	09	4·0	24	2·2	26	3·4	13	5·0	12	4·7	12	4·8	10	5·1	12	6·0	09	6·3	09	6·3	11	8·8	10	7·7
15	09	7·0	10	5·9	09	4·1	11	4·1	11	3·9	r11	1·3	25	1·8	12	3·4	12	4·4	11	6·0	11	5·3	10	6·0	10	6·2	10	6·7	09	8·4	10	6·4
16	09	5·9	10	6·8	10	4·9	09	4·4	12	3·7	08	1·8	d04	1·5	12	5·1	12	4·9	12	5·3	11	5·0	10	5·7	10	6·5	10	6·9	09	7·9	09	6·3
17	09	5·3	10	4·9	10	2·8	12	3·9	10	4·0	r22	1·1	04	1·3	12	4·6	12	3·4	11	3·6	12	4·0	09	4·9	10	5·7	09	6·3	09	6·9	11	4·4
18	09	3·5	11	3·2	10	2·0	11	2·6	11	2·2	22	1·0	10	1·6	12	3·4	12	2·2	12	3·7	10	2·3	09	3·7	09	4·7	11	5·7	11	6·3	10	2·9
19	10	4·4	11	2·5	10	1·2	11	2·2	07	1·5	22	1·3	14	1·8	12	4·1	12	1·2	12	2·4	11	1·5	11	3·9	09	4·6	11	5·0	11	6·2	10	3·9
20	09	2·8	11	2·9	10	1·5	11	2·2	06	1·4	15	1·8	14	1·9	12	4·0	12	1·3	13	2·0	11	1·7	10	2·4	10	5·2	11	3·5	10	5·9	10	4·2
21	10	3·3	11	3·7	10	1·6	11	2·8	08	1·7	15	1·7	12	1·7	12	4·5	12	0·7	12	1·4	11	2·3	10	1·9	10	5·2	10	4·0	10	6·0	10	4·2
22	10	2·7	11	2·8	10	1·6	11	2·1	08	1·1	15	2·3	09	1·8	12	3·3	12	1·0	12	1·4	11	1·8	12	4·2	11	4·4	10	5·5	08	6·0	11	4·4
23	10	2·3	11	2·4	10	1·8	11	1·5	09	2·1	15	2·4	09	1·7	13	3·3	12	0·9	10	1·4	11	2·7	12	2·3	09	4·4	10	5·9	09	3·5	11	2·9

Hour \ Day	17d		18d		19d		20d		21d		22d		23d		24d		25d		26d		27d		28d		29d		30d		31d		Mean
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	08	3·7	10	3·4	11	2·3	11	3·3	10	5·3	10	2·8	09	5·7	10	2·1	09	3·8	11	3·9	11	2·4	10	3·0	10	2·3	12	3·0	12	4·4	3·1
1h	09	3·3	10	3·3	12	3·9	11	3·5	09	4·8	10	2·9	09	3·8	11	3·2	11	4·1	09	3·9	10	2·6	08	2·3	10	1·9	12	2·3	10	4·4	2·9
2	10	2·8	11	3·2	11	4·0	12	2·9	09	4·3	11	1·7	10	4·2	11	3·2	09	4·0	10	2·5	10	2·6	10	3·7	10	1·3	13	3·0	11	3·6	2·9
3	11	1·9	10	3·9	11	3·9	12	3·1	11	4·1	11	1·9	10	3·4	08	4·0	09	3·2	09	3·3	11	2·8	11	3·5	10	1·7	13	0·7	11	3·9	2·9
4	11	2·9	11	4·3	11	3·6	11	3·4	10	4·4	10	1·7	10	3·4	09	4·3	09	3·9	08	3·8	11	2·4	10	4·4	10	2·0	13	0·8	11	4·0	2·8
5	11	3·2	11	4·2	11	4·2	11	3·2	11	5·0	10	2·1	10	4·0	09	3·4	08	3·7	09	4·1	11	2·9	09	4·3	10	2·0	13	0·6	11	4·8	3·1
6	10	2·8	09	4·9	11	5·3	11	4·0	10	4·9	10	2·6	09	3·4	10	4·2	09	3·2	09	4·5	11	4·8	11	4·4	10	2·2	13	0·6	11	4·4	3·2
7	09	4·0	11	5·4	11	4·8	11	4·4	10	4·5	10	2·7	10	3·1	10	5·9	10	4·9	10	5·0	10	3·8	11	4·4	10	2·2	13	0·9	11	4·8	3·3
8	11	4·4	11	5·1	11	6·7	11	5·1	10	4·0	11	3·9	10	3·8	11	4·8	09	4·3	11	5·3	12	4·8	11	4·4	11	3·5	13	1·1	12	6·3	3·6
9	11	5·6	10	5·1	11	6·9	11	4·6	10	4·9	09	6·0	11	5·5	10	3·7	06	6·2	09	5·7	11	6·2	09	5·6	10	3·9	09	3·3	10	6·1	4·6
10	09	7·4	10	6·2	11	7·0	11	6·5	10	5·2	11	6·0	10	6·7	09	6·0	06	6·0	10	5·4	10	6·2	09	6·5	11	3·9	13	4·7	10	6·4	5·3
11	09	7·1	09	5·4	10	8·1	09	7·0	09	6·3	09	7·0	08	7·4	07	6·2	06	5·9	11	6·8	11	6·3	09	6·9	09	2·8	12	6·0	09	6·9	5·7
Noon	10	6·5	11	6·5	10	7·0	10	7·0	10	7·1	09	6·7	08	6·5	08	7·5	09	6·3	09	7·1	09	6·5	09	6·2	11	3·4	13	6·0	11	6·3	5·8
13h	10	6·7	09	6·3	11	7·4	10	7·7	10	7·3	09	6·9	09	7·0	08	7·7	06	5·4	09	6·7	11	6·3	11	6·4	07	1·4	11	6·4	10	7·2	5·8
14	09	6·1	09	6·1	09	7·0	09	7·0	09	7·0	11	6·4	10	7·2	09	7·7	06	6·2	10	6·1	10	6·4	09	6·5	01	1·3	12	6·0	09	7·0	5·8
15	08	6·3	12	5·3	11	6·5	10	7·4	10	6·6	09	7·1	10	6·3	08	7·1	07	6·0	09	6·3	11	6·1	10	5·8	01	1·8	12	6·1	11	7·8	5·7
16	09	4·9	12	6·2	10	5·9	12	6·8	09	6·5	09	6·1	10	6·8	08	7·1	09	6·0	09	6·7	09	6·5	11	5·4	08	2·5	12	5·8	11	7·4	5·6
17	09	4·3	11	5·0	09	5·8	11	5·2	11	5·4	11	6·0	09	4·9	11	5·5	06	6·4	10	5·9	09	6·3	09	4·6	10	2·3	12	5·2	12	6·0	4·7
18	10	3·3	11	3·7	10	4·5	11	5·1	09	4·6	09	5·3	09	4·1	11	4·5	07	5·0	10	4·6	10	4·4	10	4·2	09	1·7	11	3·2	10	6·0	3·7
19	10	3·0	11	3·5	09	4·5	11	4·9	11	3·2	11	5·6	10	3·4	10	3·3	07	3·9	09	4·8	10	4·0	11	4·0	09	1·7	12	3·6	11	5·4	3·4
20	09	4·4	10	3·0	10	3·7	10	5·0	10	3·4	10	5·5	10	3·3	10	4·4	09	3·5	10	3·8	09	5·0	10	3·5	11	1·7	11	2·1	11	5·2	3·3
21	11	4·4	11	3·4	10	4·1	10	4·8	10	3·2	10	6·4	10	3·6	09	5·0	06	3·7	11	3·9	09	4·9	10	3·1	11	1·8	11	2·5	11	4·4	3·4
22	11	4·1	11	3·0	11	4·7	10	5·0	10	3·1	10	6·9	10	3·0	10	4·1	10	2·8	11	2·8	11	4·4	10	3·0	12	2·7	11	3·9	10	4·0	3·3
23	10	2·8	11	3·0	11	4·4	11	5·1	10	3·0	09	5·8	10	3·0	11	3·8	09	3·4	11	1·8	09	4·3	10	2·2	12	2·7	11	4·0	10	4·3	3·1

TABLE XIII.—WIND FREQUENCY (NUMBER OF OBSERVATIONS), AUGUST 1937.

	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	...	5	6	18	...	1	...	...	...	...	...	...	...
9	...	12	19	...	..	...	1	7	11	12	...	...	...	...	...	...	...	...	...
15	3	18	10	1	...	...	...	8	9	12	...	...	...	...	...	1	...	...	...
21	...	2	29	...	.	...	1	3	13	13	...	1	...	...	...	...	...	...	...
Totals	...			1	...	1	2	23	39	55	...	2	...	...	...	1	...	...	...

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for AUGUST 1937.

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	...	...	..	...	..	..	...	...	...	...	...	...	..	0·6	0·2	0·2	0·1	...	...	4·0	...	0·7	2·0	0·4	...	...	0·3	...	...	..
2	...	...	0·5	...	...	...	...	...	...	...	...	..	...	...	0·3	2·0	...	0·1	...	...	1·2	...	..	0·1	0·5	...	...	0·3	...	...	...
3	...	...	...	...	...	...	...	...	...	..	...	...	...	..	...	0·4	...	...	...	...	0·8	...	...	0·4	...	0·2	...	0·4	...	...	0·3
4	...	...	..	...	...	..	..	...	...	...	...	...	..	0·4	0·8	0·3	...	...	...	...	0·2	...	...	...	...	...	...	1·0	...	...	...
5	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	0·5	...	...	0·2
6	...	...	0·7	...	...	...	...	...	...	...	...	...	...	...	0·8	...	...	0·2	...	...	...	...	...	...	...	0·3	...	...	...	...	...
7	...	...	...	...	...	...	..	...	...	...	...	...	...	...	0·2	0·3	...	...	...	...	...	...	..	...	...	0·2	...	...	...	...	...
8	..	...	.	...	...	...	...	...	...	...	...	0·2	0·1	...	...	0·9	...	2·0	..	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	2·0	...	...	...	...	..	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	1·2	...	...	0·3	...	...	1·5	...	...	...	...	...	...	0·1
11	...	...	...	...	...	...	...	..	...	...	..	...	...	...	...	...	...	2·4	...	...	0·9	...	...	0·1	...	...	..	...	...	...	...
Noon	...	...	...	...	...	..	...	...	...	...	...	0·1	...	...	...	0·1	...	..	...	..	...	...	...	1·4	...	...	...	...	...	...	0·2
13h	...	...	...	...	...	...	...	...	..	...	...	...	...	0·2	...	...	...	1·0	0·2	...	...	...	...	...	...	...	...	...	...	...	...
14	...	..	...	...	...	...	...	..	..	...	...	...	...	0·5	...	...	0·2	...	...	...	...	...	...	...	...	...	..	...	0·9	...	...
15	...	...	...	...	...	.	...	...	...	...	...	...	...	1·6	...	0·1	...	..	...	0·5	...	...	...	...	...	..	...	...	0·1	...	..
16	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	0·1	...	0·8	0·1	...	...	...	0·1	...	...	0·2	...	...	...	...
17	...	...	...	...	...	..	..	...	...	...	...	...	..	0·1	...	0·1	0·9	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·4	...	0·7	0·1	...	..	...	...	...	...	0·4	...	...	...	...
19	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	0·1	...	...	0·7	...	...	...	...	1·0	0·5	...	0·5	...	...	0·1	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	...	3·0	...	...	...	...	...	0·5	...	0·5	...	...	0·4	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2	0·1	0·2	...	...	0·5	...	...	...	1·0	...	...	0·2	0·3
22	...	...	...	...	...	0·6	..	...	...	...	...	...	...	...	...	..	0·1	...	...	0·9	...	...	...	...	0·1	...	0·9	...	...	0·2	..
23	..	...	...	...	...	0·3	...	...	...	..	..	0·1	0·2	0·4	...	...	...	...	...	2·2	...	...	...	...	...	...	4·0	0·1	...	...	0·5
24	...	...	...	...	...	..	0·2	...	...	...	...	0·4	0·9	1·8	0·7	0·1	0·1	...	...	1·0	0·1	...	..	...	0·5	...	1·0	...	...	1·1	0·5

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR AUGUST 1937.

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	...	...	...	...	...	..	...	...	..	...	..	...	...	1·0	2·3	0·3	...	...	...	4·6	...	1·0	0·8	1·7	...	...	0·6	...	...	2·0
2	...	...	...	0·2	...	...	...	..	...	0·7	...	0·2	...	...	1·8	...	0·3	...	0·2	...	1·6	...	0·6	0·2	1·2	...	...	0·3	...	...	2·4
3	...	...	..	...	..	...	...	...	...	0·2	...	...	...	...	1·0	0·1	0·1	2·1	...	...	1·4	...	1·9	0·6	0·6	0·3	...	0·1	...	...	2·5
4	...	...	0·1	0·2	...	...	..	...	...	..	...	...	...	0·2	0·9	..	0·3	1·5	...	...	1·0	...	1·1	...	0·3	1·8	...	0·5	...	...	0·3
5	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	0·2	0·1	2·4	...	0·3	0·6	...	0·2	...	0·4	0·7	..	0·9	...	0·2
6	...	...	0·1	0·1	...	...	...	...	...	...	...	...	...	...	...	0·8	0·1	...	0·6	...	0·6	0·3	...	0·1	...	...	1·1	0·2	1·6	...	0·5
7	...	...	...	...	..	...	...	...	...	...	...	...	..	..	0·3	0·5	...	..	3·2	0·2	0·3	0·6	...	...	0·2	0·1	0·6	...	...	...	...
8	0·4	...	...	...	...	...	...	...	...	...	...	0·1	0·4	...	0·5	0·2	1·5	0·5	0·4	0·2	0·9	...	0·1	0·4	...	1·2	0·3	0·7	...	...	0·8
9	...	...	...	..	...	...	..	...	...		...	0·1	..	...	...	0·4	0·7	0·7	0·2	0·1	0·1	...	...	..	...	...	...	...	...	...	0·7
10	..	..	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	0·2	0·8	...	0·2	...	...	0·8	...	0·9	0·1	...	...	...	0·2
11	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	0·5	...	...	0·5	...	0·2	...	...	...	...	0·8
Noon	...	...	...	...	..	...	...	...	...	...	...	0·1	...	...	...	0·4	...	...	0·7	...	0·7	...	...	1·0	...	...	...	...	...	0·2	0·6
13h	...	...	...	...	...	..	...	...	...	...	...	0·5	...	0·5	0·7	...	..	...	0·2	...	0·6	...	...	0·1	...	..	...	...	...	0·3	0·7
14	...	...	...	...	...	...	...	...	...	...	...	0·2	1·1	1·4	...	...	0·5	...	0·1	0·2	...	...	...	1·0	...	...	...	...	...	1·0	0·6
15	..	...	...	...	..	...	...	...	...	...	...	...	0·2	0·3	...	0·1	...	...	0·9	0·3	...	...	...	...	...	...	...	...	...	...	0·1
16	...	...	...	...	...	...	...	..	...	...	..	...	...	0·9	...	...	0·4	...	0·6	0·8	0·5	..	...	0·9	...	...	..	...	...	...	...
17	...	...	...	...	...	..	...	...	...	...	...	0·3	0·6	0·4	...	0·3	0·2	...	1·0	0·8	...	..	...	1·3	...	...	0·9	...	...	0·4	0·1
18	...	...	...	...	...	...	...	...	...	..	...	0·4	0·4	..	...	1·1	1·2	...	1·0	0·9	...	...	0·3	0·5	...	..	1·3	...	...	0·4	...
19	...	...	...	...	..	...	...	...	...	...	0·6	...	...	...	...	...	0·3	..	2·0	1·2	...	...	0·7	0·6	1·7	...	1·0	...	...	1·0	0·5
20	..	...	...	...	...	...	...	...	...	...	0·3	...	..	...	...	...	0·5	...	1·6	1·2	0·2	0·2	...	0·4	1·4	...	0·6	...	...	0·3	0·3
21	..	...	...	...	...	...	...	...	...	...	0·3	...	0·5	...	0·6	...	0·2	...	0·7	1·3	0·2	1·9	1·1	2·3	..	...	1·0	...	...	0·4	1·8
22	...	...	...	..	...	.	...	...	...	...	0·5	...	0·6	0·5	1·0	0·1	1·4	0·1	1·3	2·2	0·6	...	2·0	0·6	0·8	...	2·0	...	...	0·9	1·9
23	...	...	.	0·2	...	...	...	...	...	...	0·8	...	0·1	0·7	1·0	0·1	0·3	...	0·3	2·4	0·3	0·7	0·3	0·4	1·3	...	0·9	...	...	0·8	2·6
24	...	...	...	...	..	...	...	...	...	...	1·4	...	0·2	1·9	0·7	...	0·1	...	...	3·7	0·1	2·6	0·4	4·0	0·4	...	0·9	...	...	0·7	1·9

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for AUGUST, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	2.40	...
	St. Antoine	50	2.17	55.1	2.12	14
	Bel Mont	50	2.76	70.1	2.06	15
	Poudre d'Or	20	3·97	100.8	2.06	15
	Mon Loisir (S.E.) ...	300	3.55	90.2	2.78	12
	Forbach	300	3.69	93.7	2.29	16
	Couroupa	...	3.98	101.0	3.67	17
*	Labourdonnais	290	...	...	2.76	...
	Mapou Water Office ...	...	2.45	62.2	...	11
	Beau Séjour	300	4.37	111.0	3.65	18
	Mont Piton	650	4.64	117.9	3.70	20
	Mon Choix	700	3.83	97.3	3.11	17
	Antoinette	640	...	...	3.59	...
	Mon Songe	620	4.82	122.4	3.97	17
	Botanical Gardens ...	325	4.29	109.0	2.98	24
*	The Observatory ...	179	2.96	75.3	2.25	21
	Solitude	175	...	...	1.71	...
	St. André (Cour) ...	90	2.42	61.5	1.97	13
	La Nicolière	...	4·59	116.6	4.59	21
	California	...	4.58	116.3	...	11
	Australia	..	5.26	133.6	...	10
2 & 3	Union Régnard (Flacq S.E.) ...	600	2.42	61.5	3·69	10
	Constance d'Arifat (L.S.) ...	100	3.99	101.3	3.27	21
	Rich Fund	600	3.57	70.7	5.45	14
	La Joffrette	...	3.97	100.8	...	13
	Belle Vue (Allendy) ...	...	3.94	100.1	4.32	17
4	Sans Souci	900	10.15	257.8	9.17	23
	Beau Champ (G.R.S.E.) ...	20	3.23	82.0	3.64	18
	Olivia	400	4.93	125.2	6.01	18
	Trois Ilots	...	3.51	89.2	..	19
	Belle Rive	400	6.50	165.1	8.83	23
	Sébastopol	700	7.89	200.4	...	17
	Bonne Veine	400	6.63	168.4	8.48	22
5	Rose Belle	850	6.16	156.5	9.76	25
	New Grove	650	4.74	120.4	8.09	21
	Mon Trésor	...	2.81	71.4	...	15
	Mon Désert (Carié) ...	75	1.81	46.0	3.33	12
	Ferney	20	...	...	4.75	...
	Sauve Terre	...	2.17	55.1	...	13
6	Tivoli	1,300	9.17	232.9	10.96	28
	La Flora	1,050	6.91	175.5	9.84	27
	Riche Bois (Brit.) ...	650	3.43	87.1	5.75	23
	Britannia (Estate) ...	700	4.54	115.3	6.39	28
6	Savannah (Mill) ...	200	1.74	44.2	4.08	10
	St. Aubin	300	2.22	56.4	4.30	18
	St. Avold	900	5.48	139.2	7.80	26
	Colmar	400	5.51	140.0	5.23	26
	Union (S.E.)	...	3.42	86.9	4.44	13
	Fontenelle	320	3.36	85.3	4.75	13
	Choisy	200	2.47	62.7	3.30	12
	Beau Bois	...	4.80	121.9	...	20
	Bel Air	...	2.62	66.5	3.68	7
	St. Félix	...	2.80	71.1	...	6
7,8,9&10	Bel Ombre	40	...	...	3.45	...
	Beau Champ (Cap du Cap) ...	70	...	...	3.49	...
	Frédérica	...	...	...	4.22	...
	Pierre Fonds	...	1.95	49.5	2.38	15
	St. Marie	...	...	...	...	...
	Ilussonia	...	...	...	...	...
11	Curepipe Gardens ...	1,840	12.46	316.5	8.09	...
	Mare aux Vacoas (G.E.) ...	1,850	10.95	278.1	10.68	27
	Mare aux Vacoas (Arn) ...	1,830	12.83	325.9	11.40	28
	La Marie Filter Beds ...	1,700	8.12	206.2	7.07	20
*	Sophie	...	10.81	274.6	...	28
	Réunion	1,420	6.79	172.5	5.13	19
*	Aerological Station ...	1,393	7.48	190.0	5.40	24
	Phoenix	...	6.14	156.0	...	17
	Quatre Bornes ...	...	3.92	99.6	...	16
12	Quatre Bornes (Board) ...	1,090	3.91	99.3	...	12
*	Le Réduit (D of A) ...	1,000	3.16	80.3	2.55	29
	Alma	1,460	8.45	214.6	6.99	21
	Bagatelle	1,250	8.04	204.2	4.08	17
	Highlands	1,300	7.19	182.6	5.08	17
	Trianon	950	4.00	101.6	2.80	17
	Val Ory	1,100	...	...	2.75	...
	Bassin	.	2.51	63.8	3.03	12
	Hermitage	1,450	9.59	243.6	9.64	15
	Ebène	...	3.14	79.8	...	18
	Béga	...	2.31	58.7	...	15
	Mon Rêve	...	4.01	101.9	...	18
	Mon Pevril	...	3.81	96.8	...	16
	Minissy	1,150	4.77	121.2	3.25	18
	Plaisance	...	2.30	58.4	...	11
	La Ferme	350	0.11	2·8	1.25	4

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 AUGUST 1937.

Day.	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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	..	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	..	...	...
3	...	..	...	...	...	...	...	...	...	..	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	..	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	.	...	...	...	...	...	...	...
9	...	...	...	..	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	..	...	...	...	...	...	...	..	...	...	...	...	...
14	..	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	..	...	...	...
17	11¾	105	17·5*	88	15·0*	...	...	...	...	...	...	..	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	11¾	120	19·3*	100	6·8*	103	7·1*	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...
21	..	...	...	..	.	...	...	...	...	...	...	...	...
22	...	..	...	...	...	.	...	...	...	...	...	...	...
23	11	...	...	97	11·4	...	..	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	..	...	...	...	..	...	...	...	...	...	...	...
26	...	...	...	..	...	..	...	...	...	...	...	...	...
27	11½	105	32·1*	103	14·8*	...	...	...	...	...	...	...	...
28	11½	105	60·5	105	34·9	...	...	...	...	...	...	...	...
29	9¾	...	...	90	...	...	...	...	...	...	...	285	2·7
30	...	...	...	...	...	...	...	...	...	...	...	...	...
31	12	105	26·0*	112	11·5*	100	15·1*	...	...	..	...	...	...

Day.	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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	14¼	105	10·9*	90	10·7*	...	...	...	...	...	...	...	...
3	14¼	...	...	93	8·2*	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	14¾	...	...	90	6·1*	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	..	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	..	...	...	...	...	...
9	14¼	157	6.5*	178	4·3*	...	...	...	..	...	...	...	...
10	14¼	...	...	300	6·9*	...	...	...	...	...	...	...	...
11	14¼	...	...	120	9·6*	...	...	...	...	...	. .	...	...
12	14	...	...	130	7·1*	...	...	...	...	...	...	...	...
13	13¼	90	7·5*	95	9·8*	...	...	...	...	...	...	...	...
14	...	...	..	...	...	...	...	...	..	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	.	...	...	...	...	...	...	...	...	...
18	12½	...	...	120	21·8*	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	..	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	..	...	...
26	14¼	128	19·2*	135	30·2	300	...	...	...	...	..	...	...
27	...	...	...	...	...	..	...	...	...	...	...	...	...
28	13½	90	14·9*	120	17·7*	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...
30	15½	135	8·1*	143	7·5*	...	...	...	...	...	...	..	...
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.

* Observatory Pamplemousses.

76/3/38—R.A.O. 250.

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NEW SERIES (MONTHLY) VOL. XXIII. PART 9. PRICE 0.75

ROYAL ALFRED OBSERVATORY, MAURITIUS

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

SEPTEMBER, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

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1938

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF SEPTEMBER 1937

Month and Day. 1937	Mean Declination (West).	Mean Horizontal Force. (C.G.S. Units)	Mean Vertical Force. (C.G.S. Units.)	Daily Range† Declination.	Daily Range† Horizontal Force (Unit 1 γ)	Daily Range† Vertical Force (Unit 1 γ)	HRH : 10000	ZRZ : 10000
SEPT.								
1	13°25'.3	.22483	.29738	8'.0	48	54	108	169
2	24.1	481	741	11.0	45	45	101	134
3	26.0	481	748	8.5	42	31	95	92
4	24.6	488	743	10.3	49	46	110	137
5	24.5	477	745	12.5	45	66	101	196
6	24.5	482	745	8.0	32	39	72	116
7	24.3	480	751	4.7	33	22	74	65
8	24.9	491	750	10.3	34	42	76	125
9	25.2	493	752	9.7	37	45	83	134
10	25.2	492	751	8.0	39	32	88	95
11	24.5	447	758	8.5	75	39	168	116
12	25.1	463	756	10.5	28	51	63	151
13	25.4	471	759	11.8	46	27	104	80
14	24.4	482	756	10.5	47	32	106	95
15	25.5	475	756	11.5	48	44	108	131
16	25.1	481	759	9.0	42	31	94	92
17	24.9	477	762	7.0	13	36	29	107
18	24.8	491	758	10.3	60	42	135	125
19	25.4	480	760	8.7	50	28	113	83
20	25.2	494	758	7.5	52	43	117	128
21	24.1	489	754	9.2	20	47	45	140
22	25.2	491	756	6.8	67	45	151	134
23	24.9	477	760	10.5	16	46	36	137
24	25.0	468	767	8.5	30	33	68	98
25	26.4	485	763	10.3	40	32	90	95
26	25.7	483	765	13.0	38	29	85	86
27	25.7	489	765	8.7	48	27	108	80
28	25.1	486	766	11.5	58	24	130	71
29	26.2	494	762	8.7	53	39	119	116
30	25.6	505	765	10.5	190	27	427	80
...	...	...	...	...	...	...	...	...
Mean	13°25'.09	.22483	.29756	9.47	47.5	38.1	106.8	113.3

Description of the Principal Magnetic Disturbances.

Declination.—11d. Slightly disturbed.
30d. Slightly disturbed at end.

Horizontal Force.—1d. Slightly disturbed.
10d. $21^h.45^m$. Sudden commencement of a moderately intense and short-lived disturbance ending during the late hours of 11d. Sharp negative wave (40γ) on 11d. $2^h.30^m$.
14d. & 15d. Slightly disturbed.
22d. Slightly disturbed.
24d. Slightly disturbed.
30d. $14^h.20^m$. Sharp positive wave (23γ). At $17^h.40^m$. sudden commencement of an intense disturbance ending gradually during the latter part of October 1st. Large fluctuations in the trace with considerable increase of the diurnal range (165γ). From 30d. $23^h.30^m$. to 1d. $0^h.30^m$. Large positive wave of 50γ.

Vertical Force.—10d. $21^h.45^m$. Sudden commencement of a moderately intense disturbance ending during the late hours of 11d.
30d. Moderately disturbed at the end with sudden commencement at $17^h.40^m$. Small pulsations throughout on the fluctuating trace.

T=·37295 : Mean Dip=52° 55'.57 : (X=·21869 : Y=−·05217 : Z=·29756).
† The daily range is the difference between the greatest and least hourly values.

TABLE II.—RESULTS of ABSOLUTE DETERMINATIONS of the MAGNETIC ELEMENTS during the MONTH of SEPTEMBER 1937.

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	° ′	
7.15.18	13.22.3	1. 9.44	·22495	7.15.30	52.56.37	·29741
17.15.25	13.21.3	8. 9.42	·22496	17.15.16	52.56.31	·29754
21.14.36	13.19.3	11. 9.18	·22464	21.14.49	52.53.81	·29731
		15. 9.27	·22467	24.14.42	52.57.00	·29752
		18. 9.42	·22506			
		23. 9.42	·22477			
		27. 9.22	·22505			
		30. 9.31	·22536			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORD

SEPTEMBER 1937

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	25·0	25·0	25·0	24·5	25·0	25·3	25·0	24·7	24·5	24·5	25·7	25·5	26·0	27·0	25·5	25·7	Midnight
1h	24·7	25·0	25·3	24·7	25·5	25·3	25·3	25·0	24·7	24·5	25·0	25·5	26·0	26·5	26·0	25·7	1h
2	25·0	24·0	25·0	24·7	25·7	25·0	25·0	25·0	25·0	24·0	24·7	25·3	26·3	24·5	26·0	25·5	2
3	25·3	24·5	24·0	25·0	25·5	25·5	24·7	25·0	24·7	24·0	25·0	25·5	26·0	24·7	26·0	25·5	3
4	25·0	24·5	24·0	24·7	25·5	25·3	24·5	25·0	24·7	24·5	25·0	25·5	26·3	25·0	26·0	25·5	4
5	25·0	24·0	26·0	24·0	24·0	24·7	24·5	24·7	24·5	24·7	22·0	25·5	26·3	25·0	24·5	25·5	5
6	24·5	24·3	29·0	23·5	23·0	24·0	23·5	24·5	24·5	24·5	23·5	25·0	25·5	24·5	24·3	24·5	6
7	23·7	23·0	31·0	23·5	21·0	22·5	22·0	25·0	24·3	24·7	23·0	24·3	25·5	25·0	25·0	25·0	7
8	25·3	24·0	31·0	24·5	24·0	23·5	23·0	26·5	25·5	26·0	26·5	26·0	27·0	27·0	25·7	26·7	8
9	28·0	29·0	30·0	27·5	28·0	26·0	26·0	28·5	28·0	28·0	27·5	28·5	28·5	29·0	28·0	28·5	9
10	30·3	29·5	31·0	28·5	30·5	28·5	26·7	30·0	30·5	30·3	26·0	30·5	31·0	28·0	31.0	29·0	10
11	30·0	29·0	31·0	31·0	31·0	28·5	26·5	29·5	30·7	30·5	28·5	30·0	31·5	27·5	31·5	28·0	11
Noon	29·0	26·0	30·0	30·0	28·0	26·0	25·0	27·5	29·0	28·0	27·5	28·0	29·5	25·3	31·0	26·0	Noon
13h	27·5	23·0	27·0	24·5	23·0	23·0	23·0	25·0	26·5	25·0	23·5	24·5	24·5	22·0	28·5	24·0	13h
14	24·7	20·5	25·0	21·5	20·0	22·7	22·5	22·3	25·0	24·0	22·0	22·5	21·0	20·0	23·5	21·5	14
15	22·7	18·5	23·5	20·7	18·5	21·0	23·0	20·5	22·5	23·5	20·0	20·5	20·0	19·5	20·0	20·0	15
16	22·3	18·5	22·5	20·7	19·5	20·5	22·0	19·7	21.0	23·3	20·0	20·0	19·7	18·5	20·0	20·5	16
17	23·0	21·0	22·5	22·0	22·5	22·0	22·0	22·0	22·5	22·5	23·0	21·0	21·0	20·0	21·5	22·0	17
18	24·0	23·3	23·0	23·5	24·0	24·0	24·0	24·0	24·0	24·0	23·5	23·0	23·3	22·5	23·5	24·0	18
19	23·7	24·0	23·5	24·0	24·0	24·3	24·5	24·3	24·3	24·3	24·5	24.0	23·5	24·0	24·0	24.5	19
20	24·0	24·3	23·5	23·7	24·3	24·5	25·0	24·5	24·5	24·5	25·0	24·5	24·7	24·5	24·3	24·5	20
21	24·0	24·5	24·0	24·0	25·0	26·0	25·0	25·3	25·0	25·5	26·0	25·3	25·3	25·0	25·3	26·0	21
22	25·0	24·5	24·0	24·5	24·7	25·5	25·0	25·0	24·7	25·3	25·0	25·5	25·7	25·5	25·5	26·5	22
23	25·0	24·5	24·3	24·7	25·0	25·0	25·5	25·5	25·0	25·0	25·7	26·0	26·0	26.0	26·0	26·5	23

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Hour \ Day
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	26·5	25·7	26·3	25·7	25·5	25·5	25·7	25·5	26·0	25·7	26·0	26·5	26·3	26·0	...	25·6	Midnight
1h	26·0	25·5	25·5	25·7	25·7	25·5	26·0	26·5	26·0	26·0	26·0	26·3	26·5	26·3	...	25·6	1h
2	26·0	25·7	26·3	25·5	25·5	25·0	26·5	26·0	25·7	26·0	26·0	26·0	26·7	26·5	...	25·5	2
3	25·5	25·5	26·3	25·5	25·0	24·7	26·3	26·0	26·0	26·0	26·0	26·0	26·7	26·5	...	25·4	3
4	24·5	25·5	25·5	25·5	23·5	25·7	26·3	25·5	25·7	26·0	25·5	26·2	26·5	26·3	...	25·3	4
5	24·7	25·3	24·5	25·5	24·0	26·0	26·5	24·5	26·0	26·5	25·5	26·3	27·3	26·5	...	25·1	5
6	24·0	24·3	24·3	24·7	23·3	26·0	26·0	23·3	26·5	26·3	24·5	26·0	27·3	25·5	...	24·8	6
7	22·5	23·0	25·0	25·0	26·0	26·5	24·0	23·0	27·5	26·5	26·0	26·5	27·5	26·0	...	24·8	7
8	24·3	25·0	26·0	27·0	27·0	28·0	26·0	26·5	29·0	28·0	27·5	27·5	29·0	27·5	...	26·3	8
9	27·5	28·0	28·5	28·5	27·7	28·5	28·3	27·5	30·5	30·5	30·3	28·5	30·0	29·0	...	28·4	9
10	27·5	30·0	29·7	29·0	27·3	28·3	29·0	29·0	32·0	32·0	30·7	30·0	30·7	29·7	...	29·5	10
11	28·5	28·0	29·3	28·0	25·5	27·0	28·0	28·0	31·5	30·5	30·0	28·0	30·0	29·0	...	29·2	11
Noon	28·0	26·0	27·0	26·3	23·5	25·0	25·7	26·5	29·0	28·0	28·0	24·0	28·0	27·0	...	27·3	Noon
13h	25·0	22·0	26·0	24·0	22·0	24·3	23·0	24·0	26·0	24·0	25·0	20·0	25·0	24·0	...	24·3	13h
14	22·0	19·7	22·5	22·0	20·0	23·3	20·0	21·3	24·0	20·0	22·5	18·5	22·3	20·0	...	21·9	14
15	21·5	20·5	21·0	21·5	18·5	22·0	18·5	20·5	22·0	19·0	22·3	19·5	22·0	19·5	...	20·8	15
16	22·0	22·0	21·3	21·7	19·3	21·7	20·0	21·5	21·7	20·5	22·0	21·0	23·5	21·0	...	20.9	16
17	23·0	23·0	22·5	23·5	22.0	23·0	22·0	23·0	24·0	22·5	23·5	23·0	24·0	23·5	...	22·4	17
18	24·3	24·0	24·5	24·5	23·5	24·3	24·0	24·5	25·0	24·5	24·3	25·0	24·3	23·5	...	23·9	18
19	24·5	24·5	24·5	24·7	24·3	24·5	24·5	24·3	25·0	25·3	24·0	24·3	24·3	23·5	...	24·3	19
20	24·5	24·5	25·0	25·0	24·5	24·5	24·7	25·5	25·5	25·3	24·5	24·7	24·5	23·7	...	24·6	20
21	25·5	26·0	25·5	25·0	24·7	25·0	25·3	26·0	25·7	25·5	25·5	26·0	25·0	24·5	...	25·2	21
22	25·5	26·0	25·7	25·0	25·3	25·5	25·5	26·0	26·0	26·0	26·0	26·0	25·5	26·5	...	25·4	22
23	25·5	26·3	26·0	25·3	25·3	26·0	25·7	26·3	26·3	26·0	26·0	26·0	26·0	30·0	...	25·7	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)

SEPTEMBER 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	474	470	477	481	470	477	472	480	490	486	481	449	467	470	475	477	Midnight
1h	475	471	475	485	479	477	473	479	482	483	490	451	467	465	477	480	1h
2	478	481	476	489	479	479	470	485	482	485	490	455	469	485	480	477	2
3	479	479	476	489	479	479	475	485	483	494	495	457	470	480	475	477	3
4	485	477	479	487	485	481	482	489	487	492	482	457	471	481	477	480	4
5	485	473	479	490	483	482	483	491	490	491	470	460	473	481	481	483	5
6	489	472	480	499	481	485	489	493	490	491	450	461	475	483	480	485	6
7	492	485	485	503	483	489	493	493	491	493	450	467	487	485	477	487	7
8	497	494	493	503	491	497	497	495	498	495	465	475	490	488	481	490	8
9	497	495	494	502	489	499	497	499	501	500	460	475	492	505	483	500	9
10	493	497	500	505	490	498	498	500	510	507	452	477	495	503	480	502	10
11	502	497	503	510	492	500	485	502	515	511	425	475	487	505	485	497	11
Noon	510	506	505	513	490	502	485	511	517	515	430	475	485	512	493	497	Noon
13h	500	507	500	517	489	490	483	513	515	505	430	467	473	500	485	495	13h
14	500	500	489	502	475	478	467	510	512	500	427	467	467	480	467	485	14
15	485	480	473	485	455	475	465	490	500	490	420	465	452	465	450	475	15
16	475	468	465	473	447	470	469	487	492	478	423	451	449	475	445	470	16
17	470	462	463	470	460	471	475	485	487	476	425	450	451	475	455	473	17
18	470	467	469	469	470	475	479	487	485	480	425	457	457	475	467	475	18
19	480	472	470	468	472	473	475	483	487	485	423	460	455	473	473	475	19
20	467	473	470	469	471	477	474	480	482	490	423	461	461	473	473	470	20
21	467	473	472	469	472	475	475	483	480	482	430	461	470	473	475	460	21
22	467	473	473	470	473	472	477	482	481	497	440	461	471	470	477	465	22
23	462	475	477	470	473	480	480	480	482	490	440	465	467	473	480	470	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	470	480	467	474	483	485	477	467	467	481	477	471	473	492	...	475·3	Midnight
1h	475	484	475	478	485	485	475	460	469	480	479	475	472	493	...	476·5	1h
2	477	485	483	481	490	485	477	481	471	481	481	480	475	493	...	480·0	2
3	473	487	477	482	495	497	479	477	473	485	483	482	478	495	...	481·2	3
4	480	489	475	483	495	495	485	483	477	483	487	485	481	495	...	482·8	4
5	482	489	477	485	500	494	485	485	477	484	490	483	477	497	...	483·3	5
6	481	490	475	487	497	498	481	483	476	485	492	483	479	499	...	483·6	6
7	483	490	477	489	497	495	481	480	477	487	491	482	483	510	...	486·1	7
8	483	500	480	492	490	494	482	475	480	490	493	481	489	520	...	489·9	8
9	483	507	487	505	485	493	481	473	495	491	500	495	495	530	...	493·6	9
10	480	513	495	512	492	495	480	465	505	500	501	505	507	540	...	496·6	10
11	473	515	500	517	487	505	479	460	507	497	505	517	522	553	...	497·6	11
Noon	477	520	510	525	495	527	482	471	504	491	512	523	525	560	...	502·3	Noon
13h	481	517	510	525	500	530	483	473	500	497	513	517	523	560	...	499·9	13h
14	480	510	500	517	497	517	478	467	490	500	512	507	522	555	...	492·6	14
15	473	500	483	505	487	500	475	457	490	485	503	497	515	535	...	481·0	15
16	471	490	475	495	485	487	469	459	490	480	492	483	497	520	...	474·3	16
17	474	487	460	487	481	473	470	462	489	480	493	470	489	507	...	472·3	17
18	477	487	460	487	483	475	471	457	487	477	480	467	489	530	...	474·5	18
19	472	483	464	487	484	475	473	455	485	467	470	465	487	520	...	473·7	19
20	475	475	467	485	480	472	473	455	483	462	467	467	487	508	...	472·3	20
21	477	465	472	484	480	467	470	459	482	463	465	473	489	465	...	470·9	21
22	480	464	473	483	481	463	473	460	482	470	470	475	490	415	...	470·9	22
23	475	460	470	484	482	472	472	463	481	475	472	474	490	370	...	470·1	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)

SEPTEMBER 1937

Hour. / Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	748	748	747	751	752	752	753	759	756	756	760	767	763	768	761	761	Midnight
1h	748	746	748	750	751	751	752	758	757	757	757	767	764	766	762	761	1h
2	749	749	748	749	750	750	753	757	757	757	757	766	763	765	763	761	2
3	749	746	749	748	749	749	751	755	756	755	761	765	763	763	763	761	3
4	748	747	749	747	749	749	750	753	755	755	758	765	763	763	764	762	4
5	749	749	749	749	749	749	749	754	755	754	755	765	763	764	763	763	5
6	749	749	749	747	748	748	749	754	754	754	759	764	762	763	761	761	6
7	746	744	750	747	750	749	746	757	755	755	760	764	762	762	762	764	7
8	751	749	755	752	759	755	750	762	761	759	770	766	762	766	765	770	8
9	760	755	763	758	765	757	760	765	771	761	771	771	766	768	770	771	9
10	751	758	759	759	769	760	763	762	775	765	767	772	765	757	770	767	10
11	743	743	755	749	763	753	756	756	766	762	770	763	759	750	766	760	11
Noon	729	729	748	736	743	740	750	747	754	753	763	750	753	741	757	750	Noon
13h	731	720	740	725	725	726	742	740	743	745	751	739	743	739	740	745	13h
14	710	713	733	713	705	723	741	731	736	735	740	724	739	736	726	740	14
15	706	713	732	716	703	721	742	723	731	733	732	721	741	741	727	741	15
16	713	721	734	720	716	722	741	725	730	735	738	727	745	742	734	748	16
17	723	732	741	730	733	730	743	734	735	740	749	739	761	749	747	756	17
18	730	743	745	741	742	741	749	745	743	741	755	750	759	755	755	763	18
19	732	744	747	744	744	744	751	747	746	745	758	753	759	756	757	762	19
20	734	746	749	748	749	747	754	751	749	749	761	757	762	759	759	762	20
21	736	747	750	750	751	751	756	753	751	751	763	760	762	760	760	764	21
22	737	747	751	751	752	752	758	755	754	754	764	761	762	761	761	767	22
23	738	747	750	751	752	753	759	757	755	753	7[illegible]	762	763	761	761	763	23

Hour. / Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	765	762	765	764	762	765	767	769	771	766	770	771	771	765	...	761·2	Midnight
1h	764	761	764	763	761	763	767	771	770	767	770	771	771	766	..	760·8	1h
2	765	761	763	762	761	762	766	768	769	767	769	770	770	767	...	760·5	2
3	765	762	763	762	760	761	765	767	768	765	769	770	770	765	...	759·8	3
4	764	763	764	763	759	761	763	765	767	765	767	769	770	766	...	759·4	4
5	765	764	764	764	761	762	764	765	767	765	766	769	771	766	...	759·7	5
6	763	763	764	763	761	763	763	763	769	765	764	769	771	766	...	759·3	6
7	764	764	768	767	768	767	763	766	772	766	766	770	772	769	...	760·5	7
8	771	769	771	773	770	771	771	777	776	770	771	773	773	770	...	765·3	8
9	779	772	772	776	769	770	776	782	776	776	776	774	771	770	...	769·0	9
10	776	771	769	771	760	763	775	782	773	778	774	775	769	772	...	767·6	10
11	769	764	760	764	749	755	767	783	768	771	767	762	763	771	...	760·9	11
Noon	755	753	753	753	739	749	755	770	760	760	755	750	754	761	...	750·3	Noon
13h	749	736	746	740	730	732	742	759	758	751	750	747	742	749	...	740·5	13h
14	743	730	744	733	729	726	730	750	750	749	749	750	734	745	...	733·6	14
15	747	738	744	736	728	730	731	753	744	754	752	755	740	750	...	734·2	15
16	751	745	746	741	723	736	742	757	749	761	760	760	750	760	..	739·[illegible]	16
17	756	750	749	745	749	747	751	759	754	766	761	762	756	767	...	747·1	17
18	759	756	759	754	754	754	760	761	758	767	763	768	759	765	...	753·1	18
19	761	759	760	758	759	757	760	762	758	765	764	767	759	762	...	754·7	19
20	762	760	762	761	761	761	761	766	760	767	767	769	761	762	...	757·2	20
21	762	765	763	761	761	764	765	769	762	769	769	769	762	763	...	759·0	21
22	763	766	764	762	763	767	767	771	763	770	770	769	763	773	...	760·6	22
23	762	766	764	762	763	768	768	771	764	769	770	770	764	781	...	761·1	23

TABLE VI.—RESULTS of METEOROLOGICAL OBSERVATIONS made at the AEROLOGICAL STATION Vacoas (424·5 metres above mean sea-level) during the MONTH of SEPTEMBER 1937.

Month and day 1937.	Observations at 10 a.m.									Temperature of the Air.							Rainfall			
	Atmospheric Pressure.	Temperature of the Air.	Excess of Air Temperature over Evaporation Temperature.	Temperature of the Dew Point.	Relative Humidity (Sat 100).	Vapour Pressure	Wind. Direction.	Wind. Velocity	Amount of Cloud (Scale 0—10).	3h	9h	15h	21h	Daily Maximum.	Daily Minimum.	Daily Range.	Amount recorded by the Casella Pluviograph.	Duration.	Duration of Bright Sunshine.	Percentage of Possible Sunshine.
SEPT.	mbs.	°	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	973·3	18·5	1·1	16·5	88	18·6	100	7·2	10	15·6	18·1	18·5	17·0	19·0	15·6	3·4	15·9	263	3·7	32
2	972·6	19·4	2·3	15·2	77	17·1	95	7·6	3	16·9	18·7	21·4	17·5	21·6	15·8	5·8	8·3	87	9·2	79
3	972·8	18·6	1·3	16·2	86	18·2	90	4·5	10	17·1	18·9	21·0	16·5	21·6	16·5	5·1	0·0	0	7·5	64
4	971·4	19·9	3·0	14·5	71	16·4	90	4·5	7	15·1	19·0	21·6	17·5	22·4	14·9	7·5	0·5	5	10·6	91
5	971·3	20·7	2·2	16·8	78	18·9	70	2·7	9	17·2	19·5	23·3	18·0	23·3	16·8	6·5	1·1	6	6·4	55
6	971·3	20·9	3·4	15·4	71	17·3	70	2·7	8	17·1	20·0	21·0	18·0	24·4	16·0	8·4	4·5	36	6·4	55
7	972·2	20·1	2·3	16·0	77	18·0	100	3·1	5	16·4	20·6	22·0	18·0	22·8	16·2	6·6	0·0	0	10·5	89
8	972·6	19·3	2·2	15·3	77	17·2	90	2·2	7	16·0	19·0	21·8	17·0	23·6	15·0	8·6	0·1	1	9·5	81
9	973·0	17·9	0·5	17·0	95	19·2	80	3·6	10	16·2	19·0	21·8	17·9	22·0	16·0	6·0	0·9	9	2·6	22
10	973·3	20·5	2·6	15·9	75	17·9	110	7·2	3	16·6	20·0	21·2	18·1	22·5	16·5	6·0	0·0	0	9·4	80
11	975·1	17·4	0·9	15·7	90	17·7	115	8·9	7	17·1	17·2	19·5	16·1	20·5	16·1	4·4	0·6	3	7·6	64
12	976·0	16·9	1·6	13·9	87	15·7	90	5·4	10	15·0	16·2	16·7	15·2	19·0	14·9	4·1	6·0	96	4·5	38
13	973·7	19·7	2·8	14·6	73	16·5	70	5·4	6	15·0	17·7	19·2	16·7	21·0	15·0	6·0	5·0	54	5·3	45
14	973·4	21·5	3·6	15·1	67	17·0	70	4·9	7	15·2	20·2	22·2	17·9	23·2	14·6	8·6	0·3	3	9·6	81
15	973·7	21·0	2·4	16·8	77	18·9	90	3·1	8	17·2	21·0	21·2	18·1	22·5	16·9	5·6	1·5	13	7·7	65
16	972·4	22·0	3·3	16·2	69	18·2	80	2·7	5	17·6	21·0	21·4	18·2	23·1	17·2	5·9	1·6	24	5·5	46
17	971·5	21·1	4·1	13·8	63	15·6	80	8·1	0	17·5	20·0	22·2	18·0	23·2	17·2	6·0	1·1	11	10·8	90
18	971·7	21·5	2·6	16·9	75	19·0	90	4·0	3	17·1	20·7	24·0	18·2	24·0	16·8	7·2	0·0	0	9·2	77
19	971·7	21·9	3·5	15·7	68	17·7	80	6·7	2	18·1	19·9	23·8	18·8	23·9	17·4	6·5	0·4	3	9·9	82
20	972·7	19·6	0·9	17·9	90	20·3	75	4·5	8	18·0	19·9	22·6	18·0	23·1	17·6	5·5	2·1	15	7·5	63
21	971·0	19·5	0·9	17·8	90	20·2	80	4·5	10	18·0	21·0	19·6	18·6	21·5	17·0	4·5	4·6	72	2·0	17
22	968·5	23·1	4·6	15·1	61	17·0	Calm		0	17·5	22·3	22·5	18·0	24·9	15·3	9.6	0·0	0	6·4	53
23	968·9	23·3	3·8	16·7	66	18·8	70	1·3	7	15·8	22·2	22·9	18·2	24·6	15·8	8·8	3·3	48	6·7	55
24	971·1	20·7	2·2	16·8	78	18·9	80	3·6	9	18·1	20·9	22·7	18·8	23·2	17·6	5·6	0·4	4	10·3	85
25	971·8	21·1	3·1	15·1	68	17·0	95	7·2	7	17·0	20·0	21·8	17·0	23·0	16·7	6·3	1·9	30	9·1	75
26	972·1	21·4	2·6	16·8	75	18·9	100	6·3	7	17·0	18·7	22·5	18·8	23·0	16·9	6·1	2·6	23	9·5	79
27	971·2	18·9	0·9	17·2	90	19·4	80	3·1	10	17·1	20·2	20·3	18·1	22·0	16·7	5·3	3·1	29	4·4	36
28	969·5	20·1	2·3	16·0	77	18·0	100	5·4	10	17·1	20·0	21·6	18·4	22·4	17·0	6·4	0·5	3	6·2	51
29	970·7	20·0	2·4	15·7	76	17·7	105	5·8	9	17·4	20·3	21·0	17·0	22·5	17·0	5·5	9·3	113	8·2	67
30	972·2	19·3	3·8	12·4	64	14·3	80	5·8	7	16·5	19·8	20·4	16·0	21·5	16·0	5·5	2·4	21	10·1	83
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	972·1	20·2	2·4	15·9	76·6	17·9	...	4·7	6·8	16·8	19·7	21·4	17·6	22·5	16·3	6·2	78·0	967	7·54	68·3
Average	971·6	19·6	2·4	15·1	76·3	17·2	...	4·8	6·4	...	...	...	...	21·5	15·0	6·5	90·7	...	6·97	58·5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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

Atmospheric Pressure	+	42·5mbs.	Amount of rain	—	31·6mms.
Temperature of the Air	+	3·1°C	Duration of sunshine	+	11·5hrs.
Vapour Pressure	+	0·9mbs.	Mean of maximum temperatures	+	3·2°C
Relative Humidity	—	10·2%	,, minimum temperatures	+	1·8°C
Velocity of Wind		0·0mps	Absolute maximum temperature	+	2·0°C
Amount of Cloud	—	0·1	,, minimum temperature	+	1·7°C
Greatest Rainfall intensity at Vacoas. ...					

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of SEPTEMBER 1937.

Month and Day 1937.	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 (Saturation=100). Mean	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration	Amount of Evaporation.	Mean Amount of Cloud (Scale 0–10)
SEPT.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C			mbs.	°C	mms.	min	mms.	
1	1014·9	+ 0·6	23·2	18·4	4·8	20·3	0·0	1·7	17·3	+ 2·0	83	+ 10	19·6	17·0	4·5	220	3·9	7·0
2	1014·5	+ 0·3	24·3	18·4	5·9	21·0	+ 0·7	2·6	16·4	+ 1·1	75	+ 2	18·5	17·7	2·4	85	3·4	6·5
3	1014·3	+ 0·1	24·7	17·2	7·5	20·6	+ 0·3	2·6	16·0	+ 0·7	75	+ 2	18·0	16·5	0·0	...	3·9	3·4
4	1013·1	− 1·0	25·1	16·3	8·8	20·4	0·0	2·7	15·6	+ 0·2	74	+ 1	17·6	14·3	0·0	...	4·2	3·1
5	1012·4	− 1·7	26·0	18·5	7·5	21·8	+ 1·4	2·6	17·2	+ 1·8	75	+ 2	19·4	17·8	0·0	...	5·4	4·8
6	1012·8	− 1·2	25·6	17·3	8·3	21·0	+ 0·6	2·9	15·9	+ 0·5	73	0	17·9	14·9	0·0	...	5·0	5·4
7	1013·6	− 0·4	25·0	18·0	7·0	20·7	+ 0·2	2·2	16·8	+ 1·3	78	+ 5	18·9	16·0	1·0	60	3·6	5·4
8	1014·3	+ 0·4	25·6	16·8	8·8	20·8	+ 0·3	3·2	15·1	− 0·2	70	− 2	17·0	14·0	0·0	...	4·9	2·0
9	1014·4	+ 0·5	24·1	17·0	7·1	20·3	− 0·2	2·0	16·7	+ 1·4	80	+ 8	18·8	15·0	1·2	10	4·6	4·6
10	1015·1	+ 1·3	25·5	18·0	7·5	21·5	+ 1·0	2·7	16·7	+ 1·4	74	+ 2	18·8	14·9	0·0	...	4·1	4·0
11	1017·1	+ 3·4	24·3	18·8	5·5	21·0	+ 0·4	3·2	15·3	− 0·1	70	− 2	17·2	18·2	0·0	...	6·3	3·1
12	1017·3	+ 3·6	23·1	17·1	6·0	19·6	− 1·0	2·8	14·5	− 0·9	73	+ 1	16·4	15·0	6·7	130	5·3	8·8
13	1015·5	+ 1·9	24·7	17·8	6·9	20·5	− 0·1	2·6	15·9	+ 0·5	75	+ 3	17·9	16·0	0·6	15	4·7	6·9
14	1015·0	+ 1·4	25·9	16·8	9·1	21·2	+ 0·5	2·9	16·1	+ 0·6	73	+ 1	18·1	15·0	0·4	20	5·3	4·2
15	1015·2	+ 1·6	24·9	18·0	6·9	21·2	+ 0·5	2·0	17·7	+ 2·2	81	+ 9	20·1	14·8	1·1	30	3·5	5·0
16	1013·9	+ 0·4	26·0	19·1	6·9	21·8	+ 1·0	2·1	18·1	+ 2·5	80	+ 8	20·6	17·8	1·6	65	5·7	8·5
17	1013·1	− 0·4	25·7	19·2	6·5	21·7	+ 0·9	2·9	16·6	+ 1·0	73	+ 1	18·7	18·2	2·1	45	5·1	5·5
18	1012·7	− 0·8	26·2	19·0	7·2	22·0	+ 1·2	2·9	16·9	+ 1·5	73	+ 1	19·0	17·0	0·2	10	5·5	5·3
19	1013·5	+ 0·1	26·2	19·3	6·9	22·2	+ 1·3	2·6	17·6	+ 2·1	75	+ 3	19·9	17·9	0·4	15	5·3	4·8
20	1013·9	+ 0·5	26·2	18·9	7·3	22·1	+ 1·2	2·9	17·0	+ 1·5	73	+ 1	19·2	18·0	0·0	...	5·9	4·1
21	1011·8	− 1·6	24·0	19·3	4·7	21·4	+ 0·4	1·8	18·2	+ 2·5	82	+ 10	20·7	16·2	7·6	95	4·3	9·3
22	1010·0	− 2·3	26·9	17·0	9·9	21·9	+ 0·9	2·7	16·9	+ 1·2	73	+ 2	19·0	13·0	0·0	...	3·5	4·9
23	1010·9	− 2·4	25·7	17·1	9·6	21·3	+ 0·3	1·9	17·9	+ 2·2	81	+ 10	20·3	14·8	5·0	130	4·9	7·8
24	1013·3	+ 0·1	26·2	19·4	6·8	22·1	+ 1·0	2·6	17·5	+ 1·9	75	+ 4	19·8	18·1	0·0	...	3·7	5·5
25	1013·7	+ 0·6	25·8	18·7	7·1	21·7	+ 0·6	2·7	16·9	+ 1·3	74	+ 3	19·0	16·0	0·4	15	5·7	5·3
26	1013·2	+ 0·1	25·8	19·1	6·7	21·9	+ 0·7	2·6	17·3	+ 1·6	75	+ 4	19·6	17·2	6·5	75	7·2	6·2
27	1011·7	− 1·3	24·2	18·8	5·4	21·2	0·0	2·2	17·3	+ 1·6	79	+ 8	19·6	16·6	0·2	10	5·2	6·8
28	1011·0	− 1·9	24·5	18·1	6·4	20·8	− 0·5	1·7	17·8	+ 2·0	83	+ 12	20·2	16·1	3·5	55	2·6	5·0
29	1012·2	− 0·6	26·0	16·5	9·5	21·0	− 0·3	2·6	16·4	+ 0·6	75	+ 4	18·5	15·0	0·5	20	5·7	4·6
30	1013·6	+ 0·8	25·0	18·2	6·8	20·9	− 0·5	3·5	14·5	+ 1·3	67	− 4	16·5	16·8	0·5	10	6·4	2·5
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	1013·6	0·0	25·3	18·1	7·2	21.2	+ 0·4	2·5	16·7	+ 1·2	75·6	+ 3·7	18·8	16·1	Sum 46·4	Sum 1115	4·8	5·1
Aver.	1013·6	...	25·1	17·0	8·1	20·8	...	2·9	15·5	...	71·9	...	17·5	13·7	35·3	808	4·0	5·2
column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

GENERAL WEATHER CONDITIONS DURING THE MONTH OF SEPTEMBER 1937.

Anticyclonic conditions prevailed throughout the month with the values of all elements around the normal figures.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of SEPTEMBER 1937

Month and Day 1937.	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.)
SEPTEMBER	hrs.	%	m.p.s.	m.p.s.	°C.	°C.	°C.	°C.	
1	5·7	49	5·4	+ 1·4	24·7	23·9	22·5	22·2	ber_0 : bc : cd_0 : bed_0 : cr_0r_0 : ber_0r_0
2	8·3	71	4·9	+ 0·9	24·7	23·7	22·5	22·2	or_0r_0 : bed_0 : bc
3	6·3	54	3·6	− 0·4	24·6	23·7	22·5	22·3	b : bc . c : b : b_0
4	10·9	93	3·4	− 0·6	24·9	23·8	22·5	22·4	b : bc : b
5	8·2	70	3·2	− 0·8	24·9	23·7	22·5	22·4	o : bc : b
6	5·7	49	2·4	− 1·6	24·7	23·7	22·6	22·7	b : bc : c
7	7·0	59	3·8	− 1·1	24·7	23·7	22.6	23·1	c : cr_0 : bc : b : b_0
8	11·1	94	3·0	− 0·9	24·6	23·7	22·7	23·1	b_0 : b : bc : b
9	3·3	28	2·3	− 1.6	24·6	23·7	22·8	23·1	b : bc : c : cr_0 : bc : b_0
10	9·3	79	4·2	+ 0·4	24·7	23·7	22·8	23·7	b : bc : b
11	10·9	92	5·8	+ 2·0	24·7	23·7	22·9	23·0	b : bc : b
12	4·9	41	4·4	+ 0·6	24·7	23·8	22·9	23·0	c : o : cq_0d_0 : oq_0r_0 : or_0
13	6·7	56	3·8	− 0·0	24·6	23·8	22·9	22·8	c : cr_0 : c : bc
14	10·2	86	3·4	− 0·3	24·7	23·7	22·9	23·0	b : cr_0 : bc : b : bc : ber_0
15	8·3	70	3·4	− 0·3	24·6	23·8	22·9	23·1	bc : cr_0 : ber_0 : bc : b
16	6·8	57	3·1	− 0·6	24·6	23·7	23·0	23·3	od_0 : or_0 : c : cr_0
17	11·0	92	3·8	+ 0·1	24·6	23·7	23·1	23·4	or_0 : c : bc : bed_0 : br_0
18	10·6	88	3·0	− 0·7	24·5	23·8	23·2	23·8	o : c : ber_0 : bc : b
19	10·2	85	3·9	+ 0·2	24·6	23·7	23·3	24·1	cd_0 : bc : bed_0 : bc : b
20	8·5	69	3·7	0·0	24·5	23·8	23·4	24·0	b : bc : c : bc : b : bc
21	0·1	1	2·7	− 1·0	24·4	23·7	23·5	24·0	c : cr_0 : c : or_0r_0 : og : c : o
22	9·2	77	1·6	− 2·1	24·5	23·7	23·5	23·8	bc : b : bc : c : bc : b
23	6·8	56	2·7	− 1·0	24·4	23·8	23·6	24·0	bc : c : cd_0 : or_0r_0 : o
24	10·8	89	3·7	+ 0·1	24·4	23·8	23·6	24·1	o : c : bc : b : bc
25	10·7	88	3·6	0·0	24·4	23·8	23·7	24·1	cd_0 : bc : bed_0 : b
26	8·0	66	4·0	+ 0·4	24·5	23·8	24·0	24·3	ber_0 : : bc : c : bc
27	2·2	18	3·2	− 0·4	24·6	23·9	23·8	24·3	c : cd_0 : bc : b
28	5·4	44	2·5	− 1·1	24·4	23·9	23·9	24·1	b : cr_0 : cd_0 : cgd_0 : bc : b
29	10·2	84	3·9	+ 0·3	24·4	23·9	23·9	24·0	b : bc : bcq_0 : $bccd_0$ b
30	10·7	88	4·3	+ 0·7	24·4	23·9	23·9	24·1	b : bd_0 : bc b
...	...	...	...	...	...	...	...	...	.....
Mean	7·93	66·4	3·52	−0.25	24·59	23·77	23·13	23·38	.....
Average	7·98	66·9	3·77	...	24·59	23·71	22·68	22.86	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF SEPTEMBER 1937.

Element	Highest			Date	Lowest			Date
Atmospheric Pressure	1019·0mbs.	at	09·00hrs.	on 12th	1008·0mbs.	at	15 & 16hrs.	on 22nd
Temperature of the Air	26·9°C	at	12·45hrs.	on 22nd	16·3°C	at	02·10hrs	on 4th
Daily range of temperature of the Air ...	9·9°C		...	on 22nd	4·7°C		...	on 21st
Temperature of the Dew Point	20·3°C	at	11·00hrs.	on 21st	10·5°C	at	06·00hrs.	on 12th
Daily range of temperature of the Dew Point	6·7°C		...	on 12th	1·6°C		...	on 5th
Minimum on Grass	...		...	...	13·0°C		...	on 29th
Relative humidity	96·7%	at	06·00hrs.	on 28th	49·8%	at	14·00hrs.	on 30th
Vapour Pressure	23·6mbs.	at	11·00hrs.	on 21st	12·6mbs.	at	06·00hrs.	on 12th
Evaporation in 24 hours	7·2mms.		...	on 26th	2·6mms.		...	on 28th
Wind Velocity	9·2m.p.s	at	13·00hrs.	on 11th	0.6m.p.s.	at	19·00hrs. 08·00hrs.	on 9th on 22th
Rainfall in 24 hours	7·6mms.	ending	12hrs.	on 21st	...		...	...
Duration of sunshine	11·1hrs.		...	on 8th	0·1hr.		...	on 21st

Mean Day Temperature of Air, 23·00°C Average 22·91°C Mean Night Temperature of Air 19·40°C. Average 18·63°C.

NUMBER OF DAYS OF:—

Mean Cloud Amount: 0	1 — 3	4 — 6	7 — 9	10	Rainfall: 0.1 — 0.9 mms.	1.0 — 4.4 mms.	5.0 — 9.9 mms.	10.0 — 24.9 mms.	25.0 and over mms.	Lightning	Thunderstorm
...	5	18	7	...	8	8	4	...	...	...	...

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.)

SEPTEMBER 1937.

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
Midnight	160	151	150	149	133	131	139	149	150	151	169	181	168	159	157	149	Midnight
1	156	152	142	141	131	130	132	143	149	150	165	180	163	153	153	141	1h
2	154	149	140	138	130	124	130	140	145	147	161	173	160	151	151	140	2
3	150	146	138	132	123	121	130	138	141	141	160	171	153	146	150	136	3
4	150	142	138	130	121	120	130	136	141	141	160	170	152	142	149	133	4
5	151	144	139	130	121	120	131	140	141	142	161	171	152	145	151	140	5
6	151	149	141	131	127	122	139	143	145	146	166	172	157	149	156	143	6
7	156	152	147	140	130	130	139	148	150	153	172	179	160	152	160	149	7
8	161	154	150	142	131	137	141	151	151	156	179	189	165	159	163	150	8
9	165	156	155	144	134	141	144	152	158	159	180	190	169	161	164	150	9
10	161	152	156	141	135	141	144	154	156	160	180	189	166	161	166	150	10
11	158	149	151	137	125	137	141	150	151	156	179	181	162	160	162	145	11
Noon	150	143	147	129	119	127	132	143	144	151	171	178	152	150	156	140	Noon
13h	141	140	140	121	112	122	125	140	140	144	166	171	149	141	147	130	13h
14	135	132	130	116	110	119	121	133	133	141	160	165	141	139	141	120	14
15	131	130	129	113	107	114	120	130	130	140	160	160	137	134	139	117	15
16	131	130	130	113	109	114	123	130	130	140	160	160	140	136	139	120	16
17	136	130	132	117	110	117	128	130	132	143	161	161	144	141	141	123	17
18	140	133	139	120	113	121	132	135	137	149	170	161	150	146	145	130	18
19	143	141	141	130	120	130	140	141	141	153	173	167	152	150	150	139	19
20	149	144	149	131	129	137	146	148	147	160	180	169	158	156	151	141	20
21	151	150	151	137	131	140	151	152	151	165	186	171	160	160	156	150	21
22	155	152	151	139	135	141	151	150	151	167	187	170	160	161	158	150	22
23	153	151	150	138	134	140	150	150	152	168	185	170	159	160	151	149	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. / Hour.
Midnight	142	132	138	149	139	118	107	127	146	141	131	110	120	131	...	1014·3	Midnight
1h	139	130	133	148	131	113	101	126	141	140	130	109	117	129	...	1013·9	1h
2	133	125	130	144	130	110	099	124	140	136	125	103	112	126	...	1013·6	2
3	130	121	127	140	125	101	096	125	137	132	122	102	110	122	...	1013·2	3
4	130	120	125	140	121	099	096	125	134	121	121	105	110	124	...	1013.1	4
5	132	120	128	141	121	099	099	129	137	131	122	105	111	130	...	1013·2	5
6	138	126	131	143	121	101	101	131	141	134	126	110	120	139	...	1013·7	6
7	141	131	137	149	125	106	105	133	146	139	130	115	124	143	...	1014·1	7
8	141	138	141	151	130	110	110	138	146	141	131	120	130	150	...	1014·5	8
9	145	141	142	152	131	110	111	140	145	143	131	120	133	151	...	1014·7	9
10	141	140	142	151	130	106	111	139	140	141	132	121	132	150	...	1014·6	10
11	139	132	140	145	122	101	110	136	140	137	128	120	130	143	...	1014·2	11
Noon	130	123	131	139	113	091	101	130	131	130	119	111	121	140	...	1013·5	Noon
13h	120	119	130	132	109	089	101	129	127	126	110	102	116	131	...	1012·9	13h
14	113	111	126	127	101	086	098	123	121	121	102	095	110	123	...	1012·3	14
15	110	110	121	121	099	080	096	120	120	118	100	091	110	121	...	1012·0	15
16	110	111	124	120	100	080	101	120	121	119	100	091	111	121	...	1012·1	16
17	112	113	130	121	100	082	110	121	124	120	101	099	116	128	...	1012·4	17
18	120	120	133	126	101	090	117	127	131	121	101	102	121	131	...	1012·9	18
19	127	127	141	130	109	099	119	136	136	130	109	114	129	140	...	1013·5	19
20	132	130	146	140	116	104	121	143	140	133	111	120	131	147	...	1014·0	20
21	140	137	150	143	120	110	128	150	147	140	113	122	140	151	...	1014·5	21
22	140	139	151	142	120	110	130	150	148	140	112	123	140	150	...	1014·6	22
23	136	140	149	141	120	110	130	150	145	136	112	122	136	150	...	1014·5	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	SEPTEMBER 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	...	Mean
Midnight	8	10	2	0	4	1	8	0	1	1	1	4	10	3	6	5	10	10	5	1	7	10	5	10	6	6	8	1	1	3	...	4·9
1h	4	10	3	0	7	1	9	0	1	1	1	6	9	1	5	5	10	10	7	1	8	10	5	10	8	8	7	1	1	3	...	5·1
2	7	10	3	1	8	1	9	0	2	1	2	9	8	1	6	7	10	10	9	1	9	7	3	10	10	9	9	2	1	2	...	5·6
3	4	10	2	1	9	1	10	0	2	1	2	10	10	1	7	10	8	10	8	1	9	3	4	10	9	4	9	2	1	2	...	5·3
4	3	9	3	1	9	1	10	0	2	1	1	10	9	1	4	10	7	10	8	1	9	1	5	10	9	4	9	2	1	3	...	5·1
5	8	7	4	1	9	1	9	1	3	3	2	10	9	8	3	10	8	7	7	1	9	1	8	7	7	8	8	3	5	3	...	5·7
6	7	5	5	1	8	1	9	1	7	4	3	10	8	9	3	10	8	5	6	2	9	1	8	3	5	7	8	2	8	3	...	5·5
7	6	7	4	3	7	5	8	2	7	6	4	9	8	8	4	9	5	5	6	4	9	2	7	4	5	6	7	5	6	4	...	5·7
8	4	8	4	5	5	8	8	2	8	6	5	8	8	7	5	8	4	4	6	6	8	2	6	4	4	6	6	10	4	5	...	5·9
9	7	6	5	6	8	9	8	3	9	5	5	8	9	6	6	7	4	7	7	8	10	3	5	8	5	6	9	10	6	5	...	6·7
10	6	5	9	7	6	6	8	3	8	6	5	8	7	7	8	6	5	7	6	8	10	5	7	7	4	6	10	9	7	4	...	6·7
11	9	4	7	7	4	5	9	5	9	7	5	9	8	6	8	8	6	4	5	8	10	5	8	6	6	5	10	9	7	4	...	6·8
Noon	10	5	8	6	3	5	7	4	9	8	5	8	7	6	9	9	5	4	5	7	10	5	8	7	6	4	9	9	6	4	...	6·6
13h	10	4	8	5	4	6	4	5	8	7	4	8	6	4	8	8	5	3	6	8	10	5	10	6	6	5	9	8	3	4	...	6·2
14	7	4	5	6	5	8	5	4	8	7	4	7	6	4	7	8	5	3	6	5	9	6	7	5	4	4	9	8	3	1	...	5·7
15	9	6	3	3	4	8	4	4	8	5	3	7	4	2	7	9	4	4	6	4	9	6	8	4	3	5	10	9	4	1	...	5·4
16	6	7	3	3	4	7	3	1	6	4	3	9	4	1	8	8	3	4	6	4	9	7	9	3	6	9	9	9	6	1	...	5·4
17	8	8	2	3	5	8	2	1	8	5	3	10	6	2	6	9	5	3	3	4	9	8	10	2	4	8	8	8	9	1	...	5·6
18	5	7	2	3	2	8	2	1	4	5	2	10	4	2	3	9	4	3	1	3	9	9	10	2	4	7	6	6	9	1	...	4·8
19	10	8	1	2	1	7	1	2	0	3	3	9	2	3	2	9	5	3	1	3	9	9	10	3	8	6	2	2	9	1	...	4·5
20	8	5	0	2	1	6	0	2	0	3	3	10	5	4	2	9	5	4	1	3	10	8	10	3	3	6	2	2	5	1	...	4·1
21	6	6	0	2	1	8	0	2	0	2	2	10	8	5	1	9	3	4	1	3	10	3	10	3	2	6	2	2	2	1	...	3·8
22	5	4	0	1	1	8	0	2	0	2	2	10	7	4	1	10	2	3	1	4	10	3	10	4	2	5	1	1	2	1	...	3·5
23	7	4	0	3	1	8	0	1	0	2	2	10	7	6	1	10	2	2	1	5	10	2	10	4	2	7	1	1	3	1	...	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.	SEPTEMBER 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	...	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
7	4	0	6	27	16	5	0	31	35	0	32	0	0	0	38	16	25	25	4	8	0	42	47	27	30	0	0	26	46	12	...	8·3
8	48	18	31	60	46	30	5	60	47	50	48	6	14	35	59	60	60	58	44	34	7	60	60	60	59	43	48	59	60	48	...	22·0
9	36	52	43	60	16	0	23	60	12	60	60	17	20	55	59	60	60	50	53	12	0	60	60	43	57	45	53	13	59	60	...	21·0
10	59	60	20	60	0	17	19	60	0	60	60	26	59	55	42	60	60	54	60	17	0	60	47	60	60	60	10	0	60	60	...	21·1
11	60	60	9	57	58	60	13	60	0	60	60	26	46	60	12	58	60	60	60	56	0	42	40	51	60	60	7	0	60	60	...	21·9
Noon	32	60	0	60	60	60	35	60	3	28	60	8	20	60	30	22	60	60	60	60	0	56	46	60	60	60	0	0	60	60	...	20·7
13h	17	60	3	60	60	60	60	60	3	60	60	59	22	60	53	28	60	60	60	43	0	58	23	60	60	60	2	43	60	60	...	22·9
14	12	60	57	60	60	55	58	60	0	57	60	43	17	60	57	48	60	60	60	50	0	23	10	60	60	60	0	40	60	60	...	22·8
15	31	60	60	60	60	30	60	60	1	60	60	57	55	60	45	23	60	59	60	60	0	54	48	60	60	60	13	34	60	60	...	24·5
16	3	45	60	60	35	9	60	60	53	60	60	50	60	60	53	22	60	60	60	60	0	22	28	60	57	28	0	13	52	60	...	21·8
17	42	15	60	60	60	6	60	60	23	60	60	0	52	60	23	4	60	60	60	60	0	48	0	60	59	0	0	56	27	60	...	19·9
18	0	6	28	31	23	11	25	33	23	5	31	0	35	45	30	6	35	29	32	40	0	26	0	45	18	6	0	40	6	46	...	10·9
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	...	0·0

The total Amount of Registered Sunshine was 237·8 hrs. and the total possible sunshine was 358·0 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)

SEPTEMBER 1937.

Day. / Hour.	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	19·0	1·2	19·9	1·0	20·2	2·1	17·3	1·4	19·8	0·8	18·7	1·4	18·9	1·2	18·3	1·2	Midnight
1h	18·6	1·4	19·3	0·8	20·1	2·1	16·8	1·4	19·6	1·0	18·7	1·5	18·7	1·0	18·2	1·1	1h
2	18·8	1·0	19·4	1·3	19·7	1·7	16·3	1·1	19·3	1·1	18·5	1·4	18·0	1·0	18·7	1·5	2
3	18·9	1·3	19·3	0·7	19·2	1·3	17·1	1.1	19·3	1·1	18·5	1·4	19·1	1·0	18·7	1·6	3
4	18·9	1·8	19·3	1·1	19·0	1·1	17·2	0·9	19·9	1·3	18·0	1·2	19·0	2·2	18·3	1·5	4
5	18·9	1·6	19·2	1·2	18·9	1·3	17·4	1·0	19·7	1·1	18·1	1·3	18·2	1·3	17·0	1·2	5
6	19·0	1·7	18·9	1·4	18·8	1·3	18·0	1·1	19·6	0·9	18·0	1·2	18·6	1·3	17·0	1·0	6
7	19·3	2·1	18·6	1·5	19·4	1·4	19·0	1·9	20·9	0·8	17·4	1·0	19·0	1·0	19·8	2·3	7
8	20·5	2·4	19·2	1·5	21·1	2·4	21·4	2·6	23·0	2·9	19·6	2·0	20·3	1·2	21·8	3·4	8
9	21·7	2·6	20·2	1·4	22·9	3·3	22·4	3·8	23·0	3·0	20·9	2·7	21·3	1·3	22·9	4·0	9
10	22·1	3·1	22·6	3·6	21·6	2·3	23·3	4·5	24·1	4·1	23·9	4·7	22·0	1·4	23·6	4·8	10
11	22·8	3·6	23·4	4·0	23·0	3·7	23·4	4·4	25·2	4·6	24.9	5·8	21·8	1·7	24·6	5·4	11
Noon	21·1	1·9	23·7	4·5	23·0	3·9	23·9	5·0	25·2	4·9	25·2	5·7	23·8	3·9	25·0	6·0	Noon
13h	21·2	1·2	24·0	4·8	23·7	4·2	24·9	5·9	25·5	4·7	25·3	5·3	24·8	5·0	24·9	5·9	13h
14	22·0	2·2	24·1	4·9	24·1	4·7	24·6	5·1	25·2	4·6	25·1	5·3	24·2	4·6	24·9	5·8	14
15	21·9	2·0	23·3	4·2	23·9	5·0	24·1	5·1	25·0	4·8	24·0	4·1	24·2	4·9	24·5	5·5	15
16	21·4	1·7	22·8	3·8	23·5	4·6	23·8	5·4	24·0	3·7	24·0	4·9	23·8	4·7	24·1	5·9	16
17	21·1	1·7	22·0	3·3	22·3	4·2	22·6	4·5	23·2	3·6	23·1	4·9	23·0	4·0	23·0	5·0	17
18	20·8	1·6	21·2	3·1	20·7	3·0	21·2	3·0	22·0	2·8	22·3	4·0	21·3	2·5	21·0	3·8	18
19	20·1	0·9	20·8	2·8	19·1	2·1	20·1	2·1	21·0	2·0	21·6	3·1	19·6	1·7	19·5	2·5	19
20	20·0	0·9	20·7	2·8	18·6	1·8	19·1	1·7	19·9	1·6	20·6	2·2	19·2	1·2	19·1	2·2	20
21	19·9	0·9	20·8	2·5	18·0	1·8	19·0	1·5	19·6	1·5	20·0	1·7	19·3	1·4	18·4	1·5	21
22	19·7	1·0	20·5	2·4	18·0	1·9	19·0	1·4	19·8	1·7	19·1	1·1	19·1	1·2	18·5	1·8	22
23	19·8	0·8	20·6	2·4	17·8	1·7	19·0	1·1	18·9	1·2	18·9	1·2	18·9	1·6	18·0	1·7	23

Day. / Hour.	9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air	Excess of Air over Evap.	
Midnight	19·1	1·6	18·9	1·4	20·0	1·5	19·0	3·3	18·1	1·1	18·4	1·2	19·9	1·0	19·9	0·9	Midnight
1h	18·9	1·3	19·0	1·5	20·0	1·9	18·4	2·4	18·1	1·0	18·2	1·2	20·0	1·2	19·9	1·2	1h
2	18·8	1·2	19·0	1·8	20·0	2·0	17·1	2·3	18·0	0·9	18·0	1·2	19·0	1·0	20·1	1·1	2
3	18·1	1·0	19·0	2·0	20·0	2·0	18·2	1·6	18·2	0·9	17·9	1·3	18·6	0·9	19·9	1·1	3
4	17·1	0·9	18·6	1·5	19·9	3·0	18·9	4·0	18·2	0·8	17·6	1·0	18·2	0·9	19·9	0·9	4
5	17·8	0·9	19·0	1·6	19·5	1·7	19·1	3.9	18·4	1·3	17·3	1·0	18·1	1·0	19·6	0·7	5
6	18·9	1·0	19·5	1·5	19·4	2·0	19·7	5·1	18·7	1·7	17·0	1·0	18·2	0·8	19·5	0·6	6
7	19·9	1·1	20·0	1·8	20·2	2·1	19·8	5·0	18·9	1·2	17·6	1·1	20·2	2·2	19·9	0·6	7
8	21·1	2·1	21·4	2·4	21·0	2·9	18·2	1.4	21·0	2·5	21·1	2·3	22·0	2·0	22·7	1·9	8
9	20·0	1·4	23·3	3·5	22·8	4·0	20·0	1·9	21·3	2·3	23·5	4·5	23·6	3·6	23·3	2·7	9
10	22·0	2·1	24·1	4·1	23·0	4·1	21·1	3·8	22·9	4·4	24·3	5·2	23·9	3·8	24·3	3·6	10
11	23·1	3·4	25·0	4·8	23·3	4·8	21·7	3·7	21·1	3·0	25·1	6·0	22·3	1·8	24·9	4·2	11
Noon	23·4	3·4	24·1	4·1	23·9	5·2	21·7	4.0	23·0	3·8	25·3	5·8	21·2	1·2	23·6	3·0	Noon
13h	21·7	1·8	25·0	5.0	23·5	5·4	22·9	4·8	23·9	5·9	25·1	5·2	24·1	4·0	24·1	3·2	13h
14	23·0	3·1	24·6	4·8	23·7	5·7	22·6	4·6	24·0	6·0	25·3	5·3	24·4	4·2	25·8	5·4	14
15	23·2	4·2	24·3	4·7	23·1	5·1	22·3	4·5	24·0	5·9	25·0	5·1	24·0	3·8	22·6	4·1	15
16	23·9	4·6	24·0	4·9	22·4	4·3	21·8	3·9	23·3	5·4	24·2	5·2	24·0	3·9	23·7	3·5	16
17	22·3	3·3	22·9	3·7	21·5	4·0	18·8	0·9	22·4	4·3	23·2	4·6	22·9	3·6	22·2	1·9	17
18	21·1	2·5	21·2	2·2	20·3	3·3	18·0	1·1	21·3	3·2	21·9	3·0	21·9	2·0	21·7	1·7	18
19	19·1	1·9	20·9	1·9	20·0	3.0	18·3	0·6	20·1	2·0	20·9	1·8	21·2	1·5	21·0	1·7	19
20	18·9	1·6	20·7	1·7	19·9	2·9	18·0	1·0	19·4	1·4	20·7	1·5	21·0	1·5	20·7	1·9	20
21	18·6	1·4	20·5	1·7	19·9	2·8	18·2	1·0	19·1	1·2	19·9	1·0	20·6	1·3	20·4	1·2	21
22	18·2	1·0	20·1	1·2	19·3	2·6	18·6	0·9	18·9	1·0	20·0	1·1	20·5	1·2	19·9	1·0	22
23	18·2	1·0	20·1	1·4	18·9	2·9	19·0	1·0	18·7	1·0	20·0	1·4	20·0	0·9	20·0	0·9	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add 273*)

SEPTEMBER 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	20·0	1·0	19·7	1·1	20·0	1·0	20.6	1·6	19·3	1·1	20·8	1·7	19·1	1·1	20·5	1·0	Midnight
1h	20·1	0·9	19·5	1·3	20·7	1·5	20·6	1·6	20·0	1·1	20·7	1·5	18·3	1·1	20·6	0·8	1h
2	19·7	1·0	19·7	1·0	20·2	1·0	20·6	1·5	20·6	1·4	20·1	1·3	18·6	1·4	20·7	0·8	2
3	19·6	1·5	19·8	1·1	20·0	0·9	20·4	1·3	20·0	1·4	19·2	1·2	18·0	1·1	20·2	1·1	3
4	19·8	1·7	19·6	1·3	20·0	1·0	20·3	1·0	20·4	1·4	18·3	1·1	17·3	1·1	20·0	1·0	4
5	19·9	1·8	19·1	1·1	19·9	0·9	20·1	0·9	19·8	1·0	17·3	0·9	17·8	0·9	20·0	1·1	5
6	19·9	2·3	19·1	1·2	19·5	0·8	20·1	1·0	19·8	0·8	17·2	1·0	18·8	1·2	20·1	1·2	6
7	20·4	3·2	20·1	1·8	20·0	1·0	21·0	1·2	21·0	2·0	18·9	1·0	20·0	0·8	20·9	1·3	7
8	22·3	3·5	22·5	2·7	21·8	1·7	23·0	2·4	23·0	1·9	22·1	2·8	23·1	2·9	22·6	2·5	8
9	23·7	4·7	23·1	3·1	23·6	2·6	23·6	3·6	21·9	1·8	23·9	4·1	24·7	3·9	22·9	2·0	9
10	24·0	5·0	24·1	4·1	24·5	4·3	24·0	2·0	20·8	0·8	25·2	5·6	25·1	4·1	24.9	4·4	10
11	24·7	5·4	25·2	5·2	25·4	5·0	25·3	5·0	21·7	0·8	25·4	4·5	26·3	5·2	24·6	4·0	11
Noon	24·9	5·7	25·7	5·6	25·9	5·2	26.0	6·4	22·4	1·6	26·1	4·8	26·2	4·6	25·7	5·3	Noon
13h	25·1	5·8	25·9	6·1	25·7	5·2	25·0	5·5	23·5	2·5	25·7	4·7	22·3	1·8	25·8	5·5	13h
14	24·7	5·2	25·7	5·8	25·6	5·3	25·1	5·6	23·3	3·0	25·0	4·0	24·7	3·7	25·7	5·7	14
15	24·8	5·3	25·1	5·4	25·1	4·9	25·0	5·4	234·	3·4	25·3	4·5	24.9	4·0	25·1	5·5	15
16	24·0	5·0	24·6	5·0	24·6	4·9	24·8	5·2	23·1	3·1	25·0	4·4	21·5	1·4	24·7	5·6	16
17	23·0	4·0	23·6	4·2	23·5	3·7	23·5	4·1	22·9	2·8	24·7	4·2	21·0	0·9	23·3	4·2	17
18	21·9	2·8	22·1	3·0	22·2	2·6	22·0	3·6	22·1	2·1	23·0	2·8	20·4	0·5	22·1	3·0	18
19	20·7	1·7	20·9	1·7	21·2	2·0	21·1	2·3	21·5	1·6	21·2	1·7	20·1	0·9	21·1	2·1	19
20	20·0	1·0	21·0	1·8	21·0	2·0	20·3	2·0	21·1	1·7	20·3	1·4	20·8	0·9	20·2	1·6	20
21	19·9	1·2	20·9	1·9	20·7	1·8	19·8	1·8	20·9	1·8	20·6	2·6	21·0	0·9	20·2	1·6	21
22	19·4	1·2	20·3	1·4	20·4	1·4	19·2	1·2	20·6	1·6	20·7	2·5	21·0	1·0	20·0	1·7	22
23	19·3	1.2	19·9	1·0	20·7	1·6	19·1	1·1	20·4	1·5	20·0	2·0	20·2	0·6	19·6	1·5	23

Day. / Hour	25d.		26d.		27d.		28d.		29d		30d		...		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	19·4	1·3	20·0	1·2	20·0	1·7	20·4	1·4	18·8	1·3	19·2	1·6	...	...	19·4	1·3	Midnight
1h	19·2	1·3	19·7	1·5	19·6	1·7	19·8	1·0	18·3	1·2	19·2	1·5	...	...	19·3	1·3	1h
2	19·9	1·4	19·9	1·3	19·6	1·9	19·8	1·0	18·2	1·2	19·1	1·4	...	...	19·2	1·3	2
3	19·4	1·3	19·6	1·0	19·0	1·6	19·8	0·9	18·2	1·3	19·2	1·3	...	...	19·1	1·2	3
4	19·2	1·2	19·2	1·1	19·7	1·8	19·0	0·8	17·1	1·1	19·0	1·2	...	...	18·9	1·3	4
5	18·9	1·0	19·6	1·4	18·9	1·2	19·0	0·8	16·8	1·2	19·0	1·4	...	...	18·7	1·2	5
6	18·9	1·3	19.1	1·1	19·1	1·1	18·2	0·3	17·2	1·0	19·0	1·2	...	...	18·8	1.3	6
7	20·0	1·3	20·0	1·0	20·0	1·5	20·0	0·7	19·4	0·9	19·5	1·5	...	...	19·7	1·5	7
8	22·4	3·1	22·1	2·2	22·2	2·9	22·2	2·3	22·6	3·6	21·9	3·9	...	...	21·6	2·5	8
9	23·1	3.8	22·7	2·7	23·0	3·1	19·8	0·8	23·9	4·3	22·8	4·9	...	...	22·5	3·0	9
10	24·7	4·7	24·0	3·8	22·0	2·1	20·2	1·2	24·8	5·0	23·2	5·9	...	...	23·3	3·8	10
11	24·7	4·9	25·1	4·9	22·2	2·5	22·0	1·9	24·8	5·1	23·7	6·1	...	...	23·9	4·2	11
Noon	35·1	5·4	25·2	5·2	22·9	3·0	22·2	1·7	25·1	5·3	24·0	6·2	...	...	24.2	4·5	Noon
13h	25·2	5·2	25·2	5·2	23·9	3·8	22·9	2·6	25·1	6·0	24·1	6·2	...	...	24·3	4·6	13h
14	25·6	5·4	24·8	4·7	22·6	2·0	24·1	3·4	25·3	5·4	24·2	6·5	...	...	24·5	4·8	14
15	25·1	5·4	24·7	4·6	23·7	3·5	24·6	3·4	25·0	5·0	24·0	5·8	...	...	24.2	4·6	15
16	24·2	4·5	24·1	4·1	23·6	3·6	23·9	2·9	23·2	3·3	23·5	5·7	...	...	23·7	4·3	16
17	23·0	3·7	23·2	3·5	22·8	3·5	23·2	3·6	21·1	1·5	22·4	5·2	...	...	22·6	3·6	17
18	20·3	1·5	22·1	2·5	21·6	2·4	21·8	2·9	20·0	1·2	21·0	4·1	...	...	21·4	2·6	18
19	20·7	1·7	21·2	2·1	20·6	1·8	20·3	2·1	19·9	1·1	19·0	2·9	...	...	20·4	1·9	19
20	20.5	2·0	20·9	1·9	20·2	1·6	19·6	1·7	19·9	1·7	18·7	2·6	...	...	20·0	1·7	20
21	20·3	1·2	21·1	2·0	20·5	1·6	18·9	1·7	19·8	1·8	18·6	2·5	...	...	19·8	1·6	21
22	20·1	1·1	21·0	2.0	20·1	1·3	19·3	1·6	19·3	1·4	19·0	2·8	...	...	19·7	1·5	22
23	20·0	1·1	20·3	1·6	20·0	1·0	19·1	1·3	19·3	1·6	19·0	3·0	...	...	19·5	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 SEPTEMBER 1937.

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

The Velocities are given in Metres per second, using the factor 2·2.

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

SEPTEMBER 1937

Hour.	1d Dir.	1d Vel.	2d Dir.	2d Vel.	3d Dir.	3d Vel.	4d Dir.	4d Vel.	5d Dir.	5d Vel.	6d Dir.	6d Vel.	7d Dir.	7d Vel.	8d Dir.	8d Vel.	9d Dir.	9d Vel.	10d Dir.	10d Vel.	11d Dir.	11d Vel.	12d Dir.	12d Vel.	13d Dir.	13d Vel.	14d Dir.	14d Vel.	15d Dir.	15d Vel.	16d Dir.	16d Vel.
Midnight	09	4·2	09	5·4	09	4·5	09	2·2	11	2·1	08	3·2	10	2·1	10	2·3	11	2·2	11	2·5	10	4·0	11	3·9	09	2·2	10	2·2	09	1·8	11	2·8
1h	10	4·3	07	4·1	09	3·8	09	1·4	11	2·1	08	2·7	11	1·7	10	2·2	11	1·7	12	2·3	10	3·3	11	3·7	08	2·7	10	2·1	10	1·8	10	2·8
2	10	4·4	10	3·7	09	3·1	09	1·4	10	2·0	08	2·2	11	1·4	10	2·2	11	2·1	12	2·6	11	4·4	11	2·5	09	2·0	10	1·8	09	1·8	12	1·8
3	10	4·9	07	3·8	09	2·5	10	1·9	10	1·9	08	1·3	11	2·2	10	2·4	11	1·9	12	2·1	12	4·1	09	2·6	11	2·3	10	3·0	09	1·8	12	1·7
4	10	5·1	08	4·2	09	2·4	10	1·7	11	2·8	09	1·0	13	4·3	10	2·6	11	2·2	11	2·1	10	4·4	11	3·7	10	2·1	10	3·2	09	1·8	12	1·8
5	09	5·5	09	3·8	09	2·0	10	1·8	11	1·8	09	1·2	11	2.0	10	1·7	11	1·9	13	2·5	11	3·9	11	3·3	08	2·9	10	2·4	10	1·7	12	2·0
6	10	5·4	10	3·5	09	2·6	10	1·8	11	1·5	10	3·1	10	2·3	10	1·5	11	1·1	12	2·8	11	4·4	11	4·0	08	3·0	06	1·6	09	2·6	12	1·5
7	10	5·5	10	3·6	09	2·9	10	1·8	10	2·9	10	1·8	04	1·4	10	3·0	11	2·7	12	2·7	11	4·7	10	4·0	09	3·6	10	1·7	10	2·7	12	1·0
8	10	5·9	10	4·5	09	4·3	11	3·6	08	3·4	10	3·1	04	1·6	11	4·0	12	3·1	10	3·4	11	5·4	11	5·0	08	5·1	10	3·2	10	3·6	11	2·8
9	10	7·4	08	6·1	08	4·5	09	5·3	08	3·5	10	1·6	04	1·1	11	5·1	09	3·3	12	5·0	09	7·7	11	4·3	09	6·0	08	4·1	10	4·4	09	4·2
10	10	5·8	08	6·2	07	4·3	08	5·5	08	4·2	07	3·1	09	1·8	11	4·1	11	2·0	12	6·5	10	8·6	09	5·0	07	5·7	05	4·9	09	4·4	09	4·0
11	10	7·0	09	6·2	08	4·1	10	5·9	07	4·7	06	3·7	11	3·6	11	4·0	08	2·8	11	6·0	12	8·6	07	5·1	06	5·3	08	4·6	10	4·0	09	4·1
Noon	10	6·3	08	6·1	08	4·8	09	5·6	06	4·8	04	3·4	10	4·4	09	3·6	05	3·9	12	6·4	12	8·8	09	6·3	11	4·5	09	4·7	10	4·0	09	4·1
13h	09	6·3	09	6·0	06	4·4	06	5·6	06	5·1	06	4·1	09	5·4	09	4·3	13	2·9	11	6·5	10	9·2	10	7·2	08	5·5	08	4·9	09	4·9	08	4·4
14	11	6·5	10	5·6	08	5·6	11	5·3	07	4·7	07	3·3	09	4·6	10	4·1	12	2·8	10	5·7	10	9·0	10	6·6	08	5·8	08	4·8	09	5·0	08	4·2
15	11	6·1	07	5·3	09	5·5	09	5·3	07	4·9	07	4·0	11	5·0	12	4·2	11	2·9	11	6·9	10	8·2	10	6·3	10	5·9	09	5·0	08	5·0	08	4·2
16	10	6·0	10	5·7	09	5·5	09	4·9	07	4·4	05	3·5	10	5·0	10	3·9	10	4·0	11	6·2	11	8·2	10	6·7	10	5·6	10	4·9	09	5·4	10	4·8
17	09	6·5	09	5·6	08	5·5	10	4·9	07	4·8	06	2·2	09	3·9	09	3·7	11	3·2	11	4·9	11	7·1	11	4·4	10	5·4	09	4·5	10	5·0	11	3·7
18	10	5·2	09	4·8	09	2·6	09	3·8	08	3·3	07	1·2	09	2·8	11	2·6	11	1·9	10	6·0	11	5·1	09	3·7	11	3·4	09	3·2	09	4·4	10	3·9
19	09	4·3	09	4·4	10	2·1	10	2·7	08	2·8	07	1·9	10	2·7	11	1·9	11	0·6	11	3·7	11	3·3	07	3·3	11	2·5	10	3·2	10	4·0	09	3·2
20	09	5·1	09	4·5	09	1·6	10	2·5	08	2·4	07	1·1	10	2·3	11	2·5	11	1·2	10	3·0	11	4·0	11	3·7	11	2·6	11	2·8	09	3·4	09	3·2
21	09	3·4	09	4·3	09	2·0	10	2·8	08	2·6	07	1·4	11	1·9	11	2·3	11	1·5	10	4·1	10	4·6	11	2·9	11	2·0	10	3·3	09	3·1	10	3·0
22	10	4·4	08	4·4	09	2·3	10	2·3	08	2·1	10	1·2	11	2·1	11	2·2	11	1·8	11	3·7	10	3·9	11	3·3	11	2·2	10	2·2	11	2·8	11	2·5
23	11	5·0	09	4·3	09	2·5	10	2·2	09	2·1	10	1·5	11	2·1	11	2·7	11	1·8	12	4·0	11	3·5	10	2·8	10	2·1	10	2·1	10	2·2	09	2·1

Hour.	17d Dir.	17d Vel.	18d Dir.	18d Vel.	19d Dir.	19d Vel.	20d Dir.	20d Vel.	21d Dir.	21d Vel.	22d * Dir.	22d * Vel.	23d Dir.	23d Vel.	24d Dir.	24d Vel.	25d Dir.	25d Vel.	26d Dir.	26d Vel.	27d Dir.	27d Vel.	28d Dir.	28d Vel.	29d Dir.	29d Vel.	30d Dir.	30d Vel.	... Dir.	... Vel.	Mean Velocity
Midnight	09	3·1	11	1·9	10	3·3	10	3·3	11	1·8	09	1·2	12	1·7	10	2·1	11	1·5	09	2·0	11	3·0	10	2·1	12	1·8	12	3·9	...	...	2·7
1h	09	3·0	11	1·9	10	2·8	10	2·7	11	2·1	05	0.8	12	1·7	10	1·8	11	2·1	10	1·5	11	2·4	10	1·9	12	1·1	11	2·4	...	...	2·4
2	09	2·8	06	1·6	07	1·8	11	2·4	10	2·1	05	1·0	13	2·1	08	2·1	11	2·1	11	2·6	11	3·0	10	2·0	12	2·1	12	3·9	...	...	2·4
3	08	2·5	08	2·1	11	1·9	11	2·4	11	1·8	10	1·7	11	1·7	10	2·4	10	2.4	10	2·1	11	2·9	10	1·3	12	2·2	09	4·1	...	...	2·4
4	08	3·1	11	1·8	10	1·9	11	2·3	11	2·2	11	1·2	11	1·8	10	2·2	10	1·8	10	3·2	11	2·0	10	0·7	12	1·1	11	3·9	...	...	2·5
5	08	1·7	10	2·5	10	2·3	11	2·0	11	3·3	10	1·2	11	2·1	10	2·7	10	1·8	10	2·9	11	1·4	11	1·5	12	0·6	11	3·6	..	...	2·3
6	09	2·9	09	2·8	10	2·0	11	2·1	11	3.0	11	1·1	11	1·5	10	3·4	10	2·0	10	2·9	11	1·9	11	1·4	11	0·6	11	2·2	...	...	2·4
7	09	3·1	09	2·7	10	2·2	09	2·6	11	1·9	10	0·8	11	1·8	09	5·1	10	2·0	10	4·0	10	3·0	11	1·2	d19	1·1	11	2·3	...	...	2·7
8	09	4·9	09	2·5	10	3·2	09	4·0	11	2·6	11	0·6	11	2·5	09	5·2	10	4·0	10	4·9	09	4·2	11	2·0	11	3·5	10	4·8	...	...	3·7
9	08	5·7	08	3·9	08	4·2	08	5·3	10	2·9	11	1·0	11	2·9	08	4·6	11	4·8	11	4·4	09	5·1	10	3·8	11	5.4	08	5·9	...	...	4·4
10	08	6·4	07	4·2	07	4·4	08	6·1	08	3·1	14	1·2	07	2·2	07	5·1	11	6·0	08	5·4	09	4·3	09	3·4	10	5·6	09	6·5	...	...	4·7
11	09	5·8	07	4·1	09	5·7	05	5·8	05	2·4	r27	2·5	09	3·4	08	6·0	09	6·4	08	5·8	10	3·1	06	3·6	10	5.8	09	7·4	...	...	4·9
Noon	10	5·8	09	4·3	09	5·8	08	5·5	07	4·3	25	2·8	11	4·7	08	5·4	11	6·4	08	6·5	11	2·4	05	4·4	09	5·9	08	6·1	...	...	5·1
13h	09	4·4	06	4·3	08	5·9	08	5·9	08	4·4	25	3·4	08	3·6	08	5·7	09	5·6	10	6·3	09	4·2	06	4·4	11	6·1	11	6·4	...	...	5·2
14	11	5·0	09	3·2	08	6·0	07	5·1	08	4·4	24	2·4	06	3·4	09	5·2	09	5·6	09	6·3	10	3·1	11	4·0	11	5·6	11	6·0	...	...	5·0
15	11	5·4	09	5·2	09	6·0	07	5·7	08	4·4	29	2·3	09	4·4	10	5·4	11	5·4	10	6·0	10	4·8	10	4·6	12	6·4	10	5·9	...	...	5·2
16	11	5·2	09	4·3	09	6·0	11	5·4	08	3·9	25	2·6	07	4·1	08	5·9	11	5·2	10	5·1	10	4·3	11	4·5	12	5·6	10	5·3	...	...	5·1
17	07	4·5	09	3·8	09	5·3	12	4·3	09	3·4	25	1·8	09	3·3	10	5·1	11	5·7	10	4·4	10	4·4	12	4·4	11	5·3	09	4·9	...	...	4·5
18	09	3·4	10	2·6	10	4·1	11	3·1	09	2·1	22	1·1	10	3·3	10	3·7	08	4·6	09	4·7	10	2·5	11	2·3	11	5·1	10	3·2	...	...	3·5
19	10	2·1	10	2·6	09	3·5	10	3·7	09	1·8	r12	1·8	12	2·9	11	2·2	11	2·4	10	3·2	11	2·7	12	1·3	11	5·2	11	2·4	...	...	2·8
20	10	1·6	10	3·4	09	3·5	11	2·6	09	1·6	12	1·7	11	2·5	11	1·9	11	2·9	10	3·1	11	2·4	12	0·8	11	4·8	11	2·7	...	...	2·7
21	10	2·8	10	3·1	10	3·7	11	1·5	09	1·5	12	1·6	10	3·0	11	2·0	10	2·9	10	3·2	10	3·5	11	1·1	11	5·0	11	2·3	...	...	2·7
22	07	2·1	10	2·3	10	3.5	11	1·8	09	1·7	12	1·4	10	2·5	11	2·1	09	1·3	10	3·9	10	2·6	11	1·8	12	3·8	11	2·8	...	...	2·6
23	09	2·3	10	2·0	10	3·7	11	1·8	09	1·4	12	1·3	10	2·3	11	1·8	09	2·0	10	3·3	10	2·4	11	1·9	12	4·9	11	2·9	...	...	2·6

TABLE XIII,—WIND FREQUENCY (NUMBER OF OBSERVATIONS) SEPTEMBER, 1937.

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	...	...	...	...	8	10	12	...	...	...	...	...	...	...	...	...
9	2	4	24	..	..	1	...	16	5	8	...	...	...	...	...	...	...	...	...
15	1	10	19	...	...	...	...	13	8	8	...	...	.	...	...	...	...	1	...
21	...	...	30	...	.	...	..	7	12	11	...	...	...	...	...	...	...	...	...
Totals	...			...	...	1	...	44	35	39	...	...	...	...	...	...	...	1	...

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for SEPTEMBER 1937.

Day. / Hour.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	...
	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	0·5	0·2	...	..	...	..	..	...	...	...	...	...	...	...	...	...	1·2	...	..	...	...	...	..	...	...	...	...	...	...	...	...
2	0·6	0·1	...	...	...	...	...	...	...	...	..	..	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	..
3	...	1·7	...	...	...	...	...	...	...	..	...	...	...	...	...	0·1	...	...	0·3	...	...	...	...	...	0·1	1·7	...	..	...	...	...
4	...	0·1	...	...	...	...	.	...	...	...	...	...	0·1	...	...	0·1	...	...	...	...	...	...	...	..	...	0·5	...	...	...	0·5	...
5	..	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...	0·1	...	...	...	...	0·2	...	...	...	...	0·1	...	...	..	...	...
6	...	...	.	...	...	...	...	...	...	...	...	...	...	0·1	...	0·9	...	...	...	...	..	..	...	...	...	1·9	...	...	...	...	...
7	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	0·5	...	...	...	...	...
8	..	...		...	.	...	...	...	...	...	...	0·4	...	..	...	...	...	..	...	...	...	...	. .	...	..	...	...	...	...	...	...
9	...	0·3	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	0·2	0·1	...	...	...	...	...	...	1·8	...	2·8	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	0·1	...	. .	...	...	...	...	...	...	4·0	...	...	...	...	...	0·1	0·6	...	...	...
11	..	...	...	...	...	...	0·5	..	...	..	..	0·8	...	...	...	...	...	..	...	...	2·0	...	...	...	...	...	..	...	...	...	..
Noon	0·1	...	...	...	...	...	0·5	...	...	...	...	0·1	...	...	0·2	..	...	...	...	...	1·4	...	...	...	...	...	...	...	...	...	...
13h	0·5	...	...	...	...	...	...	...	1·2	...	...	0·3	...	...	0·9	...	...	...	...	...	...	...	0·9	...	...	...	...	...	...	...	...
14	...		..	..	...	...	...	..	..	...	.	...	...	...	...	...	...	...	...	...	...	...	0·1	...	..	...	0·1	...	...	...	...
15	0·2	..	...	...	...	.	...	...	...	...	..	...	...	..	...	...	...	...	...	..	...	...	...	...	...	.	..	0·1	...	...	...
16	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	.	...	...	...	0·1	..	...
17	...	...	...	...	...	..	...	...	...	...	...	0·7	. .	...	...	...	...	...	..	...	...	...	1·1	...	...	...	...	...	0·1	...	...
18	...	...	...	...	...	...	...	...	...	...	...	0·8	...	...	...		...	. .	...	...	...	..	2·3	.	0·1	...	...	...	0·1	...	...
19	0·2	...	...	...	...	..	..	..	...	...	...	0·8	...	...	...	...	0·1	...	...	...	...	...	0·2	...	...	...	...	...	0·2	...	..
20	0·4	..	...	...	...	...	...	...	...	...	...	1·4	...	...	..	...	...	...	...	..	...	...	...	...	...	...	...	.	...	...	...
21	0·1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	.	...	...	...	...	0·2	...	...	...	...	...	...
22	0·5	...	...	...	...	...	...	..	...	...	...	..	...	..	..	...	0.6	...	...	...	..	...	...	...	...	...	...	...	...	...	...
23	0·2	...	...	...	...	...	...	...	...	...	...	..	...	...	...	0·2	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	..
24	1·1	...	...	...	...	..	...	...	...	...	...	1·3	...	0·3	...	0·2	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	..

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR SEPTEMBER 1937.

Day. / Hour.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	...
	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	1·5	0·6	...	...	0·4	...	..	...	..	..	..	...	1·0	...	...	0·1	0·2	...	...	...	...	...	...	0·1	...	...	...	...	...	0·2	...
2	1·0	1·0	...	..	...	...	...	..	...	...	...	...	1·2	...	0·2	0·4	...	...	...	...	...	...	...	...	0·2	..	...	...	...	0·4	...
3	2·9	2·5	...	...	..	...	...	...	..	...	...	...	0·7	...	..	0·5	...	...	...	...	...	...	..	...	0·1	0·2	...	...	...	0·3	...
4	0·4	2·2	...	...	...	...	..	...	..	.	..	...	0·1	...	..	0·2	...	...	0·2	...	0·5	...	...	...	...	0·4	...	...	...	0·1	...
5	0·1	1·3	...	.	...	...	...	...	..	...	...	...	0·2	...	...	...	...	...	...	...	0·8	...	. .	...	...	1·0	0·2	...	...	...	...
6	0·2	0·2	...	0·2	..	...	...	...	0·6	...	...	. .	0·2	...	0·2	...	...	...	...	...	0·7	...	...	...	0·4	0·9	0·4	...	...	1·4	...
7	0·4	...	...	...	0·5	...	...	...	0·2	...	...	...	..	0·3	...	...	...	...	...	...	..	...	...	...	...	...	...	..	...	...	.
8	...	...	...	...	0·2	...	...	0·1	...	...	...	..	0·1	...	...	...	...	...	...	0·3	...	...	...	...	...	...	..	...	...	...	...
9	...	...	...	..	...	...	..	...	...		0·4	0·9	..	...	...	...	...	...	0·2	1·8	...	...	...	...	...	0·1	...	...	...	...	...
10	0·2	..	...	...	...	...	..	...	0·1	...	0·2	...	...	...	...	...	...	.	..	...	...	...	...	...	...	...	...	...	...	...	...
11	0·3	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	0·7	...	...	. .	...	...	0·4	...	...	...	...
Noon	0·7	...	...	...	..	...	...	...	...	...	...	0·2	1·0	...	...	...	...	...	...	...	0·8	...	...	...	...	...	0·3	...	...	...	...
13h	1·7	...	...	...	...	..	...	...	...	...	...	0·1	...	...	0·8	...	...	...	...	...	0·2	...	...	...	...	. .	...	...	...	...	..
14	1·6	...	...	...	...	...	...	...	...	...	...	0·5	...	...	0·2	...	..	...	...	...	0·9	...	...	...	...	...	1·0	...	...	...	..
15	0·4	...	...	...	..	..	...	...	...	...	...	0·9	..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	.	...	...	...
16	0·8	...	...	...	...	0·9	...	...	...	...	..	0·3	...	...	..	...	...	...	...	..	...	...	..	...	...	...	0·3	...	0·4	...	...
17	1·0	...	...	...	...	3·6	...	...	...	...	...	0·4	...	...	0·1	...	...	...	...	...	..	...	...	...	...	...	...	...	1·6	...	...
18	0·3	...	..	...	...	...	...	...	..	..	...	0·3	..	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	1·0	...	...
19	0·5	...	...	...	...	...	...	...	...	...	...	1·0	0·4	..	...	..	...	..	...	...	...	...	2·6	...	...	...	...	...	2·5	...	...
20	0·1	...	...	...	...	..	...	...	...	..	...	0·2	...	...	...	...	...	...	...	...	..	...	0·2	...	0·5	...	...	...	1·0	...	...
21	1·3	...	...	...	...	...	...	...	...	...	...	0·4	0·1	...	...	...	0·9	...	...	...	..	...	...	0·1	0·4	...	...	0·2	0·8	...	...
22	0·5	...	...	..	...	.	...	...	..	...	..	0·5	...	...	...	...	...	...	...	...	...	...	0·3	...	0·3	...	...	...	1·5	...	...
23	...	...	.	...	...	...	..	...	.	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	6·2	...	...
24	...	...	...	0·3	..	..	...	..	...	...	...	...	...	...	...	0·4	...	...	..	...	...	...	0·2	0·2	..	...	...	...	0·3	..	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART for SEPTEMBER, 1937

River System	Station	Approximate Altitude feet	Total fall in inches	Total fall in mms.	Normal in inches	Number of days
1	Mare Sèche	20	...	...	1.03	...
	St. Antoine	50	3.14	79.8	1.17	14
	Bel Mont	50	2.96	75.2	1.15	14
	Poudre d'Or	20	3.60	91.4	1.24	14
	Mon Loisir (S.E.) ...	300	3.11	79.0	1.85	10
	Forbach	300	2.54	64.5	1.20	16
	Couroupa	...	2.60	65.9	1.36	13
*	Labourdonnais	290	...	...	1.61	...
	Mapou Water Office ...	...	1.99	50.5	...	10
	Beau Séjour	300	3.60	91.4	2.20	18
	Mont Piton	650	5.72	145.3	2.27	17
	Mon Choix	700	2.58	65.5	18.4	15
	Antoinette	640	...	...	2.19	...
	Mon Songe	620	3.61	91.7	2.49	14
	Botanical Gardens ...	325	2.96	75.2	1.78	25
*	The Observatory ...	179	1.83	46.4	1.49	20
	Solitude	175	...	...	0.81	...
	St. André (Cour) ...	90	2.23	56.0	1.11	11
	La Nicolière	...	4.32	109.7	3.28	18
	California	...	2.22	56.4	...	11
	Australia	..	4.28	108.7	...	14
2 & 3	Union Régnard (Flacq S.E.) ...	600	2.91	73.9	2.63	11
	Constance d'Arifat (L.S.) ...	100	3.66	93.0	1.69	18
	Rich Fund	600	4.88	124.0	2.67	17
	La Joffrette	...	4.36	110.7	...	18
	Belle Vue (Allendy) ...	...	3.44	87.4	2.69	15
4	Sans Souci	900	8.84	224.5	5.83	24
	Beau Champ (G.R.S.E.) ...	20	2.67	67.8	1.71	15
	Olivia	400	4.45	113.0	3.15	24
	Trois Ilots	...	3.52	89.4	...	19
	Belle Rive	400	7.05	179.1	4.13	25
	Sébastopol	700	6.07	154.2	...	21
	Sonne Veine	400	6.83	148.1	5.26	23
5	Bose Belle	850	7.40	188.0	5.98	24
	New Grove	650	5.35	135.9	...	20
	Mon Trésor	...	3.38	85.9	...	15
	Mon Désert (Carié) ...	75	1.81	46.0	1.53	15
	Ferney	20	...	...	2.60	...
	Sauve Terre	...	1.88	47.8	...	15
6	Tivoli	1,300	7.72	196.1	5.81	27
	La Flora	1,050	7.33	186.2	5.38	27
	Riche Bois (Brit.) ...	650	3.63	92.2	3.78	24
	Britannia (Estate) ...	700	5.02	132.1	4.03	26
6	Savannah (Mill) ...	200	1.90	48.3	1.96	11
	St. Aubin	300	2.81	71.4	2.70	19
	St. Avold	900	6.29	159.8	4.61	25
	Colmar	400	5.27	133.9	3.03	26
	Union (S.E.)	...	3.27	83.1	2.23	14
	Fontenelle	320	3.73	94.7	2.95	14
	Choisy	200	2.04	51.8	2.60	12
	Beau Bois	...	4.04	102.6	...	19
	Bel Air	...	2.70	68.6	...	7
	St. Félix	...	2.35	59.7	...	7
7,8,9&10	Bel Ombre	40	...	...	1.93	...
	Beau Champ (S du Cap) ...	70	...	...	1.95	...
	Frédérica	...	...	...	2.36	...
	Pierre Fonds	...	1.08	27.4	1.01	12
	St. Marie	...	...	...	...	...
	Hussonia	...	...	...	...	...
11	Curepipe Gardens ...	1,840	9.43	239.5	5.60	31
	Mare aux Vacoas (G.E.) ...	1,850	8.49	215.6	7.13	26
	Mare aux Vacoas (Arn) ...	1,830	10.34	262.6	7.14	26
	La Marie Filter Beds ...	1,700	5.63	143.0	4.10	21
*	Sophie	...	8.98	228.0	...	24
	Réunion	1,420	4.17	105.9	3.53	15
*	Aerological Station ...	1,393	3.07	78.0	3.40	25
	Phoenix	...	2.13	54.1	...	7
	Quatre Bornes ...	...	1.78	45.2	...	9
12	Quatre Bornes (Board) ...	1,090	2.76	70.1	...	15
*	Le Réduit (D of A) ...	1,000	2.73	69.2	1.50	26
	Alma	1,460	4.90	124.5	4.73	19
	Bagatelle	1,250	4.34	110.2	2.69	11
	Highlands	1,300	4.27	108.5	3.09	13
	Trianon	950	1.73	43.9	1.70	11
	Val Ory	1,100	...	...	1.74	...
	Bassin	..	0.93	23.6	1.35	8
	Hermitage	1,450	5.66	143.8	4.62	12
	Ebène	...	2.32	58.9	...	15
	Béga	...	2.12	53.8	...	13
	Mon Rêve	...	3.14	79.8	...	15
	Mon Pavril	...	3.12	79.2	...	13
	Minissy	1,150	3.66	93.0	2.25	15
	Plaisance	...	2.85	72.4	...	15
	La Ferme	350	0.71	18.0	07.5	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 SEPTEMBER 1937.

Day.	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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	11¾	105	15·9*	105	15·1*	...	...	...	...	...	..	...	...
3	...	...	...	..	...	...	...	...	...	..	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	..	...	..	...	...	...	...	...	...	...
6	11½	80	5·1*	60	6·2*	...	...	...	...	...	...	...	...
7	11¾	...	...	105	10·4*	..	..	...	...	...	...	...	...
8	10½	120	...	105	8·4	.	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...
10	9½	...	...	...	...	15	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	..	...	...	...	...	...	...	...	...	...	...	...	...
13	11½	...	...	83	13·7*	120	25·8*	..	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	9¾	...	...	105	27·3	...	...	...	...	..	...	...	...
17	12	...	...	120	10·7*	...	...	...	...	...	...	...	...
18	11¾	...	...	120	5·5*	...	...	...	...	...	...	...	...
19	...	..	...	...	...	...	...	...	...	...	...	...	...
20	12	...	...	105	16·1*	...	...	...	...	...	...	...	...
21	...	...	...	..	...	...	..	...	...	...	...	...	...
22	11½	..	...	120	5·2*	...	..	...	...	...	...	...	...
23	11¼	...	...	63	6·8*	113	3·8*	...	...	...	...	...	...
24	11¾	120	32·5*	105	14·0*	...	...	...	...	...	...	...	...
25	11¾	90	14·7*	05	20·2*	...	...	...	...	...	...	...	...
26	...	...	...	...	...	..	...	...	...	...	...	...	...
27	...	...	...	...	..	...	...	...	...	...	...	...	...
28	...	.	...	...	...	...	...	...	...	...	...	...	...
29	..	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	..	...	...	...	...

Day.	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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	14¼	96	11·5*	98	9·5*	...	...	...	...	..	...	...	...
3	13¼	106	17·3*	122	7·3*	150	4·2*	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	14½	...	...	97	4·5	65	...	...	...	...	...	...	...
7	14¼	135	6.5*	130	10·6*	...	3·3*	...	...	...	...	...	...
8	...	...	...	...	...	...	...	..	...	...	...	...	...
9	...	...	...	...	...	...	...	...	..	...	...	...	...
10	13½	...	...	120	11·2*	...	...	...	...	...	...	...	...
11	14½	128	14·0*	120	21·1*	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	15½	...	...	105	6·0*	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	..	...	...	...	...	...	...	...	...	...	...
16	13¾	...	...	113	10·9*	...	...	...	...	...	...	...	...
17	...	...	...	..	...	...	...	...	...	...	...	...	...
18	15½	...	...	130	9·8*	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	15½	120	10·7*	113	14·9*	...	...	...	...	150	4·8*	...	...
21	13¾	75	21·2*	68	18·0*	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	15½	...	...	92	5·6*	93	5·6*	...	...	...	...	...	...
24	15½	120	17·8*	105	22·0*	...	...	...	...	...	...	...	...
25	15¾	120	13·0*	113	14·2*	...	...	...	...	...	...	...	...
26	15½	...	...	113	13·2*	...	...	...	...	33	4·1*	30	3·6*
27	...	...	...	...	...	..	...	...	...	...	...	...	...
28	13½	...	...	143	13·8*	155	1·8*	128	2·2*	...	...	...	...
29	15½	120	23·3*	120	21·5*	...	...	...	...	...	...	...	...
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.

139/4/38—R.A.O 250.

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NEW SERIES (MONTHLY) VOL. XXIII. PART 10. PRICE 0.75

ROYAL ALFRED OBSERVATORY, MAURITIUS.

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

OCTOBER, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

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TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF OCTOBER 1937.

Month and Day. 1937	Mean Declination (West).	Mean Horizontal Force. (C.G.S. Units)	Mean Vertical Force. (C.G.S. Units.)	Daily Range† Declination.	Daily Range† Horizontal Force. (Unit 1 γ)	Daily Range† Vertical Force. (Unit 1 γ)	HRH: 10000	ZRZ: 10000
OCT.	′			′				
1	13°26·9	·22424	·29773	10·0	65	44	146	131
2	26·1	455	771	9·4	51	40	114	119
3	24·4	456	769	14·3	67	41	150	122
4	...	401	780	...	107	41	240	122
5	...	425	777	...	60	47	134	140
6	26·4	463	771	16·0	64	30	143	89
7	26·5	474	775	12·2	130	24	292	72
8	25·5	436	777	11·0	56	21	125	63
9	25·5	437	777	10·0	172	59	385	176
10	25·1	430	784	7·7	53	26	119	77
11	26·0	451	780	12·5	90	39	202	86
12	25·6	452	782	9·5	65	38	146	113
13	25·8	441	776	10·8	49	24	110	72
14	25·7	456	771	6·8	45	25	101	75
15	25·9	461	770	11·0	98	38	220	113
16	25·5	452	774	8·8	53	26	119	77
17	26·0	464	769	8·3	31	33	69	98
18	25·2	473	766	9·0	21	32	47	95
19	26·0	486	765	8·7	43	32	97	95
20	25·5	486	764	8·0	30	35	67	104
21	25·5	484	764	10·0	76	44	171	131
22	26·1	481	770	8·0	77	21	173	63
23	26·1	459	767	11·0	91	47	204	140
24	26·5	444	760	10·0	80	40	179	119
25	25·6	455	770	6·3	87	29	195	86
26	26·2	450	772	7·0	68	21	152	63
27	26·0	424	767	9·5	170	41	381	122
28	26·0	464	769	8·8	77	21	172	63
29	26·7	465	771	8·0	43	28	96	83
30	26·0	476	769	10·3	40	28	90	83
31	26·5	478	766	10·5	58	39	130	116
Mean	13°25·89	·22455	·29772	9·77	71·5	33·7	160·6	100·3

Description of the Principal Magnetic Disturbances.

Declination.—3d. Slightly disturbed. 4d. Moderately disturbed; important oscillations (5′—8′) in the trace between 3^h. and 12^h. 7d. Slightly disturbed. 8d. Moderately disturbed; important fluctuations (7′) in the trace between 6^h. and 9^h. 9d. Moderately disturbed during latter part. 10d. Moderately disturbed during first part. 11d. Moderately disturbed. 12d. and 13d. Slightly disturbed. 21d. to 29d. Moderately disturbed at times. Oscillations of minor importance in the trace.

Horizontal Force.—1d. Gradual subsidence of disturbance begun on 31d. 3d. Sudden commencement at $15^h.15^m$. of a moderate disturbance ending gradually during the first hours of 5d. 4d. disturbed; small oscillations superposed on the large fluctuations. Important increase in daily range. (123γ). 6d. Slightly disturbed at times. 7d. and 8d. Moderately disturbed from 7d. $6^h.30^m$. 9d. Commencement at $10^h.30^m$. of a long and very disturbed period ending gradually on 13d. Considerable increase in range on 9d. (195γ) with small oscillations superposed on the trace. 10d. disturbed. 11d. Very disturbed during the latter part; considerable fluctuations in force between $17^h.30^m$. and 20^h. 12d. Moderately disturbed. 13d. Moderately disturbed. 14d and 15d. Slightly disturbed. 19d. Slightly disturbed. 21d. to 29. Continuously disturbed period of moderate character. Irregular oscillations on a moderately fluctuating trace throughout.

Vertical Force.—1d. Slightly disturbed. 3d. to 5d. Moderately disturbed with sudden commencement at $15^h.15^m$.; small rapid pulsations superposed on the fluctuating trace. 6d. to 8d. Slightly disturbed at times. 9d. to 13d. Long disturbed period. 9d. $10^h.30^m$. to 10d. 4^h. Very disturbed with important oscillations at times on the fluctuating trace. 10d. and 11d. Moderately disturbed. 12d. and 13d. Slightly disturbed. 22d to 29d. Continuously disturbed period but of very moderate character. Irregular fluctuations of minor importance at times.

T=·37270: Mean Dip=52° 58′·52: (X=·21841: Y=—·05216: Z=·29772).
† The daily range is the difference between the greatest and least hourly values.

TABLE II.—RESULTS of ABSOLUTE DETERMINATIONS of the MAGNETIC ELEMENTS during the MONTH of OCTOBER 1937.

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	° ′	
5·14·14	13·20·8	6· 9·31	·22460	5.14·23	52.57.62	·29752
12·14·57	13·18·9	9· 8·51	·22449	12·14·43	52·59·43	·29755
19·14·36	13·20·3	14 9·44	·22464	19·14·22	52·54·06	·29746
22·14·45	13·20.1	16· 9·12	·22470	22·14·55	52·53·62	·29757
		21· 9·33	·22503			
		27· 9·40	·22475			
		30· 9·08	·22483			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS.

OCTOBER 1937

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	32·0	27·0	26.3	27·0	...	26·3	26·5	28·0	26·5	27·0	27·0	28·0	26·5	26·5	26·5	24·5	Midnight
1h	30·0	26·7	26·3	27·5	...	26·5	26·5	27·5	26·7	26·5	26·5	26·5	27·0	26·5	26·5	27·0	1h
2	30·0	26·7	26·0	27·5	...	26·0	26·5	27·3	26·5	25·5	26·0	25·7	26·0	26·0	26·5	26·7	2
3	28·0	26·0	26·3	26·7	...	26·5	26·5	27·5	26·3	25·0	25·3	25·5	25·5	26·0	26·7	26·5	3
4	28·5	26·0	26.5	22·0	...	26·0	26·7	28·0	26·7	24·0	26·5	25·0	25·5	26·0	26·5	26·5	4
5	28·5	26·0	26·7	25·0	...	26·2	26·5	27·5	26.7	24·0	26·7	25·5	26·5	26·5	26·5	26·5	5
6	26·0	26·0	27·5	23·0	...	26·5	26·3	27·0	25·5	24·5	27·7	26·0	27·5	26·7	26·7	27·5	6
7	25·5	26·5	26·7	26·0	...	27·0	25·5	25·0	26·7	26·0	30·0	25·7	29·0	28·3	28·0	28·5	7
8	27·3	29·0	28·0	22·5	...	29·3	27·0	30·0	27·5	26·5	30·5	26·5	29·0	27·5	30·0	28·3	8
9	30·5	30·5	30·3	27·0	32·5	30·0	30·0	24·0	28·5	26·5	31·0	29·0	30·0	27·5	30·0	27·5	9
10	30·7	30·7	30·0	28·0	33·5	30·0	31·7	24·5	29·0	27·5	30·0	30·0	30·3	27·0	29.3	27·0	10
11	30·2	30·0	28·0	22·0	31·0	38·0	30·0	26·0	29.0	25·0	28·5	29·0	28·0	27·0	28·0	26·0	11
Noon	28·3	27·0	24·0	23·0	27·5	36·0	37·0	23·5	26·0	22·5	26·5	26·5	24·5	26·0	23·5	23·5	Noon
13h	26·5	24·5	22·0	21·5	24·0	23·0	23·5	21·0	22·0	22·5	23·0	24·0	21·0	23·5	20·0	20·0	13h
14	23·3	22·0	20·0	19·0	21·5	20·3	20·3	19·0	20·3	21·5	19·5	20·5	19·5	22·7	19·0	19·7	14
15	22·0	21·3	16·5	19·0	20·3	20·0	19·5	20·0	19·0	20·0	18·5	21·0	19·7	21·5	20·0	20·0	15
16	24·0	22·0	16·0	21·0	21·0	20·0	22·5	22·0	20·7	21·0	20·5	22·5	21·0	22·7	22·0	22·0	16
17	24·3	24·5	18·0	23·7	23·0	23·5	24·5	24·5	23·5	25·0	22·5	24·5	24·0	24·5	25·0	24·0	17
18	24·7	25·0	21·0	...	24·7	24·0	25·0	25·5	24·0	26·0	21·7	25.0	26·5	25·7	26·0	25·0	18
19	25·0	25·3	21·3	...	25·5	24·3	25·3	26·0	24·0	26·3	25·0	25·3	26·3	25·5	26·3	25.5	19
20	25·3	25·5	23·0	...	25·3	25·0	25·5	27·0	24·0	26·5	29·0	25·5	26·3	25·5	26·5	26·0	20
21	25·5	25·7	24·5	...	25·7	25·5	27·0	27·0	27·5	27·0	26·0	25·7	26·0	26·3	27·0	27·0	21
22	26·0	26·0	25.0	...	26·0	26·0	27·3	27·0	27·0	27·5	27·0	26·0	26·5	26·0	28·0	27·5	22
23	27·0	26·3	25·5	...	26·2	26·5	28·5	26·7	27·5	27·7	27·5	26·0	26·5	26.5	28·0	27·5	23

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Hour \ Day
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	27·0	26·7	26·0	26·5	26·0	26.7	26·7	28·3	26·7	26·7	26·7	26·5	26·7	26·7	26·5	26·9	Midnight
1h	27·0	26·7	26·5	26·5	26·3	27·3	27·5	28·0	26·0	26·5	27·0	26·0	28·0	26·5	26·5	26·9	1h
2	26·5	27·0	26·5	26·0	26·0	26·7	27.0	28·5	24·7	26·3	26·0	25.5	27·0	26·5	26·5	26·5	2
3	26·0	27·0	26·3	26·3	26·5	27·0	27·0	28·0	26·0	26·5	26·5	25·5	26·5	26·5	26·5	26·4	3
4	25·7	26·5	26·5	26·3	26.5	27·5	27·0	29·0	26·5	27·0	26·5	25·5	27·0	26·5	27·0	26·5	4
5	26·3	25·5	26·3	26·0	26·5	27·7	27·0	25·0	26·5	27·0	26·5	26·0	27·3	26·3	27·0	26·5	5
6	26·5	25·7	26·3	26·0	26·7	27·5	27·0	29·0	24·5	28·0	26·7	27·3	27·5	27·0	27·5	26·7	6
7	28·3	27·0	27·5	27·5	28·0	28·0	27·0	29·0	26·5	28·3	28·0	29·0	29·0	29·5	30·5	27·6	7
8	29·3	28·0	29·0	28·5	29·3	27·7	29·0	30·0	27·0	29·0	30·0	30·3	30·3	29·7	31·5	28·8	8
9	30·0	29·0	30·0	28·5	30·0	28·5	29·3	29·7	27·0	28·5	29·5	29·7	30·5	30·0	32·0	29·2	9
10	29·0	28·0	29·5	28·3	29·7	29·0	29·7	29·5	26·7	30·0	28·0	28·0	30·0	29·7	30·3	29·1	10
11	28·2	26·0	28·5	27·0	27·0	26·7	29·0	27·5	25·5	28·0	27·0	26·0	29·0	27·5	27·5	28·0	11
Noon	27·0	24·0	27·0	24·5	24·3	25·0	26·5	25·5	23·7	24·0	25·0	25·5	27·5	25·0	25·5	26·0	Noon
13h	24·0	21·5	24·0	22·0	22·0	23·0	23·0	22·0	22·0	23·0	22·0	24·5	25·0	22·0	23·0	22·7	13h
14	22·0	20·0	21·5	20·5	20·0	21·0	19·5	20·0	21·7	23·0	20·5	22·5	23·0	19·7	21·5	20·8	14
15	21·7	20·0	21·3	20·7	20·0	22·0	18·7	20·7	22·5	23·5	20·5	21.5	22·5	21·0	22·0	20·6	15
16	22·5	22·0	22·5	22·0	21·0	23·0	21·5	22·0	23·5	23·0	22·0	23·5	23·0	23·0	23·3	22.0	16
17	24·0	23·5	24·3	24·5	24.3	25·0	24·5	25·0	25·5	24·0	24·0	24·7	24·5	25·5	25.5	24·2	17
18	25·3	24·7	25·5	25·7	24·5	25·7	24·7	25·5	26·5	24·5	26·3	25·3	25·7	26·0	25·7	25·1	18
19	25·0	25·0	25·5	25·7	24·0	26·0	26·0	25·5	26·5	25·3	26·5	25·0	26·0	25·7	25.5	25·3	19
20	25·0	25·0	25·7	25·9	24·7	26·0	26·0	27·0	26·7	26·3	27·0	26·3	25·3	25·7	25·5	25·8	20
21	25·5	25·3	26·0	25·8	25·5	26·0	27·0	26·5	28·0	26·5	27·0	26·0	26·0	26·0	26·0	26·2	21
22	26·3	25·7	26·0	26·0	26·3	26·3	28·0	27·0	27·5	27·5	27·0	26·5	26·5	26·3	26·0	26·6	22
23	26·5	26·0	26·5	26·0	26·5	27·0	28·0	27·3	27·3	27·5	27·0	26·7	26·7	26·5	26·5	26·9	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 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	420	448	460	423	395	440	459	427	432	400	435	430	440	447	461	457	Midnight
1h	395	433	462	440	403	432	462	435	433	415	435	425	437	447	470	430	1h
2	400	437	463	445	400	435	460	458	437	423	450	435	423	451	472	439	2
3	410	445	467	451	405	435	465	452	439	425	457	445	430	452	475	439	3
4	410	450	469	452	407	451	467	457	440	432	447	440	442	453	475	440	4
5	405	448	467	439	405	457	463	455	439	435	445	440	433	453	475	445	5
6	420	451	463	427	410	456	469	470	442	439	450	447	437	457	480	447	6
7	430	450	470	410	413	459	485	455	450	450	457	465	440	450	485	452	7
8	460	450	470	412	420	465	491	447	453	472	445	472	440	440	482	457	8
9	445	457	470	365	423	470	510	440	455	455	447	478	445	462	490	565	9
10	440	458	471	345	435	483	550	437	459	483	453	483	452	472	500	473	10
11	443	460	465	363	445	489	535	428	480	440	465	490	465	485	505	483	11
Noon	440	430	463	380	453	496	535	431	505	435	475	480	467	481	502	477	Noon
13h	432	475	475	410	453	495	530	425	505	440	490	462	460	455	492	467	13h
14	438	481	480	420	455	490	525	425	495	455	495	465	455	458	485	470	14
15	430	470	473	395	440	475	500	414	495	420	477	425	440	450	460	464	15
16	413	465	475	377	432	475	467	417	470	390	470	455	435	450	440	460	16
17	417	460	445	370	420	460	450	420	410	393	457	442	418	450	428	455	17
18	420	457	432	389	415	457	440	420	385	404	490	442	430	445	430	451	18
19	423	457	415	380	417	453	428	422	345	420	420	440	432	453	417	447	19
20	430	457	413	380	429	462	422	421	333	423	413	441	431	455	410	435	20
21	420	453	425	390	433	457	425	433	375	422	435	440	442	457	407	435	21
22	402	458	434	387	435	450	435	432	400	418	425	445	440	459	410	430	22
23	425	459	435	395	437	450	420	435	420	425	405	445	442	459	417	435	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	448	468	483	477	481	465	470	445	425	442	450	438	467	463	473	447·2	Midnight
1h	452	470	483	477	483	460	465	447	435	450	447	445	462	463	472	447·3	1h
2	459	471	482	479	486	467	475	439	457	460	462	449	462	463	471	451·6	2
3	457	471	487	478	487	471	467	445	448	461	455	449	465	465	470	453·8	3
4	459	472	485	478	490	472	467	453	447	462	455	447	457	463	467	455·0	4
5	460	477	490	480	491	475	465	465	445	467	453	442	455	465	467	454·9	5
6	460	474	492	481	500	482	465	435	455	462	457	445	455	462	469	456·7	6
7	457	477	493	483	503	482	470	443	457	467	457	450	455	465	471	459·7	7
8	461	479	491	484	503	485	480	447	470	455	462	462	457	470	480	463·3	8
9	462	473	493	489	505	495	482	449	480	470	470	480	460	480	490	466·3	9
10	469	473	501	492	497	510	492	460	485	483	471	493	465	490	503	473·5	10
11	475	470	507	495	500	510	497	465	500	470	485	515	480	493	512	477·9	11
Noon	479	477	510	502	508	515	503	473	500	465	485	510	487	500	518	480·1	Noon
13h	477	473	507	505	513	517	480	465	495	443	465	505	493	502	515	478·0	13h
14	479	472	497	507	516	515	475	480	490	433	445	495	490	497	500	476·9	14
15	472	465	487	503	500	505	450	440	470	445	435	470	480	485	480	461·8	15
16	465	460	475	497	485	485	435	420	455	445	417	460	475	477	470	452·0	16
17	462	465	467	485	470	460	432	493	425	425	400	450	467	473	460	442·9	17
18	462	473	472	481	460	440	412	400	422	420	390	445	463	467	460	437·6	18
19	465	473	473	480	452	460	423	410	415	420	315	442	450	467	467	431·6	19
20	464	475	472	478	445	470	422	420	413	415	315	455	450	468	467	431·7	20
21	462	477	470	479	440	472	417	415	440	435	320	460	455	469	495	436·3	21
22	460	479	470	478	453	473	440	423	437	455	330	457	460	468	464	438·9	22
23	460	481	477	477	462	463	435	425	440	447	333	462	463	468	467	440·7	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 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. \ Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	789	778	773	783	786	781	778	783	781	795	786	785	777	775	773	773	Midnight
1h	780	778	772	782	786	780	777	781	781	791	784	782	783	776	773	779	1h
2	781	777	771	781	784	779	776	780	781	788	785	783	780	774	772	778	2
3	780	775	771	779	783	778	775	778	780	787	780	785	781	774	772	778	3
4	780	776	772	776	785	778	775	778	779	783	781	784	779	775	772	779	4
5	780	777	774	781	786	779	776	779	780	782	781	786	781	775	773	779	5
6	779	778	776	776	787	779	775	781	780	786	783	786	781	776	773	781	6
7	778	780	778	781	790	780	774	780	781	788	786	782	782	780	776	781	7
8	785	789	781	793	796	781	780	781	787	785	789	782	781	781	777	779	8
9	788	782	782	799	795	775	781	782	789	790	786	790	782	777	774	772	9
10	783	779	772	797	787	770	780	783	791	790	785	799	785	773	769	769	10
11	771	768	756	781	775	763	772	780	785	789	779	795	776	770	760	765	11
Noon	755	759	742	773	736	753	765	771	767	781	771	782	765	765	752	758	Noon
13h	749	751	741	764	750	751	760	763	746	772	762	778	761	761	743	755	13h
14	745	749	749	758	749	751	759	762	739	769	760	761	761	760	748	760	14
15	751	751	752	760	752	758	761	767	741	771	768	776	764	756	755	769	15
16	763	758	751	765	761	762	773	771	751	781	774	780	771	762	769	774	16
17	769	764	760	774	770	765	777	777	769	789	778	780	780	769	779	778	17
18	771	769	772	780	773	768	775	777	780	784	773	780	780	770	776	776	18
19	773	770	774	782	777	769	775	776	782	783	780	779	775	770	776	775	19
20	776	772	781	785	778	771	777	780	794	782	784	778	774	770	779	776	20
21	777	773	782	786	779	775	781	779	798	785	781	779	775	771	778	778	21
22	780	774	781	787	780	779	781	781	793	786	786	778	775	771	780	779	22
23	781	773	781	787	780	780	783	781	792	786	788	778	776	772	781	778	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. \ Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	775	771	770	771	770	773	775	778	779	777	771	775	771	772	770	777·2	Midnight
1h	775	771	770	770	770	772	772	777	780	775	773	772	772	771	770	776·5	1h
2	773	771	770	769	768	771	772	779	773	774	770	772	771	771	769	775·6	2
3	772	771	769	769	767	771	771	779	774	775	772	772	771	772	770	775·2	3
4	774	772	770	769	768	771	771	779	775	775	772	773	773	772	771	775·4	4
5	775	771	770	770	769	771	771	776	776	773	772	775	773	772	772	776·0	5
6	778	773	771	771	770	771	774	779	773	775	772	778	775	775	775	777·0	6
7	783	775	773	776	773	773	776	777	774	777	773	781	780	779	780	778·9	7
8	782	777	777	776	776	772	779	779	772	781	772	777	785	779	780	781·0	8
9	781	776	775	772	775	773	778	780	769	781	771	768	787	776	779	780·2	9
10	770	773	766	767	771	775	771	770	765	780	765	759	780	769	770	776·2	10
11	761	762	759	759	761	771	761	763	760	770	761	760	773	761	759	768·6	11
Noon	752	753	751	751	750	765	747	751	754	761	749	761	767	754	748	758·9	Noon
13h	750	749	745	743	739	759	736	740	751	760	738	761	760	751	741	752·6	13h
14	751	745	746	741	732	754	733	740	756	762	740	762	759	755	746	751·7	14
15	759	748	749	745	737	759	740	746	759	761	743	763	760	761	753	756·0	15
16	762	756	756	752	751	767	756	753	764	762	758	760	762	770	761	763·3	16
17	768	761	761	761	764	773	768	769	773	768	770	769	768	773	768	770·7	17
18	768	768	764	765	767	773	770	771	777	771	778	770	770	772	767	772·7	18
19	769	769	766	760	769	772	772	770	777	772	779	769	770	770	766	773·3	19
20	770	769	768	769	771	771	772	777	779	773	775	770	771	770	766	775·1	20
21	770	770	769	769	773	772	778	778	778	775	776	770	771	770	768	776·3	21
22	772	770	771	770	775	772	780	779	777	777	775	771	772	770	769	777·1	22
23	772	770	771	770	773	774	779	779	777	775	775	771	771	770	769	777·2	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 1937.

Month and day 1937.	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.
OCT.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	972·2	19·8	3·4	13·7	68	15·5	70	4·9	10	15·3	19·3	21·6	17·5	22·4	15·2	7·2	0·2	2	3·0	25
2	971·4	19·7	4·4	11·7	60	13·6	110	4·5	10	17·0	19·0	20·5	17·5	22·0	16·5	5·5	0·1	1	5·8	47
3	972·5	18·9	1·5	16·2	84	18·2	100	7·2	9	16·6	16·9	20·4	18·0	21·1	15·9	5·2	5·1	83	5·3	43
4	973·0	20·7	3·2	15·0	70	16·9	95	10·7	3	17·9	20·3	21·0	18·0	21·9	17·0	4·9	6·9	94	10·1	82
5	974·3	19·5	4·0	12·3	63	14·2	90	7·2	5	17·3	17·9	19·0	16·5	21·5	16·4	5·1	7·0	81	6·1	50
6	972·6	18·4	1·0	16·8	90	18·9	80	5·4	10	15·8	17·0	20·5	17·0	22·0	15·8	6·2	9·7	125	7·2	59
7	969·8	20·8	4·1	13·5	63	15·4	90	5·4	3	16·0	19·7	21·6	17·5	23·3	15·6	7·7	1·6	19	9·7	79
8	969·9	18·6	1·4	16·0	85	18·0	75	4·0	10	16·1	18·7	20·1	17·0	20·9	16·1	4·8	1·2	10	1·1	9
9	968·7	22·9	4·1	15·7	64	17·7	70	3·1	7	16·0	21·7	24·0	18·5	25·3	16·0	9·3	0·0	0	8·6	70
10	967·9	21·9	2·9	16·8	73	18·9	325	2·2	7	16·8	21·0	24·6	17·0	25·6	16·8	8·8	0·0	0	10·8	87
11	968·4	22·9	4·8	14·5	59	16·4	Calm		6	14·4	21·3	24·3	21·0	25·1	13·6	11·5	0·0	0	9·8	79
12	969·5	21·8	3·4	15·8	69	17·8	135	3·6	7	18·0	21·8	23·9	17·4	24·2	17·2	7·0	0·0	0	10·7	86
13	971·8	20·2	3·6	13·8	67	15·6	110	4·5	8	15·4	20·0	21·7	15·5	22·2	15·1	7·1	0·0	0	9·7	78
14	972·4	20·4	3·1	14·9	71	16·8	105	3·6	9	15·1	18·8	21·0	16·0	22·0	14·4	7·6	0·0	0	8·0	64
15	971·3	22·5	4·9	13·9	58	15·7	75	2·7	3	14·9	21·7	23·6	17·2	24·4	14·1	10·3	0·0	0	7·3	59
16	971·3	22·9	3·6	16·6	68	18·7	90	6·3	4	17·7	22·0	23·0	19·5	23·6	17·0	6·6	2·0	22	5·1	41
17	972·2	22·1	2·2	18·2	79	20·7	70	7·2	8	19·0	21·0	24·0	20·1	25·0	18·6	6·4	3·2	31	7·4	59
18	973·8	22·5	4·4	14·7	61	16·6	70	6·7	7	18·4	21·0	23·0	19·3	23·9	18·0	5·9	0·3	3	10·9	87
19	972·9	22·5	4·1	15·3	64	17·2	80	9·4	6	18·3	22·0	23·4	18·7	23·5	18·1	5·4	0·2	2	11·1	88
20	971·9	21·9	2·8	17·0	74	19·2	70	7·6	8	18·2	18·9	23·1	18·2	23·7	17·6	6·1	4·0	33	7·0	56
21	969·4	22·6	3·2	17·0	71	19·2	20	3·1	8	17·4	21·0	24·2	18·6	24·6	16·3	8·3	0·9	7	7·6	60
22	967·6	24·5	5·5	15·1	56	17·0	Calm		1	16·1	23·7	27·0	21·2	27·9	16·0	11·9	0·1	1	9·7	77
23	967·1	24·5	3·9	17·8	66	20·2	55	4·5	8	19·0	24·5	25·0	21·9	26·0	18·5	7·5	1·3	12	7·5	60
24	967·0	23·7	2·2	19·9	79	23·0	290	7·2	10	21·5	23·0	26·5	20·1	26·5	21·5	5·6	1·5	2	7·2	57
25	966·4	22·6	5·7	12·6	53	14·5	135	3·1	7	18·5	21·7	23·3	17·3	24·4	17·1	7·3	0·0	0	9·6	76
26	966·3	22·8	6·4	11·6	49	13·5	Calm		7	16·4	21·8	23·6	15·0	24·7	14·5	10·2	0·5	5	10·6	84
27	966·8	21·6	4·7	13·3	59	15·1	200	2·7	7	13·7	20·0	24·5	18·2	25·0	13·7	11·3	0·0	0	10·0	79
28	968·4	22·5	5·0	13·7	57	15·5	110	3·1	7	15·3	21·0	24·0	18·1	24·3	14·6	9·7	0·0	0	11·5	91
29	969·2	21·8	3·1	16·3	71	18·4	130	8·1	7	18·1	21·0	21·2	19·0	22·6	18·1	4·5	0·0	0	7·8	62
30	970·6	21·5	1·0	19·7	89	22·7	90	5·4	10	18·6	20·0	21·1	19·9	22·2	18.6	3·6	6·8	164	0·7	6
31	970·1	20·7	0·6	19·6	93	22·6	90	8·5	10	19·9	19·5	21·7	20·4	21·7	19·5	2·2	17·1	479	1·7	13
Mean	970·2	21·6	3·5	15·4	68·8	17·5	...	4·9	7·2	17·0	20·5	22·8	18·3	23·7	16·6	7·1	69·7	1181	7·70	61·7
Average	970·0	21.2	3·2	15·8	71·6	17·9	...	3·7	6·3	...	...	...	...	23·1	15·6	7·5	62·8	...	7·42	59·5
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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

Atmospheric Pressure	+	42·4 mbs.	Amount of rain	—	15·4 mms.
Temperature of the Air	+	3·3°C	Duration of sunshine	+	33·3 hrs.
Vapour Pressure	+	1·9 mbs.	Mean of maximum temperatures	+	2·9°C
Relative Humidity	—	6·6%	,, minimum temperatures	+	1·7°C
Velocity of Wind	—	0·1 m.p.s.	Absolute maximum temperature	+	1·3°C
Amount of Cloud	—	0·9	,, minimum temperature	+	1·2°C
Greatest Rainfall intensity at Vacoas. ...					

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of OCTOBER 1937.

Month and Day 1937.	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.		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 the Beckley Pluviograph.	Duration		
OCT.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	mins.	mms.	
1	1013·5	+ 0·8	25·0	18·0	7·0	21·3	− 0·1	3·9	14·4	− 1·5	65	− 6	16·3	15·2	0·0	...	6·6	8·3
2	1012·9	+ 0·2	25·3	18·1	7·2	21·3	− 0·1	3·6	14·9	− 1·0	67	− 4	16·8	15·5	0·0	...	5·3	6·9
3	1013·9	+ 1·3	25·2	18·9	6·3	21·6	+ 0·1	3·2	15·9	− 0·1	70	− 1	17·9	14·8	0·0	...	5·9	7·3
4	1015·3	+ 2·8	26·0	19·8	6·2	22·3	+ 0·8	3·1	16·9	+ 0·9	71	0	19·0	18·9	1·2		6·4	6·2
5	1016·3	+ 3·8	24·3	18·3	6·0	20·9	− 0·7	2·8	15·9	0·0	73	+ 2	17·9	17·8	3·2	105	6·4	7·2
6	1013·9	+ 1·5	25·1	17·8	7·3	20·4	− 1·2	2·2	16·5	+ 0·6	78	+ 7	18·6	16·4	3·6	160	4·1	6·6
7	1011·1	− 1·2	25·8	17·8	8·0	21·3	− 0·4	3·0	16·0	0·0	72	+ 2	18·0	15·2	0·3	10	5·6	4·0
8	1011·0	− 1·2	24·8	18·0	6·8	20·7	− 1·0	2·2	16·8	+ 0·8	78	+ 8	18·9	16·4	4·3	35	4·8	6·6
9	1010·1	− 2·1	26·7	16·1	10·6	21·7	− 0·1	2·9	16·6	+ 0·5	73	+ 3	18·7	13·8	0·3	5	3·9	4·2
10	1009·0	− 3·1	28·0	17·9	10·1	22·4	+ 0·6	2·6	17·8	+ 1·7	75	+ 5	20·2	15·4	0·0	...	6·0	4·0
11	1009·6	− 2·4	27·2	16·7	10·5	22·2	+ 0·4	2·5	17·8	+ 1·7	76	+ 6	20·2	14·4	0·0	...	6·2	4·4
12	1011·2	− 0·7	27·9	19·7	8·2	22·6	+ 0·7	3·5	16·5	+ 0·3	69	− 1	18·6	17·0	0·0	...	5·8	6·9
13	1013·8	+ 2·0	26·3	17·0	9·3	21·4	− 0·5	4·4	13·6	− 2·6	61	− 9	15·4	13·7	0·0	...	6·0	4·5
14	1014·2	+ 2·5	26·4	14·8	11·6	20·7	− 1·3	3·7	14·1	− 2·3	66	− 4	15·9	10·4	0·0	...	7·0	3·7
15	1013·1	+ 1·5	26·5	16·9	9·6	21·6	− 0·4	3·8	15·1	− 1·3	66	− 4	17·0	12.6	0·0	...	7·4	2·3
16	1013·2	+ 1·7	27·1	18·8	8·3	22·6	+ 0·5	2·4	18·4	+ 1·9	77	+ 7	21·0	14·2	11·6	240	5·9	7·6
17	1014·2	+ 2·8	27·0	20·4	6·6	23·2	+ 1·1	2·7	18·5	+ 2·0	75	+ 5	21·1	19·9	1·0	55	6·1	7·8
18	1015·4	+ 4·0	26·7	19·6	7·1	22·8	+ 0·6	2·7	16·3	− 0·3	67	− 3	18·4	17·0	0·0	...	7·5	5·3
19	1014·9	+ 3·6	26·8	20·0	6·8	22·1	− 0·1	3·0	16·8	+ 0·2	72	+ 2	18·9	17·8	1·4	60	7·6	5·3
20	1013·2	+ 2·0	26·2	19·9	6·3	22·4	+ 0·1	2·6	17·8	+ 1·1	75	+ 5	20·2	18·2	11·0	50	4·1	6·9
21	1010·6	− 0·6	27·0	18·5	8·5	22·1	− 0·2	3·3	18·1	+ 1·4	78	+ 8	20·6	15·9	3·3	15	7·6	4·8
22	1009·0	− 2·1	29·2	17·6	11·6	23·3	+ 0·9	2·4	19·1	+ 2·3	77	+ 7	21·9	14·6	0·0	...	5·4	2·9
23	1008·6	− 2·4	28·1	19·2	8·9	23·6	+ 1.1	1·6	20·8	+ 3·9	84	+ 14	24·3	16·9	4·1	40	6.3	5·8
24	1007·5	− 3·5	28·6	20·2	8·4	24·6	+ 2·1	1·7	21·7	+ 4·8	84	+ 14	25·7	19·9	0·0	...	4·4	6·5
25	1007·6	− 3·3	27·9	17·9	10·0	22·6	0·0	3·3	16·8	0·0	70	0	18·9	17·2	0·0	...	5·7	4·2
26	1007·6	− 3·2	27·0	16·1	10·9	21·5	− 1·1	3·3	15·7	− 1·1	70	0	17·7	12·0	0·0	...	5·5	4·5
27	1008·3	− 2·4	25·6	16·1	10·5	21·2	− 1·5	3·3	15·4	− 1·5	70	0	17·3	11·9	0·0	...	6·0	3·6
28	1009·7	− 0·9	27·0	17·0	10·0	21·7	− 1·0	3·5	15·5	− 1·4	68	− 2	17·4	12·4	0·0	...	7·2	2·3
29	1010·9	+ 0·3	26·2	17·0	9·2	22·1	− 0·7	3·3	16·5	− 0·5	71	+ 1	18·6	13·4	0·0	...	6·4	5·7
30	1012·1	+ 1·6	25·6	21·2	4·4	22·8	0·0	1·8	19·5	+ 2·6	82	+ 12	22·6	18·9	5·0	35	5·6	9·0
31	1011·7	+ 1·2	26·0	21·4	4·6	22·8	− 0·1	1·5	20·2	+ 3·3	85	+ 15	23·4	20·3	4·0	155	3·7	9·1
Mean	1011·7	+ 0·1	26·6	18·3	8·3	22.1	0·0	2·9	17·0	+ 0·6	73·1	+ 2·9	19·2	15·7	Sum 54·3	Sum 1010	5·9	5·6
Aver.	1011·6	...	26·8	18·0	8·8	22·1	...	3·2	16·4	...	70·2	...	18·7	14·9	40·4	770	5·9	5·1
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

GENERAL WEATHER CONDITIONS DURING THE MONTH OF OCTOBER 1937.

During most of the month anticyclonic conditions prevailed. Interruptions occurred from the 7th—12th when pressure was relatively low and from the 21st—28th when the influence of a "low" to the South was felt. During this latter period mean and maximum temperatures and relative humidity were appreciably above normal.

For the month humidity was 3%, rainfall 34% and cloudiness 10% above normal but, in spite of this, sunshine also was above normal by 5%.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of OCTOBER 1937.

Month and Day 1937.	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.
OCTOBER	hrs.	%	m.p.s.	mp.s.	°C.	°C.	°C.	°C.	0h. 3h. 6h. 9h. 12h. 15h. 18h. 21h. 24h.
1	3·8	31	2·9	− 0·7	24·4	23·9	23·9	24·0	c : eq : c
2	7·6	62	3·0	− 0·6	24·4	23·9	23·9	24·0	c : o : bc
3	8·3	67	5·3	+ 1·7	24·4	23·9	23·8	24·1	c : bc : c : bc
4	10·2	83	6·3	+ 2·7	24·4	23·9	23·8	24·1	eq : bcq : bcqd$_0$
5	6·2	50	5·0	+ 1·4	24·3	23·9	23·8	24·1	bcr$_0$r$_0$: bc : c : ogqd$_0$: bc : cr$_0$: bcd$_0$d$_0$
6	7·8	63	3·7	+ 0·1	24·3	24·0	23·8	23·9	oqd$_0$: bcr$_0$: cr$_0$r$_0$: bcq$_0$: bc : bcd$_0$
7	10·5	85	3·8	+ 0·3	24·4	24·0	23·9	24·0	bcd$_0$: bc : b
8	1·9	18	3·0	− 0·5	24·3	24·0	23·9	24·0	cr$_0$: c : ogr$_0$: cr$_0$: bc : b$_0$
9	10·2	82	2·6	− 0·9	24·3	24·0	23·9	23·8	b$_0$: b : bc : c : bc : bcd$_0$
10	11·3	91	2·2	− 1·3	24·3	24·0	23·9	24·1	b : bc : b
11	11·6	94	3·7	− 0·8	24·3	24·0	24·1	24·5	b : bc : c : bc
12	6·4	52	2·9	− 0·6	24·3	24·0	24·1	24·8	bc : c : bc : c : bc
13	11·2	90	3·5	0·0	24·3	24·1	24·2	24·7	b : bc : : b
14	11·1	89	3·3	− 0·2	24·4	24·1	24·3	24·6	bc : b : bc : b
15	11·3	90	3·0	− 0·5	24·3	24·1	24·3	24·7	b$_0$: b : bc : b : b$_0$
16	5·5	44	3·5	+ 0·1	24·3	24·1	24·3	24·6	bcr : bc : c : bc : c : or$_0$r$_0$: o : cr$_0$r$_0$
17	10·5	84	4·2	+ 0·8	24·3	24·1	24·3	24·7	or$_0$r$_0$: bc : bcq : c : bc
18	11·3	90	4·8	+ 1·4	24·3	24·1	24·4	25·0	b : bc : c
19	10·1	80	4·9	+ 1·5	24·3	24·1	24·5	25·0	bc : b : bcq : eqd$_0$d$_0$: bc : b
20	9·3	74	4·4	+ 1·0	24·3	24·2	24·5	24·7	cr$_0$: bcd$_0$: cr$_0$: bcq : oR : c
21	9·3	74	2·6	− 0·8	24·3	24·1	24·5	24·8	bc : b : bc : cr$_0$: bc
22	11·9	94	2·1	− 1·3	24·3	24·2	24·6	24·6	b : bc : b : bc : b
23	8·0	64	2·9	− 0·5	24·3	24·2	24·6	25·3	b . bc : or$_0$: c
24	11·1	88	3·2	− 0·2	24·3	24·1	24·7	25·4	c : bc : c : bc : b
25	9·2	72	2·4	− 1·0	24·3	24·2	24·8	25·6	b$_0$: b : bcg : c : bc : b
26	11·6	91	2·2	− 1·2	24·4	24·2	25·0	25·3	bc : b : bc : c : b
27	9·3	73	2·4	− 1·0	24·3	24·2	25·0	25·4	b : bc : b : bc : b
28	11·3	89	2·4	− 1·0	24·3	24·2	25·0	25·3	b : bc : b : b$_0$: b
29	7·6	60	4·6	+ 1·2	24·3	24·2	25·0	25·2	b : bc : c
30	2·3	18	4·5	+ 1·1	24·3	24·3	24·9	25·0	c : cR
31	4·2	33	4·6	+ 1·2	24·3	24·2	25·0	25·2	cr$_0$ oqr$_0$: eq : or$_0$: cr$_0$
Mean	8·77	70·2	3·51	+0.04	24·32	24·08	24·35	24·66	.....
Average	8·18	65·5	3·47	...	24·43	24·03	23·90	24·39	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF OCTOBER 1937.

Element	Highest			Date	Lowest			Date
Atmospheric Pressure	1017·7mbs.	at	09·00hrs.	on 5th	1005·9mbs.	at	15·00hrs.	on 25th
Temperature of the Air	29·2°C	at	13·10hrs.	on 22nd	14·8°C	at	05·40hrs	on 14th
Daily range of temperature of the Air ...	11·6°C		...	on 14th & 22nd	4·4°C		...	on 30th
Temperature of the Dew Point	23·6°C	at	09·00hrs.	on 24th	11·4°C	at	06·00hrs.	on 1st
Daily range of temperature of the Dew Point	5·4°C		...	on 22nd	1·8°C		...	on 31st
Minimum on Grass	...		...	...	10·4°C		...	on 14th
Relative humidity	96·8%	at	23·00hrs.	on 6th	43·8%	at	14·00hrs.	on 13th
Vapour Pressure	28·8mbs.	at	09·00hrs.	on 24th	13·4mbs.	at	06·00hrs.	on 1st
Evaporation in 24 hours	7·6mms.		...	on 19th & 21st	3·7°C		...	on 31st
Wind Velocity...	8·9m.p.s	at	10, 11 & 12hrs.	on 4th	0.6m.p.s.		...	often
Rainfall in 24 hours	11·6mms.		ending 24hrs.	on 16th	...		...	...
Duration of sunshine	11·9hrs.		...	on 22nd	1·9hrs.		...	on 8th

Mean Day Temperature of Air, 24·23°C Average 24·60°C Mean Night Temperature of Air 19·87°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 mms.	1.0 — 4.9 mms.	5.0 — 9.9 mms.	10.0 — 24.9 mms.	25.0 and over mms.	Lightning	Thunderstorm
...	3	16	12	...	2	9	1	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.)

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The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
Midnight	147	133	138	150	170	160	126	115	119	102	095	104	131	150	142	140	Midnight
1	141	132	137	149	165	153	124	112	111	100	093	101	130	150	138	132	1h
2	138	130	131	141	160	149	120	110	109	094	090	101	126	148	132	131	2
3	136	124	128	140	159	150	113	106	101	089	088	100	125	145	127	129	3
4	134	123	130	141	159	149	110	100	100	088	089	101	126	142	126	129	4
5	140	126	131	145	160	141	110	101	101	090	090	106	130	143	128	130	5
6	141	131	140	150	161	146	111	106	106	090	097	110	138	148	132	131	6
7	143	135	141	156	170	151	117	110	108	093	100	116	142	150	140	138	7
8	150	139	149	160	171	153	120	118	110	100	108	118	149	151	142	140	8
9	150	140	151	161	177	159	120	120	110	100	109	116	150	150	141	141	9
10	149	140	150	160	174	157	120	120	106	099	105	118	147	149	140	139	10
11	138	131	145	159	171	149	115	118	102	093	101	114	140	144	134	131	11
Noon	131	127	140	150	169	140	110	111	097	087	094	111	139	140	130	129	Noon
13h	126	121	131	143	160	130	100	103	090	080	088	101	128	132	120	121	13h
14	120	113	130	141	151	121	096	100	087	075	081	100	127	128	118	117	14
15	114	111	127	141	150	120	091	097	081	071	081	100	127	125	113	116	15
16	116	114	127	141	151	119	095	099	083	073	081	101	130	124	116	116	16
17	120	117	128	147	151	120	099	100	090	077	087	105	131	127	120	123	17
18	122	120	130	151	158	121	102	105	095	083	091	112	139	133	123	130	18
19	131	129	141	159	161	129	108	111	101	090	098	121	143	140	130	132	19
20	138	135	149	167	166	132	111	116	108	097	102	127	150	143	139	140	20
21	140	140	151	173	170	133	117	120	110	100	107	132	156	149	140	143	21
22	140	140	157	175	169	132	120	120	110	101	110	135	155	148	141	146	22
23	138	140	152	172	162	131	117	120	107	101	110	134	153	145	141	143	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
Midnight	141	158	161	153	128	101	097	083	080	087	081	098	109	121	123	1012·4	Midnight
1h	137	151	158	147	120	099	090	079	080	080	080	091	106	120	116	1012·0	1h
2	131	149	151	140	111	092	090	072	077	074	071	090	105	110	110	1011·6	2
3	124	145	150	139	109	090	081	068	073	070	071	087	101	110	110	1011·3	3
4	127	147	150	131	106	090	080	064	071	070	075	090	100	110	109	1011·2	4
5	131	149	151	135	108	091	081	064	071	072	080	092	100	112	110	1011·4	5
6	134	151	155	140	110	095	084	072	075	080	086	100	102	120	113	1011·8	6
7	140	158	160	141	112	099	089	080	080	086	091	103	111	128	117	1012·3	7
8	144	160	160	142	117	100	089	083	080	089	091	108	112	130	122	1012·9	8
9	150	162	160	144	117	099	090	090	081	088	091	107	114	131	130	1012·7	9
10	150	162	159	142	115	093	089	089	080	082	090	103	115	130	129	1012·6	10
11	146	160	150	140	110	090	087	081	078	080	086	102	111	128	121	1012·1	11
Noon	142	158	148	132	103	082	082	077	071	075	080	100	110	122	120	1011·6	Noon
13h	138	150	140	124	099	079	080	071	066	070	071	093	102	118	111	1010·9	13h
14	131	146	135	120	093	075	079	066	061	065	069	090	099	111	109	1010·5	14
15	131	141	130	112	089	074	076	063	059	060	066	083	099	110	104	1010·2	15
16	130	141	130	114	090	074	077	065	060	060	065	081	096	110	103	1010·3	16
17	133	142	135	112	091	078	080	069	063	062	072	086	100	112	110	1010·6	17
18	141	150	140	120	099	081	083	070	071	069	080	091	103	118	113	1011·1	18
19	150	156	141	126	101	088	088	071	079	074	088	100	111	124	120	1011·7	19
20	158	161	150	130	108	091	091	074	084	080	094	106	120	130	126	1012·3	20
21	160	164	154	131	110	100	099	078	090	086	099	108	120	130	130	1012·7	21
22	160	168	158	131	110	100	100	080	090	090	100	111	128	130	130	1012·9	22
23	160	167	158	130	105	097	091	080	090	088	100	112	125	128	129	1012·7	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	October 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean.
Midnight	4	7	5	7	7	7	4	5	0	3	2	8	3	3	0	3	10	4	7	5	6	3	1	9	0	5	1	3	1	9	10	4·6
1h	6	7	7	7	8	8	3	5	0	2	2	7	2	4	0	7	10	3	5	6	4	4	1	8	0	5	1	2	1	9	10	4·6
2	7	9	8	8	6	9	3	7	0	2	3	6	2	5	0	9	10	3	5	8	2	3	1	8	0	6	1	2	1	9	9	4·9
3	8	8	9	9	7	10	4	10	0	3	3	7	2	5	0	7	10	3	4	9	1	3	1	9	0	6	1	1	1	9	5	5·0
4	8	10	4	9	5	10	5	9	1	5	3	7	2	5	0	3	10	2	3	4	1	2	1	8	0	4	1	1	1	9	4	4·4
5	9	10	7	8	5	6	5	8	2	8	2	8	2	2	1	2	10	3	1	5	2	3	1	8	0	3	3	1	1	9	10	4·7
6	9	10	9	8	8	6	7	8	2	8	3	9	2	1	1	4	10	3	1	5	3	2	1	8	2	2	3	2	1	9	10	5·1
7	9	10	8	7	8	8	6	8	3	7	2	6	4	3	2	6	8	4	2	7	4	3	3	8	2	3	5	2	2	8	10	5·4
8	9	10	7	7	8	8	6	8	4	6	2	6	6	4	3	8	7	4	5	8	6	3	6	8	2	3	7	2	3	8	10	5·9
9	10	9	6	6	9	9	6	9	6	6	3	6	7	6	4	8	7	6	5	8	7	3	5	9	3	5	6	2	4	9	10	6·4
10	10	7	6	7	7	8	5	10	5	5	3	6	7	6	6	7	4	7	6	6	9	3	5	8	6	5	4	3	5	9	10	6·3
11	8	7	8	6	9	8	4	10	6	3	2	7	7	7	5	7	6	7	6	6	8	4	5	8	7	6	3	6	6	9	10	6·5
Noon	7	7	9	3	9	8	3	10	4	4	3	6	7	6	5	8	6	6	5	6	6	4	7	7	7	7	3	6	8	9	10	6·3
13h	9	7	7	3	6	3	3	9	4	4	3	7	6	6	4	9	6	6	6	6	6	4	8	7	7	6	2	6	8	9	9	6·0
14	8	5	7	5	7	5	6	9	7	4	6	6	6	5	4	9	6	5	8	7	6	4	8	7	7	6	1	7	9	9	9	6·4
15	6	4	6	7	7	6	4	8	7	5	8	8	8	4	4	9	5	6	9	5	5	3	10	7	8	8	3	6	10	9	8	6·5
16	7	4	7	7	7	8	3	8	6	5	8	9	8	5	3	9	7	5	6	7	6	4	10	7	9	8	6	1	10	8	9	6·7
17	9	4	9	7	9	5	3	6	9	5	8	9	7	4	3	10	8	4	9	5	7	5	9	9	9	8	6	1	9	9	10	6·9
18	9	5	9	5	8	5	3	6	8	5	7	9	6	4	3	10	8	4	9	5	7	4	9	7	9	8	7	1	9	9	10	6·7
19	10	6	9	3	6	5	2	4	7	2	5	9	5	1	2	10	8	6	9	10	6	3	9	4	8	3	6	0	9	10	10	6·0
20	10	6	8	3	9	5	2	2	6	1	6	8	3	1	1	10	9	9	7	10	5	0	9	3	4	1	5	0	9	10	10	5·5
21	9	7	7	4	7	5	2	1	6	1	6	7	2	1	1	9	9	9	4	10	4	1	8	2	2	1	5	0	9	10	10	5·1
22	9	3	6	5	5	5	2	1	3	2	6	5	2	1	0	8	9	8	3	9	3	1	8	1	3	1	3	1	8	9	8	4·5
23	8	4	7	7	6	4	4	0	3	1	7	3	2	1	0	8	6	8	3	9	4	1	8	1	3	1	3	1	8	9	8	4·5

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER.

Hour Ending. \ Day.	October 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	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.	hu.	m.	m.	hrs
6h	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	3	0	16	9	0	0	0·6
7	0	0	27	0	0	0	21	0	54	50	48	2	58	55	50	56	23	39	54	28	47	53	50	60	60	60	10	60	60	0	32	17·3
8	0	0	58	56	25	17	23	27	60	50	60	40	60	59	60	60	60	60	60	12	45	60	54	60	60	60	6	60	60	2	50	22·7
9	1	10	48	60	22	52	60	27	60	47	60	60	59	60	60	27	60	60	60	11	38	60	60	60	60	60	37	60	60	18	1	23·6
10	0	38	60	60	42	50	60	0	60	60	60	59	58	60	60	60	60	60	60	60	40	60	60	60	56	60	60	60	60	23	0	26·8
11	47	45	56	60	35	38	60	0	60	60	60	50	59	59	60	60	60	60	60	60	30	60	60	52	55	60	60	60	60	5	20	26·2
Noon	20	45	27	60	30	25	60	0	60	60	60	36	53	60	60	48	60	60	60	60	56	60	60	60	35	60	60	40	42	13	8	24·0
13h	7	38	60	60	34	60	60	0	55	60	60	25	49	53	56	8	60	55	60	60	60	60	47	57	12	60	60	42	60	0	42	23·7
14	13	55	60	60	50	60	60	0	60	60	60	36	59	54	60	7	60	60	58	60	59	60	36	60	44	60	60	40	40	2	5	24·3
15	50	60	60	56	35	59	60	0	54	60	60	49	60	59	60	3	60	60	42	60	60	60	13	60	42	60	60	46	4	45	29	24·8
16	54	60	40	55	45	52	60	5	50	58	60	14	60	60	60	0	60	60	45	52	53	60	0	18	48	60	60	60	0	28	56	23·7
17	28	60	3	50	32	40	60	0	40	60	59	12	59	50	60	0	54	60	47	48	42	60	30	28	34	59	40	60	0	0	7	19·7
18	7	43	0	36	22	12	47	17	0	52	47	3	59	35	34	0	14	46	3	48	28	60	8	58	38	36	30	60	0	0	0	14·0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	15	16	0	0	0	0·5

The total Amount of Registered Sunshine was 271·9 hrs. and the total possible sunshine was 387·6 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.*)

OCTOBER 1937.

Day. / Hour.	1d. Air.	1d. Excess of Air over Evap.	2d. Air.	2d. Excess of Air over Evap.	3d. Air.	3d. Excess of Air over Evap.	4d. Air.	4d. Excess of Air over Evap.	5d. Air.	5d. Excess of Air over Evap.	6d. Air.	6d. Excess of Air over Evap.	7d. Air.	7d. Excess of Air over Evap.	8d. Air.	8d. Excess of Air over Evap.	Day. / Hour.
Midnight	18·7	1·8	18·9	1·8	19·8	2·5	20·3	1·7	20·0	1·1	18·3	1·0	18·9	1·0	20·3	1·4	Midnight
1h	18·1	2·0	19·1	1·6	19·0	1·3	20·9	2·3	20·0	1·2	18·6	1·0	18·7	1·8	19·7	1·7	1h
2	18·9	2·6	19·8	2·1	19·0	1·8	21·0	2·3	20·1	1·5	18·8	1·2	18·2	1·2	19·1	1·1	2
3	19·1	3·2	19·7	1·7	19·0	2·1	21·1	2.2	19·9	1·8	18·2	0·9	18·7	1·4	18·9	0·9	3
4	19·3	3·5	19·6	1·7	19·1	2·2	21·1	2·2	19·8	2·7	17·9	1·2	18·1	1·3	18·8	0·9	4
5	19·0	3·7	19·6	2·4	19·7	2·4	21·2	2·4	19·9	3·6	18·2	1·1	17·9	1·3	18·3	0·8	5
6	19·7	4·6	19·6	2·4	19·0	1·6	21·0	2·8	20·0	2·7	18·5	1·2	18·3	1·2	19·2	1·1	6
7	19·8	3·6	20·3	3·2	21·0	2·2	22·0	3·9	20·2	3·6	19·2	1·2	19·8	2·0	20·2	1·3	7
8	21·2	3·2	21·3	3·9	22·1	3·1	23·3	4·4	21·5	4·3	20·0	1·2	21·2	2·2	21·8	2·8	8
9	22·8	5·7	23·0	5·0	23·0	4·0	24·0	4·8	21·0	3·0	20·6	1·3	23·2	4·2	23·9	4·3	9
10	22·6	4·4	24·0	5·8	23·8	4·9	24·4	4·5	23·1	5·3	20·0	1·0	24·3	5·1	22·3	2·5	10
11	24·6	6·5	24·3	6·4	22·5	3·7	24·0	4·0	23·2	4·5	22.2	3·2	25·1	5·9	22·1	2·1	11
Noon	23·8	5·1	24·2	5·4	24·3	4·6	25·0	5·2	21·8	2·6	23·3	4·4	25·1	5·9	22·3	2·4	Noon
13h	24·0	5·7	24·9	6·0	24·8	5·7	24·9	4·8	23·6	4·5	24·8	5·7	25·3	5·7	23·0	3·4	13h
14	24·1	5·8	24·3	6·2	25·2	5·8	25·0	4·9	23·5	4·5	24·6	5·6	25·0	5·1	23·2	4·3	14
15	24·8	6·6	24·0	6·0	23·9	4·9	24·0	4·0	22·9	4·0	22·9	4·9	24·9	5·7	23·1	3·9	15
16	24·3	6·4	23·7	5·6	23·1	4·1	24·1	4·2	21·0	2·1	24·0	5·3	24·0	4·9	23·0	3·4	16
17	23·1	5·0	22·9	4·9	22·5	3·8	23·0	3·4	21·9	3·1	22·6	4·6	23·1	4·9	22·6	4·2	17
18	22·0	3·9	21·1	3·6	21·8	3·8	21·7	2·6	20·8	2·8	21·0	3·2	21·1	2·9	21·1	2·3	18
19	21·0	2·8	20·0	2·4	21·0	2·8	21·1	2·1	19·8	1·8	20·1	2·1	20·1	2·0	19·9	1·7	19
20	20·7	2·5	18·2	1·9	20·9	2·1	20·8	1·5	19·8	1·2	19·3	1·6	20·0	1·9	19·1	1·4	20
21	20·5	2·2	19·1	1·9	20·9	2·2	20·7	1·6	19·2	1·2	19·3	1·3	19·2	1·5	18·9	1·6	21
22	20·1	2·0	19·4	2·3	21·0	2·1	20·9	1·8	19·1	1·1	19·0	0·4	20·0	1·9	18·9	1·7	22
23	19·2	1·5	19·9	2·8	21·2	2·5	20·1	1·0	19·1	1·2	19·1	0·3	20·5	1·5	18·1	1·1	23

Day. / Hour.	9d. Air.	9d. Excess of Air over Evap.	10d. Air.	10d. Excess of Air over Evap.	11d. Air.	11d. Excess of Air over Evap.	12d. Air.	12d. Excess of Air over Evap.	13d. Air.	13d. Excess of Air over Evap.	14d. Air.	14d. Excess of Air over Evap.	15d. Air.	15d. Excess of Air over Evap.	16d. Air.	16d. Excess of Air over Evap.	Day. / Hour.
Midnight	18·0	1·1	20·1	1·0	18·2	1·1	20·3	1·3	19·9	2·7	17·1	1·6	18·4	1·8	19·6	1·6	Midnight
1h	17·5	0·9	19·1	1·0	18·0	1·1	20·8	1·7	19·6	3·1	17·1	1·8	18·1	1·6	19·3	1·3	1h
2	17·1	1·0	18·8	1·0	17·6	1·3	21·1	2·0	18·9	2·9	17·6	2·3	17·3	1·3	20·5	1·3	2
3	17·0	1·0	18·0	0·9	17·1	1·0	20·3	1·6	18·2	2·3	17·1	2·0	16·9	1·3	20·2	0·5	3
4	16·9	0·9	18·1	0·9	17·1	1·1	20·2	2·0	18·7	2·7	16·2	1·4	17·2	1·3	19·3	0·5	4
5	16·1	0·9	18·9	0·9	16·9	1·0	20·1	1.9	18·5	3·3	15·2	1·4	17·6	1·5	18·8	0·8	5
6	16·2	0·4	19·1	0·4	16·8	1·0	19·9	1·9	18·0	2·8	15·1	1·4	17·2	1·2	19·9	1·0	6
7	19·8	0·7	22·0	1·4	19·4	1·3	21·0	2·4	20·0	2·8	20·2	3·2	21·9	3·3	22·2	1·9	7
8	23·0	3·0	22·9	2·2	22·9	2·6	22·9	3.4	23·0	5·1	22·3	4·4	23·8	4·8	23·9	2·8	8
9	24·2	3·5	24·1	3·1	25·2	4·2	25·1	5·9	24·1	6·0	23·9	5·7	25·0	5·5	25·0	4·3	9
10	25·6	4·9	26·1	5·1	26·8	5·0	27·0	5·3	24·9	6·7	24·5	5·7	25·2	5·7	26·0	5·3	10
11	25·7	5·3	26·9	5·3	27·0	4·9	25·2	4·5	25·7	7·1	25·1	6·8	25·8	6·1	26·9	6·3	11
Noon	26·1	6·0	27·7	5·5	26·9	4·8	27·0	5.7	25·0	6·3	25·5	6·5	25·3	6·0	26·8	5·7	Noon
13h	26·1	5·5	27·6	5.6	26·5	4·3	26·0	5·2	25·7	7·3	25·7	6·8	26·1	6·4	26·3	5·3	13h
14	26·0	5·9	27·1	5·3	26·1	4·1	27·9	6·0	25·9	7·8	25·3	6·3	26·0	6·9	26·1	4·8	14
15	25·6	5·3	26·9	5·0	26·0	4·0	25·3	5·1	25·2	7·3	25·0	6·0	25·8	7·2	24·8	3·1	15
16	25·3	5·2	26·1	5·0	26·0	4·1	25·0	4·9	24·1	6·9	24·1	5·4	25·6	7·4	25·1	4·2	16
17	23·9	3·8	24·9	3·9	25·0	3·2	23·2	4·2	22·9	5·9	23·0	4·9	24·1	6·3	22·0	0·9	17
18	22·9	3·3	23·9	3·0	23·7	2·6	22·1	3·9	21·6	4·5	21·4	3·6	22·9	5·0	21·3	0·6	18
19	22·1	3·0	22·0	2·1	23·1	2.0	21·5	3·4	20·3	3·1	20·0	2·2	20·8	3·1	21·2	1·1	19
20	22·0	3·1	20·9	1·9	22·3	2·0	21·0	3·0	19·3	2·2	19·0	2·2	19·7	2·6	21·5	1·8	20
21	20·9	1·9	19·8	1·6	21·2	1·2	20·1	2·9	19·1	2·7	18·5	2·4	19·2	2·1	21·9	1·5	21
22	20·6	1·2	19·1	1·2	21·0	1·8	20·2	3·0	18·1	1·9	19·0	2·2	19·0	1·8	21·7	09	22
23	20·6	1·0	18·5	1·2	20·9	1·3	20·1	2·9	17·1	1·9	19·0	2·0	19·2	1·5	21·3	0·4	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add 273.*)

OCTOBER 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	21·3	0·5	20·4	1·5	20·9	2·7	20·3	1·6	21·1	1·8	18·7	0·9	20·1	0·9	23·3	0·7	Midnight
1h	21·5	0·6	20·0	1·9	20·6	2·3	20·2	1·2	20·4	1·6	18·4	0·8	20·1	0·9	23·1	0·7	1h
2	21·5	0·5	19·6	1·8	20·6	1·9	20·5	1·5	19·9	1·7	18·2	0·6	20·0	0·9	23·0	0·8	2
3	21·1	0·8	20·0	2·0	20·7	2·9	20·2	0·9	19·1	1·2	18·4	0·6	19·8	0·7	22·9	0·8	3
4	21·1	0·8	20·0	2·0	20·2	2·0	20·5	1·4	18·5	1·2	18·0	0·9	19·2	0·5	22·9	0·8	4
5	21·0	0·9	20·5	2·5	20·9	2·8	20·0	1·0	18·6	1·3	17·7	0·7	20·1	0·4	22·9	0·8	5
6	21·4	0·6	20·1	2·2	20·8	3·0	19·9	0·9	18·9	0·9	17·9	0·8	20·5	0·5	22·9	0·8	6
7	22·0	0·5	22·0	2·8	22·8	3·8	20·9	0·9	21·1	1·2	21·0	1·0	22·7	0·9	24·4	1·2	7
8	23·2	1·4	24·1	4·7	24·0	4·3	22·1	1·9	23·9	3·2	23·9	2·1	24·3	1·5	25·8	1·8	8
9	25·1	3·9	25·3	5·6	24·1	4·3	23·7	3·1	24·1	3·2	25·8	3·6	26·2	3·2	27·1	2·1	9
10	25·6	4·4	25·4	5·2	25·3	5·4	25·0	4·3	24·3	3·0	27·0	4·2	27·0	3·4	26·7	2·5	10
11	26·1	4·7	25·6	5·5	26·1	6·4	25·7	5·0	24·0	2·8	27·7	4·9	27·6	3·8	27·9	2·9	11
Noon	26·6	5·2	25·9	5·4	25·9	6·4	25·6	5·0	25·1	3·3	28·7	5·1	27·3	3·5	28·1	2·9	Noon
13h	26·6	5·3	26·1	5·9	24·8	4·6	26·0	5·3	25·1	4·1	29·1	5·5	27·7	4·0	28·0	3·0	13
14	26·1	4·9	26·0	6·0	22·8	2·7	25·9	5·5	26·2	4·1	29·0	5·8	26·9	3·5	28·1	3·4	14
15	26·0	4·9	25·3	5·3	21·4	1·4	24·0	3·8	25·0	4·0	28·9	5·2	24·8	0·8	27·3	3·0	15
16	25·5	5·4	24·9	5·1	22·0	1·9	23·2	3·5	24·9	3·8	28·1	4·4	24·7	1·5	26·2	2·2	16
17	24·0	4·0	23·9	4·1	21·7	1·6	24·0	4·1	24·2	3·1	27·2	3·6	24·9	1·8	25·7	2·9	17
18	23·2	3·1	22·9	3·7	20·6	1·0	23·1	3·0	23·7	2·7	25·6	2·4	24·2	1·7	24·9	2·6	18
19	22·1	2·5	22·3	3·1	20·7	1·7	21·5	1·7	22·3	2·1	24·1	1·4	23·8	1·5	24·0	1·8	19
20	22·0	2·6	21·7	1·9	21·0	2·2	20·9	1·9	20·7	1·6	22·7	1·6	23·8	1·0	23·6	1·4	20
21	22·1	2·5	21·6	2·7	21·0	2·7	20·8	1·2	20·6	1·4	21·3	0·4	23·5	1·0	22·2	0·4	21
22	21·2	2·1	21·4	2·7	20·6	2·2	21·1	1·6	19·9	1·0	20·9	0·8	23·2	0·7	21·2	0·9	22
23	20·9	1·9	21·1	2·9	20·5	1·9	21·2	1·7	19·2	0·9	20·5	0·8	22·8	0·8	20·4	1·1	23

Day. / Hour.	25d.		26d.		27d.		28d.		29d.		30d.		31d.		Mean.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	20·8	1·8	18·0	1·8	19·0	2·0	17·4	1·3	18·0	1·4	21·5	2·4	22·0	0·6	19·7	1·6	Midnight
1h	21·4	2·3	18·0	1·7	17·6	1·6	17·2	1·2	18·0	1·1	21·8	2·3	21·9	0·7	19·5	1·5	1h
2	21·2	2·3	17·4	1·3	17·1	1·5	18·0	1·8	17·3	1·1	22·0	2·2	21·8	0·7	19·4	1·5	2
3	21·0	2·4	17·3	1·2	16·1	0·5	18·0	1·3	17·0	1·0	22·1	2·2	21·7	0·8	19·2	1·4	3
4	20·9	2·4	16·8	1·1	16·7	1·5	18·1	1·8	18·0	1·0	21·7	1·8	21·5	0·6	19·1	1·5	4
5	20·6	2·6	16·2	1·2	17·3	1·2	18·0	1·9	19·0	1·0	21·3	1·5	21·5	0·7	19·1	1·6	5
6	20·3	2·0	15·9	1·2	17·1	1·0	18·7	1·7	20·9	2·4	21·3	1·5	21·6	0·8	19·2	1·5	6
7	22·0	2·9	20·3	2·2	18·9	1·7	21·0	2·8	23·0	3·1	22·0	1·7	22·9	1·6	21·2	2·2	7
8	23·7	3·7	22·1	3·8	20·8	2·5	23·0	4·8	24·0	3·9	23·0	2·1	23·0	1·3	22·8	3·1	8
9	25·6	4.4	24·6	4·6	22·8	3·6	24·3	5·9	25·6	4·5	24·3	2·7	23·1	1·8	24·2	4·1	9
10	26·0	5·5	26·1	4·9	25·0	5·2	25·0	6·0	25·1	4·3	23·9	2·0	23·2	1·2	24·9	4·5	10
11	26·1	5·4	26·7	6·9	25·2	5·6	25·6	6·0	25·1	4·4	25·6	3·7	23·9	2·2	25·3	4·9	11
Noon	25·5	4·5	26·0	5·4	26·1	6·1	26·1	5·8	25·3	5·3	24·2	2·2	23·7	1·8	25.5	5·8	Noon
13h	25·9	4·1	26·2	6·2	26·0	6·7	26·0	5·2	24·8	4·4	24·8	2·7	25·2	3·2	25·7	5·1	13h
14	26·3	4·7	26·2	6·0	26·1	6·6	26·0	5·8	25·1	4·9	24·3	2·2	25·3	3·4	25·7	5·1	14
15	25·9	3·9	25·7	5·4	25·7	5·5	26·2	5·3	23·9	4·1	23·9	2·1	25·8	3·8	25,0	4·6	15
16	25·3	4·1	25·1	5·2	26·1	5·4	26·0	5·8	23·6	4·5	23·5	1·6	25·1	3·1	24·6	4·4	16
17	24·0	4·6	24·1	4·3	23·3	5·0	24·1	5·4	23·0	4·2	23·6	1·4	21·9	1·1	23·5	3·8	17
18	22·8	3·7	22·3	2·7	23·2	4·6	22·1	2·9	22·2	4·0	22·2	1·2	21·9	0·9	22·4	3·0	18
19	21·4	3·3	21·2	2·4	22·0	3·4	20·7	2·7	22·1	4·0	22·1	1·1	22·1	0·8	21·5	2·3	19
20	20.7	2·8	19·9	2·3	20·9	2·9	19·8	2·1	22·1	4·0	22·0	1·0	22·1	0·9	20·9	2·0	20
21	19·6	2·4	19·0	1·7	19·7	2·3	19·9	2·2	22·1	4·1	22·1	1·0	22·1	0·8	20·5	1·8	21
22	18·6	1·5	19·1	2.1	19·0	1·7	19·7	2·0	22·0	3·7	22·0	0·8	21·5	0·7	20·3	1·7	22
23	18·1	1·3	19·3	2·2	18·5	1·6	19·1	1·7	21·1	2·2	22·1	0·5	21·7	0·6	20·0	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 OCTOBER 1937.

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 1937.

Hour \ Day	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		9d.		10d. *		11d. *		12d. *		13d.		14d.		15d.		16d.	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	11	2·2	11	1·5	12	2·9	11	4·9	09	4·9	10	3·9	10	1·9	06	2·0	03	1·4	10	1·5	16	1·9	17	1·2	11	3·1	12	1·3	10	2·8	10	1·5
1h	11	2·1	11	1·0	10	2·3	11	4·5	10	4·6	10	3·1	11	3·1	11	4·2	08	1·4	10	1·5	16	2·1	15	1·2	12	3·2	12	2·4	10	2·3	11	1·1
2	11	2·2	11	2·1	12	2·4	10	5·0	10	4·0	10	2·8	13	3·0	12	2·2	08	1·8	10	1·2	15	2·1	15	1·3	12	3·0	12	2·9	10	1·9	04	1·3
3	11	2·6	12	1·2	12	3·9	11	4·8	11	4·2	08	3·6	12	2·1	14	1·4	09	2·0	10	1·4	15	1·8	15	2·0	12	2·6	12	1·9	10	2·2	04	1·2
4	11	2·9	10	1·4	12	3·6	11	5·0	10	4·2	10	3·3	10	2·9	14	2·0	08	1·8	10	1·2	15	1·8	14	2·1	12	3·1	12	1·4	10	2·1	04	1·9
5	10	2·0	10	1·8	12	3·1	11	5·7	10	4·6	11	2·7	10	3·1	13	2·0	09	1·5	10	1·6	15	2·3	14	1·9	13	3·2	12	1·1	10	2·6	10	1·3
6	10	2·2	10	0·8	11	4·6	11	5·1	10	4·6	10	3·5	12	3·2	10	3·1	08	1·6	10	1·5	14	2·1	14	2·1	13	2·4	12	2·0	10	1·9	10	2·6
7	10	2·0	11	1·8	11	3·9	11	6·3	09	6·0	09	3·2	11	3·5	09	2·8	10	2·0	07	1·2	14	1·1	14	2·6	13	3·4	11	3·3	10	2·3	10	3·0
8	06	2·1	12	2·3	11	5·6	12	8·1	09	5·1	12	4·3	07	3·7	08	3·1	09	2·9	03	2·1	18	1·3	14	3·1	11	4·3	12	4·9	10	4·0	10	4·1
9	08	4·2	11	5·1	11	6·7	11	7·9	09	7·3	09	4·3	08	5·3	06	3·9	06	3·3	01	3·8	21	1·9	15	2·2	10	4·4	12	4·5	09	4·1	10	4·0
10	05	4·0	12	5·5	10	7·3	11	8·9	09	8·0	11	5·4	08	5·5	12	4·0	05	3·6	02	3·9	25	2·3	d24	2·6	09	4·2	12	5·3	06	4·0	10	4·9
11	05	4·4	10	5·7	11	7·1	09	8·9	09	6·4	08	4·9	07	5·3	11	3·2	06	3·5	31	3·4	25	4·4	27	2·3	10	4·4	10	5·0	06	4·4	09	5·1
Noon	06	4·4	12	5·5	08	6·5	10	8·9	08	6·9	09	4·8	09	5·6	08	4·0	07	3·7	27	3·5	27	4·0	27	2·3	10	5·3	10	5·0	09	4·8	09	4·9
13h	07	4·4	09	5·0	11	7·8	11	8·4	10	6·6	08	5·7	06	5·4	10	4·5	04	3·4	29	3·1	24	4·7	d21	2·7	12	5·6	09	5·2	10	4·9	09	5·3
14	07	4·0	11	5·1	11	7·4	09	7·9	09	6·9	08	5·8	05	5·6	06	4·2	04	3·2	27	3·0	21	5·1	28	4·1	13	5·3	07	4·8	08	4·1	09	4·6
15	11	4·3	09	5·1	11	7·6	11	7·3	09	5·9	06	4·9	08	5·3	09	4·1	06	4·0	21	3·3	20	5·3	d05	3·8	12	5·3	09	4·8	09	3·9	11	5·0
16	08	3·7	12	5·0	09	7·3	11	7·3	11	5·5	08	4·6	08	4·4	06	4·0	05	3·3	24	3·1	21	4·7	r25	2·3	13	5·7	10	4·7	09	3·9	10	5·0
17	10	3·7	09	4·6	11	6·4	10	6·3	08	4·8	09	5·0	08	4·6	10	3·4	06	4·0	23	3·4	21	4·0	r13	3·6	13	4·4	10	4·5	09	3·6	09	4·4
18	10	2·5	11	3·7	11	6·4	09	5·9	11	3·4	09	3·3	07	3·2	10	2·4	06	3·3	22	2·0	21	3·7	13	4·8	12	2·3	10	3·5	09	2·9	10	3·4
19	10	2·7	12	1·4	11	5·7	10	5·2	11	3·0	10	2·7	10	2·8	10	1·8	07	2·2	22	1·2	21	2·1	13	4·9	12	3·1	10	1·8	09	1·6	10	4·0
20	11	2·3	12	0·6	11	4·1	11	5·2	10	3·5	10	2·2	09	3·4	10	2·2	09	1·6	22	1·1	18	1·8	12	4·8	12	1·7	10	1·8	09	1·8	11	3·6
21	12	1·8	12	0·9	11	4·1	12	4·7	10	3·0	11	2·1	09	3·2	10	3·0	09	1·9	22	1·5	17	1·4	12	4·4	12	3·0	10	2·0	10	2·2	10	3·5
22	12	1·9	12	2·2	11	4·4	09	4·4	11	3·1	11	1·8	07	2·2	10	3·1	07	2·2	16	1·1	17	1·4	12	3·8	12	1·3	10	2·5	10	1·5	10	3·2
23	11	1·3	13	2·9	11	5·1	11	4·3	10	3·4	11	2·9	06	2·5	10	2·3	10	2·1	16	1·4	17	1·0	11	3·7	12	1·1	10	2·3	10	1·8	06	3·4

Hour \ Day	17d.		18d.		19d.		20d.		21d.		22d. *		23d.		24d. *		25d. *		26d. *		27d. *		28d. *		29d.		30d.		31d.		Mean.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity.
Midnight	09	4·1	10	2·7	11	2·8	09	3·2	07	2·2	07	1·1	11	1·5	02	1·7	11	1·1	12	0·9	15	1·2	13	1·2	11	1·2	11	2·6	10	3·9	2·3
1h	10	3·4	10	2·5	11	2·4	10	3·7	07	2·7	11	1·2	11	1·1	01	2·8	13	2·4	12	1·2	15	1·6	12	3·0	11	1·4	12	2·6	10	3·9	2·5
2	10	3·1	10	2·8	11	3·9	09	5·4	08	3·5	11	1·8	11	1·8	01	2·7	15	3·5	12	1·3	15	1·6	12	1·6	10	0·9	12	3·3	11	4·3	2·6
3	10	4·0	10	4·1	10	3·3	09	4·0	08	2·5	11	1·6	11	1·1	01	2·5	14	3·3	12	1·3	14	1·0	14	1·8	11	0·6	13	3·0	10	4·5	2·5
4	10	3·4	10	3·9	11	2·6	09	5·0	08	1·9	11	1·5	11	0·7	02	3·2	15	3·7	12	1·1	14	1·4	14	2·9	13	2·0	10	3·2	11	4·5	2·6
5	11	3·3	10	3·6	10	3·5	09	4·5	08	2·1	11	1·8	11	2·0	02	1·5	14	4·0	12	1·8	14	0·8	14	1·3	13	1·9	10	4·4	11	4·2	2·6
6	10	3·8	10	4·2	10	3·7	10	3·0	08	2·3	11	1·8	11	1·3	02	1·4	15	3·4	12	1·2	14	1·4	14	1·3	13	2·9	11	3·6	11	5·5	2·7
7	09	4·3	10	4·8	10	5·0	10	3·1	08	1·1	11	0·9	11	1·8	32	3·4	14	3·6	12	0·7	14	0·8	15	3·4	11	2·1	10	4·4	11	6·4	3·0
8	08	5·2	08	5·6	09	7·3	10	4·1	05	2·4	07	1·1	04	3·1	31	4·4	17	2·7	12	0·6	20	1·3	14	4·0	12	5·0	09	4·4	09	6·5	3·8
9	08	5·7	09	6·2	09	7·3	09	4·1	03	3·3	32	1·8	04	4·4	30	4·4	16	1·1	12	1·1	23	1·7	13	2·7	12	6·1	11	5·3	10	6·0	4·3
10	06	5·5	09	6·4	09	7·8	07	5·5	08	3·3	02	3·4	02	4·5	28	5·2	16	1·6	r30	2·6	23	3·3	07	1·7	12	6·4	10	4·8	10	6·3	4·8
11	05	5·4	09	6·5	09	3·4	08	5·8	05	4·3	02	3·3	02	4·7	26	4·4	13	1·9	r21	3·6	24	4·3	23	1·9	12	6·3	11	5·7	08	7·8	4·9
Noon	05	5·8	09	5·4	09	7·6	06	6·2	06	4·4	31	3·3	04	5·2	26	4·8	10	2·4	20	3·7	22	4·4	26	2·4	12	6·7	11	4·9	08	6·1	4·9
13h	06	5·7	09	6·5	08	7·0	07	6·4	05	4·4	01	3·9	03	5·5	26	5·2	r27	2·2	27	3·9	21	5·4	24	3·3	11	6·4	10	4·9	08	5·5	5·1
14	05	5·7	09	6·8	08	7·2	05	5·9	02	4·1	31	3·5	02	5·4	25	4·3	01	4·0	28	3·7	24	4·4	22	3·4	12	7·3	11	6·0	10	6·0	5·1
15	08	6·0	09	6·6	09	6·7	05	6·3	05	4·1	29	3·3	02	4·4	27	4·8	32	2·3	22	3·6	21	4·9	23	2·9	12	6·6	09	6·3	11	5·1	5·0
16	08	5·3	09	6·5	09	5·7	09	5·4	06	3·2	29	3·2	02	4·2	25	4·0	30	2·1	20	3·1	22	5·4	21	1·6	10	6·7	11	5·1	08	5·2	4·6
17	09	5·0	09	5·6	08	4·3	08	4·8	04	3·5	32	2·9	02	4·4	22	5·1	r19	3·0	21	4·3	r10	3·8	r12	4·6	11	6·6	11	4·9	10	4·2	4·4
18	08	4·7	10	5·2	08	4·0	07	4·3	04	2·1	32	1·8	03	3·0	21	3·7	11	2·2	20	3·2	12	2·6	12	3·4	11	6·6	10	4·5	09	2·1	3·6
19	09	3·1	10	3·9	10	3·9	06	4·4	04	1·2	32	1·3	03	2·2	21	3·2	11	2·7	20	1·6	12	1·6	11	1·3	11	6·1	12	4·9	07	1·6	2·9
20	09	2·3	07	3·2	09	4·2	09	2·8	05	1·0	32	0·7	03	2·0	21	1·3	12	1·6	17	1·8	13	1·1	11	2·0	12	4·7	11	5·2	10	2·7	2·5
21	09	2·7	10	4·4	09	4·4	10	2·2	07	0·7	32	1·3	03	1·6	21	0·8	12	1·1	16	1·9	12	0·9	11	2·2	11	5·9	10	5·3	10	2·8	2·6
22	09	1·8	10	4·4	09	3·9	08	3·0	07	1·0	d11	1·3	03	1·7	r11	1·5	12	1·1	15	1·8	12	0·9	11	2·1	11	4·9	10	4·9	10	3·1	2·5
23	10	1·8	10	3·7	09	2·7	07	2·3	07	0·6	11	1·3	03	1·4	11	1·2	12	0·6	15	1·7	12	1·1	11	1·2	11	3·3	10	4·2	10	2·7	2·3

TABLE XIII.—WIND FREQUENCY (NUMBER OF OBSERVATIONS) OCTOBER, 1937.

Hour.	Force (0-12).			Direction.															
	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	1	...	1	...	4	6	13	4	2	...	...	...	...	...	...	...
9	...	8	23	2	..	2	2	9	3	8	...	2	...	1	...	1	...	...	1
15	...	9	22	1	1	3	2	10	...	7	...	...	.	3	1	1	...	2	...
21	...	1	30	1	.	1	..	5	9	11	...	2	...	1	1	...	...	...	...
Totals	..			5	1	7	4	28	18	39	4	6	..	5	2	2	...	2	1

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for OCTOBER 1937.

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	...	...	..	2·0	.	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...	..	...	...
2	...	...	...	...	...	0·1	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
3	...	...	...	...	...	0·2	0·1	0·5	...	.	...	...	...	...	...	4·0	0·5	...		2·8	...	...	...	...	...	..	...	..	...	...	1·1
4	...	.	...	..	..	0·6	.	...	...	...	...	...	...	...	..	...	0·3	...	...	...	...	...	...		...	...	...	...	...	...	...
5	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	0·2	...	...	..	...	...	...	...	...	...	...	...	..	...	...
6	...	...	.	...	..	0·1	0·2	...	...	...	.	...	...	...	...	...	...	...	...	0·2	...	..	...	...	...	...	...	...	...	...	0·1
7	...	...	...	...	...	1·2	..	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...	..	...	..	...	..	...
8	..	...		..	.	0·4	...	...	...	...	...	..	...	...	...	...	...	...	.	...	...	...	..	...	..	...	...	...	...	...	...
9	...	..	...	...	...	...	..	...	...	...	...	...	...	.	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	..	...	0·1
10	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2
11	...	...	...	...	...	...	...	0·3	...	.	..	...	...	...	...	...	...	..	...	...	3·3	...	...	...	...	...	..	...	...	...	..
Noon	...	...	...	...	0·2	0·5		3·2	...	...	...	...	...	...	.	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1
13h	...	...	...	...	...	...	...	0·3	..	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	.	..	...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	.	...	...	...	...	..	...	...	..	...	...	...	...	0·2	...	...	...	0·2	...	...	..	..	...	...	...	...
16	...	...	...	...	0·2	...	...	..	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	3·9	...	.	...	...	...	...	...	...
17	...	...	...	...	..	..	...	...	...	...	...	...	.	...	...	1·3	...	...	0·4	...	...	...	...	...	...	...	...	...	...	...	0·7
18	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1·2	...	. .	0·5	...	...	..	...	. .	...	...	...	...	...	...	...
19	...	...	...	...	...	..	..	..	...	..	..	...	...	...	...	...	...	...	...	0·1	...	...	..	...	...	...	...	...	..	...	0·1
20	...	..	...	0·1	0·1	...	...	...	...	...	...	...	...	...	..	...	...	...	...	0·1	...	...	..	...	...	...	...	.	...	...	...
21	...	..	...	0·5	0·4	0·1	...	...	...	...	...	...	...	...	...	.	...	...	...	7·7	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	0·1	...	...	..	...	...	...	..	...	..	..	0·4	...	...	...	...	..	...	...	...	...	...	...	...	...	...	1·2
23	...	...	..	...	0·1	...	...	...	0·3	...	...	...	...	...	...	1·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2
24	...	...	...	0·6	0·1	0·2	...	...	...	...	...	...	...	...	...	3·5	...	...	...	...	...	...	..	...	...	...	...	...	5·0	...	0·2

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR OCTOBER 1937.

Hour \ Day	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	..	...	...	...	0·6	1·4	0·2	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1
2	...	...	0·1	0·2	0·7	0·4	0·2	0·4	...	...	...	...	...	...	...	...	0·4	...	...	0·1	...	...	...	...	...	...	...	...	...	...	3·2
3	...	...	.	0·2	0·4	...	0·3	...	..	...	...	...	...	...	..	...	0·7	...	...	...	...	...	..	...	...	...	...	...	...	...	0·6
4	...	...	0·1	0·8	0·1	1·7	...	...	...	.	..	...	...	...	...	...	0·5	...	...	..	...	...	...	...	...	...	...	...	...	...	0·5
5	...	..	...	0·1	..	1·0	0·7	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	..	...	...	...	...	...	...	0·4	0·9
6	...	...	0·7	0·1	...	...	...	0·2	...	...	...	. .	...	. .	...	...	1·4	...	...	0·7	...	0·1	...	...	...	...	..	...	...	0·5	1·5
7	..	0·1	0·7	0·5	...	..	0·2	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	2·1
8	...	...	0·6	...	..	0·1	...	...	...	...	...	...	..	...	...	...	...	...	...	1·0	..	...	...	...	. .	...	...	...	...	...	0·6
9	...	...	0·2	..	...	0·3	. .	...	...		...	...	...	.	..	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	0·1
10	...	..	...	...	...	0·4	...	0·4	..	...	..	..	...	...	...	...	...	.	...	...	...	...	...	. .	...	...	...	...	...	...	...
11	...	...	...	...	...	2·5	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	0·5
Noon	...	...	...	...	..	0·5	...	...	...	...	...	...	..	...	...	...	...	...	...	...	0·9	...	...	...	...	...	...	...	...	1·0	0·5
13h	...	...	...	...	...	..	...	0·2	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	..	...	...	...	0·4	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	0·5	0·1
15	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	0·2	...
16	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	0·7	...	...	0·2	1·5	...	...	...	...	...	...	0·1
17	...	...	..	...	0·2	...	...	...	...	...	...	...	..	..	...	.	...	...	0·2	...	..	...	0·8	...	...	0·4	...	...	...	0·1	0·4
18	...	...	...	...	0·6	...	..	...	..	..	...		...	...	...	0·5	..	...	..	...	...	...	..	...	...	0·1	...	...	...	0·2	0·3
19	0·2	...	0·2	...	0·3	...	..	..	...	...	...	...	...	..	...	0·4	...	..	...	...	...	...	...	...	...	...	...	...	...	0·5	0·2
20	..	...	0·7	0·7	0·3	.	...	...	...	...	...	.	..	...	...	0·6	...	...	...	0·5	..	...	...	...	...	...	...	...	..	0·4	0·7
21	...	...	0·7	0·6	·1	...	...	...	...	...	...	..	...	...	...	...	...	0·1	...	0·9	...	...	0·3	...	...	...	...	...	..	0·2	0·5
22	...	...	0·6	0·5	1·0	..	...	...	...	...	..	..	...	...	...	...	...	0·2	...	0·1	...	...	...	...	...	...	...	...	...	0·4	1·1
23	..	...	...	0·4	0·7	0·7	..	...	...	...	...	. .	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	1·2
24	...	...	0·5	1·8	0·8	0·7	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	..	...	...	...	...	0·3	0·9

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART, OCTOBER, 1937.

River System.	Station.	Approximate Altitude feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days.
1	Mare Sèche	20	...	...	2.16	...
	St. Antoine	50	0.85	21.6	1.48	4
	Bel Mont	50	1.31	33.3	1.68	7
	Poudre d'Or	20	1.99	50.5	1.74	7
	Mon Loisir (S.E.) ...	300	2.81	71.4	2.28	8
	Forbach	300	1.35	34.3	2.06	10
	Couroupa	...	1.64	41.7	1.86	7
	* Labourdonnais ..	290	...	...	2.01	...
	Mapou Water Office ..	...	1.74	44.2	...	6
	Beau Séjour	300	2.97	75.4	2.49	12
	Mont Piton	650	3.22	81.8	2.52	11
	Mon Choix	700	2.16	54.9	2.27	13
	Antoinette	640	...	...	2.33	...
	Mon Songe	620	2.98	75.7	2.53	8
	Botanical Gardens ..	325	2.04	51.8	20.9	16
	* The Observatory ..	179	2.14	54.3	1.67	14
	Solitude	175	...	...	1.18	...
	St. André (Cour) ...	90	1.28	32.5	1.43	7
	La Nicolière	...	4.45	113.0	2.07	14
	California	...	3.35	85.1	...	14
	Australia	..	3.48	88.4	...	7
2 & 3	Union Régnard (Flacq S.E.) ...	600	2.07	52.6	2.39	3
	Constance d'Arifat (L.S.) ...	100	3.10	78.7	2.21	12
	Rich Fund	600	3.01	76.5	2.64	10
	La Joffrette	...	3.25	82.6	...	10
	Belle Vue (Allendy) ...	...	3.16	80.3	2.70	11
4	Sans Souci	900	7.38	187.5	5.51	15
	Beau Champ (G.R.S.E.) ...	20	15.8	40.1	2.32	12
	Olivia	400	4.37	110.0	4.15	13
	Trois Ilots	...	3.73	94.7	..	15
	Belle Rive	400	7.28	184.9	5.11	13
	Sébastopol	700	5.70	144.8	...	20
	Bonne Veine	400	3.41	86.6	5.05	12
5	Rose Belle	850	6.17	156.7	6.19	18
	New Grove	650	6.81	173.0	...	19
	Mon Trésor	...	2.80	71.1	...	11
	Mon Désert (Carié) ...	75	2.16	54.9	2.80	10
	Ferney	20	...	...	3.50	...
	Sauve Terre	...	1.90	48.3	...	10
6	Tivoli	1,300	6.88	174.8	5.69	18
	La Flora	1,050	6.92	175.8	5.28	20
	Riche Bois (Brit.) ...	650	3.94	100.1	4.08	18
	Britannia (Estate) ...	700	4.32	109.7	4.35	20
6	Savannah (Mill) ...	200	2.29	58.2	2.79	10
	St. Aubin	300	2.31	5.87	2.75	17
	St. Avold	900	5.09	129.3	4.33	18
	Colmar	400	4.37	110.0	3.35	18
	Union (S.E.)	...	2.66	67.6	2.31	11
	Fontenelle	320	3.50	88.9	2.92	13
	Choisy	200	2.10	53.3	2.30	10
	Beau Bois	...	3.28	83.3	...	14
	Bel Air	...	1.90	48.3	...	5
	St. Félix	...	1.83	46.5	...	5
7,8,9&10	Bel Ombre	40	...	..	2.22	...
	Beau Champ (3 du Cap) ...	70	...	...	2.15	...
	Frédérica	...	...	...	2.76	...
	Pierre Fonds	...	0.97	24.6	1.83	9
	St. Marie	...	...	...	...	...
	Bussonia	...	...	..	...	...
11	Curepipe Gardens ...	1,840	6.46	164.1	4.64	30
	Mare aux Vacoas (G.E.) ...	1,850	6.50	165.1	5.87	16
	Mare aux Vacoas (Arn.) ...	1,830	8.36	212.3	5.79	16
	La Marie Filter Beds ...	1,700	3.41	86.6	3.60	15
	* Sophie	...	6.95	176.5	...	18
	Réunion	1,420	2.06	52.3	2.97	10
	* Aerological Station ...	1,393	2.74	69.7	2.65	20
	Phoenix	...	2.00	50.8	...	6
	Quatre Bornes ...	...	1.10	27.9	...	7
12	Quatre Bornes (Board) ...	1,090	1.63	41.4	...	9
	* Le Réduit (D. of A.) ...	1,000	1.98	50.2	1.75	17
	Alma	1,460	3.47	88.1	4.68	13
	Bagatelle	1,250	4.38	111.3	2.01	10
	Highlands	1,300	3.28	83.3	3.25	9
	Trianon	950	1.85	47.0	1.86	9
	Val Ory	1,100	...	...	20.4	...
	Bassin	.	0.63	16.0	2.00	6
	Hermitage	1,450	5.65	143.5	3.66	11
	Ebène	...	1.76	44.7	...	9
	Béga	...	1.44	36.6	...	9
	Mon Rêve	...	2.29	58.2	...	9
	Mon Pevril	...	1.53	38.9	...	8
	Minissy	1,150	2.69	68.3	2.15	9
	Plaisance	...	3.44	87.4	...	9
	La Ferme	350	0.32	8.1	1.20	4

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 OCTOBER 1937.

Day.	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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...
4	11¾	120	67·1	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	9¾	90	13·9	90	9·3	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	11½	...	...	150	...	...	...	...	...	...	...	300	1·61
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	11½	90	17·7*	90	6·9*	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...
26	11¾	...	...	285	6·6	285	6·2	...	...	...	...	300	8·3
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...

Day.	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
		°		°		°		°		°		°	
1	14¾	...	...	120	5·1	...	...	...	...	...	...	...	...
2	15½	...	...	105	6·8*	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...
4	15½	110	24·2*	105	10·0*	...	...	...	...	...	...	...	...
5	13¾	98	28·1	90	14·4*	...	...	...	...	...	...	...	...
6	14½	120	15·1*	90	8·2	120	5·8*	...	...	...	...	...	...
7	15½	90	12·9*	105	7·4*	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...
9	15½	...	...	...	...	60	2·1*	90	4·0*	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...
11	14½	...	...	255	11·9	...	...	292	3·8*	290	4·1*	300	...
12	13¾	...	...	255	6·0	...	...	...	...	...	...	...	...
13	14½	150	9·6	150	7·9	...	...	...	...	...	...	293	6·3*
14	15½	...	...	120	8·4*	...	...	...	...	...	...	300	6·2*
15	15½	...	...	180	3·0*	...	...	...	...	...	...	...	...
16	15½	...	...	96	11·9*	105	11·5*	...	...	...	...	...	...
17	14¼	120	20·3*	128	8·2*	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	15½	75	33·5*	90	10·5*	...	...	...	...	...	...	...	...
21	14¾	45	8·2	45	12·1	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...
26	15	...	...	330	5·2	...	...	...	...	...	...	315	...
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.

* Observatory Pamplemousses.

4/6/38—R.A.O 250.

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NEW SERIES (MONTHLY) VOL. XXIII. PART 11. PRICE 0.75

ROYAL ALFRED OBSERVATORY, MAURITIUS.

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

NOVEMBER, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

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TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF NOVEMBER 1937.

Month and Day. 1937	Mean Declination (West).	Mean Horizontal Force. (C.G.S. Units)	Mean Vertical Force. (C.G.S. Units.)	Daily Range† Declination.	Daily Range† Horizontal Force. Unit 1 γ	Daily Range† Vertical Force. Unit 1 γ	HRH: 10000	ZRZ: 10000
Nov.	° ′			′				
1	13°25·7	·22475	·29763	10·4	68	37	153	110
2	26·6	477	764	10·8	42	37	94	110
3	26·2	473	762	13·3	45	43	101	128
4	26·2	483	765	11·0	39	33	88	98
5	26·0	492	760	12·7	62	39	139	116
6	26·8	484	763	13·5	53	43	119	128
7	26·3	477	765	12·0	32	33	72	98
8	26·5	468	769	9·7	42	24	94	72
9	26·6	458	770	11·2	50	26	113	77
10	26·7	466	769	8·5	34	30	76	89
11	26·7	467	768	11·0	24	39	54	116
12	26·6	466	773	17·0	35	24	79	72
13	27·1	475	771	10·0	20	21	45	63
14	26·8	475	773	7·3	29	17	65	51
15	26·8	484	772	9·7	30	26	68	77
16	27·1	489	773	6·8	23	21	52	63
17	26·7	489	776	9·7	49	20	110	60
18	26·5	458	784	8·3	87	24	196	72
19	27·6	440	784	12·0	82	43	184	128
20	27·9	444	...	10·0	38	...	85	..
21	26·8	468	785	9·7	33	19	74	57
22	27·4	464	787	11·0	45	29	101	86
23	28·4	460	787	8·0	35	33	79	98
24	27·3	458	785	7·8	50	20	113	60
25	27·5	479	787	5·0	20	8	45	24
26	27·0	483	784	6·0	30	13	67	39
27	28·3	488	782	5·7	40	12	90	36
28	27·9	456	789	6·5	67	17	151	51
29	28·4	461	789	9·7	74	27	166	80
30	28·4	428	793	10·0	87	30	197	89
31	...	...	...	...	...	...	...	...
Mean	13°27·03	·22469	·29776	9·81	45·5	27·2	102·3	81·0

Description of the Principal Magnetic Disturbances.

Declination.—8d. and 9d. Slightly disturbed. 12d. Slightly disturbed. 18d. Slightly disturbed. 19d. Moderately disturbed. Considerable increase in daily range (14′·5). 20d. Slightly disturbed during second half. 22d., 23d. and 24d. Slightly disturbed. 29d. and 30d. Slightly disturbed.

Horizontal Force.—3d. Slightly disturbed. 7d. Sudden commencement at 21h. of a long but feebly disturbed period ending on 1d. Minor fluctuations in the trace with small oscillations superposed. 11d. and 12d. Slightly disturbed during second half. 18d. and 19d. Disturbed. Large fluctuations in the trace from 18d. 14h. with small oscillations superposed at times. 20d. Moderately disturbed. 21d. Slightly disturbed. 22d., 23d. and 24d. Moderately disturbed. 28d. and 29d. Moderately disturbed. 29d. 15h. Sudden commencement with an increase of 20γ of a moderately intense disturbance ending during December 1st. 30d. Important fluctuations in force during second half. Large increase in range.

Vertical Force.—7d. to 10d. Slightly disturbed. Small pulsations in the trace at times. 11d. and 12d. Slightly disturbed. 18d., 19d; and 20d Disturbed. Considerable alterations in the diurnal variation on 18d. and 19d. Small pulsations superposed at times on the fluctuating trace. 20d. and 21d. Moderately disturbed. 22d. to 24d. Slightly disturbed. Small oscillations throughout on the trace. 28d. to 30d. Moderately disturbed. Small oscillations of minor importance in the trace at times.

T=·37271 : Mean Dip=52° 57′·70 : (X=·21852 : Y=−·05228 : Z=·29776).
† The daily range is the difference between the greatest and least hourly values.

TABLE II.—RESULTS of ABSOLUTE DETERMINATIONS of the MAGNETIC ELEMENTS during the MONTH of NOVEMBER 1937.

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	° ′	
5·12·37	13·21·0	4· 8·47	·22487	5·12·47	52·50·25	·29733
12·14·53	13·21·0	6 9·40	·22494	12·14·40	52·57·44	·29751
19·12·32	13·20·9	11·12·53	·22453	19·12·39	52·57·38	·29757
26·13·53	13·24·7	17·13·18	·22507	26·11·36	52·56·12	·29784
		20· 9·25	·22453			
		25· 9·00	·22492			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS.

NOVEMBER 1937.

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	26·7	27·3	27·5	27·0	26·7	26·7	27·0	28·0	28·0	26·7	27·0	27·0	28·3	27·5	27·5	27·5	Midnight
1h	26·5	27·0	27·3	27·3	26·7	26·7	26·7	27·5	27·5	26·5	26·7	26·7	28·0	27·5	27·7	27·7	1h
2	26·5	26·7	27·5	27·3	27·0	27·0	26·5	27·5	26·0	26·5	26·5	26·7	26·5	27·3	27·7	27·7	2
3	26·3	27·3	27·3	27·5	27·3	27·0	27·3	29·0	26·5	26·5	26·5	27·0	27·5	27·5	28·0	28·0	3
4	26·7	27·0	28·0	27·7	27·7	27·5	27·0	28·0	27·5	26·7	26·5	26·5	27·7	27·7	28·3	28·0	4
5	27·3	27·5	28·2	27·8	28·5	28·0	28·0	30·0	27·5	27·3	26·5	26·7	28·3	27·5	28·5	27·8	5
6	27·5	27·3	28·5	28·3	29·0	29·0	28·5	29·7	28·0	27·7	27·5	26·0	29·5	28·0	29·5	28·5	6
7	29·5	29·0	31·0	30·5	31·0	31·0	30·5	30·0	30·5	30·0	30·0	28·0	31·0	30·0	31·0	30·0	7
8	30·7	31·0	32·0	31·0	30·7	32·7	32·0	27·5	32·5	30·5	31·7	28·0	32·0	30·3	31·7	30·3	8
9	30·5	31·5	31·5	30·3	31·0	33·5	30·5	28·0	31·7	30·5	32·0	28·7	31·0	29·5	30·5	29·5	9
10	28·0	30·0	30·0	28·3	28·5	31·5	28·5	26·5	28·5	29·7	30·7	28·5	30·0	28·3	27·5	28·7	10
11	25·0	27·5	26·0	26·0	26·5	28·0	26·0	26·0	26·0	28·0	29·0	28·5	28·0	27·0	26·5	28·3	11
Noon	23·0	25·0	22·0	24·0	24·0	24·5	23·0	24·0	23·5	25·0	26·0	27·0	25·7	25·0	24·0	26·5	Noon
13h	21·0	22·0	19·5	21·5	20·0	22·0	20·0	21·5	22·3	23·0	23·0	26·0	23·5	23·5	22·7	24·0	13h
14	20·3	20·7	18·7	20·0	18·3	20·0	20·0	20·3	21·3	22·0	21·0	22·0	22·0	23·0	22·0	23·5	14
15	20·3	21·5	20·0	20·7	18·5	20·3	20·7	21·0	21·5	22·0	21·5	21·7	22·0	23·0	22·0	23·5	15
16	21·5	23·0	22·0	22·0	20·7	22·5	23·0	23·5	22·7	23·3	22·7	23·0	23·5	24·0	23·5	24·7	16
17	24·0	25·5	25·0	25·0	24·5	26·0	26·3	26·0	25·5	25·5	24·5	25·5	25·5	25·5	26·0	26·3	17
18	25·3	29·5	26·0	25·8	26·0	26·7	26·5	26·7	26·7	27·0	26·3	26·5	26·0	26·5	26·5	27·0	18
19	25·5	25·3	25·7	26·0	25·7	26·3	26·0	26·5	27·5	27·5	26·0	26·7	26·0	27·0	26·0	26·5	19
20	25·7	25·7	26·0	26·3	26·0	26·3	26·3	26·3	26·5	27·3	26·5	27·0	26·3	27·0	26·0	26·0	20
21	26·3	26·0	26·2	26·0	26·3	26·5	26·0	26·5	26·7	27·0	27·0	27·5	27·0	26·7	26·3	26·2	21
22	26·5	26·5	26·5	26·5	26·5	26·7	26·5	28·0	27·3	27·3	27·5	28·0	28·0	27·0	26·5	26·5	22
23	27·0	27·5	26·5	26·5	26·7	27·0	28·0	28·7	27·5	27·5	27·7	28·3	28·0	27·5	26·7	27·0	23

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day \ Hour
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	27·3	27·3	29·0	27·5	27·7	28·0	28·5	28·5	27·7	29·3	28·3	28·3	28·0	30·5	...	27·7	Midnight
1h	27·5	27·3	29·5	27·7	27·5	27·5	27·5	26·5	28·0	29·0	28·5	29·5	28·0	29·5	...	27·6	1h
2	27·5	27·5	30·7	28·0	27·5	27·3	28·0	27·5	28·0	29·0	28·3	27·5	28·0	29·7	...	27·5	2
3	27·7	28·0	30·0	28·5	28·0	28·0	29·0	28·0	28·0	28·7	28·0	29·0	29·0	29·7	...	27·9	3
4	27·8	28·5	30·5	29·5	28·0	27·5	29·0	27·7	28·0	29·0	28·7	29·7	30·0	29·5	...	28·1	4
5	28·0	28·3	30·8	30·0	29·0	28·0	28·7	28·3	28·3	29·3	29·3	30·0	31·0	30·0	...	28·5	5
6	29·0	28·3	31·0	30·5	28·7	28·5	29·0	28·3	29·0	30·0	29·5	30·0	32·0	31·0	...	28·9	6
7	30·5	28·0	31·5	31·0	28·5	30·0	30·0	30·0	29·7	30·3	29·7	30·5	32·7	31·5	...	29·9	7
8	30·7	28·7	32·0	32·5	29·7	30·5	30·5	30·5	28·5	29·0	29·3	28·5	32·7	27·5	...	29·5	8
9	29·5	29·0	31·5	31·5	29·5	30·5	32·0	30·0	28·0	27·0	30·2	29·0	32·5	28·0	...	30·3	9
10	27·5	28·0	30·0	31·0	29·0	31·0	32·0	30·3	28·0	26·3	30·5	29·3	30·7	27·0	...	29·1	10
11	26·0	26·0	28·0	28·7	28·5	30·5	32·0	30·0	27·7	26·0	30·5	28·7	29·0	25·5	...	27·6	11
Noon	24·5	23·0	22·3	26·4	27·3	20·0	30·0	27·0	27·0	25·7	30·7	27·5	27·0	24·0	...	25·5	Noon
13h	21·0	22·0	21·0	24·0	24·0	25·0	28·0	24·5	26·5	25·0	30·0	26·0	26·3	23·5	...	23·4	13h
14	21·0	21·0	20·0	22·5	21·0	20·5	25·0	22·5	25·0	24·0	27·5	24·5	26·3	23·3	...	22·0	14
15	22·3	20·7	21·0	23·5	20·0	20·0	24·0	22·7	24·7	24·3	25·0	24·0	26·0	24·0	...	22·1	15
16	24·5	22·7	22·3	25·0	21·0	22·0	24·0	23·0	25·0	24·7	25·0	24·5	23·0	26·0	...	23·3	16
17	27·0	25·5	26·0	26·0	25·0	25·5	25·7	25·0	26·5	26·0	26·0	26·0	23·5	28·0	...	25·6	17
18	27·3	27·0	29·0	27·5	26·3	28·0	28·0	26·5	27·0	27·0	26·3	27·5	25·0	29·0	...	26·9	18
19	26·5	26·0	28·0	28·0	26·5	27·0	28·0	26·3	27·0	27·0	26·5	27·3	26·0	28·7	...	26·6	19
20	26·7	26·7	27·5	28·0	27·0	27·5	27·5	26·7	27·3	27·5	26·7	27·7	26·5	29·0	...	26·8	20
21	27·0	27·0	27·0	28·0	27·3	28·0	28·0	28·0	27·5	28·0	27·5	27·7	29·0	32·3	...	27·2	21
22	27·3	29·0	27·7	27·7	28·0	28·3	27·5	29·0	28·0	28·3	28·0	28·5	29·3	32·0	...	27·7	22
23	27·7	30·0	27·5	27·5	28·5	29·0	29·5	28·7	29·0	28·7	28·3	29·3	29·3	31·7	...	28·1	23

TABLE IV.—MAGNETIC HORIZONTAL FORCE at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS.

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

NOVEMBER 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	470	455	462	473	477	475	470	470	451	466	471	487	470	475	475	483	Midnight
1h	480	461	465	475	480	477	469	465	446	466	471	477	469	475	477	482	1h
2	473	462	467	479	481	479	471	473	461	468	473	464	472	475	477	481	2
3	471	470	473	480	482	478	471	470	456	471	475	463	469	475	475	480	3
4	471	472	468	480	483	481	472	465	456	466	474	465	469	474	475	480	4
5	470	475	467	478	481	480	471	455	461	466	476	467	469	479	475	480	5
6	468	477	471	480	480	477	472	470	464	468	474	472	471	473	478	484	6
7	475	480	465	481	482	480	472	475	466	469	473	475	473	472	481	493	7
8	482	483	460	485	490	481	471	477	471	468	469	473	474	473	482	496	8
9	495	485	465	492	497	485	482	477	468	466	467	473	479	475	485	495	9
10	505	490	463	500	502	495	485	487	481	471	469	464	485	484	493	499	10
11	513	497	475	507	520	505	483	487	476	476	465	455	489	489	504	493	11
Noon	515	495	485	507	527	515	485	485	463	478	453	452	487	492	505	493	Noon
13h	510	495	505	507	537	520	491	480	466	477	451	457	479	487	499	500	13h
14	495	490	497	500	530	515	492	471	468	471	463	462	478	482	494	503	14
15	480	485	483	485	515	500	491	467	461	464	451	455	477	472	495	498	15
16	472	481	475	475	500	482	483	460	451	461	457	455	472	470	493	493	16
17	463	475	467	468	485	475	481	455	431	456	459	461	472	463	487	490	17
18	460	470	468	470	477	470	475	462	438	452	462	467	473	464	482	486	18
19	455	470	470	472	477	490	467	460	441	444	467	467	476	469	479	485	19
20	447	470	470	471	477	467	460	465	454	458	470	469	477	469	479	485	20
21	447	472	471	473	475	467	475	460	458	464	469	468	476	473	475	485	21
22	449	471	472	475	477	467	480	450	458	463	468	464	475	474	482	485	22
23	452	465	473	477	477	469	473	445	456	466	472	475	474	475	482	485	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	487	480	425	439	460	465	448	460	478	478	488	485	458	418	...	466·7	Midnight
1h	488	480	429	440	463	468	463	470	468	473	485	483	455	428	...	467·6	1h
2	492	480	442	447	468	475	459	469	469	473	485	479	473	443	...	470·2	2
3	490	474	455	449	471	476	460	466	468	476	495	480	478	451	...	471·6	3
4	488	473	459	452	471	476	458	468	470	475	492	473	468	455	...	471·0	4
5	488	472	457	453	466	475	465	468	473	478	493	468	478	453	...	471·2	5
6	486	478	467	454	473	483	468	475	481	481	491	478	487	455	...	474·4	6
7	490	483	465	455	479	475	475	478	492	483	495	478	481	463	...	476·8	7
8	493	484	465	454	484	473	471	475	495	486	498	465	483	465	...	477·5	8
9	498	486	464	452	484	475	463	468	492	488	505	478	473	465	...	479·2	9
10	503	483	469	450	484	477	458	466	491	493	508	485	475	463	...	482·6	10
11	508	476	469	447	466	475	448	445	488	495	498	478	465	443	...	481·1	11
Noon	510	490	462	442	456	473	448	436	488	495	495	463	479	435	...	480·3	Noon
13h	510	485	459	437	451	485	458	438	487	498	485	451	478	435	...	480·5	13h
14	509	483	463	427	459	470	468	451	488	495	485	445	481	435	...	479·0	14
15	503	453	427	432	460	448	458	458	483	488	485	443	488	428	...	471·3	15
16	496	415	419	447	456	455	448	448	476	479	478	431	473	418	...	463·9	16
17	478	418	407	449	456	450	448	428	475	473	473	421	448	403	...	457·2	17
18	473	436	402	417	461	450	453	433	474	468	468	422	428	398	...	455·3	18
19	468	416	392	427	466	440	458	448	471	473	478	422	443	395	...	455·5	19
20	461	423	387	447	468	442	465	458	473	478	479	418	438	378	...	456·7	20
21	463	433	417	435	468	460	463	460	473	488	483	428	425	383	...	459·6	21
22	473	415	422	447	476	445	483	453	475	485	485	433	413	393	...	460·3	22
23	475	403	429	449	468	445	458	455	478	485	482	448	421	381	...	459·6	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 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	769	771	770	769	769	768	769	772	773	773	773	770	772	771	774	773	Midnight
1h	767	770	769	767	768	767	769	771	772	772	772	771	771	771	774	773	1h
2	768	770	769	766	767	765	768	771	771	772	772	772	771	772	775	774	2
3	769	771	769	766	767	765	768	773	772	772	772	773	772	773	776	775	3
4	770	771	770	767	767	765	769	774	773	773	773	773	775	775	776	776	4
5	771	772	771	768	769	767	770	775	773	773	773	775	775	775	777	777	5
6	772	773	771	771	770	770	770	776	775	775	776	776	779	778	780	779	6
7	776	777	776	777	772	777	778	773	780	779	781	781	782	782	783	781	7
8	777	776	777	780	769	779	778	772	781	780	783	782	781	781	783	780	8
9	771	772	772	779	765	775	771	772	776	780	781	785	775	780	780	779	9
10	755	760	761	773	757	764	763	771	769	775	775	783	771	773	773	778	10
11	744	751	751	764	750	750	761	769	761	770	769	782	769	769	768	778	11
Noon	740	746	740	754	743	738	752	761	759	761	759	777	765	765	757	770	Noon
13h	740	740	734	747	733	736	745	752	759	752	748	766	762	766	759	761	13h
14	745	740	737	747	734	741	757	753	755	750	744	761	760	770	760	760	14
15	752	749	744	752	739	749	753	757	757	753	750	767	761	770	761	760	15
16	761	757	755	760	750	758	763	765	762	760	760	770	766	774	766	765	16
17	762	765	763	762	760	767	767	770	772	769	765	771	770	777	773	770	17
18	763	764	766	762	762	766	767	769	774	771	769	771	770	777	774	771	18
19	767	765	765	762	761	764	765	767	773	771	767	770	769	773	771	771	19
20	768	767	765	764	763	765	767	769	772	770	768	770	769	771	771	771	20
21	770	769	767	767	764	768	769	771	771	770	770	771	768	771	771	772	21
22	771	769	768	768	767	770	769	773	773	771	771	772	771	772	772	773	22
23	771	770	769	769	768	770	771	775	773	772	772	771	770	772	772	773	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	775	780	792	793	789	789	792	789	786	789	782	783	792	800	...	778·4	Midnight
1h	774	780	791	792	789	789	790	787	787	788	783	786	792	798	...	777·9	1h
2	774	780	791	791	788	788	790	787	788	789	785	785	793	795	...	777·8	2
3	774	781	790	791	787	788	791	788	789	789	784	787	791	796	...	778·2	3
4	775	781	790	792	788	789	791	787	788	789	785	788	793	796	...	778·9	4
5	777	782	791	792	789	789	790	788	789	789	785	789	794	797	...	779·7	5
6	779	784	792	793	789	790	790	788	788	789	784	788	794	798	...	780·8	6
7	783	784	793	795	787	791	791	789	786	785	783	787	799	796	...	783·0	7
8	782	786	794	799	789	791	794	790	784	779	783	787	796	789	...	782·9	8
9	778	786	789	798	789	794	799	790	785	776	786	792	794	790	...	781·4	9
10	770	790	780	...	789	792	800	789	787	782	787	790	790	786	...	777·0	10
11	767	785	772	...	788	788	798	786	789	783	786	785	785	786	...	772·6	11
Noon	766	776	759	...	783	781	789	779	788	781	779	780	776	781	...	765·7	Noon
13h	763	772	754	...	777	771	782	773	783	782	776	781	772	779	...	760·9	13h
14	767	775	754	...	771	765	771	770	782	781	775	784	775	777	...	760·4	14
15	771	779	763	773	770	771	767	771	782	779	776	786	777	781	...	763·7	15
16	779	786	778	777	774	779	771	774	789	781	780	788	776	790	...	770·2	16
17	782	791	789	780	783	785	779	781	790	783	783	791	780	793	...	775·6	17
18	781	785	795	787	787	792	783	786	789	785	782	796	787	797	...	777·3	18
19	778	786	792	787	784	790	783	786	786	784	782	796	790	798	...	776·4	19
20	779	789	797	787	784	790	783	786	786	784	781	797	790	800	...	777·1	20
21	780	786	793	790	786	790	785	789	786	782	782	796	797	807	...	778·2	21
22	781	791	794	789	788	790	785	790	787	783	783	795	798	803	...	779·2	22
23	780	796	793	789	789	792	789	790	788	782	784	795	799	801	...	779·9	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 1937.

Month and day 1937.	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	969·9	21·8	0·9	20·2	90	23·4	90	2·7	10	19·9	21·6	23·0	20·2	24·6	19·9	4·7	1·9	37	6·0	47
2	969·0	23·5	3·8	16·9	66	19·0	70	3·6	7	19·1	22·7	25·0	19·0	25·6	19·0	6·6	0·0	0	11·8	92
3	968·1	22·9	3·5	16·8	68	18·9	80	3·1	8	18·5	22·5	24·4	18·4	26·0	18·0	8·0	0·0	0	8·4	66
4	965·6	24·5	5·6	14·9	55	16·8	340	2·7	6	15·9	22·0	26·6	20·7	26·7	15·9	10·8	0·0	0	11·8	92
5	966·1	25·7	4·2	18·5	64	21·1	360	2·2	9	19·1	23·1	26·5	22·5	26·8	18·8	8·0	2·4	21	9·4	73
6	965·3	25·5	4·0	18·7	66	21·4	Calm		9	18·5	23·6	26·0	22·0	27·1	18·5	8·6	0·0	0	7·3	57
7	966·9	24·9	3·9	18·2	70	20·7	90	0·9	7	19·0	24·0	23·9	21·3	26·8	18·1	8·7	0·0	0	7·5	58
8	967·4	24·0	4·5	16·3	62	18·4	75	4·5	5	20·0	23·5	25·5	20·5	25·6	19·5	6·1	0·0	0	11·6	90
9	967·5	24·2	4·8	15·9	60	17·9	70	3·6	8	19·0	20·6	25·4	20·5	26·6	18·5	8·1	0·1	1	11·0	85
10	967·4	24·6	4·1	17·6	65	19·9	70	4·0	7	19·4	24·1	24·5	21·5	26·5	19·3	7·2	2·5	42	6·7	52
11	967·6	22·7	0·5	21·8	95	25·9	70	4·5	10	20·4	21·9	21·4	20·2	24·1	20·3	3·8	49·0	503	0·3	2
12	968·3	23·5	2·5	19·2	76	22·0	45	4·5	10	20·7	22·0	26·0	21·0	26·4	19·9	6·5	6·8	78	7·1	55
13	968·0	22·8	1·2	20·7	88	24·2	70	2·2	10	20·0	23·6	24·1	21·2	26·3	19·9	6·4	5·2	26	5.6	43
14	967·2	23·9	2·5	19·6	77	26·6	45	4·0	8	21·0	23·2	25.0	20·9	26·0	21·0	5·0	0·0	0	7·7	59
15	967·2	24·4	3·2	18·9	71	21·6	35	7·2	7	19·8	23·0	26·5	21·0	27·3	19·0	8·3	0·0	0	10·3	79
16	967·0	25·3	4·1	18·3	65	20·8	70	4·0	7	20·9	23·7	24·7	21·5	27·0	19·4	7·6	0·0	0	10·4	80
17	967·4	24·5	2·6	16·6	61	18·7	70	2·7	6	21·0	24·0	25·3	21·0	27·2	19·5	7·7	0·0	0	8·2	63
18	968·2	24·5	5·0	15·9	59	17·9	70	7·2	1	20·0	23·7	25·6	20·6	26·1	19·6	6·5	0·9	7	11·6	89
19	968·5	21·5	1·9	18·1	81	20·6	80	5·4	10	19·1	21·5	24·4	20·2	25·0	19·1	5·9	3·9	21	7·8	60
20	967·8	23·4	3·4	17·5	69	19·8	70	4·5	8	18·2	21·4	24·5	19·5	25·1	18·0	7·1	1·7	16	10·5	80
21	968·6	23·0	2·7	18·3	75	20·8	90	6·3	9	21·9	21·9	21·2	19·0	23·4	18·0	5·4	5·4	40	8·2	63
22	968·8	24·4	3·9	17·7	66	20·1	70	6·7	6	18·9	22·0	25·0	20·4	25·9	18·9	7.0	0·5	4	9·4	72
23	968·5	23·7	4·2	16·4	64	18·5	70	6·7	5	19·9	23·0	24·5	20·2	25·7	19·2	6·5	1·1	9	10·2	78
24	967·7	23·5	5·1	14·6	57	16·5	70	4·0	7	17·4	23·0	24·4	18·1	25·7	17·4	8·3	0·1	1	9·2	70
25	967·7	23·5	4·3	16·0	63	18·0	80	4·5	8	16·8	22·5	25·5	19·0	26·4	16·7	9·7	0·0	0	11·4	87
26	968·4	24·4	5·9	14·3	53	16·2	70	5·4	4	18·0	23·0	25·2	19·8	26·3	17·9	8·4	0·0	0	12·1	92
27	968·6	22·4	3·1	17·0	72	19·2	85	2·7	10	18·6	19·6	25·0	19·6	26·0	18·0	8·0	3·6	25	8·2	62
28	968·0	23·7	4·2	16·4	64	18·5	80	4·0	6	17·8	22·7	25·0	20·0	26·4	16·1	10·3	0·1	1	11·2	85
29	967·8	24·7	6·2	14·0	51	15·8	110	3·6	5	18·8	23·6	25·2	19·6	26·6	17·8	8·8	0·0	0	11·7	89
30	966·3	25·2	5·5	15·8	56	17·8	Calm		8	18·7	24·1	22·0	17·2	26·8	17.2	9·6	3·8	36	6·9	52
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
Mean	977·7	23·9	3·8	17·4	67·6	19·8	...	3·9	7·4	19·2	21·3	24·7	20·2	26·1	18·6	7·5	89·0	868	8·98	69·1
Average	968·3	22.9	3·1	17·4	71·9	19·9	...	4·0	6·5	...	...	...	...	24·7	17·6	7·1	141·6	...	71·3	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	+	41·7 mbs.	Amount of rain	+	2·9 mms.
Temperature of the Air	+	2·7°C	Duration of sunshine	+	25·4 hrs.
Vapour Pressure	+	1·6 mbs.	Mean of maximum temperatures	+	2·3°C
Relative Humidity	—	5·6%	,, minimum temperatures	+	1·9°C
Velocity of Wind	+	0·8 m.p.s.	Absolute maximum temperature	+	3·8°C
Amount of Cloud	—	1·1	,, minimum temperature	+	2·1°C
Greatest Rainfall intensity		16 mms. in 37 mins.			

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of NOVEMBER 1937.

Month and Day 1937.	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 (Saturation=100). Mean.	Relative Humidity (Saturation=100). Excess above Average.	Vapour Pressure.	Minimum on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration	Amount of Evaporation.	Mean Amount of Cloud (Scale 0–10)
Nov.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	mins.	mms.	
1	1011·1	+ 0.7	27·2	21·2	6·0	23·4	+ 0·5	1·8	20·3	+ 3·4	83	+ 13	23·6	19·6	1·1	30	4·7	6·0
2	1010·5	+ 0·1	27·2	20·8	6·4	23·5	+ 0·5	2·8	18·6	+ 1·5	74	+ 5	21·2	19·0	0·0	...	5·7	3·0
3	1008·8	— 1·6	27·9	18·5	9·4	23·0	0·0	3·0	17·8	+ 0·7	73	+ 4	20·2	17·4	0·1	5	7·1	3·4
4	1006·6	— 3·7	30·1	18·0	13·1	24·0	+ 0·9	3·2	18·5	+ 1·3	71	+ 2	21·1	14·0	0·0	...	7·2	4·4
5	1006·7	— 3·6	29·8	21·2	8·6	24·9	+ 1·8	2·4	20·8	+ 3·6	78	+ 9	24·3	18·4	0·0	...	7·2	6·2
6	1006·9	— 3·3	29·9	20·2	9·7	24·5	+ 1·3	2·4	20·4	+ 3·1	78	+ 9	23·7	17·3	0·0	...	6·0	5·2
7	1008·2	— 2.0	29·1	20·1	9·0	24·2	+ 0·9	2·8	19·4	+ 2·0	75	+ 6	22·3	17·4	0·0	...	5·6	4·2
8	1008·4	— 1·7	28·1	19·8	8·3	23·9	+ 0·6	3·2	18·4	+ 1·0	71	+ 2	21·0	18·2	2·8	30	6·4	3·8
9	1008·0	— 2·0	28·2	20·5	7·7	24·1	+ 0·7	3·5	18·1	+ 0·6	69	0	20·6	18·2	0·0	...	7·8	3·5
10	1008·3	— 1·7	29·0	21·2	7·8	24·6	+ 1·2	2·8	19·8	+ 2·3	75	+ 6	22·9	18·5	2·3	115	6·9	6·6
11	1009·0	— 0·9	26·3	21·3	5·0	23·4	— 0·1	0·7	22·2	+ 4·6	93	+ 24	26·5	20·7	42·8	565	3·6	9·9
12	1009·2	— 0·7	28·0	22·7	5·3	24·4	+ 0·9	1·9	21·1	+ 3·7	82	+ 13	24·8	20·7	22·0	200	6·4	8·5
13	1008·4	— 1·5	27·9	21·7	6·2	24·2	+ 0·6	1·6	21·5	+ 4·0	84	+ 15	25·2	19·6	3·6	50	5·0	7·2
14	1008·0	— 1·8	27·9	21·7	6·2	24·4	+ 0·8	2·0	21·0	+ 3·5	81	+ 12	24·6	20·5	4·6	20	6·7	6·2
15	1008·2	— 1·6	28·8	20·8	8·0	24·5	+ 0·8	2·6	20·0	+ 2·4	76	+ 7	23·2	18.1	0·0	...	6·8	4·6
16	1008·2	— 1·6	28·1	21·8	6·9	24·6	+ 0·9	2·5	20·1	+ 2·5	76	+ 7	23·3	19·0	0·4	15	7·1	6·5
17	1008·5	— 1·2	28·3	20·4	7·9	24·4	+ 0·6	3·1	19·2	+ 1·5	73	+ 4	22·0	19·0	0·0	...	6·3	3·9
18	1009·7	0·0	29·0	21·2	7·8	24·4	+ 0·6	3·4	18·6	+ 0·9	70	+ 1	21·2	18·0	0·4	10	7·7	4·0
19	1009·3	— 0·3	28·1	21·1	7·0	24·2	+ 0·3	2·9	19·2	+ 1·2	74	+ 5	22·0	18·0	0·0	...	7·7	4·8
20	1009·4	— 0·1	29·0	20·1	8·9	24·1	+ 0·1	3·6	17·9	— 0·1	68	— 1	20·3	16·7	0·5	15	6·6	4·4
21	1009·8	+ 0·4	27·6	21·4	6·2	23·7	— 0·3	2·6	19·2	+ 1·0	76	+ 6	22·0	19·8	5·4	120	6·2	5·6
22	1010·1	+ 0·8	28·2	21·6	6·6	24·6	+ 0·6	3·4	18·8	+ 0·6	70	0	21·5	19·1	0·1	5	5.8	5·1
23	1009·7	+ 0·5	27·8	22·0	5·8	23·4	+ 0.3	3·8	17·9	— 0·4	67	— 3	20·3	19·8	2·4	50	8.0	6·9
24	1008·8	— 0·3	27·6	19·8	7·8	23·5	— 0·7	4·0	16·6	— 1·8	65	— 5	18·7	16·5	0·0	...	7·6	5·6
25	1009·7	+ 0·7	27·8	19·1	8·7	23·6	— 0·6	3·7	17·2	— 1·2	67	— 3	19·4	16·9	0·0	...	7·4	3·8
26	1009·7	+ 0·9	28·1	20·1	8·0	23·8	— 0·5	3·6	17·5	— 1·0	67	— 3	19·8	17·1	0·5	5	7·7	4·0
27	1009·4	+ 0·7	29·0	20·1	8·9	23·9	— 0·5	3·7	17·5	— 1·1	67	— 3	19·8	17·4	0·0	...	7·7	3·3
28	1009·5	+ 0·9	28·7	19·1	9·6	24·0	— 0·5	4·1	17·0	— 1·7	65	— 5	19·2	15·9	0·3	5	8·0	3·0
29	1008·9	+ 0·4	29·1	18·0	11·1	23·6	— 0·9	3·9	16·8	— 1·9	66	— 4	18·9	14·0	0·0	...	8·2	2·8
30	1007·6	— 0·8	28·1	19·2	8·9	23·1	— 1·5	2·8	18·2	— 0·7	73	+ 3	20·7	15·1	2·6	45	5·4	4·0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean	1008·8	— 0·8	28·4	20·5	7·9	24·0	+ 0·3	2·9	19·0	+ 1·2	73·6	+ 4·2	21·8	18·0	Sum 91·9	Sum 1285	6·7	5·1
Aver.	1009·1	...	28·4	19·6	8·8	23·7	...	3·4	17·8	...	69·4	...	20·2	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 1937.

Conditions were weakly anticyclonic, except from the 3rd—7th when there was a "low" to the South, during the first three weeks, pressure being consistently a little below and temperatures and humidities above normal. The remainder of the month was more strongly anticyclonic with the reverse of the above features.

The noteworthy departure from normal for the month was in rainfall, which was 106% in excess.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of NOVEMBER 1937.

Month and Day 1937.	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.
NOVEMBER	hrs.	%	m.p.s.	mp.s.	°C.	°C.	°C.	°C.	
1	9·8	77	3·4	0·0	24·3	24·4	25·0	25·2	0h. 3h. 6h. 9h. 12h. 15h. 18h. 21h. 24h. bc : cgr$_0$: bc : bcr$_0$: b .
2	12·2	95	3·9	+ 0·5	24·3	24·5	25·0	25·6	b : bc : b .
3	10·7	84	2·9	− 0·5	24·1	24·5	25·1	25·7	b : bc : bcd$_0$: bc : b .
4	12·2	95	2·7	− 0·7	24·3	24·5	25·2	25·9	b : bc .
5	7·1	55	2·3	− 1·1	24·3	24·5	25·3	26·1	bc : c : bc : b .
6	7·2	56	2·0	− 1·4	24·1	24·6	25·5	26·3	b . bc : c : bc .
7	8·5	66	2·4	− 1·0	24·3	24·6	25·6	26·3	b : bcq : c : bc : b .
8	12·1	94	3·1	− 0·3	24·3	24·6	25·7	26·6	b . cr : bc : b : b$_0$.
9	11·6	90	3·0	− 0·4	24·3	24·6	25·8	26·5	b : bc : b .
10	5·0	39	3·2	− 0·3	24·3	24·6	25·9	26·6	b : bc : c : or$_0$r$_0$.
11	0·7	5	3·6	+ 0·1	24·3	24·6	26·0	26·6	or$_0$r$_0$: o : oqr$_0$r$_0$: or$_0$r$_0$: olr$_0$r$_0$: or$_0$r$_0$.
12	6·7	52	3·1	− 0·4	24·3	24·6	26·0	26·1	orr : c : ct : c : bc .
13	6·7	52	2·8	− 0·7	24·3	24·7	26·0	26·4	b : bc : cr$_0$: cgr$_0$: cr$_0$: c .
14	9·5	73	2·9	− 0·6	24·3	24·7	26·1	26·6	c : or : cr$_0$: bcq$_0$: bc : b .
15	11·4	88	2·8	− 0·7	24·3	24·7	26·1	26·8	b : bc : b ,
16	9·1	70	2·7	− 0·8	24·3	24·7	26·2	27·0	bc : cr$_0$: c .
17	11·7	90	2·8	− 0·7	24·3	24·7	26·3	27·0	bc : b : bc : b .
18	11·8	90	3·5	+ 0·1	24·3	24·8	26·4	27·2	bcr$_0$: bc : b : bc .
19	10·1	77	3·7	+ 0·3	24·3	24·8	26·5	27·2	bc : b : bc : b .
20	11·6	89	3·9	+ 0·5	24·2	24·8	26·5	27·1	bc : b : bcq$_0$: bc : bcr$_0$.
21	9·7	74	4·7	+ 1·3	24·3	24·7	26·6	27·0	bcr$_0$: bc : bcqd$_0$: cqd$_0$: bd$_0$: b .
22	11·6	89	4·7	+ 1·3	24·3	24·9	26·6	26·9	bcd$_0$: b : bcq : bc .
23	11·0	84	4·2	+ 0·9	24·3	25·0	26·5	26·9	c : bc : bcq : cq : cr : bcr$_0$.
24	11·0	84	3·1	− 0·3	24·3	24·9	26·5	26·9	bc : c : bc ,
25	12·3	94	3·2	− 0·2	24·3	25·0	26·5	26·9	c : bc : b .
26	12·0	92	3·2	− 0·2	24·4	25·1	26·5	26·9	b : bc : cr$_0$: bc .
27	11·2	85	3·6	+ 0·2	24·3	25·1	26·6	27·0	b : bc : bcq : b .
28	11·5	87	3·1	− 0·3	24·3	25·1	26·6	26·9	bd$_0$: b : bc : b .
29	8·9	67	2·2	− 1·1	24·3	25·1	26·6	27·0	b bc : b .
30	10·0	76	2·1	− 1·2	24·3	25·1	26·6	26·9	b : bc : cqr : bc : b .
...	...	...	...	...	24·3	...	...	...	.....
Mean	9·83	75·6	3·16	−0.26	24·28	24·73	26·06	26·59	.....
Average	8·80	67·7	3·42	...	24·40	24·70	25·45	26·07	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF NOVEMBER 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1012·2mbs.	at 00·00hrs.	on 1st	1005·1mbs.	at 15&16hrs.	on 4th & 5th
Temperature of the Air	31·1°C	at ...	on 4th	18·0°C	at 02·10hrs. 05·40hrs	on 4th on 29th
Daily range of temperature of the Air ...	13·1°C	...	on 4th	5·0°C	...	on 11th
Temperature of the Dew Point	23·3°C	at 13·00hrs.	on 11th	14·4°C	at 16·00hrs.	on 28th
Daily range of temperature of the Dew Point	5·4°C	...	on 4th	1·5°C	...	on 25th
Minimum on Grass	...	...	...	14·0°C	...	on 4th & 29th
Relative humidity	98·2%	at 02·00hrs.	on 11th	44·1%	at 16·00hrs.	on 28th
Vapour Pressure	28·3mbs.	at 13·00hrs.	on 11th	16·3mbs.	at 16·00hrs.	on 28th
Evaporation in 24 hours	8·2mms.	...	on 29th	3·6 C	...	on 11th
Wind Velocity...	6·8m.p.s	at 16·00hrs.	on 21st	0.6m.p.s.	...	often
Rainfall in 24 hours	48·3mms.	ending 04hrs.	on 12th	...	...	...
Duration of sunshine	12·3hrs.	...	on 25th	0·7hrs.	...	on 11th

Mean Day Temperature of Air, 26·16°C Average 26·34°C Mean Night Temperature of Air 21·89°C. Average 21·30°C.

NUMBER OF DAYS OF—

Mean Cloud Amount					Rainfall					Lightning	Thunderstorm
	3	6	9		mms.	mms.	mms.	mms.	mms.		
0	|	|	|	10	:	:	:	:	:		
	1	4	7								
...	6	19	4	1	7	7	1	1	1	1	...

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

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level.)
(The cistern of the barometer is 55·2 metres above mean sea-level.)

NOVEMBER 1937.

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Hour \ Day
Midnight	122	116	106	076	074	072	083	098	091	083	096	101	097	085	088	091	Midnight
1	118	111	100	070	070	070	080	091	085	080	084	094	090	080	081	090	1h
2	111	110	096	061	061	062	074	083	080	077	080	090	081	075	076	081	2
3	110	104	091	058	060	061	070	081	079	072	080	077	079	073	074	080	3
4	110	104	091	057	060	060	070	080	077	072	080	079	080	072	075	080	4
5	110	105	092	060	063	062	071	081	080	075	080	081	080	078	078	081	5
6	112	108	098	061	070	069	077	084	080	082	081	092	083	081	082	090	6
7	118	111	100	066	073	072	081	089	082	089	090	100	090	090	089	091	7
8	120	111	100	070	076	074	083	090	081	090	095	107	091	091	090	091	8
9	120	111	101	077	077	079	086	090	084	090	100	104	096	090	090	090	9
10	117	110	097	074	074	076	082	090	081	090	096	100	091	088	085	086	10
11	110	109	091	071	072	071	081	088	079	087	091	094	089	081	082	080	11
Noon	105	103	090	069	070	067	080	081	072	082	090	090	081	079	080	076	Noon
13h	100	099	080	060	061	061	075	076	070	080	086	084	077	075	077	071	13h
14	093	091	077	056	060	058	074	071	069	072	081	081	071	070	074	068	14
15	092	090	071	051	051	053	071	070	069	067	073	080	070	066	071	061	15
16	092	090	070	051	051	056	074	070	066	069	073	078	070	066	070	061	16
17	100	092	071	055	055	060	076	076	070	071	090	081	073	070	076	070	17
18	106	099	078	060	060	066	080	080	072	077	096	090	080	074	080	074	18
19	111	103	080	070	067	071	090	088	090	090	101	097	085	081	085	084	19
20	117	110	082	073	071	076	099	090	096	092	106	100	090	089	090	090	20
21	120	111	088	080	077	080	100	092	090	093	097	103	091	090	091	095	21
22	121	116	089	082	080	088	100	094	091	099	104	107	092	091	092	098	22
23	120	112	084	074	078	086	100	091	089	099	105	102	090	090	091	093	23

The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.

Hour \ Day	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	...	Mean	Hour \ Day
Midnight	090	100	110	091	109	108	110	100	099	110	101	100	101	090	...	1009·7	Midnight
1h	088	096	104	090	101	101	103	093	093	101	097	096	099	082	...	1009·1	1h
2	082	092	100	087	099	100	100	090	092	099	091	090	093	080	...	1008·6	2
3	081	091	098	086	091	101	098	085	090	096	090	090	090	078	...	1008·4	3
4	079	094	094	086	090	100	096	081	090	095	090	090	090	076	...	1008·3	4
5	080	099	096	088	091	100	096	081	091	096	091	091	091	074	...	1008·5	5
6	081	102	099	092	100	102	099	089	097	100	096	098	096	080	...	1008·9	6
7	087	104	100	097	103	106	101	091	099	102	100	102	099	081	...	1009·3	7
8	090	106	100	098	101	110	107	091	100	103	103	105	098	087	...	1009·5	8
9	091	105	100	100	102	109	107	094	101	101	103	103	097	087	...	1009·6	9
10	090	101	098	098	106	105	104	093	100	100	100	100	092	081	...	1009·4	10
11	090	097	094	095	106	101	101	091	099	099	099	097	090	077	...	1009·0	11
Noon	081	092	090	095	100	100	099	090	093	094	091	091	082	071	...	1008·6	Noon
13h	079	089	085	090	097	094	092	082	090	089	090	086	080	070	...	1008·2	13h
14	071	081	080	082	089	091	089	080	088	086	081	081	076	061	...	1007·7	14
15	070	080	076	081	086	090	081	075	082	081	079	080	071	060	...	1007·3	15
16	069	081	074	080	084	089	081	072	081	081	077	080	070	062	...	1007·3	16
17	071	088	078	082	086	090	083	076	088	085	080	081	072	065	...	1007·7	17
18	080	093	081	091	091	092	090	080	092	091	086	090	080	070	...	1008·3	18
19	090	100	090	100	100	101	096	089	101	097	091	099	087	070	...	1009·0	19
20	099	107	092	103	104	109	101	095	110	101	098	101	090	079	...	1009·5	20
21	100	111	097	110	108	110	101	099	112	108	103	106	093	080	...	1009·8	21
22	103	114	099	111	110	111	103	102	115	110	107	108	099	081	...	1010·1	22
23	103	111	097	111	110	110	103	102	113	108	104	106	095	080	...	1009·9	23

TABLE IX.—AMOUNT of CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	November 1937.																														
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d ...	Mean.
Midnight	8	1	1	1	6	1	3	1	3	1	10	10	3	9	2	5	6	2	4	5	9	3	7	6	5	1	3	1	1	1	...	4·0
1h	7	1	2	1	6	1	2	1	3	1	10	10	3	9	3	5	5	4	3	3	10	5	8	5	7	1	3	1	1	1	...	4·1
2	7	1	2	1	6	1	2	1	3	1	10	10	2	9	3	4	4	5	5	3	7	7	9	5	8	2	3	1	1	1	...	4·1
3	7	1	2	3	5	1	1	1	4	1	10	10	2	9	2	4	3	4	4	4	4	5	9	4	9	2	2	1	2	1	...	3·9
4	5	1	3	4	5	1	1	1	3	1	10	10	2	8	2	3	2	3	3	4	4	3	9	4	7	3	2	1	2	1	...	3·6
5	5	1	3	2	5	1	1	10	3	1	10	10	5	10	5	2	2	5	3	1	5	4	6	5	3	1	4	1	2	1	...	3·9
6	5	1	3	5	7	2	2	9	3	1	9	10	6	10	5	4	2	4	3	1	5	3	4	5	2	1	3	2	2	1	...	4·0
7	7	2	4	4	7	3	2	7	3	3	9	9	7	9	5	5	3	4	4	3	5	5	5	5	4	3	5	3	3	3	...	4·7
8	9	3	5	4	7	4	3	4	4	6	10	9	9	8	5	6	4	4	4	4	4	6	5	5	5	4	7	4	3	4	...	5·3
9	8	5	5	6	8	5	5	5	4	8	9	9	9	8	6	6	5	5	5	5	6	8	7	5	7	5	7	6	5	4	...	6·2
10	6	6	6	5	8	6	6	6	4	9	10	9	8	8	6	6	5	4	7	5	7	7	5	8	5	6	6	6	4	5	...	6·3
11	5	6	5	5	8	6	6	6	4	9	10	9	10	8	6	6	6	3	7	5	8	6	4	7	4	4	5	4	4	5	...	6·0
Noon	6	7	5	6	8	5	6	6	4	9	10	9	7	7	6	7	6	3	7	7	6	5	6	7	4	3	4	5	4	8	...	6·1
13h	9	6	4	5	7	7	6	6	4	10	10	9	8	7	7	8	7	3	6	6	10	4	7	8	4	6	5	5	5	7	...	6·5
14	5	5	3	5	10	7	7	8	5	9	10	8	10	6	5	9	8	2	5	4	8	3	6	8	4	4	4	4	6	6	...	6·1
15	9	4	3	5	9	8	7	3	4	9	10	8	8	6	5	9	8	3	5	4	8	5	5	8	3	4	4	4	7	9	...	6·1
16	6	4	5	5	9	9	8	4	6	9	10	8	8	6	6	9	6	4	6	4	8	5	8	8	2	4	3	4	4	10	..	6·3
17	7	4	6	6	9	9	8	5	6	9	10	8	10	4	7	9	4	5	8	5	7	6	8	6	2	5	3	3	3	9	...	6·4
18	8	4	6	5	9	9	8	3	6	9	10	8	10	4	8	8	3	4	7	6	8	4	8	6	2	4	2	3	3	8	...	6·1
19	10	3	4	6	9	9	6	2	4	10	10	9	9	3	7	9	2	4	5	4	4	5	9	5	2	8	1	4	1	4	...	5·6
20	4	2	1	5	1	9	3	1	1	10	10	8	9	2	2	9	2	6	2	4	1	5	8	5	1	10	1	3	1	1	...	4·3
21	1	2	1	4	1	9	3	1	1	9	10	8	9	1	1	9	1	5	3	4	1	4	8	4	1	5	1	2	1	2	...	3·7
22	1	1	1	5	1	7	2	0	1	9	10	6	8	1	1	8	1	6	3	6	1	6	7	4	1	4	1	2	1	1	...	3·5
23	1	1	1	5	1	5	3	0	1	10	10	4	7	0	3	7	1	4	5	7	1	7	7	3	1	4	1	2	1	2	...	3·5

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER.

Hour Ending. \ Day.	November 1937.																														
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d ...	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	8	0	5	0	0	10	4	2	0	0	0	0	0	2	5	1	0	0	19	0	5	0	12	6	3	0	0	0	17	...	1·7
7	35	60	25	59	14	35	60	58	60	27	0	0	50	0	55	55	59	46	0	60	24	38	46	40	58	45	35	50	42	60	...	19·9
8	29	60	60	60	56	59	60	60	60	59	0	3	60	42	60	46	60	60	59	60	55	57	60	55	60	60	60	57	60	60	...	26·6
9	52	60	60	60	59	60	60	60	60	60	1	36	35	36	60	55	60	60	60	50	60	50	60	57	60	60	42	60	60	60	..	26·9
10	54	60	60	60	59	60	60	60	60	51	20	52	30	18	60	60	60	60	60	60	45	60	60	60	60	60	45	60	60	60	...	27·2
11	59	60	60	53	55	60	60	60	60	23	13	60	60	52	60	60	60	60	60	60	53	60	60	60	60	60	60	60	60	27	...	27·7
Noon	60	60	60	60	50	60	60	60	60	29	7	57	56	60	60	60	60	60	60	34	60	60	60	60	60	60	60	60	60	24	...	27·3
13h	54	60	60	60	50	36	60	60	60	25	0	8	50	60	60	45	60	60	50	57	28	60	60	55	60	60	60	60	60	46	..	25·4
14	40	60	60	60	37	40	48	60	60	0	0	30	53	60	60	47	60	60	60	60	28	60	55	58	60	60	60	60	28	57	..	24·3
15	50	60	60	60	24	25	13	52	60	8	0	60	8	60	58	55	60	60	60	60	60	60	60	50	60	60	60	60	16	16	...	23·3
16	58	60	60	60	5	0	8	60	54	17	0	27	17	60	49	28	60	60	57	60	50	56	60	52	60	60	60	60	23	60	..	22·0
17	60	60	40	60	4	0	11	60	60	4	0	50	0	60	60	4	60	60	56	58	60	56	60	50	60	60	60	60	59	60	...	22·5
18	54	60	37	60	10	0	0	60	40	0	0	20	0	57	40	18	45	60	23	55	58	60	20	45	59	60	60	22	8	20	...	17·5
19	6	6	0	11	1	0	0	10	0	0	0	0	0	6	0	6	0	2	4	0	1	16	0	7	14	13	11	20	0	22	...	2·6

The total Amount of Registered Sunshine was 294·9 hrs. and the total possible sunshine was 390·3 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.*)

NOVEMBER 1937.

Day. / Hour.	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	21·9	0·8	21·4	1·1	21·0	1·1	18·5	1·5	21·6	1·3	21·7	0·8	21·7	1·0	22·9	1·9	Midnight
1h	21·7	0·7	21·2	1·0	20·8	1·1	18·1	1·2	21·6	1·2	21·6	1·0	21·4	1·1	22·4	1·3	1h
2	21·5	0·6	21·1	0·9	20·5	0·9	18·1	1·2	21·8	1·0	21·2	0·8	21·0	1·0	22·1	1·1	2
3	21·6	0·6	21·2	0·9	20·2	0·8	19·0	1.1	21·9	1·0	21·0	0·9	20·3	1·0	22·0	1·1	3
4	21·4	0·5	21·2	1·0	20·2	0·9	18·3	1·1	21·6	0·9	20·5	0·7	20·3	1·0	22·1	1·0	4
5	21·6	0·7	21·1	1·0	20·0	0·9	18·1	1·0	21·3	1·0	20·2	0·6	20·1	0·9	21·9	1·0	5
6	21·7	0·7	21·5	1·3	20·2	0·7	18·3	1·1	22·0	1·0	20·4	0·6	21·0	0·9	22·0	0·7	6
7	23·0	1·2	23·0	1·9	22·2	1·1	23·0	2·3	23·9	1·0	23·6	0·5	24·0	1·6	23·8	1·8	7
8	22·4	0·7	24·9	3·2	24·7	3·4	25·1	4·0	25·9	2·8	25·4	2·3	25·5	3·4	25·0	3·4	8
9	24·9	2·5	25·8	3·6	25·0	3·8	26·2	4·2	27·3	3·5	27·3	3·6	26·4	3·6	26·6	4·8	9
10	25·2	2·7	26·7	4·6	26·0	5·0	27·3	5·1	28·1	4·3	27·6	4·4	27·8	5·1	26.6	5·1	10
11	26·5	3·8	26·7	5·0	26·7	5·7	28·5	5·8	29·0	5·0	28.9	5·4	28·1	5·4	27·2	5·9	11
Noon	26·8	4·1	26·9	4·9	27·3	6·2	28·7	5·1	28·1	3·3	29·0	5·4	28·1	5·1	27·2	5·9	Noon
13h	26·8	4·2	27·0	5·2	27·0	6·0	29·4	6·1	29·2	5·1	29·0	5·3	29·1	6·4	27·6	6·1	13h
14	26·6	4·1	26·9	5·1	27·0	6·0	29·9	6·7	28·8	4·8	28·8	5·5	27·1	4·5	27·6	6·2	14
15	24·1	1·8	26·9	5·6	26·2	5·3	30·1	5·4	28·8	4·7	27·3	3·7	27·1	4·8	26·7	5·1	15
16	25·3	3·1	26·1	5·8	26·0	5·3	29·6	6·3	27·8	3·8	26·2	3·3	26·1	4·1	26·2	5·4	16
17	24·9	3·2	25·0	4·8	24·8	4·7	28·2	5·2	26·3	2·7	26·0	3·0	25·6	3·8	25·8	6·0	17
18	24·0	2·8	23·8	3·7	23·7	3·7	26·2	3·6	25·6	2·3	24·8	2·3	24·9	3·0	24·2	4·1	18
19	22·9	1·6	22·2	2·3	22·0	2·5	25·0	2·8	25·0	2·0	24·1	1·3	23·9	2·1	22·3	2·7	19
20	22·1	1·1	21·5	1·7	21·1	2·0	23·5	2·3	24·0	1·8	24·1	1·5	23·4	1·8	21·8	2·4	20
21	22·0	1·1	21·0	1·2	21·0	2·1	22·8	1·9	23·0	1·5	23·7	1·1	22·9	1·8	21·2	2·1	21
22	21·9	1·0	20·9	1·3	20·0	1·9	22·1	1·5	22·6	1·4	23·2	1·1	22·8	1·7	20·4	2·0	22
23	21·6	1·0	20·9	1·2	19·1	1·6	21·6	1·5	22·1	1·1	22·0	1·0	22·6	1·6	19·9	1·8	23

Day. / Hour.	9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	21·0	1·7	22·0	1·9	22·5	0·5	23·4	0·4	23·0	1·1	23·4	0·5	21·7	1·2	23·2	1·9	Midnight
1h	21·3	1·2	21·6	1·5	23·1	0·3	23·3	0·3	22·5	1·0	23·1	0·6	21·3	1·2	22·9	1·4	1h
2	21·1	1·1	21·7	1·5	23·2	0.2	23·1	0·4	22·3	0·8	23·2	0·4	21·2	1·2	22·3	1·2	2
3	21·1	1·0	21·2	1·1	23·1	0·3	23·3	0·3	21·9	0·9	23·2	0·5	21·0	1·0	22·1	1·0	3
4	21·0	1.2	21·8	1·6	23·2	0·4	23·5	0·5	21·9	0·9	23·2	0·8	20·8	1·1	21·5	1·0	4
5	20·7	1·5	21·7	1·6	23·2	0·5	23·1	0.7	22·2	0·7	23·2	0·6	21·0	1·0	21·3	1·0	5
6	21·0	1·6	22·0	1.5	23·3	0·5	23·2	0·5	23·0	1·0	23·3	0·5	22·0	0·9	21·4	0·8	6
7	23·9	3·1	24·2	2·3	23·3	0·3	23·2	1·1	24·6	1·5	24·0	1·0	24·2	2·1	24·6	2·4	7
8	25·3	5·2	25·8	4·0	24·0	0·8	24·3	1.6	25·8	2·5	24·2	1·1	26·0	3·3	25·2	2·9	8
9	26·4	5·6	26·9	4·8	25·0	1·2	25·6	2·6	25·3	1·7	25·1	1·8	26·3	3·3	26·1	3·5	9
10	27·1	6·6	27·5	5·2	24·1	0·8	26·0	3·0	26·0	2·0	25·8	2·6	27·1	4·1	27·2	4·6	10
11	27·8	6·3	27·8	5·3	25·4	1·3	26·6	3·6	26·0	2·5	26·8	3·3	27·7	4·7	27·7	4·9	11
Noon	27·7	6·7	28·2	5·2	25·9	1·9	27·1	4.0	27·7	3·7	27·0	3·8	27·5	4·5	27·6	5·2	Noon
13h	27·8	7·0	27·3	4.7	25·0	1·0	26·8	4·1	26·0	2·8	27·0	3·9	27·4	4·5	27·1	4·3	13h
14	27·5	5·9	26·9	4·1	24·0	0·8	26·8	4·0	26·7	3·0	27·1	4·4	27·7	4·7	27·7	4·7	14
15	27·0	5·6	28·0	5·0	23·9	0·8	26·0	2·9	26·1	2·4	27·2	4·4	28·0	4·8	27·7	5·1	15
16	27·0	5·8	26·4	3·7	23·3	0·5	25·3	3·0	25·9	2·9	26·4	3·9	27·0	4·2	26·2	4·0	16
17	25·9	4·9	26·1	3·5	21·6	0·7	25·0	3·0	23·8	1·1	25·9	3·6	26.3	3·3	24·3	1·6	17
18	24·5	3·5	25·0	2·9	22·0	0·8	23·6	1·7	23·5	1·2	24·9	2·8	25·2	3·0	24·8	2·1	18
19	23·3	2·4	23·9	1·3	21·3	0.4	23·6	1·5	23·1	1·0	23·8	1·8	24·3	2·1	24·2	1·8	19
20	22·9	2·0	23·3	1·1	21·9	0·6	23·3	1·3	23·1	1·0	22·7	1·5	23·9	1.8	24·2	1·6	20
21	22·3	1·4	23·0	1·0	22·1	0·4	23·0	1·2	23·1	0·9	22·1	1·1	23·0	1·4	23·8	1·6	21
22	22·2	1·4	23·0	1·2	22·9	0·6	22·7	1·0	23·2	0·8	21·9	1·2	23.0	1·5	23·8	1·8	22
23	22·2	2·2	23·33	1·0	23·6	0·6	22·8	0·9	23·6	0·7	21·7	1·1	23·1	1·7	23·0	1·2	23

TABLE XI (*Ctd.*).—TEMPERATURE of the AIR and EXCESS over TEMPERATURE of EVAPORATION in degrees CENTIGRADE at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

(*To obtain temperatures on the Absolute Scale add 273.*)

NOVEMBER 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	22·9	1·6	21·6	1·5	21·5	1·6	22·2	1·6	22·0	1·8	22·0	2·0	23·2	2·6	22·2	2·5	Midnight
1h	22·6	1·3	21·9	1·3	21·3	1·5	22·3	1·7	21·9	1·1	22·1	1·3	23·1	2·9	21·7	2·6	1h
2	22·3	1·2	22·0	1·0	21·1	1·4	21·4	1·5	21·5	1·3	22·2	1·3	23·1	3·1	20·2	2·0	2
3	22·0	1·0	21·8	1·0	21·6	1·8	21·2	1·3	21·8	1·1	22·1	1·5	23·1	3·1	22·0	2·0	3
4	21·6	1·0	21·3	1·0	21·3	1·3	20·9	1·5	21·8	1·2	22·1	1·5	23·2	3·2	20·1	1·9	4
5	21·6	1·3	21·4	1·1	21·6	1·5	20·2	1·2	21·8	1·5	22·1	1·4	22·7	2·9	20·0	1·9	5
6	21·9	1·3	21·5	1·2	22·0	1·9	21·1	1·6	22·0	1·1	22·9	2·1	22·1	2·4	20·9	1·9	6
7	24·1	2·3	23·7	1·9	22·0	1·3	23·9	3·2	23·0	1·9	24·9	2·9	24·2	3·3	23·1	2·7	7
8	25·4	3·6	25·3	3·9	25·1	3·1	25·0	4·1	25·1	3·5	25·9	3·8	25·8	5·4	25·0	5·4	8
9	26·0	3·9	26·8	5·4	26·1	3·5	25·5	4·6	25·2	3·1	26·0	4·0	25·2	4·5	26·1	6·1	9
10	26·2	4·5	27·1	6·1	26·7	4·2	26·5	5·0	25·3	3·3	27·0	4·8	26·3	5·6	26·9	6·2	10
11	26·9	5·6	28·0	6·6	26·9	4·5	27·1	5·2	26·1	4·1	27·0	5·0	27·0	6·0	27·0	6·1	11
Noon	27·0	4·9	28·1	6·2	26·6	4·2	26·1	5·4	27·2	4·7	27·2	5·5	27·2	6·2	27·0	6·1	Noon
13h	27·7	5·7	28·3	6·4	27·7	5·2	28·2	7·0	24·1	1·6	27·7	6·7	27·1	5·4	26·7	6·0	13
14	27·9	5·9	28·6	6·9	27·6	5·3	27·2	7·5	25·8	3·1	27·1	5·5	26·9	5·6	27·3	6·3	14
15	27·2	3·1	28·0	6·1	27·1	4·5	26·8	5·5	26·0	3·7	26·3	4·8	26·7	5·6	26·2	5·6	15
16	27·1	5·3	27·2	5·4	26·7	4·5	26·3	5·4	25·9	3·9	26·5	5·3	26·3	5·2	25·8	5·9	16
17	26·3	4·9	26·1	4·5	25·5	3·5	25·9	5·0	25·0	3·2	25·8	4·7	25·4	5·1	25·6	5·6	17
18	24·9	4·0	24·9	3·8	24·8	2·8	24·3	3·3	24·0	3·2	24·9	3·7	24·3	3·6	24·1	4·6	18
19	23·7	2·7	23·4	2·5	23·9	3·0	24·0	3·9	23·3	3·1	23·9	2·6	23·6	3·0	22·9	3·8	19
20	23·1	2·3	23·0	2·1	23·2	2·4	23·1	2·7	23·0	2·9	23·4	2·1	23·1	2·5	22·0	2·9	20
21	22·6	2·0	22·6	1·8	23·7	2·6	23·0	2·7	22·3	2·2	23·5	2·4	22·2	1·2	22·1	2·7	21
22	22·3	1·6	22·1	2·0	23·0	2·0	22·6	2·3	22·8	2·6	23·1	2·5	22·9	2·3	21·9	2·8	22
23	22·0	1·6	21·9	1·9	22·6	2·1	22·1	1·9	22·7	2·6	23·0	2·3	22·1	2·3	20·7	2·6	23

Day. / Hour.	25d.		26d.		27d.		28d.		29d.		30d.		...		Mean.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	20·1	2·1	20·7	1·8	21·1	1·4	21·2	1·6	21·9	2·6	20·9	2·2	...	...	21·8	1·5	Midnight
1h	19·2	1·5	20·1	1·3	21·7	1·8	21·4	1·4	20·7	1·7	20·2	1·3	...	...	21·6	1·3	1h
2	20·8	2·0	20·8	1·6	21·1	1·9	20·9	1·9	20·0	1·9	20·9	2·0	...	...	21·5	1·3	2
3	21·0	2·3	21·7	1·7	20·9	1·8	20·3	1·7	19·1	1·4	20·8	1·7	...	...	21·5	1·3	3
4	20·3	1·4	21·1	1·8	20·2	1·2	20·0	1·9	18·9	1·7	20·0	1·2	...	...	21·2	1·2	4
5	20·0	1·6	20·9	1·8	20·1	1·2	19·8	1·8	18·2	1·2	19·3	1·3	...	...	21·0	1·2	5
6	20·4	1·5	21·2	2·1	20·3	1·2	19·6	1·8	18·6	1·4	20·1	1·1	...	...	21·4	1·3	6
7	23·7	3·4	23·4	2·9	23·7	2·6	22·3	2·5	23·1	2·5	24·3	3·5	...	...	23·6	2·1	7
8	25·0	4·2	25·0	4·2	25·0	4·2	24·7	3·6	25·6	4·6	25·8	4·9	...	...	25·1	3·4	8
9	26·1	4·9	26·1	5·0	26·0	5·1	26·5	5·2	26·9	5·9	26·9	5·9	...	...	26·3	4·3	9
10	26·8	5·8	26·1	5·1	26·2	5·6	27·0	6·4	27·7	6·9	26·6	5·6	...	...	26·6	4·7	10
11	27·3	6·3	27·2	6·2	27·4	6·8	27·8	6·8	28·0	7·0	28·1	7·0	...	...	27·3	5·2	11
Noon	27·0	5·7	27·3	6·4	28·0	7·2	28·0	7·0	28·2	7·0	26·1	4·1	...	...	27·4	5·2	Noon
13h	27·3	6·1	27·0	5·8	28·1	7·0	28·2	6·7	27·9	7·7	26·6	4·7	...	...	27·4	5·3	13h
14	27·1	6·0	27·7	7·4	28·0	7·0	28·0	6·4	27·0	5·0	28·0	5·8	...	...	27·1	5·0	14
15	27·1	6·3	27·0	6·3	27·7	6·7	28·0	6·9	27·0	4·5	25·8	4·0	...	...	26·9	4·7	15
16	26·3	5·6	26·5	6·2	27·1	6·5	27·8	8·0	26·9	6·2	23·1	1·6	...	...	26·3	4·6	16
17	26·0	5·4	25·9	5·3	25·8	4·8	26·3	6·6	26·1	6·0	23·2	1·4	...	...	25·5	4·1	17
18	24·9	4·7	24·9	4·8	24·9	4·6	25·0	5·1	25·0	4·7	23·7	1·7	...	...	24·5	3·3	18
19	23·3	3·3	23·3	3·2	23·2	3·2	23·9	3·9	23·2	3·0	22·4	1·4	...	...	23·4	2·4	19
20	22·4	2·6	22·3	1·7	22·4	2·5	23·0	3·0	22·0	2·8	21·4	1·4	...	...	22·3	2·0	20
21	21·3	2·0	21·9	1·8	21·9	2·2	22·2	2·4	22·0	2·8	21·0	1·4	...	...	22·4	1·7	21
22	21·1	2·0	22·0	1·9	21·6	1·8	22·1	2·4	21·2	2·1	20·2	1·2	...	...	22·2	1·7	22
23	21·1	2·0	21·1	1·3	21·8	1·8	22·1	2·4	21·1	2·0	20·0	1·4	...	...	21·9	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 NOVEMBER 1937.

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 1937.

Hour. \ Day.	1d.		2d.		3d.		4d. *		5d.		6d.		7d.		8d.		9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	2·2	10	2·7	09	1·6	11	1·6	10	1·1	03	1·0	11	1·0	09	1·8	11	1·7	10	1.2	07	2·7	10	1·9	10	1·9	09	1·3	07	1·8	08	2·2
1h	10	2·1	10	3·3	10	2·1	11	1·8	10	1·0	10	1·4	11	1·1	09	1·4	11	1·8	10	1·2	06	2·9	10	1·6	10	1·3	09	1·3	07	1·1	08	1·9
2	10	2·1	10	3·2	10	2·1	11	1·8	08	1·1	10	0·9	11	0·8	09	1·6	11	1·3	10	1·9	07	1·7	07	2·0	10	1·3	09	1·8	07	1·1	08	0·8
3	10	2·1	10	3·8	10	2·3	11	1·5	08	0·8	10	1·3	11	1·1	09	1·3	11	1·4	10	1·8	10	1·5	07	2·1	10	1·6	09	1·6	07	1·2	08	1·2
4	10	1·9	10	2·8	10	2·3	11	2·2	08	1·1	10	1·2	11	1·4	09	1·9	11	2·5	11	2·3	10	1·5	05	4·9	10	1·7	09	2·0	07	1·8	08	1·9
5	10	1·8	10	3·0	10	2·0	11	1·7	08	1·1	10	1·4	11	1.0	10	1·8	10	2·2	11	2·6	10	3·2	05	4·1	11	2·2	05	1·2	07	1·5	08	1·7
6	10	2·2	09	5·0	09	2·0	11	1·3	08	0·7	10	1·2	11	1·1	09	2·0	10	2·1	11	2·5	10	3·2	06	3·4	10	2·5	09	1·7	07	2·3	08	1·0
7	10	2·7	10	5·0	09	2·7	07	2·1	08	1·4	10	1·2	11	1·4	10	3·7	10	2·4	11	3·5	08	4·4	08	3·1	10	3·4	07	2·2	07	2·1	09	2·2
8	10	3·0	08	5·5	08	3·6	03	3·4	05	2·3	06	2·6	10	2·6	10	5·0	08	4·9	10	4·4	09	4·1	07	3·2	09	3·7	05	3·7	06	3·3	08	2·9
9	09	4·4	08	5·1	07	4·3	02	4·4	04	3·5	07	2·9	08	2·2	09	5·4	06	4·1	08	4·9	08	4·5	08	3·6	08	3·2	06	3·3	06	3·8	07	3·5
10	09	5·4	07	6·8	07	4·3	33	4·5	03	4·5	08	3·3	06	3·3	10	5·7	08	4·3	07	4·5	07	5·2	05	4·1	10	4·0	07	4·7	06	4·1	08	4·5
11	09	5·6	05	3·7	08	4·4	01	5·0	03	4·8	03	3·6	09	4·0	08	4·8	05	4·5	08	4·6	08	5·1	07	3·6	08	4·0	06	4·8	06	4·0	08	4·4
Noon	07	5·3	08	5·1	06	4·6	02	4·6	01	4·7	05	3·9	08	4·3	10	5·1	09	4·8	09	4·4	08	4·4	06	3·6	06	4·5	06	4·8	06	4·1	07	4·2
13h	09	4·8	08	4·7	08	4·6	31	4·9	03	4·6	03	4·3	10	4·6	11	5·0	07	4·1	05	4·5	08	4·8	09	3·4	04	4·5	06	4·4	06	3·7	06	4·4
14	06	4·5	07	4·8	08	4·3	01	4·4	02	4·2	05	4·0	08	3.6	10	4·8	09	4·0	09	4·8	08	4·3	10	3·5	06	4·3	08	4·6	06	4·1	04	4·5
15	07	4·3	10	4·9	09	4·4	31	4·1	02	4·2	04	3·5	09	3·4	09	5·5	09	3·7	08	4·2	10	3·3	08	3·8	05	4·2	05	4·4	04	3·8	05	4·7
16	07	4·9	09	5·2	06	4·3	01	4·1	03	3·7	04	2·9	09	3·1	10	4·5	07	4·1	10	4·2	09	4·9	08	4·8	05	3·9	07	4·3	06	3·8	06	4·4
17	08	4·8	10	4·6	08	3·4	01	4·0	03	4·1	05	1·6	08	3·5	10	4·1	08	3·8	10	4·2	08	3·1	07	4·4	08	2·4	07	4·0	06	3·7	06	4·0
18	09	4·2	10	3·6	07	2·7	01	2·0	04	3·1	06	1·9	09	3·4	10	3·3	09	3·4	10	3·3	08	3·1	10	3·0	10	2·8	06	3·0	06	3·4	07	2·7
19	09	3·5	10	3·0	09	1·7	02	0·8	03	1·7	07	0·9	09	2·5	11	2·0	09	2·1	08	2·1	07	3·6	10	2·1	10	1·8	07	1·8	06	2·3	06	1·6
20	09	3·0	10	2·9	09	1·4	02	1·0	03	0·7	07	0·9	09	1·9	11	1·8	09	2·5	08	1·8	06	3·0	10	2·2	10	2·7	07	1·4	08	2·3	06	1·3
21	09	2·4	10	1·8	09	1·9	a10	1·8	03	0·6	07	0·8	10	2·1	11	1·1	10	2·0	10	2·5	07	3·6	10	1·5	10	2·1	07	2·2	08	2·2	09	1.0
22	10	2·0	10	1·7	09	1·5	10	1·1	03	0·8	07	0·7	10	2·2	11	0·6	10	2·4	10	2·3	05	4·6	10	1·3	10	2·2	07	2·4	08	2.0	07	2·2
23	10	1·8	10	1·8	11	1·9	10	1·1	03	0·7	07	1·1	10	1·5	11	0·6	09	2·9	07	1·7	d15	3·4	10	2·0	10	2·0	07	2·3	08	3·1	07	2·4

Hour. \ Day.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		25d.		26d.		27d.		28d.		29d. *		30d.		...		Mean.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	07	2·2	11	0·7	11	1·9	10	2·3	11	3·6	08	3·1	09	4·1	09	3·1	11	1·3	08	1·6	10	2·5	10	1·2	12	3·7	13	0·9	...	...	2·0
1h	07	2·2	11	1·0	11	1·8	10	2·2	10	4·0	08	3·1	08	4·4	10	2·9	11	1·4	08	1·5	10	3·7	10	1·9	12	1·9	13	1·1	...	...	2·0
2	09	1·8	11	2·0	11	1·9	10	2·1	11	3·6	08	3·6	08	4·0	10	1·4	11	2·1	08	2·0	10	3·1	11	2·3	12	1·3	16	1·3	...	...	1·9
3	09	1·2	11	1·9	11	2·3	10	2·0	10	3·1	08	3·7	08	3·8	10	1·9	11	1.5	10	2·2	10	2·2	11	1·8	12	1·4	15	1·8	...	...	1·9
4	09	1·5	11	1·1	11	2·1	10	1·4	10	3·5	08	3·8	08	3·3	10	2·4	11	1·3	10	2·5	10	2·6	11	2·1	12	1·7	14	1·2	...	...	2·1
5	09	2·4	11	1·0	11	2·2	10	1·8	10	2·8	07	4·3	08	2·8	09	1·9	11	2·6	10	3·4	10	1·7	11	2·5	12	1·1	14	1·1	...	...	2·1
6	09	2·5	11	1·3	10	3·1	10	2·7	11	3·0	07	3·8	08	2·5	11	1·8	11	2·1	10	1·3	10	1·1	11	1·4	12	1·0	14	1·8	...	...	2·1
7	09	3·0	10	2·7	12	5·1	10	3·3	10	3·4	07	4·2	09	4·3	11	2·5	10	3·6	10	1·8	10	2·3	11	2·9	12	1·6	10	2·5	...	...	2·9
8	09	3·5	08	5·0	09	4·4	09	4·1	08	5·6	07	5·3	08	5·0	09	4·6	09	4·5	08	3·9	10	4·3	11	3·4	07	3·2	10	3·5	...	...	4·0
9	06	3·6	08	5·8	09	5·3	09	4·8	08	5·8	08	5·4	08	5·6	09	4·4	07	4·9	08	3·8	09	4·1	10	4·7	09	3·5	10	2·8	...	...	4·3
10	06	4·5	08	5·5	06	6·0	08	4·6	08	5·7	09	6·4	09	5·8	10	4·4	07	5·0	10	4·7	09	3·2	09	4·5	10	4·4	12	2·4	...	...	4·7
11	07	3·9	09	5·7	07	5·5	07	6·0	09	5·9	09	5·7	10	5·3	11	5·1	11	4·7	05	4·2	08	6·2	09	4·8	11	4.0	09	3·5	...	...	4·7
Noon	06	4·1	08	5·9	08	5·8	08	5·0	09	6·4	09	6·5	06	5·4	08	4·5	06	5·5	06	4·9	10	5·0	07	4·3	11	4·7	a17	3·9	...	...	4·8
13h	04	4·1	10	5·9	08	5·4	07	5·6	11	4·7	06	5·5	07	5·1	08	4·9	08	4·4	07	4·7	11	6·5	10	4·4	10	3·3	20	5·4	...	...	4·7
14	09	4·1	11	5·4	06	5·4	09	5·8	06	5·5	07	5·8	09	5·8	07	4·7	08	4·9	08	4·9	11	4·1	11	4·4	a22	1·6	20	4·4	...	...	4·5
15	06	4·1	11	5·3	06	4·4	08	5·0	08	6·2	08	5·7	08	5·2	08	4·4	09	4·7	08	4·4	11	4·6	10	4·8	24	1·7	25	3·6	...	...	4·3
16	08	3·8	09	5·8	06	5·0	08	5·9	08	6·8	09	5·8	09	5·3	07	4·4	08	4·2	09	4·4	11	6·4	11	4·7	a09	2·6	r15	1·8	...	...	4·5
17	08	3·3	09	5·1	07	3·7	08	5·3	09	6·5	08	5·7	09	5·5	06	4·0	08	3·6	08	4·2	09	6·3	10	4·0	10	3·7	08	0·7	...	...	4·0
18	09	3·1	10	4·1	07	4·5	08	5·1	08	5·6	08	5·6	09	4·3	08	3·3	08	3·5	10	3·5	09	5·1	11	3·2	10	3·3	08	0·6	...	...	3·5
19	09	1·7	10	2·8	09	2·4	11	3·5	08	4·5	09	4·4	10	2·7	08	1·9	08	3·0	10	3·1	10	4·0	11	1·8	11	0.8	08	0·6	...	...	2·4
20	11	1·5	11	2·6	09	2·6	09	3·0	08	4·5	09	4·3	10	1·9	11	1·4	08	2·1	11	2·9	10	3·4	11	1·2	16	0·9	08	1·1	...	...	2·1
21	11	1·8	11	2·1	08	2·7	09	3·4	09	4·1	09	4·3	11	2·2	11	1·2	08	2·2	10	1·8	10	2·3	11	1·1	16	0·9	08	1·3	...	...	2·0
22	11	1·8	11	2·0	10	3·0	09	4·6	08	4·3	09	4·1	08	4·0	11	1·7	08	2·0	10	2·4	10	2·0	11	2·1	16	0·7	08	1·7	...	...	2·2
23	11	1·1	11	2·1	10	3·2	09	4·4	08	3·8	09	3·2	09	3·5	11	1·5	08	1·6	10	2·8	10	1·6	12	4·4	09	0·8	10	1·6	...	...	2·2

TABLE XIII.—WIND FREQUENCY (NUMBER OF OBSERVATIONS), NOVEMBER, 1937.

Hour.	Force (0–12).			Direction.															
	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	...	...	..	...	9	12	8	...	1	...	...	...	...	...	...	...
9	...	...	27	...	1	1	4	22	2	..	...	...	...	...	...	...	...	...	...
15	...	3	27	1	1	5	2	14	3	2	...	...	..	...	...	2	...	...	...
21	...	3	30	...	.	1	1	12	9	6	...	1	...	..	..	...	...	...	...
Totals	...			1	2	7	7	57	26	16	...	2	...	...	...	2	...	...	...

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for NOVEMBER 1937.

Hour. \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	...
	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	...	...	...	..	...	..	..	...	...	...	7·5	10·0	...	..	...	...	...	...	...	...	2·6	...	..	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	8·8	10·0	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	0·3	...	..	...
3	...	...	...	...	...	...	.	...	...	...	0·2	1·0	...	...	...	...	...	0·4		...	...	0·1	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	..	...	...	...	...	...	.	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
6	...	...	..	...	...	...	...	2·8	...	...	...	...	...	3·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
7	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...
8	0·5	...	.	...	.	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...	...	. .	...	...	..	...	...	...	...	...
9	0·5	..	...	...	...	...	..	...	...	...	.	...	0·1	1·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	0·1	...	...	...	...	...	...	...	0·8	..	0·2	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..
11	...	...	...	...	...	...	...	...	...	...	0·2	...	0·7	...	...	..	...	..	...	...	0·1	...	...	...	...	...	...	...	...	...	...
Noon	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	...	...	...	...	...	..	...	0·1	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...
14	...	...	..	...	...	...	...	...	...	...	5·0	...	...	...	...	...	...	...	...	...	2·0	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	0·7	...	0·8	..	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	0·2	...
16	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	1·3	...
17	...	...	...	...	...	.	...	...	...	...	0·2	..	1·7	...	...	0·3	...	...	...	...	...	...	..	...	...	...	...	...	...	1·1	...
18	...	...	...	...	...	...	...	...	...	...	4·0	...	0·1	...	...	0·1	...	. .	...	...	0·1	..	...	.	...	...	...	...	...	...	...
19	0·1	...	...	...	...	..	..	..	...	0·2	3·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	..	...	...	...	...	0·1	2·0	..	...	...	..	...	...	...	...	...	...	...	...	...	...	0·5	...	.	...	..	...
21	...	...	...	.	...	...	...	...	...	0·1	2·0	...	..	...	...	...	...	...	..	..	0·1	...	2·0	...	...	..	...	...	...	..	...
22	...	...	...	...	...	...	...	..	...	...	2·0	...	...	.	..	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	0·6	3·0	...	...	...	...	...	...	...	...	...	..	...	0·4	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	1·3	3·0	...	...	..	...	. .	...	...	...	0·2	...	...	. .	...	...	...	...	...	...	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR NOVEMBER 1937.

Hour. \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	...
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
1	...	...	...	...	..	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	0·9	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	0·3	...	3·6	...	...	...	...	...	...	...	...	1·1	...	...	...	...	...	...	0·1	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	...	...	0·2	0·1	..	...	...	...	...	...	...	...	...
4	0·2	...	...	...	..	...	...	...	...	...	0·8	...	...	...	...	..	...	...	...	...	1·4	...	...	0·1	...	...	...	...	...	...	...
5	2·0	..	...	...	...	...	...	...	...	...	0·1	1·4	...	...	...	...	...	...	...	...	0·4	0·4	. .	...	...	...	...	...	...	...	...
6	..	...	...	...	...	...	...	...	...	...	0·1	1·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
8	0·7	...	...	...	..	...	...	...	...	...	0·3	...	...	...	...	...	...	...	2·2	...	...	...	...	...	...	. .	0·1	...	...	...	...
9	0·1	...	...	..	...	...	...	...	...		...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	0·1	...	...	...	...
10	...	..	...	...	...	...	...	...	..	...	0·5	...	2·6	...	...	...	...	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	..	...	...	...	...	...	...	...	0·6	...	...	...	...	...	...	...	...	...	...	. .	...	...	...	...	...	...	...
Noon	...	...	...	...	...	...	...	...	...	...	2·8	...	1·3	...	...	...	...	...	0·5	..	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	...	...	2·4	...	...	...	...	...	15·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
14	0·3	...	...	...	...	...	...	...	...	...	8·6	...	...	...	...	...	..	...	...	...	1·0	...	...	...	...	...	...	...	...	2·4	...
15	...	...	...	...	...	..	...	...	...	...	1·3	...	..	...	...	...	...	...	...	...	..	...	...	...	...	...	0·2	...	...	1·4	...
16	0·4	...	...	...	...	...	...	...	...	...	1·2	...	0·5	...	...	...	...	...	...	...	0·1	...	..	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	3·4	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	..	0·7	...	...	...	...	...	..	..	...	0·3	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	1·0	4·1	...	..	..	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...
20	..	...	...	...	...	...	...	...	...	...	5·4	..	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	0·2	2·8	...	...	...	...	...	...	...	...	0·4	..	...	...	...	...	...	...	...	...	...	...
22	...	...	...	..	...	.	...	...	...	0·7	0·7	..	...	...	...	...	...	...	0·1	...	...	...	1·1	...	...	...	0·2	...	...	...	...
23	...	...	...	...	...	...	...	...	...	0·3	0·4	...	...	..	...	...	...	...	...	0·3	0·2	...	..	...	...	...	1·5	...	...	..	...
24	...	...	...	...	...	...	...	...	0·1	...	0·4	...	...	...	...	...	...	0·5	...	0·5	...	...	...	...	..	...	1·5	...	...	...	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART, NOVEMBER, 1937.

River System.	Station.	Approximate Altitude feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days.
1	Mare Sèche	20	...	...	16.2	...
	St. Antoine	50	4.17	105.9	1.42	6
	Bel Mont	50	4.17	105.9	1.83	4
	Poudre d'Or	20	4.68	118.9	1.73	4
	Mon Loisir (S.E.) ...	300	3.49	88.6	2.16	4
	Forbach	300	4.17	105.9	18.0	7
	Couroupa	...	3.49	88.7	2.17	6
*	Labourdonnais	290	...	...	2.00	...
	Mapou Water Office ...	...	3.38	85.9	...	4
	Beau Séjour	300	4·13	104·9	2.63	12
	Mont Piton	650	4.70	119.4	2.42	8
	Mon Choix	700	3.55	90·2	2.33	8
	Antoinette	640	...	...	2.67	...
	Mon Songe	620	5.10	129.5	3.04	8
	Botanical Gardens ...	325	5.55	141.0	21.9	19
*	The Observatory ...	179	3.62	91.9	1.76	17
	Solitude	175	3·71	94·2	1.23	...
	St. André (Cour) ...	90	3.50	88·9	1.66	4
	La Nicolière	...	7·15	181.6	5.15	18
	California	...	7.61	193.3	...	13
	Australia	..	7.50	190·5	...	9
2 & 3	Union Régnard (Flacq S.E.) ...	600	5.75	146.1	2·78	9
	Constance d'Arifat (L.S.) ...	100	3.59	91.2	2.64	10
	Rich Fund	600	5.00	127.0	4.01	17
	La Joffrette	...	4.10	104.1	...	6
	Belle Vue (Allendy) ...	...	3.71	94·2	4.11	8
4	Sans Souci	900	6.83	173.5	6.12	14
	Beau Champ (G.R.S.E.) ...	20	3.22	81.8	2.47	11
	Olivia	400	6.13	155.7	4.22	15
	Trois Ilots	...	5.08	129.0	..	14
	Belle Rive	400	7.47	189.7	6.75	16
	Sébastopol	700	4.08	103.6	...	4
	Bonne Veine	400	10·47	265.9	6.35	17
5	Rose Belle	850	6.78	172.4	7.98	18
	New Grove	650	8.01	203.5	...	14
	Mon Trésor	...	7.13	182.4	...	12
	Mon Désert (Carié) ...	75	4.69	119·1	2·90	11
	Ferney	20	...	...	3.50	...
	Sauve Terre	...	4.18	106.2	...	11
6	Tivoli	1,300	6.42	163.1	5.90	19
	La Flora	1,050	5.89	149.6	7.24	18
	Riche Bois (Brit.) ...	650	3.24	133.1	5.93	13
	Britannia (Estate) ...	700	5.26	133.6	4.55	14
6	Savannah (Mill) ...	200	4.96	126.0	3.63	10
	St. Aubin	300	4.21	106.9	3.24	14
	St. Avold	900	5.13	130.3	5.88	16
	Colmar	400	5.58	141.7	4.38	14
	Union (S.E.)	...	5.74	145.8	4.18	8
	Fontenelle	320	3.95	100.3	4.13	6
	Choisy	200	4.12	104·6	2.66	8
	Beau Bois	...	4.69	119.1	...	13
	Bel Air	...	5.30	134.6	...	4
	St. Félix	...	4.40	111·8	...	4
7,8,9&10	Bel Ombre	40	...	...	2.30	...
	Beau Champ (S du Cap) ...	70	...	...	2.73	...
	Frédérica	...	...	...	3.27	...
	Pierre Fonds	...	3.77	95.8	2.54	6
	St. Marie	...	...	...	...	...
	Hussonia	...	...	...	...	...
11	Curepipe Gardens ...	1,840	9.13	231.9	5.43	24
	Mare aux Vacoas (G.E.) ...	1,850	7·01	178.1	6.63	13
	Mare aux Vacoas (Arn.) ...	1,830	6.26	159.0	6.32	14
	La Marie Filter Beds ...	1,700	6.55	166.4	4.30	12
*	Sophie	...	5.88	149.4	...	13
	Réunion	1,420	4.51	114·6	3.38	8
*	Aerological Station ...	1,393	3.50	89.0	4.80	17
	Phoenix	...	2.58	65·5	...	4
	Quatre Bornes ...	...	2.27	57.7	...	4
12	Quatre Bornes (Board) ...	1,090	...	...	...	...
*	Le Réduit (D. of A.) ...	1,000	3.07	77.9	2.20	18
	Alma	1,460	10.64	270.3	5.12	14
	Bagatelle	1,250	4.54	115.3	2.75	12
	Highlands	1,300	4.27	108·5	3·12	11
	Trianon	950	2.08	52.8	2.35	5
	Val Ory	1,100	...	...	2.30	...
	Bassin	.	3.09	78·5	2.90	2
	Hermitage	1,450	4.49	114.0	5·94	10
	Ebène	...	2.90	73.7	...	11
	Béga	...	2.18	55.4	...	9
	Mon Rêve	...	3.46	87.9	...	10
	Mon Pevril	...	3·19	81.0	...	11
	Minissy	1,150	4.77	121.2	2.75	10
	Plaisance	...	6.10	154.9	...	6
	La Ferme	350	3.42	86·9	1.65	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 NOVEMBER 1937.

Day.	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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	9½	30	11·2	...	...	...	...	...	...	...	...	330	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	11½	...	...	90	14·3*	35*	...	...	...	...	...	330	1·8*
13	...	...	...	...	...	...	...	...	...	...	...	...	...
14	11½	...	...	75	11·6	360	...	...	...	...	...	300	3·5
15	11	...	...	75	8·3	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	60	...	...	...	...	...	315	...	300	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	9¼	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...

Day.	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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...
3	15½	105	9·6*	98	7·0*	...	...	...	...	...	...	...	...
4	15¾	...	...	352	12·7*	...	...	...	...	...	...	...	...
5	15¾	...	...	15	3·8*	...	...	...	...	...	...	...	...
6	15½	...	...	60	7·5*	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...
8	15½	150	11·7*	150	9·6*	...	...	...	...	...	...	...	...
9	15½	120	5·6	142	6·0*	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	14¼	60	10·6*	45	4·1*	...	...	...	...	...	...	276	3·1*
16	15	...	...	60	9·6	...	...	...	...	...	...	300	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...
18	14¼	120	10·7*	120	21·5*	...	...	...	...	...	...	...	...
19	14¼	85	9·7*	90	7·2*	...	...	...	...	...	...	...	...
20	14¼	105	15·4*	60	9·1*	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	15¼	...	...	105	5·5	...	...	...	...	...	...	300	...
23	14¼	105	9·6*	105	9·9*	...	...	...	...	...	...	300	4·7*
24	14¼	105	2·6*	90	5·9*	...	...	...	...	300	8·2*	...	...
25	14¼	120	7·0*	68	5·1*	...	...	...	...	...	...	...	...
26	14¼	...	...	90	7·9	...	...	...	...	...	...	...	...
27	14¼	120	4·4*	95	6·6*	...	...	...	...	...	...	263	6·6*
28	...	...	...	...	...	...	...	...	...	...	...	...	...
29	14¼	166	5·1*	153	6·8*	...	...	...	...	...	...	...	...
30	14¼	210	4·4*	180	6·6*	...	...	...	...	...	...	...	...

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.

* Observatory Pamplemousses.

3/6/38—R.A.O 250.

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NEW SERIES (MONTHLY) VOL. XXIII. PART 12. PRICE 0.75

ROYAL ALFRED OBSERVATORY, MAURITIUS

(LATITUDE 20° 5′ 39″ S.—LONGITUDE 3h 50m 12·6s E.)

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

FOR THE MONTH OF

DECEMBER, 1937

N. R. McCURDY, B.Sc., F.R. MET. SOC.

DIRECTOR

Published by Authority of His Excellency the Governor

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1939

TABLE I.—RESULTS of MAGNETICAL OBSERVATIONS made during the MONTH OF DECEMBER, 1937.

Month and Day. 1937	Mean Declination (West).	Mean Horizontal Force. (C.G.S. Units)	Mean Vertical Force. (C.G.S. Units.)	Daily Range† Declination.	Daily Range† Horizontal Force. (Unit 1 γ)	Daily Range† Vertical Force. (Unit 1 γ)	HRz: 10000	ZRz: 10000
DEC.	° ′			′				
1	13°28·0	·22416	·29798	8·8	60	15	134	45
2	...	447	791	...	17	33	38	98
3	27·7	468	790	9·0	15	22	34	65
4	28·4	474	785	10·0	18	23	40	68
5	28·3	488	786	6·3	50	11	112	33
6	27·9	483	782	6·0	52	23	117	68
7	28·7	477	782	6·7	50	20	112	60
8	28·4	471	783	5·2	49	20	110	60
9	28·8	485	781	5·5	42	20	94	60
10	28·3	485	784	4·0	41	15	92	45
11	28·2	479	784	5·7	62	10	140	30
12	28·4	485	782	6·5	40	18	90	54
13	28·3	...	...	4·0	...	...	...	...
14	28·9	494	775	4·0	40	18	90	54
15	28·5	498	774	4·8	46	19	104	57
16	28·6	504	768	7·5	33	35	74	104
17	27·6	480	768	8·0	53	28	119	83
18	28·5	467	773	11·0	201	49	452	146
19	29·4	441	781	11·5	43	34	96	101
20	28·3	457	779	10·0	46	23	104	68
21	28·4	461	774	9·5	20	23	45	68
22	28·3	461	775	10·5	47	21	106	63
23	28·3	429	778	14·5	128	50	287	149
24	29·2	419	783	9·2	46	30	104	89
25	28·7	429	779	8·3	38	34	85	101
26	28·4	444	776	5·0	44	22	99	65
27	27·5	452	775	9·0	32	43	72	128
28	28·8	446	771	7·0	23	22	52	65
29	27·4	468	768	6·5	16	28	36	83
30	27·5	475	774	8·0	54	20	121	60
31	29·2	463	770	7·5	52	33	117	98
Mean	13°28·36	·22466	·29779	7·65	48·6	25·4	109·2	75·6

Description of the Principal Magnetic Disturbances.

The month was very unusually quiet during the first 17 days.

Declination.—18d. Slightly disturbed. 19d. Moderately disturbed—Important increase in daily range (70′). 20d. Slightly disturbed in the beginning. 23d. Very disturbed during second half.

Horizontal Force.—7d. and 8d. Slightly disturbed at end. 18d. Disturbed; very large but gradual fluctuations in force resulting in a considerable increase in daily range. From $22^h.30^m$. to $23^h.30^m$. rapid increase in force (55γ). 19d. Moderately disturbed; irregular minor oscillations throughout on the trace. 20d. Single sharp positive wave (25γ) from $21^h.30^m$. 22d. Slightly disturbed. 23d. Very disturbed during second half: Very large fluctuations with considerable increase in range. 24d. Slightly disturbed at end.

Vertical Force.—1d. Disturbed during the first hours. Between 0^h. and 2^h. negative wave of 15γ 18d. and 19d. Moderately disturbed. Important increase in daily range. 23d. Very disturbed during second half. Important fluctuations in trace between 18^h. and 24^h. From 18^h. to 19^h. sharp positive wave of 11γ. 24d. Slightly disturbed at end. Double wave of 5γ in the trace between 22^h. and 24^h.

T=·37303: Mean Dip=52° 58′·01: (X=·21848: Y=−·05234: Z=·29779).
† The daily range is the difference between the greatest and least hourly values.

TABLE II.—RESULTS of ABSOLUTE DETERMINATIONS of the MAGNETIC ELEMENTS during the MONTH of DECEMBER 1937.

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	° ′	
3·15·21	13·24·3	4· 9·16	·22473	3·15·10	52·58·93	·29794
15·14·57	13·27·3	8· 9·15	·22491	15·14·46	52·54·38	·29757
17·14·11	13·23·0	13· 9·15	·22505	17·14·00	52·53·07	·29756
23·13·48	13·22·4	16· 9·26	·22506	23·13·34	52·58·50	·29754
28·15·09	13·25·2	18· 9·44	·22509	28·14·59	52·56·25	·29759
37·14·41	13·24·8	22· 8·55	·22469	31·14·30	52·55·95	·29747
		30· 8·47	·22500			

TABLE III.—MAGNETIC DECLINATION (WEST) at every HOUR of the DAY as deduced from the PHOTOGRAPHIC RECORDS.

DECEMBER 1937.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	31·5	28·5	28·0	28·5	27·5	28·7	28·5	28·7	28·5	28·5	29·5	29·3	29·0	28·3	28·7	28·5	Midnight
1h	26·5	28·5	28·3	28·5	27·8	28·3	28·7	29·3	28·0	29·3	29·5	29·3	29·0	28·7	29·3	29·3	1h
2	28·5	29·5	28·5	28·5	28·5	28·0	29·3	29·0	29·0	28·5	29·0	29·0	29·0	29·3	29·5	29·7	2
3	30·0	...	29·7	29·0	28·5	28·5	29·0	29·0	29·0	29·5	29·0	29·0	29·3	29·7	30·0	30·5	3
4	30·5	...	29·5	29·5	28·5	29·0	29·5	28·7	29·3	29·3	29·5	29·7	29·7	30·0	30·0	30·7	4
5	31·0	...	29·7	29·7	30·0	29·7	29·5	28·0	29·7	30·0	30·0	29·5	30·0	30·0	30·3	31·0	5
6	30·7	...	30·3	30·0	30·5	30·0	30·0	27·7	30·0	28·0	30·7	30·5	30·5	29·5	30·5	32·5	6
7	31·5	28·5	30·7	30·7	31·0	30·0	30·0	28·0	29·0	28·0	29·0	30·3	30·3	29·7	30·0	32·0	7
8	29·5	30·0	30·5	32·0	30·7	30·0	30·0	28·5	28·5	27·7	28·0	30·0	29·7	29·7	28·5	30·5	8
9	27·3	30·3	31·0	33·0	30·3	30·0	30·7	30·5	30·0	29·0	29·0	30·0	28·5	30·0	28·7	30·0	9
10	26·5	31·0	30·0	33·0	29·5	29·0	31·0	29·5	30·5	29·5	27·3	30·0	28·3	31·0	29·3	30·0	10
11	25·7	29·0	27·0	30·0	28·3	28·5	30·3	29·7	31·0	28·7	27·8	29·5	28·3	30·5	29·0	29·7	11
Noon	24·0	27·0	24·0	26·5	27·0	26·7	27·5	29·5	30·5	27·5	28·0	28·3	28·0	28·7	29·0	29·0	Noon
13h	23·3	26·5	22·5	24·0	26·0	25·5	24·5	27·0	29·0	27·0	27·0	27·0	27·5	28·0	29·7	26·5	13h
14	24·5	24·7	22·0	23·0	25·0	24·0	24·3	25·5	27·0	26·5	26·5	25·3	27·0	28·0	28·3	25·0	14
15	25·5	24·5	23·5	25·0	24·7	24·0	25·0	25·3	25·5	26·3	25·7	24·0	27·0	27·7	27·5	25·0	15
16	27·0	26·0	25·0	26·5	26·0	25·5	26·5	25·7	26·0	26·0	25·0	25·0	26·7	27·5	26·5	25·3	16
17	28·7	28·0	27·3	28·0	28·0	27·0	27·5	27·3	27·3	27·5	26·7	26·5	26·5	27·5	25·7	26·3	17
18	29·0	28·5	27·7	28·5	28·0	28·0	28·3	27·5	28·5	28·5	27·0	27·5	26·7	27·0	26·3	26·7	18
19	28·0	27·5	27·3	27·3	28·0	27·3	29·0	29·5	28·5	28·0	27·5	27·7	27·3	28·0	27·0	27·0	19
20	28·5	28·0	27·5	27·3	28·3	27·5	28·5	30·0	28·5	28·0	28·0	28·0	27·5	28·0	27·0	27·5	20
21	28·7	28·0	27·5	27·5	28·0	28·3	30·0	29·7	29·0	28·5	28·3	28·3	27·7	28·5	27·5	27·7	21
22	29·3	28·5	28·0	27·7	28·5	28·7	30·0	29·3	29·0	29·5	29·0	28·7	28·3	28·5	28·0	28·0	22
23	28·5	28·3	29·0	28·0	29·5	28·5	30·7	29·3	29·5	30·0	29·7	29·5	28·5	28·7	28·5	28·5	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	13° +																
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
Midnight	28·5	28·3	29·5	28·5	28·5	28·5	28·5	31·5	30·7	29·3	29·0	29·3	28·5	28·5	27·7	28·9	Midnight
1h	28·7	28·7	30·0	29·7	29·0	28·0	28·3	30·3	30·5	29·5	29·0	29·5	28·5	29·0	28·0	28·9	1h
2	29·5	29·3	30·0	30·0	28·3	28·0	28·5	29·7	31·0	29·0	28·7	29·5	29·0	29·3	28·0	29·0	2
3	30·0	30·0	32·0	30·5	29·3	29·7	29·0	29·5	30·5	28·7	28·7	29·5	29·7	29·0	29·0	29·5	3
4	30·3	30·3	32·0	30·5	29·7	29·7	29·7	29·5	30·0	29·5	29·0	29·7	29·7	29·0	30·0	29·7	4
5	30·5	31·0	32·5	31·3	30·3	30·0	29·7	29·5	29·7	29·5	29·5	30·0	30·3	30·0	30·5	30·1	5
6	31·0	32·0	33·7	31·7	30·7	31·5	29·5	29·7	29·0	28·5	29·0	30·0	30·5	30·3	30·7	30·3	6
7	31·0	33·0	34·5	32·0	31·5	32·0	30·7	30·0	28·7	28·3	28·0	30·0	30·0	30·5	33·0	30·4	7
8	30·0	31·0	34·0	31·5	31·5	31·5	31·5	30·5	29·5	26·0	28·3	30·5	27·5	30·0	33·0	30·0	8
9	30·0	31·0	33·0	29·7	32·0	31·7	33·5	32·0	32·0	27·5	30·0	31·5	27·3	29·5	33·0	30·4	9
10	28·3	30·0	30·0	27·5	31·7	31·0	32·3	33·5	32·0	28·7	30·5	32·0	27·5	29·0	31·5	30·0	10
11	27·5	28·0	28·0	24·5	28·5	28·5	31·0	32·5	30·5	30·0	29·7	30·5	26·5	26·0	29·7	28·8	11
Noon	25·5	26·0	25·0	23·0	26·0	27·5	27·5	29·5	29·7	30·0	27·0	28·5	24·5	24·3	27·0	27·2	Noon
13h	24·3	25·5	24·0	22·5	23·5	27·0	24·0	27·0	28·0	30·0	25·0	29·3	24·0	22·5	26·0	25·9	13h
14	23·0	22·5	23·0	22·0	22·5	23·5	22·0	25·0	26·0	28·0	22·5	28·0	24·0	22·5	25·5	24·7	14
15	23·0	22·0	24·0	23·0	23·5	21·7	19·5	24·3	23·7	26·0	21·5	26·5	24·0	24·0	26·0	24·5	15
16	24·0	24·0	27·5	26·0	25·0	21·5	19·0	24·5	24·0	25·0	22·5	25·0	25·0	25·7	27·5	25·2	16
17	25·0	27·0	29·7	28·0	27·5	24·0	24·0	26·0	25·5	27·0	25·0	25·0	26·5	27·0	28·5	26·8	17
18	25·5	27·5	29·0	30·0	28·3	26·5	26·5	26·5	27·0	28·5	26·5	26·3	27·0	27·0	28·3	27·5	18
19	26·5	27·5	28·0	29·0	28·0	28·0	28·0	27·5	27·5	28·0	27·5	27·5	27·5	27·0	28·0	27·8	19
20	27·0	28·3	28·0	28·7	28·3	28·7	29·0	29·3	27·7	28·0	27·5	28·0	27·5	27·0	30·0	28·1	20
21	27·5	30·0	29·7	29·5	29·0	29·7	30·0	30·7	28·5	28·3	28·0	28·3	27·5	27·3	29·0	28·6	21
22	27·7	30·5	29·5	30·0	30·0	30·0	31·7	31·5	29·0	29·0	28·5	28·3	27·7	27·7	29·0	29·0	22
23	28·0	30·0	30·0	30·0	29·5	29·7	33·5	31·0	29·5	29·0	29·3	28·7	28·3	27·7	30·0	29·4	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*).

DECEMBER 1937.

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·22000 + (C.G.S. UNIT).																
Midnight	378	445	459	469	485	478	475	458	468	481	479	476	475	485	486	494	Midnight
1h	428	448	462	464	487	476	468	465	483	483	474	476	477	485	485	497	1h
2	415	450	466	469	488	479	468	465	475	485	479	474	477	486	487	499	2
3	415	451	464	468	487	479	477	466	475	481	480	476	476	488	489	502	3
4	413	449	464	467	489	485	483	468	476	484	486	471	477	490	492	507	4
5	418	453	471	466	493	488	485	471	478	483	489	474	477	488	493	500	5
6	423	455	474	478	498	493	485	480	478	495	494	476	482	487	499	511	6
7	425	450	472	482	508	489	488	488	488	506	504	486	494	488	510	507	7
8	426	448	469	479	515	497	495	490	497	508	516	488	500	492	518	514	8
9	425	445	474	474	511	497	498	489	505	501	509	301	500	505	523	517	9
10	421	445	469	467	508	501	495	485	510	499	489	508	500	515	529	518	10
11	423	438	469	468	498	505	495	483	506	495	496	508	490	520	521	520	11
Noon	421	438	468	474	480	498	488	483	498	498	484	511	478	515	513	519	Noon
13h	415	443	459	472	481	498	473	481	493	489	484	508	470	507	506	514	13h
14	415	455	465	480	483	498	481	478	488	490	479	503	...	505	503	519	14
15	411	448	467	480	485	488	483	468	489	493	469	497	...	500	496	517	15
16	403	438	466	479	481	468	479	468	488	488	454	493	...	495	488	509	16
17	393	438	464	474	482	458	483	468	485	473	454	486	...	494	483	497	17
18	388	439	464	474	485	453	481	465	478	468	459	482	480	495	487	493	18
19	403	445	466	479	478	463	468	443	473	468	462	476	477	486	486	492	19
20	408	448	474	479	473	471	466	441	473	473	462	471	480	482	484	490	20
21	418	451	474	477	468	473	453	453	473	468	464	478	477	480	485	487	21
22	423	455	472	474	478	475	448	468	478	467	469	479	480	484	487	489	22
23	438	453	469	476	465	475	448	465	479	478	476	476	480	486	489	491	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / H
	·22000 + (C.G.S. UNIT).																
Midnight	490	482	429	454	451	459	448	396	420	446	442	462	465	470	474	460·1	Midnight
1h	492	483	414	439	452	467	458	399	418	447	440	462	464	470	475	462·0	1h
2	494	489	429	446	462	469	458	406	407	447	440	463	467	467	477	463·5	2
3	496	492	434	446	460	465	461	411	412	449	442	463	463	465	477	464·5	3
4	496	494	439	449	459	465	460	416	415	449	442	464	462	470	476	466·1	4
5	496	499	446	449	459	465	463	419	419	447	443	464	462	467	475	467·4	5
6	496	506	445	450	461	473	468	419	425	449	444	461	461	471	472	470·9	6
7	496	500	449	451	461	478	465	419	432	459	447	465	467	480	477	474·6	7
8	496	511	452	459	462	483	465	418	432	460	452	466	468	490	471	477·9	8
9	504	510	454	462	462	480	463	414	435	459	464	471	471	500	473	479·9	9
10	524	322	459	476	460	475	458	423	426	461	459	476	477	507	477	481·3	10
11	532	529	459	484	453	481	451	416	418	451	449	481	473	507	477	480·3	11
Noon	526	530	459	489	456	458	445	418	422	454	437	478	469	501	475	476·7	Noon
13h	520	526	449	481	464	458	440	426	427	451	437	476	471	500	470	473·8	13h
14	519	526	472	474	470	475	442	435	432	447	452	475	477	490	470	476·3	14
15	511	504	444	469	469	471	443	433	426	439	464	468	476	465	468	471·2	15
16	507	474	434	456	470	465	433	433	424	424	469	463	473	456	465	464·5	16
17	500	439	429	449	471	448	388	437	430	417	464	466	471	453	469	458·6	17
18	491	416	416	443	471	445	368	437	440	424	459	462	467	455	453	455·1	18
19	469	394	424	444	467	440	398	436	441	427	457	458	464	455	440	453·9	19
20	482	332	424	449	466	440	378	431	441	434	458	458	465	455	430	451·5	20
21	482	329	434	446	459	438	358	406	440	437	459	461	463	460	435	450·3	21
22	481	336	429	464	454	436	340	391	443	441	459	463	469	465	437	451·8	22
23	479	409	439	452	452	440	368	406	445	441	460	464	462	473	425	456·0	23

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

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

DECEMBER 1937

Hour \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	801	795	790	789	787	784	783	786	785	781	783	782	781	780	777	774	Midnight
1h	794	793	790	788	786	783	784	785	783	781	785	782	781	781	777	774	1h
2	797	793	790	786	786	782	785	785	783	781	784	783	781	781	777	774	2
3	798	793	791	787	785	783	784	785	783	782	785	783	781	781	778	775	3
4	799	794	791	787	785	783	783	783	783	781	785	784	781	781	779	776	4
5	800	795	791	788	786	785	783	783	784	783	784	783	782	781	780	777	5
6	800	792	793	789	787	785	786	781	784	780	785	785	783	780	780	780	6
7	802	793	798	790	789	786	787	782	784	779	781	783	781	781	777	775	7
8	800	802	801	791	789	790	787	788	786	781	779	782	781	780	776	771	8
9	801	807	803	796	790	792	789	793	790	789	782	785	781	781	779	770	9
10	801	810	797	796	792	789	790	790	791	796	785	791	781	780	778	770	10
11	800	793	787	783	792	785	786	787	782	795	788	793	779	775	774	765	11
Noon	793	780	783	774	791	780	780	783	777	791	789	787	778	769	771	757	Noon
13h	788	779	781	773	790	772	770	777	773	785	789	781	...	769	769	749	13h
14	789	777	782	775	785	769	771	775	772	783	783	776	...	765	765	745	14
15	793	780	785	779	782	769	770	773	771	782	781	776	...	763	761	748	15
16	799	783	789	782	783	773	773	773	775	784	782	775	...	763	763	753	16
17	803	787	791	785	783	780	777	775	778	785	786	777	...	764	767	762	17
18	803	788	789	783	782	781	778	775	780	783	784	779	772	765	770	769	18
19	800	789	785	781	781	780	779	781	780	781	782	779	775	770	773	771	19
20	800	790	786	781	783	781	781	785	780	782	783	779	775	771	775	772	20
21	800	791	787	784	785	781	783	787	781	782	783	780	782	775	775	772	21
22	801	792	788	786	786	783	789	785	783	784	784	781	788	777	777	773	22
23	798	791	789	787	787	783	790	785	782	785	783	781	789	777	776	773	23

Hour \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d	Mean	Day. / Hour.
	·29000+(C.G.S. UNIT.)																
Midnight	773	775	789	782	780	779	780	791	787	780	780	776	773	773	773	782·3	Midnight
1h	772	774	790	785	779	778	779	791	786	780	780	776	773	773	772	781·8	1h
2	772	774	791	784	778	776	779	789	787	781	780	776	773	773	772	781·7	2
3	773	774	791	783	779	777	779	788	786	781	780	776	775	773	773	782·0	3
4	775	774	790	782	779	777	779	787	784	781	781	777	777	774	776	782·2	4
5	775	776	789	783	779	778	778	786	783	781	781	777	777	776	777	782·6	5
6	777	777	790	786	781	780	776	787	781	779	781	775	775	777	780	783·0	6
7	779	778	789	787	783	781	776	787	781	776	782	776	771	779	783	783·2	7
8	773	772	788	781	781	779	777	791	783	775	789	778	770	780	782	783·4	8
9	769	770	783	779	780	779	779	795	791	777	794	781	769	781	782	785·2	9
10	759	769	778	771	771	772	777	793	793	780	786	775	761	780	775	783·2	10
11	751	758	773	769	763	760	773	780	789	779	777	767	755	770	767	777·2	11
Noon	751	751	770	762	764	760	765	767	770	770	769	759	749	764	761	771·2	Noon
13h	751	751	764	765	761	765	756	766	759	762	760	760	751	761	758	767·8	13h
14	751	746	757	766	760	763	753	765	761	760	751	763	755	762	751	765·9	14
15	757	752	766	771	762	762	753	769	763	759	751	759	759	770	750	767·2	15
16	763	764	779	778	770	766	761	772	769	767	760	760	764	777	756	771·9	16
17	770	776	781	780	776	776	779	777	776	775	770	766	769	780	760	777·0	17
18	772	781	783	785	777	781	789	779	780	779	776	771	771	779	763	779·2	18
19	773	783	781	781	773	781	787	780	780	779	776	773	773	776	769	779·2	19
20	775	789	781	780	774	781	787	781	780	779	776	772	772	775	772	780·1	20
21	776	794	785	782	777	781	791	783	781	779	776	773	772	777	773	781·6	21
22	776	795	785	781	779	781	800	790	781	780	776	773	773	777	774	783·0	22
23	777	793	787	782	779	781	803	787	780	780	776	773	773	775	778	783·0	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 1937.

Month and day 1937.	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.
DEC.	mbs.	°C	°C	°C	%	mbs.	°	m.p.s.		°C	°C	°C	°C	°C	°C	°C	mms.	mins.	hrs.	%
1	965·4	25·1	5·5	15·7	56	17·7	85	0·9	8	15·9	23·8	25·0	18·4	26·5	14·9	11·6	0·0	0	9·0	68
2	965·9	24·4	4·9	16·0	59	18·0	Calm		9	15·0	24·0	21·5	19·0	26·2	15·0	11·2	3·8	40	5·6	42
3	967·4	23·9	3·5	17·8	69	20·2	Calm		10	16·8	23·8	23·7	21·0	25·4	14·6	10·8	2·8	42	5·0	38
4	968·7	22·5	1·7	19·5	83	22·4	110	6·3	7	19·0	19·9	21·9	20·0	23·0	19·0	4·0	2·6	16	5·5	42
5	970·4	23·1	2·9	18·1	74	20·6	110	6·3	9	19·0	21·6	23·9	19·7	24·0	19·0	5·0	0·0	0	9·0	68
6	970·9	21·2	0·7	20·0	93	23·2	90	2·7	10	19·7	20·9	21·1	20·0	23·3	19·7	3·6	0·3	8	1·7	13
7	969·9	23·6	3·7	17·2	67	19·4	90	6·7	10	19·0	22·0	23·9	19·0	25·6	19·0	6·6	20·9	174	7·5	57
8	968·4	24·3	4·4	16·7	63	18·8	90	3·6	2	18·2	22·7	24·0	20·0	26·6	18·0	8·6	0·0	0	8·6	65
9	965·7	23·5	3·3	17·8	70	20·2	70	3·1	10	18·9	22·3	25·3	19·8	25·5	18·0	7·5	0·0	0	6·0	45
10	966·6	25·3	5·0	16·8	59	18·9	70	0·9	8	17·1	23·2	26·7	21·2	27·9	17·0	10·9	0·0	0	8·7	65
11	969·5	25·0	3·1	19·7	72	22·7	55	0·9	9	20·5	24·4	27·0	22·1	29·2	20·2	9·0	1·0	17	7·9	59
12	669·6	25·2	3·3	19·6	71	22·6	60	5·4	7	21·0	23·9	26·8	21·0	26·8	20·9	5·9	4·0	38	10·8	81
13	968·1	24·7	4·6	16·8	61	18·9	80	4·5	7	19·8	22·9	26·4	21·0	26·5	19·4	7·1	1·2	13	11·3	85
14	967·0	24·5	4·5	16·8	62	18·9	70	5·4	2	18·5	22·0	24·5	20·3	26·6	18·2	8·4	3·3	50	9·0	68
15	968·1	24·5	2·4	20·4	78	23·7	70	4·5	8	19·0	22·9	24·2	22·4	25·4	19·0	6·4	3·5	39	5·0	38
16	968·2	24·3	2·5	20·0	77	23·2	70	3·1	10	21·9	21·9	27·0	22·4	28·4	21·0	7·4	0·0	0	5·4	41
17	967·2	24·6	3·2	19·1	72	21·9	60	2·7	7	21·1	23·0	27·2	21·0	27·5	20·5	7·0	0·0	0	9·5	72
18	966·2	24·9	4·5	17·2	62	19·4	70	4·5	5	21·0	20·0	26·0	21·8	27·4	18·8	8·6	0·0	0	4·4	33
19	965·7	25·5	4·0	18·7	66	21·4	55	3·1	6	20·9	22·9	28·0	22·4	28·0	20·5	7·5	0·0	0	10·5	79
20	964·8	26·2	4·2	19·1	65	21·9	70	2·2	4	21·0	24·2	26·0	22·0	27·2	20·0	7·2	3·1	13	6·3	47
21	965·0	25·3	2·4	21·2	78	24·9	70	2·7	6	20·9	25·0	27·1	22·1	28·4	20·9	7·5	0·0	0	9·6	72
22	967·8	25·0	3·5	19·0	69	21·8	65	2·2	10	21·0	24·4	27·3	22·3	29·6	20·0	9.6	0·3	2	4·4	33
23	964·5	25·4	4·1	18·4	65	21·0	65	2·2	9	21·0	24·9	27·4	21·2	29·0	20·5	8·5	0·0	0	8·9	67
24	964·0	25·8	4·9	17·5	61	19·8	70	2·7	8	19·2	21·7	26·3	21·8	29·2	18·7	10·5	0·0	0	6·9	52
25	964·9	25·3	4·0	18·5	66	21·1	70	2·2	9	20·7	25·6	25·0	20·6	27·0	19·5	7·5	0·0	0	4·0	30
26	963·8	25·3	4·8	17·1	60	19·3	350	0·9	7	18·9	24·4	29·1	23·0	29·2	18·4	10·8	2·4	28	9·0	68
27	964·2	23·2	1·1	21·3	89	25·1	20	0·9	10	21·0	24·1	23·2	20·6	25·6	20·4	5·2	2·2	23	3·5	26
28	964·2	26·3	4·5	18·7	63	21·4	10	0·9	7	19·8	27·0	27·7	22·5	28·9	19·8	9·1	0·1	2	6·7	50
29	965·5	28·3	5·7	18·8	57	21·5	Calm		8	20·1	27·0	27·0	22·8	30·1	19.2	10·9	0·3	2	6·9	52
30	965·7	27·2	5·7	17·6	56	19·9	10	0·5	8	22·3	26·1	30·0	24·2	30·0	21·8	8·2	0·0	0	8·5	64
31	964·3	26·1	4·7	18·2	62	20·7	Calm		10	20·8	25·0	22·2	21·0	27·5	20·0	7·5	35·3	174	1·4	11
Mean	966·7	24·8	3·8	18·3	67·9	21·0	...	2·6	7·7	19·6	23·5	25·5	21·2	27·1	19·1	8·0	87·1	68·1	6·98	52·6
Average	966·0	24·4	3·1	19·0	72·8	21·9	...	3·4	6·8	...	..	...	...	26·4	19·1	7·3	227·8	...	6·64	50·0
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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

Atmospheric Pressure	+	41·1 mbs.	Amount of rain	—	46·5 mms.
Temperature of the Air	+	3·2°C	Duration of sunshine	+	55·9 hrs.
Vapour Pressure	+	1·2 mbs.	Mean of maximum temperatures	+	2·8°C
Relative Humidity	—	8·5%	,, minimum temperatures	+	2·4°C
Velocity of Wind	+	1·5 m.p.s.	Absolute maximum temperature	+	4·2°C
Amount of Cloud	—	1·3	,, minimum temperature	+	4·1°C
Greatest Rainfall intensity		...			

TABLE VII.—DAILY RESULTS OF METEOROLOGICAL OBSERVATIONS made during the month of DECEMBER 1937

Month and Day 1937.	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.		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 the Beckley Pluviograph.	Duration		
DEC.	mbs.	mbs.	°C	°C	°C	°C	°C	°C	°C	°C	%	%	mbs.	°C	mms.	mins.	mms.	
1	1006·3	− 2·0	29·2	18·9	10·3	23·2	− 1·5	2·7	18·5	− 0·5	75	+ 4	21·1	15·8	0·5	15	4·8	4·3
2	1007·2	− 1·0	30·1	19·0	11·1	23·5	− 1·3	3·3	17·8	− 1·3	70	− 1	20·2	15·1	0·0	...	5·8	4·0
3	1008·7	+ 0·6	28·1	18·7	9·4	23·5	− 1·3	2·7	18·8	− 0·3	75	+ 4	21·5	15·2	0·3	15	3·8	5·3
4	1010·2	+ 2·2	27·8	20·8	7·0	24·1	− 0·8	2·8	19·3	+ 0·1	75	+ 4	22·2	18·2	0·6	15	4·6	7·1
5	1011·5	+ 3·5	27·8	21·9	5·9	24·4	− 0·5	3·1	19·1	− 0·1	72	+ 1	21·9	19·0	0·0	...	6·7	6·6
6	1011·7	+ 3·8	25·0	21·9	3·1	23·3	− 1·7	1·6	20·6	+ 1·2	85	+ 14	24·0	20·2	8·3	125	4·6	7·8
7	1010·8	+ 3·0	28·1	21·2	6·9	23·9	− 1·1	3·1	18·6	− 0·9	72	+ 1	21·2	19·5	0·0	...	5·6	5·7
8	1008·9	+ 1·2	29·1	20·9	8·2	24·4	− 0·7	4·0	17·5	− 2·1	65	− 6	19·8	18·3	0·0	...	7·7	3·2
9	1007·2	− 0·4	29·0	20·4	8·6	24·5	− 0·6	3·8	18·0	− 1·6	67	− 5	20·4	17·8	0·0	...	6·8	3·1
10	1007·4	− 0·1	30·9	19·6	11·3	25·1	− 0·1	3·5	19·1	− 0·6	69	− 3	21·9	16·0	0·0	...	8·2	3·7
11	1010·3	+ 2·9	30·3	22·4	7·9	25·8	+ 0·6	2·6	21·4	+ 1·7	77	+ 5	25·2	19·2	1·0	35	7·4	5·1
12	1010·6	+ 3·2	29·2	22·8	6·4	25·6	+ 0·4	3·4	19·9	+ 0·2	71	− 1	23·0	20·9	0·5	15	6·1	4·4
13	1009·0	+ 1·6	29·2	21·7	7·5	24·8	− 0·4	3·7	18·4	− 1·3	68	− 4	21·0	19·0	0·6	25	9·0	4·0
14	1008·5	+ 1·2	29·2	21·0	8·2	24·4	− 0·9	3·4	18·6	− 1·2	70	− 2	21·2	17·5	2·1	65	7·5	6·6
15	1008·8	+ 1·5	28·9	21·3	7·6	25·3	0·0	2·4	21·2	+ 1·4	78	+ 6	24·9	19·8	8·7	50	6·6	8·7
16	1008·8	+ 1·6	29·3	23·6	5·7	25·8	+ 0·5	3·1	20·6	+ 0·6	73	+ 1	24·0	22·3	0·0	...	5·3	8·2
17	1007·6	+ 0·4	29·7	22·0	7·7	25·4	0·0	3·2	19·9	− 0·2	72	0	23·0	20·0	0·0	...	7·8	4·8
18	1006·8	− 0·3	29·7	21·5	8·2	25·3	− 0·1	3·5	19·2	− 0·9	69	− 3	22·0	18·8	0·0	...	8·2	5·4
19	1005·8	− 1·3	29·9	22·8	7·1	25·9	+ 0·5	3·0	20·8	+ 0·7	73	0	24·3	20·4	0·8	10	7·5	5·3
20	1005·1	− 1·9	30·7	22·0	8·7	26·0	+ 0·6	3·2	20·6	+ 0·5	72	− 1	24·0	18·9	0·0	...	7·6	3·8
21	1006·0	− 1·0	30·8	22·6	8·2	26·2	+ 0·7	3·8	19·8	− 0·4	68	− 5	22·9	19·4	0·0	...	8·2	3·7
22	1005·7	− 1·2	31·0	22·6	8·4	26·3	+ 0·8	3·8	19·9	− 0·3	68	− 5	23·0	19·1	0·0	...	7·8	6·9
23	1004·7	− 2·2	30·3	22·1	8·2	26·1	+ 0·6	4·1	19·2	− 1·0	66	− 7	22·0	20·0	0·0	...	9·0	4·3
24	1004·4	− 2·4	30·8	20·8	10·0	25·5	− 0·1	4·2	18·4	− 1·9	65	− 8	21·0	17·0	0·0	...	8·2	3·9
25	1005·2	− 1·6	29·3	21·3	8·5	25·2	− 0·4	3·7	18·9	− 1·6	68	− 5	21·6	19·2	0·6	10	9·2	5·1
26	1003·8	− 3·0	33·0	20·6	12·4	26·8	+ 1·2	4·3	19·6	− 0·9	65	− 8	22·6	16·4	0·0	...	6·5	7·2
27	1003·6	− 3·1	31·1	23·0	8·1	26·0	+ 0·4	2·7	21·4	+ 0·9	76	+ 3	25·2	20·8	2·9	50	8·4	8·1
28	1004·6	− 2·1	33·0	22·1	10·9	26·9	+ 1·3	3·4	21·2	+ 0·7	71	− 2	24·9	19·1	0·0	...	6·5	6·9
29	1005·7	− 0·9	32·2	21·3	10·9	26·8	+ 1·1	3·8	20·4	− 0·2	68	− 5	23·7	17·4	0·4	10	8·7	5·1
30	1005·9	− 0·6	34·3	23·2	11·1	28·1	+ 2·4	4·5	20·6	0·0	64	− 9	24·0	20·6	0·1	5	8·9	6·1
31	1005·2	− 1·3	31·0	23·2	7·8	25·4	− 0·3	2.1	21.8	+ 1·2	81	+ 7	25·9	19·8	13·2	85	7·3	7·6
Mean	1007·3	0·0	29·9	21·5	8·4	25·3	0·0	3·3	19·7	− 0·2	71·2	− 1·0	22·7	18·7	Sum 40·6	Sum 520	7·1	5·5
Aver.	1007·3	...	29·7	21·6	8·1	25·3	...	3·1	19·7	...	72·2	...	23·0	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 1937.

There was no cyclonic activity. Conditions were moderately anticyclonic from the 3rd—8th and the 11th—17th. From the 18th—21st pressure was consistently below normal, chiefly due to "lows" to the South-west and South, while temperatures were above and humidity and wind velocity below normal.

For the month the only important departure from normal was in the rainfall. This showed a deficit of 65%.

TABLE VII.—DAILY RESULTS of METEOROLOGICAL OBSERVATIONS made during the month of DECEMBER 1937.

Month and Day 1937.	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.
DECEMBER	hrs.	%	m.p.s.	m.p.s.	°C.	°C.	°C.	°C.	
1	8·1	61	2·2	− 1·1	24·4	25·1	26·6	26·5	bc : b . bc : cgr$_0$: bc : b .
2	7·4	56	1·9	− 1·4	24·3	25·1	26·6	26·6	b$_0$: b : bc : cg : c : bc : b .
3	5·5	42	1·7	− 1·6	24·3	25·1	26·6	26·5	b$_0$ b : bcr$_0$: cgr$_0$: ct : c .
4	6·9	52	4·0	+ 0·7	24·3	25·2	26·5	26·6	b . cr$_0$: bc : c .
5	7·4	59	4·9	+ 1·6	24·3	25·2	26·5	26·5	bc : c : cq$_0$: bc : q .
6	1·2	9	4·0	+ 0·7	24·1	25·2	26·5	26·7	bcr$_0$: cr$_0$: or$_0$r$_0$: c : bc .
7	7·4	56	3·9	+ 0·6	24·3	25·3	26·4	26·6	bc : c : bc : b .
8	9·0	68	3·1	− 0·2	24·4	25·2	26·4	26·7	b : bc : b ,
9	10·7	80	2·9	− 0·4	24·4	25·2	26·4	26·8	b$_0$: bc : b .
10	11·6	87	1·8	− 1·6	24·4	25·2	26·5	27·1	b$_0$: b : bc .
11	9·0	68	2·8	− 0·6	24·4	25·2	26·6	27·5	bc : bcr$_0$: bcr$_0$l : b .
12	12·2	92	3·5	+ 0·1	24·6	25·3	26·8	28·0	cr$_0$: b : bc : b .
13	11·7	88	3·7	+ 0·3	24·4	25·2	27·0	28·0	b : bc : bcr$_0$: b .
14	9·1	68	3·8	+ 0·4	24·4	25·3	27·1	27·9	bcr$_0$: bc : cg : or$_0$.
15	5·7	43	3·1	− 0·3	24·4	25·3	27·2	27·7	or$_0$: c : bc : c : o ;
16	6·2	47	2·9	− 0·5	24·4	25·3	27·2	27·8	o : c : bc .
17	11·3	85	3·3	− 0·1	24·3	25·4	27·2	28·0	bc : b .
18	10·2	77	2·9	− 0·5	24·4	25·4	27·4	28·0	bc : c : bc .
19	11·7	88	2·7	− 0·7	24·4	25·4	27·4	28·0	c : bc : bcr$_0$: bc : bct : b .
20	11·8	89	2·5	− 0·9	24·5	25·4	27·5	28·3	b : bc : b .
21	10·6	80	3·0	− 0·4	24·4	25·4	27·6	28·4	b : bc : b .
22	9·3	70	3·0	− 0·4	24·4	25·5	27·7	28·5	bc : c ,
23	11·2	84	2·7	− 0·7	24·4	25·5	27·8	28·6	c : bc : b .
24	10·3	77	2·4	− 1·0	24·4	25·5	27·9	28·9	b : bc : c : bc : b .
25	7·2	54	2·4	− 1·0	24·4	25·5	28·0	28·9	bc : bcr$_0$: bc : c : bc : b .
26	12·4	93	2·3	− 1·1	24·4	25·5	28·1	28·8	bc : c : bc : c : bc : c .
27	5·0	38	2·3	− 1·1	24·4	25·6	28·1	29·0	or$_0$: cr$_0$: c : bc : b .
28	7·3	55	2·3	− 1·0	24·4	25·6	28·2	29·0	bc : c : bc .
29	11·7	88	2·2	− 1·1	24·4	25·6	28·3	29·0	b : bc : c : bc : br$_0$.
30	12·0	90	2·1	− 1·2	24·4	25·7	28·4	29·4	bcd$_0$: bc : e : bc : c .
31	1·3	10	1·7	− 1·6	24·4	25·8	28·5	29·6	b : bc : cr$_0$: cg : orr : c .
Mean	8·79	66·2	2·84	−0.52	24·38	25·36	27·26	27·86	.....
Average	8·35	62·6	3·36	...	24·58	25·55	27·13	27·94	.....
Column	19	20	21	22	23	24	25	26	.....

MEANS AND EXTREMES OF CERTAIN METEOROLOGICAL ELEMENTS DURING THE MONTH OF DECEMBER 1937.

Element	Highest		Date	Lowest		Date
Atmospheric Pressure	1013·0mbs.	at 22·00hrs.	on 6th	1002·mbs.	at 16·00hrs.	on 26th
Temperature of the Air	34·3°C	...	on 30th	18·7°C	at 05·10hrs.	on 3rd
Daily range of temperature of the Air ...	12·4°C	...	on 26th	3·1°C	...	on 6th
Temperature of the Dew Point	23·2°C	at 01·00hr.	on 30th	14·7°C	at 13·00hrs.	on 8th
Daily range of temperature of the Dew Point	5·2°C	...	on 3rd	1·5°C	...	on 4th
Minimum on Grass	...	...	...	15·1°C	...	on 2nd
Relative humidity	93·7%	at 06·00hrs.	on 17th	41·6%	at 14·00hrs.	on 30th
Vapour Pressure	28·1mbs.	at 01·00hr.	on 30th	16·6mbs.	at 13·00hrs.	on 8th
Evaporation in 24 hours	9·2mms.	...	on 25th	3.8mms.	...	on 3rd
Wind Velocity	7·0m.p.s	at 15·00hrs.	on 5th	0.6m.p.s.	...	often
Rainfall in 24 hours	13·2mms.	ending 20hrs.	on 31st	...	...	...
Duration of sunshine	12·4hrs.	...	on 26th	1·2hrs.	...	on 6th

Mean Day Temperature of Air, 27·53°C Average 27·69°C Mean Night Temperature of Air 23·00°C. Average 23·68°C.

NUMBER OF DAYS OF:—

Mean Cloud Amount: 0	1 — 3	4 — 6	7 — 9	10	Rainfall: 0·1 — 0·9 mms.	1·0 — 4·9 mms.	5·0 — 9·9 mms.	10·0 — 24·9 mms.	25·0 & over mms.	Lightning	Thunderstorm
...	2	18	11	...	9	3	2	1	...	1	...

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

(The values are corrected for temperature and for the effect of gravity, but are not reduced to sea level.)
(The cistern of the barometer is 55·2 metres above mean sea-level.)

DECEMBER 1937.

Hour. \ Day.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	12d.	13d.	14d.	15d.	16d.	Day. / Hour.
	The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.																
Midnight	070	070	088	092	110	120	119	101	081	073	092	113	104	091	091	094	Midnight
1	064	067	081	090	106	116	114	096	078	071	090	109	100	089	090	090	1h
2	061	067	080	090	102	111	111	090	074	070	091	105	094	081	085	081	2
3	060	065	081	090	102	110	110	089	071	071	090	102	090	080	083	081	3
4	060	068	081	090	104	110	110	090	072	070	090	101	090	078	080	080	4
5	061	070	083	092	106	111	111	090	073	070	092	105	090	078	080	082	5
6	070	073	090	099	111	117	116	097	080	072	101	110	093	080	086	089	6
7	072	079	091	101	116	121	119	100	081	072	109	110	097	085	090	094	7
8	072	080	094	101	120	127	120	100	080	076	111	111	093	089	090	093	8
9	075	078	093	105	120	126	119	097	081	079	116	111	092	088	091	092	9
10	071	071	091	108	120	125	113	094	079	076	114	111	091	084	091	092	10
11	063	070	090	102	120	121	112	091	073	070	111	111	091	081	091	093	11
Noon	055	067	089	101	119	120	108	096	070	068	105	110	089	080	090	090	Noon
13h	050	061	082	099	116	112	102	080	062	066	105	103	084	079	087	089	13h
14	049	064	080	098	112	110	099	077	058	061	098	098	080	079	081	082	14
15	046	060	078	096	110	108	092	073	057	060	095	093	079	073	080	079	15
16	049	060	076	095	109	102	091	075	055	060	091	092	079	071	079	078	16
17	051	061	080	099	110	106	096	077	058	062	096	095	078	078	080	080	17
18	058	067	082	101	113	114	101	081	064	070	100	100	082	081	081	088	18
19	063	074	090	111	120	120	105	085	071	080	106	109	090	093	090	090	19
20	069	081	093	115	122	124	110	090	075	084	110	111	091	099	091	091	20
21	071	089	099	119	124	129	110	091	075	091	115	111	094	100	097	094	21
22	074	090	100	120	127	130	110	091	080	099	118	112	096	101	100	099	22
23	073	090	099	118	126	125	108	090	079	100	118	111	095	100	100	096	23

Hour. \ Day.	17d.	18d.	19d.	20d.	21d.	22d.	23d.	24d.	25d.	26d.	27d.	28d.	29d.	30d.	31d.	Mean	Day. / Hour.
	The initial 10 or 9 is omitted. The unit in the table is 0·1 millibar.																
Midnight	090	078	071	059	060	063	060	043	053	051	043	041	060	060	061	1007·8	Midnight
1h	087	074	069	049	057	060	054	041	053	043	037	040	060	060	051	1007·4	1h
2	080	070	064	044	052	060	051	040	052	040	032	039	058	060	047	1007·0	2
3	077	066	061	040	051	053	047	040	052	037	030	038	056	056	043	1006·8	3
4	074	063	061	040	052	053	046	039	053	039	030	037	053	058	044	1006·8	4
5	077	062	061	040	059	060	046	041	057	040	030	040	053	060	048	1007·0	5
6	080	066	066	046	062	068	050	050	061	047	032	046	061	062	051	1007·5	6
7	080	070	070	051	064	070	056	051	062	051	040	051	062	066	057	1007·9	7
8	080	074	064	056	068	070	057	051	061	051	041	056	067	070	058	1008·0	8
9	080	078	061	060	068	071	057	051	061	050	043	056	067	070	057	1008·0	9
10	080	070	061	060	066	070	052	051	061	045	044	053	067	068	051	1007·8	10
11	080	070	060	058	061	066	051	048	058	041	043	050	061	061	050	1007·6	11
Noon	076	069	056	052	060	059	049	041	051	039	040	046	060	059	046	1007·3	Noon
13h	071	061	051	049	059	051	043	040	050	032	030	041	052	050	041	1006·3	13h
14	069	061	049	046	054	049	040	034	043	028	031	033	049	050	040	1006·5	14
15	061	060	041	043	051	040	030	030	040	021	026	030	046	043	038	1006·1	15
16	061	060	040	043	051	040	030	029	035	020	021	030	041	044	039	1006·0	16
17	066	060	043	045	052	040	031	030	037	021	026	034	041	049	046	1006·2	17
18	070	061	050	050	055	047	040	039	040	024	030	041	048	051	051	1006·7	18
19	071	066	058	058	060	051	045	044	041	030	039	050	054	053	060	1007·3	19
20	073	070	060	060	066	059	050	050	049	040	041	055	061	060	061	1007·8	20
21	077	072	061	061	068	060	050	052	051	041	041	059	065	063	063	1008·0	21
22	080	076	064	064	070	061	051	058	058	046	042	060	070	069	068	1008·3	22
23	080	076	063	061	069	060	049	053	057	050	046	600	067	064	067	1003·2	23

TABLE IX.—AMOUNT OF CLOUD at every HOUR of the DAY (0 = CLEAR SKY, 10 = OVERCAST SKY).

Hour. \ Day.	DECEMBER 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	Mean.
Midnight	1	0	0	6	7	5	4	1	0	0	4	5	3	5	10	10	4	2	5	1	1	5	9	1	5	1	9	5	1	8	4	3·9
1h	3	0	0	4	6	5	3	1	0	0	3	8	4	5	10	10	5	3	8	1	1	5	9	1	4	3	9	7	1	6	3	4·1
2	5	0	0	3	5	4	4	1	0	0	3	9	2	4	10	10	6	4	9	1	2	4	9	1	5	5	9	7	1	5	2	4·2
3	7	0	0	3	4	4	2	1	1	0	2	9	3	2	10	10	7	4	9	1	2	3	9	1	6	8	10	5	1	3	3	4·2
4	4	0	1	2	6	3	2	1	1	1	3	9	3	2	10	10	6	4	9	1	2	3	9	1	9	8	10	4	1	3	5	4·3
5	2	1	1	10	6	9	7	4	7	2	4	3	6	8	7	9	5	3	6	3	2	4	8	10	7	10	10	3	2	5	7	5·5
6	2	1	1	8	7	9	4	5	8	3	4	3	3	3	5	9	5	4	6	2	2	3	8	10	4	9	9	3	3	4	7	5·0
7	3	2	2	7	8	9	6	4	7	4	5	3	3	3	6	9	5	6	6	4	3	7	6	9	5	7	9	6	4	4	7	5·5
8	3	4	2	7	9	9	8	3	7	4	5	3	4	3	6	9	5	6	6	5	4	8	4	9	5	5	9	8	6	5	7	5·7
9	5	4	5	6	7	9	8	4	6	6	6	5	4	6	6	10	6	5	4	6	5	8	5	8	5	7	9	8	8	8	8	6·4
10	4	4	6	8	7	10	9	4	7	5	5	6	4	5	8	9	6	4	5	7	6	7	5	6	6	6	9	8	8	7	8	6·4
11	5	4	7	7	10	10	9	5	6	4	6	5	5	5	9	9	6	4	5	8	6	8	5	4	7	6	9	8	8	6	8	6·6
Noon	4	6	7	9	9	10	9	4	6	4	7	5	6	5	9	8	6	6	6	6	5	8	4	4	8	8	8	8	8	6	8	6·7
13h	5	6	7	10	8	10	8	4	3	5	7	4	5	7	9	8	6	8	6	5	6	7	3	3	8	8	9	8	8	7	8	6·6
14	6	9	8	8	8	10	7	4	3	3	7	4	4	9	10	7	6	8	6	6	8	8	3	2	8	8	9	9	8	8	9	6·9
15	8	9	9	9	9	10	6	6	3	4	8	4	8	9	8	8	4	8	4	8	7	6	5	3	8	8	9	9	7	8	10	7·2
16	9	9	9	9	9	10	8	5	2	5	8	4	9	8	8	7	6	8	5	4	6	8	5	3	9	7	9	9	7	7	10	7·1
17	9	9	9	9	9	9	9	5	1	5	8	4	4	9	9	8	8	9	6	5	4	9	1	3	6	7	10	9	8	7	10	7·0
18	9	9	9	9	7	8	9	5	1	5	8	5	3	8	9	9	7	8	5	5	1	8	1	3	5	6	9	9	8	6	10	6·6
19	6	7	9	8	6	9	10	3	2	6	9	3	2	10	9	7	3	5	3	4	3	8	1	2	1	7	9	9	8	6	10	6·6
20	2	5	8	8	4	8	2	3	1	6	3	2	2	10	10	8	2	5	1	4	2	9	0	2	1	8	4	9	5	7	10	4·9
21	1	3	8	7	2	8	1	2	1	7	2	1	2	10	10	6	1	3	3	2	2	9	0	1	1	9	3	8	3	8	10	4·3
22	1	2	8	6	2	5	1	2	1	4	2	1	2	10	10	5	1	4	3	2	3	9	0	2	1	9	3	5	3	8	9	4·0
23	1	2	8	8	4	5	1	1	1	3	3	1	3	10	10	6	1	7	3	1	3	9	1	3	1	9	3	3	3	7	7	4·1

TABLE X.—DURATION of BRIGHT SUNSHINE at every HOUR of the DAY as recorded by the CAMPBELL-STOKES SUNSHINE RECORDER.

Hour Ending. \ Day.	DECEMBER 1937.																															
	d 1	d 2	d 3	d 4	d 5	d 6	d 7	d 8	d 9	d 10	d 11	d 12	d 13	d 14	d 15	d 16	d 17	d 18	d 19	d 20	d 21	d 22	d 23	d 24	d 25	d 26	d 27	d 28	d 29	d 30	d 31	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	15	18	18	7	0	0	4	0	2	0	0	4	23	15	1	0	0	4	0	21	22	0	0	0	29	0	10	0	0	3	2	3·3
7	60	60	60	60	57	27	60	35	31	59	22	55	60	58	23	0	31	45	45	55	55	49	45	0	58	55	42	9	55	43	0	21·9
8	60	60	60	45	23	26	60	50	60	60	60	60	60	60	60	0	57	60	60	60	60	35	35	20	60	60	33	60	60	60	26	25·8
9	60	60	57	60	55	10	53	60	49	60	55	60	60	60	60	0	60	60	60	60	60	45	60	48	60	60	11	60	60	60	26	26·8
10	60	60	27	59	60	0	22	60	35	60	58	60	58	60	58	45	60	60	60	60	60	60	60	60	60	60	17	59	60	60	0	26·3
11	60	60	0	59	25	1	20	60	56	60	60	60	60	60	20	48	60	60	60	28	46	49	60	60	26	60	10	36	60	60	0	23·1
Noon	60	53	0	50	10	0	18	60	50	60	60	60	60	60	10	58	60	60	60	60	60	60	60	60	4	60	47	50	60	60	13	24·0
13h	47	50	0	4	37	0	42	60	56	60	60	60	60	60	5	55	60	50	60	60	55	60	60	60	0	60	53	56	60	60	5	23·6
14	28	26	23	8	33	0	48	60	60	60	60	60	60	47	14	33	60	58	60	60	53	50	60	60	5	60	5	55	60	60	1	22·1
15	30	0	27	10	45	5	60	50	60	60	60	60	55	0	0	60	60	34	60	60	5	60	60	60	0	60	0	30	60	60	0	19·9
16	5	0	40	43	50	0	54	10	60	60	25	60	25	0	34	54	55	23	60	60	20	60	60	60	18	60	5	9	60	60	0	18·8
17	0	0	7	2	30	0	1	14	60	60	3	60	26	30	37	21	60	30	47	60	60	25	60	60	45	60	42	11	60	60	0	17·2
18	0	0	0	8	20	0	0	18	60	35	16	60	60	24	20	0	55	52	60	60	60	5	53	60	60	60	14	0	26	60	0	15·8
19	0	0	12	0	0	0	0	5	2	0	2	15	33	11	0	1	0	15	10	4	21	0	1	10	6	30	8	4	20	17	0	3·8

The total Amount of Registered Sunshine was 272·4 hrs. and the total possible sunshine was 411·5 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 1937.

Day. / Hour.	1d.		2d.		3d.		4d.		5d.		6d.		7d.		8d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	19·8	1·5	19·8	1·7	20·1	1·9	21·9	1·7	22·6	2·0	22·4	1·3	22·3	1·5	22·1	1·9	Midnight
1h	19·6	1·5	19·6	1·6	19·6	1·6	21·8	1·6	23·0	2·4	22·3	1·2	22·1	1·6	21·3	1·6	1h
2	19·3	1·2	19·3	1·4	19·6	1·6	21·8	1·5	23·0	2·6	22·0	1·5	22·3	2·1	21·1	1·9	2
3	19·1	0·9	19·0	1·3	19·3	1·5	21·1	1.2	22·2	2·0	22·6	1·4	21·9	1·9	21·0	2·0	3
4	19·7	1·0	19·1	1·3	18·8	1·6	21·0	1·2	22·0	2·0	22·4	1·3	21·8	1·7	21·0	1·9	4
5	19·0	1·1	19·2	1·2	18·8	1·6	21·0	1·0	22·2	2·0	22·4	1·2	21·4	1·5	21·1	2·0	5
6	20·0	1·1	19·9	1·5	20·1	1·7	22·2	1·2	23·0	2·7	22·8	1·2	22·2	2·2	22·0	2·6	6
7	23·0	2·0	23·2	2·1	23·6	2·6	24·2	2·3	24·1	2·3	23·7	1·8	24·1	3·1	24·0	3·7	7
8	25·0	3·8	25·4	3·6	26·0	4·4	25·2	3·1	25·0	3·1	23·2	1·1	24·9	3·2	25·5	4·8	8
9	26·6	5·2	27·0	4·1	26·6	4·6	26·0	4·0	26·6	4·4	23·8	1·6	25·7	4·0	26·8	6·3	9
10	27·3	6·0	27·8	5·8	26·8	4·2	26·4	4·2	27·0	4·3	24·1	1·2	26·0	4·9	27.2	6·3	10
11	27·7	5·7	29·1	7·0	25·9	3·9	27·7	5·1	26·4	4·2	24.3	1·7	26·0	4·8	27·8	6·8	11
Noon	28·4	6·4	29·1	6·0	26·8	3·8	27·1	4·8	26·6	4·5	23·6	1·4	26·4	5·1	28·2	7·0	Noon
13h	27·4	5·5	29·1	6·3	26·2	4·0	27·0	4·4	26·8	4·6	24·0	1·9	27·1	5·5	28·4	8·2	13h
14	28·7	6·0	27·3	5·3	27·1	3·9	26·0	3·8	26·2	4·2	23·6	1·4	27·8	5·9	28·9	7·8	14
15	26·1	3·6	26·2	4·5	26·1	3·8	25·1	2·8	26·7	4·7	24·3	2·1	27·7	6·1	27·0	6·0	15
16	25·9	3·6	24·8	3·9	26·2	3·9	25·5	3·7	26·1	4·9	24·5	2·4	26·2	5·3	26·1	5·0	16
17	24·9	2·2	24·9	4·0	25·1	3·0	25·0	3·3	25·6	4·6	24·7	2·6	24·2	3·0	26·0	5·1	17
18	23·6	0·9	25·0	3·9	24·7	2·5	24·6	3·4	24·7	3·7	23·9	2·2	24·0	2·9	25·0	4·1	18
19	23·0	0·9	24·1	3·1	24·0	1·9	23·7	2·8	23·6	2·6	23·3	2·1	23·6	3·1	23·8	3·0	19
20	21·9	0·7	22·5	2·4	23·5	1·5	23·9	2·9	23·2	2·2	23·3	2·1	21·8	1·2	23·7	2·6	20
21	21·1	1·7	21·6	2·2	23·2	2·0	23·7	2·7	23·0	2·0	23·1	1·9	21·7	1·6	23·1	2·2	21
22	20·3	1·3	20·9	2·0	22·9	1·9	23·7	2·8	22·8	1·6	23·0	1·9	21·4	1·4	22·9	2·0	22
23	20·0	1·4	20·2	1·9	22·3	1·5	23·0	2·4	22·4	1·3	22·7	1·5	21·1	1·0	22·6	2·0	23

Day. / Hour.	9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	21·9	1·8	21·3	1·5	22·2	1·2	24·2	1·2	22·8	1·9	22·1	2·3	22·2	1·5	24·7	1·5	Midnight
1h	21·9	1·9	20·9	1·8	23·0	1·3	24·0	1·1	22·2	1·9	21·5	2·3	21·8	1·1	24·6	1·5	1h
2	21·1	1·5	20·5	1·5	22·9	1.4	24·0	1·0	22·1	1·9	21·1	2·0	21·8	0·9	24·2	1·2	2
3	21·0	1·6	20·8	1·6	22·7	1·2	24·0	1·0	21·9	1·9	21·8	1·8	22·7	0·8	24·3	1·3	3
4	20·5	1.4	20·1	1·4	23·0	1·0	23·7	1·3	21·7	1·8	22·0	2·3	23·0	1·0	24·2	1·3	4
5	21·2	1·5	19·7	1·6	23·7	1·0	23·2	1.1	22·0	2·0	22·0	2·3	22·9	1·1	24·0	1·4	5
6	22·0	2·0	19·9	1.5	23·3	1·1	23·7	1·4	22·5	2·3	22·0	2·3	23·0	1·1	24·1	1·2	6
7	24·0	3·0	24·0	2·6	25·6	1·6	25·1	2·1	24·3	2·9	24·1	3·4	24·0	1·0	24·9	1·9	7
8	26·0	4·8	26·0	4·1	27·2	3·2	26·1	3.2	26·3	4·4	25·8	4·9	25·9	2·0	25·7	2·7	8
9	26·7	5·7	25·1	4·7	27·9	3·6	27·0	3·8	27·2	5·4	26·4	5·2	27·0	3·1	26·5	3·3	9
10	27·4	5·9	28·0	5·3	28·1	4·2	28·0	4·9	28·0	6·0	26·9	5·2	27·1	3·1	27·3	4·1	10
11	28·2	6·3	29·1	6·5	29·3	5·2	28·6	5·8	28·5	6·4	28·2	6·3	27·1	3·6	28·5	4·6	11
Noon	27·9	5·8	29·1	6·1	29·8	5·6	28·2	5.6	28·7	6·7	28·3	6·3	27·2	3·2	28·9	5·8	Noon
13h	28·2	6·4	30·0	6.8	29·6	5·5	28·9	6·7	28·9	7·1	28·7	6·5	28·0	3·9	28·6	6·3	13h
14	28·2	6·3	29·0	5·7	29·3	5·2	29·0	7·0	28·0	6·1	27·0	4·9	27·8	4·0	28·9	6·4	14
15	27·8	5·9	30·0	6·7	28·1	4·4	28·6	6·0	26·3	4·4	27·6	5·9	28·1	4·6	28·1	5·2	15
16	27·2	6·1	29·2	6·1	27·6	3·8	27·8	5·7	25·8	3·6	27·0	5·0	27·8	4·5	28·0	5·6	16
17	26·6	5·5	28·6	5·5	27·1	4·0	26·9	4·9	25·8	3·8	25·8	3·7	27.1	3·8	26·7	4·4	17
18	25·6	4·6	26·6	3·9	25·1	1·2	26·0	4·1	25·4	4·3	25·1	3·6	26·1	3·1	26·0	3.3	18
19	24·2	3·2	25·2	2·6	25·1	1.4	24·8	3·2	24·1	3·3	23·0	1·1	25·6	2·5	25·2	3·0	19
20	23·2	2·5	24·6	2·1	25·0	1·8	24·0	2·8	23·3	3·1	22·4	1·2	25·2	2.0	24·3	2·3	20
21	22·6	2·4	24·1	1·9	24·6	1·6	23·3	2·2	23·0	2·8	21·9	1·2	25·0	1·9	23·9	1·9	21
22	22·0	1·9	23·6	1·6	24·1	1·1	23·1	2·1	23·0	2·2	22·1	1·4	24.8	1·6	23·6	1·6	22
23	21·9	1·9	23·6	1·6	24·0	1·2	23·2	2·2	23·1	2·8	21·7	1·2	24·7	1·6	23·9	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.*)

DECEMBER 1937.

Day. / Hour.	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		Day. / Hour
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	23·9	1·6	22·6	1·9	24·0	2·0	23·3	1·1	23·1	1·2	24·1	2·0	24·1	2·0	22·1	2·1	Midnight
1h	23·7	1·5	22·8	1·9	23·8	1·7	23·3	1·0	23·0	1·3	24·0	2·0	23·7	1·7	21·7	1·8	1h
2	23·5	1·3	22·0	1·8	23·2	1·4	23·2	1·1	22·9	1·5	23·3	1·5	23·5	1·6	21·2	1·6	2
3	23·3	1·2	21·7	1·7	23·6	1·6	23·0	1·1	22·9	1·1	23·1	1·5	23·3	1·4	21·0	1·7	3
4	23·0	1·0	21·9	1·7	23·1	1·8	22·6	0·9	22·9	1·1	23·0	1·7	23·8	2·0	21·0	1·7	4
5	22·7	0·8	21·6	1·6	22·8	1·5	22·1	1·0	22·7	1·1	22·9	1·7	23·3	1·8	21·9	1·7	5
6	22·4	0·6	22·0	1·8	23·1	1·1	22·6	1·0	23·2	1·2	22·9	1·4	23·5	1·6	22·8	1·7	6
7	25·1	2·3	24·3	2·7	24·6	1·9	25·3	1·7	25·8	2·3	25·6	2·6	25·7	2·7	23·9	1·7	7
8	25·9	3·1	26·4	4·3	25·8	2·9	27·0	3·6	27·2	3·7	26·5	3·4	26·0	2·8	25·6	3·4	8
9	27·2	4·0	27·0	4·7	27·5	4·0	28·2	4·2	28·6	5·3	27·9	4·5	28·6	5·7	27·7	5·3	9
10	28·3	5·3	28·0	5·8	28·2	4·7	28·9	4·8	29·1	5·8	29·6	6·7	28·8	5·8	28·3	6·1	10
11	28·9	5·9	29·0	7·4	28·9	5·3	28·1	4·7	29·5	5·7	29·3	6·3	29·7	7·2	28·7	6·5	11
Noon	29·2	5·5	29·0	6·7	28·8	5·4	29·9	6·2	29·8	6·6	29·8	6·3	29·5	6·9	29·7	7·2	Noon
13h	29·0	6·3	28·9	6·7	29·1	5·4	30·2	6·7	30·0	7·0	30·2	6·8	30·0	7·3	30·0	8·1	13
14	28·2	5·2	29·1	6·3	28·7	5·2	30·0	6·3	29·7	7·6	30·0	6·2	30·0	7·4	30·1	7·9	14
15	28·3	5·8	29·0	5·4	29·0	5·3	29·5	5·7	28·8	6·9	29·7	6·2	29·6	7·2	29·2	7·0	15
16	27·2	4·4	27·9	5·3	29·0	5·3	28·9	5·9	29·0	6·7	29·3	6·3	28·9	6·7	29·3	7·2	16
17	26·8	4·7	26·9	4·3	27·8	4·3	28·6	5·3	28·1	5·8	27·7	4·6	27·9	6·0	28·0	6·0	17
18	25·4	3·5	26·1	4·1	26·6	3·4	27·1	4·0	27·1	4·8	26·8	4·1	26·8	5·1	27·0	5·6	18
19	24·3	3·2	25·1	3·0	25·6	2·5	25·9	2·8	25·7	3·6	25·9	3·3	25·4	4·2	25·4	3·9	19
20	24·0	2·9	24·8	2·3	25·0	1·9	25·1	2·2	25·1	2·6	25·3	3·1	24·5	3·4	24·6	3·3	20
21	23·7	2·7	24·2	2·2	24·7	1·6	24·2	1·7	24·8	2·6	24·9	2·7	24·1	3·1	24·0	2·8	21
22	23·3	2·3	23·6	1·7	24·2	1·2	23·8	1·7	24·4	2·2	24·7	2·5	23·3	2·6	23·7	2·6	22
23	23·1	2·3	23·2	1·5	23·9	1·3	23·6	1·5	24·1	2·0	24·1	2·0	22·7	2·4	23·9	2·3	23

Day. / Hour	25d.		26d.		27d.		28d.		29d.		30d.		31d.		Mean.		Day. / Hour.
	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	Air.	Excess of Air over Evap.	
Midnight	23·6	2·0	21·3	1·9	24·8	2·5	23·0	1·3	23·9	1·8	24·8	1·1	24·6	2·3	22·8	1·7	Midnight
1h	23·1	1·8	20·9	1·8	24·9	1·9	23·0	1·3	23·3	1·3	25·1	1·1	24·3	2·0	22·6	1·6	1h
2	23·0	1·9	20·7	1·7	24·1	1·5	23·0	1·2	23·0	1·6	24·8	1·5	24·0	1·9	22·3	1·6	2
3	23·1	1·5	21·9	1·2	23·7	1·1	23·3	1·2	22·1	1·2	24·6	1·4	23·8	1·8	22·3	1·5	3
4	22·8	1·7	22·0	1·1	23·3	1·5	23·0	1·1	21·9	1·6	24·1	1·5	23·7	1·7	22·1	1·4	4
5	22·3	1·3	22·3	1·2	23·4	1·4	22·3	1·2	21·6	1·5	23·6	1·5	23·7	1·7	22·0	1·4	5
6	22·3	1·3	22·4	1·3	23·6	1·6	22·6	1·3	21·8	1·6	23·9	1·5	23·6	1·6	22·4	1·5	6
7	25·2	2·3	25·2	2·4	25·3	2·3	24·8	1·4	24·2	1·4	25·9	2·8	25·2	2·0	24·6	2·3	7
8	26·9	3·8	27·0	3·9	25·2	1·6	27·8	3·7	27·7	4·0	27·3	4·2	26·6	2·7	26·1	3·5	8
9	28·2	6·0	29·1	5·8	26·5	2·4	29·6	5·0	29·7	5·5	29·2	6·0	27·7	3·1	27·3	4·5	9
10	28·9	6·9	29·5	6·4	28·4	3·7	30·6	5·7	30·1	6·6	30·8	7·9	28·0	3·0	28·0	5·2	10
11	28·5	6·2	31·1	7·4	28·5	5·0	30·9	5·9	31·1	7·4	32·2	8·2	27·5	3·0	28·5	5·6	11
Noon	28·0	5·8	31·2	7·2	30·1	5·0	31·3	6·1	31·7	8·0	32·9	8·2	29·1	4·1	28·9	5·8	Noon
13h	27·8	5·6	32·2	8·0	31·0	6·0	32·2	6·9	31·7	7·6	33·3	8·5	29·8	4·8	29·1	6·2	13h
14	28·1	6·1	32·6	8·3	27·1	2·6	32·4	7·1	31·3	6·7	33·8	9·3	29·8	5·1	28·8	5·8	14
15	27·7	5·6	33·0	8·3	27·7	3·7	31·4	6·1	31·1	6·8	33·2	8·4	27·5	3·3	28·3	5·4	15
16	27·7	5·1	31·7	7·7	29·0	5·0	30·1	5·3	30·1	6·4	32·3	7·6	26·1	1·8	27·8	5·1	16
17	27·2	5·2	31·0	6·9	28·9	4·8	29·3	4·9	29·0	5·1	30·0	5·9	24·1	1·3	27·0	4·5	17
18	26·2	4·5	29·2	6·0	27·9	3·9	28·4	4·1	28·1	4·5	29·1	5·0	23·9	1·1	26·0	3·7	18
19	24·8	3·8	26·8	4·2	26·6	2·7	27·4	3·3	26·8	3·2	27·7	3·9	23·4	0·7	24·9	2·8	19
20	23·8	3·0	25·8	3·4	25·1	2·1	26·1	2·7	26·0	2·2	27·1	3·2	23·5	0·7	24·3	2·4	20
21	23·0	2·7	25·4	2·7	24·1	1·4	25·1	2·1	25·6	2·0	27·0	3·0	23·6	0·8	23·8	2·2	21
22	22·4	2·3	25·1	2·5	23·7	1·0	24·4	1·7	25·1	1·9	26·3	2·6	23·6	0·7	23·4	1·9	22
23	21·8	2·1	25·0	2·7	23·1	1·2	24·0	1·8	24·9	1·4	25·2	2·2	23·4	0·8	23·1	1·8	23

TABLE XII.—DIRECTION and VELOCITY of the WIND at every HOUR of the DAY as recorded by the ROBINSON CUP ANEMOMETER during DECEMBER 1937.

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

The Velocities are given in Metres per Second, using the factor 2·2.

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

DECEMBER 1937.

Hour \ Day	1d. *		2d. *		3d. *		4d.		5d.		6d.		7d.		8d.		9d.		10d.		11d.		12d.		13d.		14d.		15d.		16d.	
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.
Midnight	10	1·8	10	1·8	14	1·2	12	1·0	11	4·6	11	4·3	10	2·8	09	1·8	09	1·8	08	1·5	07	1·1	08	2·2	10	2·6	08	2·2	12	3·0	08	2·2
1h	10	1·3	10	1·4	14	1·8	12	0·7	11	4·1	10	4·0	10	2·9	10	2·4	09	2·2	08	1·1	07	1·3	08	1·6	10	1·9	08	1·7	09	1·4	08	2·1
2	10	1·3	10	1·7	14	1·8	12	0·7	11	3·1	11	3·7	11	2·9	10	2·4	09	1·6	08	1·1	07	1·1	08	2·5	10	1·9	08	1·9	13	1·7	08	1·7
3	10	1·4	10	1·5	14	1·6	11	1·0	11	1·9	10	2·6	10	2.7	10	2·3	09	1·3	08	1·2	07	1·4	09	2·7	10	2·4	10	2·1	12	1·7	08	2·0
4	10	1·8	10	1·9	11	1·4	11	0·8	10	3·0	10	3·8	10	3·9	10	1·9	09	1·5	08	1·1	07	1·8	08	3·4	10	2·3	10	2·8	12	2·8	07	2·0
5	10	2·5	10	1·7	13	1·8	11	1·8	11	3·7	11	2·9	09	3·2	10	2·0	09	1·9	08	0·6	07	1·5	08	2·3	10	4·0	11	2·2	11	2·6	06	1·8
6	11	2·2	10	1·3	13	1·4	12	2·8	10	2·2	10	3·5	10	3·4	10	2·4	09	2·1	08	0·7	07	1·8	08	2·6	09	3·2	10	2·5	11	2·7	07	2·7
7	11	1·2	10	1·2	13	1·1	12	3·0	10	3·8	10	4·3	09	4·1	10	3·4	09	2·7	09	1·8	07	1·8	08	4·1	09	4·4	10	4·4	10	3·4	06	3·1
8	06	2·1	04	1·4	07	1·4	12	5·2	10	5·3	09	4·1	09	5·6	09	4·0	08	3·6	07	2·2	05	3·0	08	4·4	09	5·0	08	6·2	07	3·3	06	3·8
9	07	1·6	02	2·4	06	1·4	12	5·5	09	6·1	05	4·2	09	5·3	08	4·9	08	3·3	03	2·4	04	3·1	07	6·0	08	5·8	08	4·4	07	3·8	06	3·0
10	06	2·7	03	2·5	31	3·5	12	5·7	11	6·4	06	3·6	06	5·4	08	4·4	09	3·9	05	2·9	07	3·3	07	4·2	09	6·1	06	5·2	07	5·7	06	4·1
11	05	3·2	04	2·2	25	2·4	10	5·6	10	6·5	10	4·6	08	4·4	10	4·6	11	4·0	04	2·3	07	3·8	08	5·0	11	4·6	08	5·5	06	4·4	04	4·3
Noon	04	4·2	26	3·3	31	1·8	11	5·4	12	6·5	09	4·5	08	5·5	09	4·7	06	4·3	04	2·7	07	4·2	09	4·3	10	4·9	09	4·8	05	5·4	08	3·0
13h	12	2·8	27	4·2	21	2·8	12	5·2	11	6·2	11	4·4	09	5·0	09	4·8	08	4·7	03	2·5	10	4·5	09	4·2	09	5·3	08	5·1	06	4·5	05	4·0
14	19	4·3	25	2·7	26	2·0	12	5·7	11	6·5	10	4·9	09	5·0	11	4·5	05	4·6	03	3·1	05	4·9	06	4.8	09	5·0	06	5·5	05	3·9	06	4·1
15	22	4·9	23	1·8	21	3·0	10	5·3	09	7·0	11	5·4	11	5·4	11	4·6	10	4·1	03	3·0	07	5·6	07	4·4	09	5·4	08	4·2	04	3·4	06	3·3
16	24	2·6	16	3·0	21	2·4	11	6·8	11	6·5	09	5·2	09	5·2	08	4·4	05	4·5	03	3·5	08	4·4	07	4·7	12	4·4	09	3·4	04	3·4	08	3·2
17	25	1·1	14	2·1	24	1·5	12	5·9	11	6·3	09	4·0	09	4·6	09	3·9	09	4·0	03	2·9	08	3·7	07	4·7	09	4·7	09	4·7	06	2·9	06	3·2
18	32	1·4	14	0·7	24	0·6	10	4·7	11	5·6	09	4·0	10	3·1	09	3·0	10	4·0	05	2·1	08	3·2	10	4·7	09	4·9	10	3·4	07	3·0	06	3·2
19	32	1·1	14	0·9	24	0·7	11	4·3	11	4·4	09	4·1	10	3·4	10	1·8	08	2·6	07	1·4	07	2·4	10	2·6	10	2·2	07	3·4	07	2·5	08	2·2
20	32	1·5	14	1·7	24	0·7	12	4·2	12	4·9	09	3·7	10	3·1	10	1·1	09	1·8	07	1·3	07	2·2	10	2·1	10	1·8	08	3·4	08	2·8	08	2·3
21	a10	2·0	14	1·6	17	1·9	12	4·3	12	4·1	10	3·8	10	2·9	10	1·9	09	1·7	07	0·6	07	2·1	10	1·8	10	1·5	07	3·6	08	2·4	08	2.0
22	10	1·3	14	1·7	12	1·8	11	4·6	11	4·0	10	4·2	10	2·9	09	1·9	09	2·1	07	1·1	07	2·4	10	2·1	07	1·7	07	3·4	08	2.1	08	2·1
23	10	1·6	14	2·2	12	1·0	11	4·9	10	4·5	09	3·9	09	2·4	09	1·9	08	2·1	07	1·2	07	2·7	10	2·3	08	2·6	10	4·3	08	2·9	08	3·0

Hour \ Day	17d.		18d.		19d.		20d.		21d.		22d.		23d.		24d.		25d.		26d. *		27d. *		28d. *		29d.		30d. *		31d *		Mean.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Velocity
Midnight	08	2·8	09	2·1	07	1·4	10	1·2	07	1·3	10	2·2	10	1·3	13	1·3	09	1·9	10	1·4	05	1·0	05	1·0	32	1·0	09	1·4	26	0·7	1·9
1h	08	2·2	09	2·0	07	1·4	10	1·4	07	1·5	10	1·7	10	1·1	13	1·4	09	1·4	10	1·9	05	1·5	10	1·3	32	1·4	09	1·1	26	1·1	1·7
2	08	2·7	09	1·7	07	1·8	10	1·0	07	1·5	10	1·8	10	1·1	13	0·9	09	1·2	10	1·8	06	1·1	10	1·1	d10	1·3	07	1·4	26	1·1	1·7
3	08	1·8	09	1·5	09	1·9	10	0·8	07	1·7	10	1·8	10	1·4	13	0·6	09	1·1	03	1·3	03	3·2	10	1·2	10	1·7	07	1·3	26	1·1	1·7
4	08	1·6	09	2·0	09	2·3	10	0·9	07	1·7	10	1·7	10	1·3	13	0·6	06	1·5	a11	1·8	05	1·5	10	1·0	10	1·1	07	1·3	26	1·1	1·8
5	08	1·7	09	1·7	09	1·9	10	0·7	10	1·7	10	1·2	11	1·1	13	1·2	11	1·8	11	1·2	05	0·9	10	1·2	10	1·7	07	1·2	26	0·8	1·8
6	08	2·2	09	2·3	07	2·5	10	1·1	10	2·3	10	1·7	11	1·3	13	1·1	11	1·1	11	1·1	10	1·1	10	1·1	10	1·5	07	1·3	26	1·4	2·0
7	08	2·7	09	2·9	07	2·6	10	2·0	10	2·2	10	2·5	10	2·0	13	0·6	11	2·1	11	1·3	10	1·0	10	1·1	10	1·1	06	2·3	26	0·7	2·4
8	06	4·1	09	3·2	07	3·4	09	2·6	09	3·7	11	3·2	05	2·6	07	2·7	07	2·0	r02	2·9	01	3·1	03	4·0	06	1·6	04	2·7	26	1·1	3·3
9	08	3·9	10	3·9	06	4·1	07	4·0	08	2·0	08	3·7	05	3·5	07	3·0	07	3·8	02	2·6	02	3·2	02	3·2	07	2·2	05	2·4	29	2·2	3·6
10	06	4·3	06	4·4	07	3·7	04	4·3	06	5·9	08	3·9	08	4·0	09	3·4	08	4·0	01	3·3	01	4·9	01	4·1	04	2·6	32	3·2	29	2·7	4·1
11	06	3·9	06	4·1	06	3·6	06	4·7	05	4·6	08	3·8	09	3·5	07	3·3	06	3·4	01	3·1	31	5·0	32	3·8	08	2.4	01	4·1	30	2·8	4·0
Noon	06	4·2	06	3·2	06	4·5	05	4·6	08	4·4	11	3·8	06	4·0	08	4·0	07	4·5	31	4·0	30	4·4	31	3·7	03	3·2	02	3·6	29	3·8	4·2
13h	07	4·7	05	4·0	05	4·3	06	4·8	08	4·6	09	4·3	06	4·3	05	3·8	06	3·8	02	4·1	32	4·0	02	3·9	06	4·1	32	4·1	28	4·0	4·3
14	04	4·9	04	3·5	05	4·4	05	4·2	09	4·6	05	4·7	07	4·4	07	3·7	08	3·4	30	4·0	30	4·3	31	4·4	07	3·7	02	3·9	32	3·6	4·3
15	07	4·3	06	4·1	05	3·9	06	4·1	10	3·3	08	4·3	05	4·4	08	4·1	07	2·9	01	4·1	26	1·9	01	4·2	06	3·9	32	3·6	r15	1·8	4·1
16	07	4·4	05	3·6	06	3·3	06	3·8	09	3·2	10	4·7	08	4·6	06	4·3	08	3·1	01	3·3	32	1·8	32	3·4	07	3·7	26	3·8	a23	2·1	3·9
17	06	3·7	06	3·6	07	3·4	05	3·4	06	4·1	08	4·6	08	4·3	07	3·9	07	3·1	01	3·5	26	4·3	32	2·2	07	2·7	29	2·9	r10	2·9	3·6
18	08	4·4	07	3·4	07	2·8	05	2·5	09	3·9	09	4·7	09	3·6	08	3·5	06	3·2	03	2·0	01	1·8	01	2·4	10	3·0	25	1·7	08	1·5	3·1
19	09	3·3	07	3·3	07	2·5	07	2·1	10	3·5	08	3.8	09	3·1	08	2·9	07	2·2	05	1·8	01	1·0	32	1·4	10	2.3	26	1·2	09	1·8	2·5
20	09	2·9	06	2·3	07	1·8	07	1·2	10	1·4	09	3·3	10	1·8	08	2·0	07	1·4	05	0·7	03	0·8	32	0·6	10	1·6	26	0·6	13	0·7	2·0
21	09	2·7	07	2·4	10	1·6	07	1·8	10	2·8	09	2·3	10	1·6	08	2·0	07	2·9	05	1·0	04	1·5	32	1·3	10	1·2	26	0·6	13	0·7	2·0
22	09	3·7	07	2·4	10	1.3	07	1·5	10	2·4	10	2·4	13	1·7	09	2·0	10	1·4	05	1·0	05	0·9	32	1·3	10	1·6	26	0·7	13	0·8	2·1
23	09	2·6	07	1·3	10	1·1	07	1·4	10	2·0	10	2·0	13	1·7	09	2·1	10	1·1	05	0·9	05	1·3	32	1·2	09	2·0	26	0·6	13	0·9	2·1

TABLE XIII.—WIND FREQUENCY (NUMBER OF OBSERVATIONS), DECEMBER, 1937.

Hour.	Force (0–12).			Direction.															
	8 or above	4 to 7	0 to 3	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
3	...		31	...	...	2	...	11	12	4	1	...	...	...	...	...	1	...	...
9	...	4	27	...	4	5	3	16	1	1	...	...	...	...	...	...	...	1	...
15	...	2	29	3	...	4	4	9	3	3	...	1	..	1	1	1	1	...	...
21	...	...	31	1	.	2	..	12	10	3	1	1	...	..	..	...	1	...	...
Totals	...	...	...	4	4	13	7	48	26	11	2	2	...	1	1	1	3	1	...

TABLE XIVA.—RAINFALL at every HOUR of the DAY at the ROYAL ALFRED OBSERVATORY for DECEMBER 1937.

Hour. \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	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	...	...	...	..	...	..	..	...	...	...	...	...	..	..	3·7	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	5·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	0·1	.	...	...	...	...	0·1	...	0·2	...	...	...	...		...	...	...	...	...	...	...	0·1	...	...	0·1	...
4	...	...	...	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	0·6	...	1·9	...	...	...	...
5	..	...	...	0·1	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
6	...	...	..	0 5	...	0·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
7	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	0·8	...	...	...	..	...	..	...	...	...	...	...	...
8	...	...	.	...	..	1·8	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...	..	0·9	...	...	...	...
9	...	..	...	...	...	0 8	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
10	...	...	...	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	0·2
Noon	...	...	0·2	...	...	0·2	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13h	...	...	..	...	...	2·6	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	1·7	...	..	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	0·1	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	..	...	..	..	...
16	...	...	...	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	0·5
17	0 1	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	6·0
18	0·4	...	...	...	...	...	...	...	...	...	0·5	...	..	...	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...	0·2
19	...	...	...	...	...	..	..	..	...	...	0·5	...	..	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8
20	...	..	...	...	..	...	...	..	...	...	...	..	...	0·8	..	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	5·4
21	...	..	...	.	...	...	...	...	...	...	...	...	...	0·5	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...
22	...	...	...	...	...	...	...	..	...	...	...	...	0·1	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...	..	...	...	...	..	...	...	...	...	...	...	...	...	0·4	...	...

TABLE XIVB.—RAINFALL AT EVERY HOUR OF THE DAY AT THE AEROLOGICAL STATION, VACOAS, FOR DECEMBER 1937.

Hour. \ Day.	1d	2d	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13d	14d	15d	16d	17d	18d	19d	20d	21d	22d	23d	24d	25d	26d	27d	28d	29d	30d	31d
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	..	...	...	...	..	...	0·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	0·1	...	...	0·2	...	...	...	...	2·4	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	0·6	...	...	..	...	1·6	...	...	1·7	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	..
4	.	...	...	0·8	..	...	0·2	...	...	...	...	...	...	0·4	...	..	..	...	...	...	...	...	...	...	...	...	0·3	0·1	...	...	...
5	...	..	...	0·1	...	...	0·4	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...	2·4	...	...	...	...	...
6	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
7	...	...	...	0 8	...	...	0·8	...	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	..	...	...	...	..	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
9	...	...	...	..	...	...	..	...	...	...	...	...	...	...	0·2	...	...	.	..	...	..	...	...	...	...	...	...	...	...	...	...
10	...	..	...	...	...	...	0 8	...	..	...	...	..	...	...	...	...	...	...	...	..	..	...	...	...	...	...	0·5	...	...	...	...
11	...	...	...	0·1	..	...	1·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	..	...	...	1·0	...	...	...	...
Noon	...	0·7	...	...	...	...	4·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...	...	...	...
13h	...	...	...	...	...	...	1·2	...	...	...	...	...	...	...	...	...	...	...	...	3·1	...	...	...	...	...	..	...	...	...	...	...
14	..	3·1	0·2	...	...	...	...	...	...	...	...	...	...	...	0·4	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0
15	...	...	...	...	...	..	0·3	...	...	...	...	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...	0·1	.	...	...	13·6
16	...	...	...	...	...	...	5·3	...	...	...	...	...	...	0·8	...	...	...	...	...	..	...	...	..	...	...	...	..	...	...	...	7·5
17	...	...	0·2	...	...	...	3·8	...	...	..	0·2	...	...	..	...	..	...	...	...	..	..	...	...	...	...	...	...	...	...	...	0·4
18	...	...	...	...	...	...	0·8	...	..	...	...	.	..	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	2·9
19	...	...	..	0·1	...	...	...	..	...	...	0·8	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·9
20	..	...	...	...	...	..	0·5	...	...	...	...		..	0·5	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	6·0
21	...	...	0·3	0·2	...	...	...	...	...	..	...	..	...	1·0	...	...	...	...	...	...	..	...	...	...	...	...	...	...	..	...	...
22	...	...	0·4	..	...	.	...	...	...	...	...	..	0 4	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	..	...	1·7	0·4	...	...	..	...	.	...	...	...	...	0·7	...	..	...	...	...	...	...	...	..	...	...	...	...	...	...	..	...
24	...	...	...	...	...	0·3	...	...	...	...	...	...	...	...	0·2	...	...	...	...	...	...	...	...	...	..	...	...	...	0·3	...	...

TABLE XV.—TOTAL MONTHLY RAINFALL at VARIOUS STATIONS IN MAURITIUS according to the RIVER SYSTEMS indicated on the CHART, DECEMBER, 1937.

River System.	Station.	Approximate Altitude feet.	Total fall in inches.	Total fall in mms.	Normal in inches.	Number of days.
1	Mare Sèche	20	...	...	3.90	...
	St. Antoine	50	1.30	33.0	3.69	8
	Bel Mont	50	1.14	29.0	4.39	3
	Poudre d'Or	20	1.26	32.0	4.08	3
	Mon Loisir (S.E.) ...	300	1.58	40.1	5.22	3
	Forbach	300	1.71	43.4	3.60	7
	Couroupa	...	4·09	103.8	5.98	7
	*. Labourdonnais	290	...	...	5.04	...
	Mapou Water Office ...	...	0.60	15.2	...	1
	Beau Séjour	300	1·86	47·2	5.46	9
	Mont Piton	650	2.08	52.8	6.42	8
	Mon Choix	700	1.24	31·5	5·93	6
	Antoinette	640	...	...	6.17	...
	Mon Songe	620	5.20	132.1	6.49	4
	Botanical Gardens ...	325	1.54	39.1	5.92	11
	* The Observatory ...	179	1.60	40.6	4.68	15
	Solitude	175	...	..	3.70	...
	St. André (Cour) ...	90	0.86	21·8	4.08	2
	La Nicolière	...	3·90	99.1	6.59	13
	California	...	3.17	80.5	...	6
	Australia	..	3.13	79·5	...	6
2 & 3	Union Régnard (Flacq S.E.) ...	600	3.66	93.0	6·91	10
	Constance d'Arifat (L.S.) ...	100	3.95	100.3	6.99	10
	Rich Fund	600	3.24	82.3	6.87	12
	La Joffrette	...	3.50	88.9	...	7
	Belle Vue (Allendy) ...	...	4.39	111 5	8.56	8
4	Sans Souci	900	7.85	199.4	10.74	13
	Beau Champ (G.R.S.E.) ...	20	3.11	79.0	6.24	13
	Olivia	400	5.37	136.4	8.92	18
	Trois Ilots	...	5.48	139.2	..	15
	Belle Rive	400	5.49	139.4	10.45	19
	Sébastopol	700	7.60	193.0	...	10
	Bonne Veine	400	6·11	155.2	14.06	17
5	Rose Belle	850	3.58	90.9	11.11	16
	New Grove	650	4.83	122.7	...	15
	Mon Trésor	...	3.52	89.4	...	12
	Mon Désert (Carié) ...	75	3.23	82·0	5.87	13
	Ferney	20	...	...	8.55	...
	Sauve Terre	...	3.05	77.5	...	12
6	Tivoli	1,300	6.11	155.2	10.59	14
	La Flora	1,050	5.26	133.6	9.76	12
	Riche Bois (Brit.) ...	650	4.59	136.6	10.01	13
6	Britannia (Estate) ...	700	7.67	194.8	9.05	13
	Savannah (Mill) ...	200	2.41	61.2	6.49	9
	St. Aubin	300	4 76	120.9	7.53	12
	St. Avold	900	6.27	159.3	9.56	10
	Colmar	400	7.95	201.9	8.47	12
	Union (S.E.)	...	5.54	140.7	6.34	10
	Fontenelle	320	5.76	146.3	6.39	10
	Choisy	200	3 55	90·2	6.71	11
	Beau Bois	...	6.40	162·6	...	15
	Bel Air	...	1.20	30·5	...	3
	St. Félix	...	1.52	38·6	...	3
7,8,9&10	Bel Ombre	40	..	...	5.40	...
	Beau Champ (S du Cap) ...	70	...	...	5.87	...
	Frédérica	...	...	...	6.09	...
	Pierre Fonds	...	2.74	69.6	8.28	14
	St. Marie	...	...	...	...	...
	Ilussonia	...	...	...	...	...
11	Curepipe Gardens ...	1,840	4.55	115.6	10.53	28
	Mare aux Vacoas (G.E.) ...	1,850	4·06	103.1	11.07	11
	Mare aux Vacoas (Arn.) ...	1,830	5.32	135.1	11.43	12
	La Marie Filter Beds ...	1,700	3.28	83.3	9.00	10
	* Sophie	...	4.29	108.9	...	8
	Réunion	1,420	1.73	43·9	8.80	9
	* Aerological Station ...	1,393	...	87.1	9.10	17
	Phoenix	...	4.98	126·5	...	4
	Quatre Bornes ...	...	2.68	68.1	...	4
12	Quatre Bornes (Board) ...	1,090	3.10	78.7	...	6
	* Le Réduit (D. of A.) ...	1,000	1.73	43.9	6.60	16
	Alma	1,460	6.64	168 7	11.14	14
	Bagatelle	1,250	2.57	65.3	7.05	9
	Highlands	1,300	2.56	65.0	8·59	10
	Trianon	950	3.14	79.8	6.88	8
	Val Ory	1,100	...	...	7.15	...
	Bassin	.	1.20	30·5	9.80	5
	Hermitage	1,450	2.93	74.4	15·28	10
	Ebène	...	2.09	53.1	...	10
	Béga	...	1·36	34.5	...	10
	Mon Rève	...	1.84	46·7	...	10
	Mon Pevril	...	1·91	48.5	...	10
	Minissy	1,150	2.10	53.3	9.25	10
	Plaisance	...	4.23	107.4	...	10
	La Ferme	350	0.89	22·6	5.55	11

TABLE XV (B).—Further Rainfall Returns for the year 1937.

River System.	Station.	Approximate altitude in feet.	Total fall in inches.	Total fall in millimetres.	Normal in inches.	No. of days.
1	Mare Sèche—January ...	20	7.27	184.7	8.23	20
	February ...	...	4.76	120.9	5.59	12
	March ...	...	13.84	351.5	6.30	12
	April ...	...	4.49	114.0	5.95	11
	May ...	...	7.98	202.7	5.52	15
	June ...	...	0.90	22.9	2.41	5
	July ...	...	3.41	86.6	2.32	8
	August ...	...	2.22	56.4	2.40	7
	September ...	...	2.74	69.6	1.03	11
	October ...	...	1.07	27.2	2.16	8
	November ...	...	3.70	94.0	1.62	7
	December ...	...	1.45	36.8	3.90	5
	Labourdonnais—January	290	8.23	209.0	8.96	...
	February ...	...	4.90	124.5	8.42	..
	March ..	...	10.08	256.0	9.58	..
	April ...	...	1.67	42.5	6.21	...
	May ...	...	7.44	189.0	4.90	...
	June ...	...	1.08	27.5	3.02	...
	July ...	...	2.23	56.5	3.10	...
	August	...	2.46	62.5	2.76	...
	September ..	...	1.34	84.0	1.61	...
	October ...	...	0.71	18.0	2.01	...
	November ...	...	3.27	83.0	2.00	4
	December ...	...	1.40	35.5	5.04	5
	Antoinette—May ...	640	15.01	381.3	6.13	20
	June ...	...	3.33	84.6	4.20	13
	July ...	...	5.02	127.5	3.96	15
	August ...	...	4.68	118.9	3.59	14
	September ...	...	4.29	109.0	2.19	17
	October ...	...	3.20	81.3	2.33	9
	November ...	...	4.50	114.3	2.67	8
	December ...	...	1.76	44.7	6.17	4
	Botanical Gardens—June	325	1.95	49.5	30.1	15
	Solitude—January ...	175	11.14	283.0	6.96	11
	February ...	...	5.78	146.8	5.19	17
	March ...	...	9.80	248.9	6.96	11
	April ...	...	1.60	40.6	4.11	4
	May ...	...	10.56	268.2	3.62	18
	June ...	...	1.17	29.7	1.38	4
	July ..	...	2.25	57.2	1.44	7
	August ..	...	2.40	61.0	1.71	4
	September ...	175	3.15	80.0	0.81	5
	October ...	...	0.37	9.4	1.18	3
	November ...	...	3.71	94.2	1.53	4
	December ...	..	0.74	18.8	3.70	2
5	Ferney—March ...	20	21.95	557.5	14.25	15
	April ...	...	5.25	133.4	9.90	13
	May ...	...	15.20	386.1	9.45	17
	June ...	...	1.05	26.7	6.20	9
	July ...	...	6.80	172.7	5.00	16
	August ...	...	3.20	81.3	4.75	10
	September ...	...	2.90	73.7	2.60	15
	October ...	...	4.10	104.1	3.50	9
	November ...	...	4.35	110.5	3.50	9
	December ...	...	3.90	99.1	8.55	11
7,8,9&10	Bel Ombre—January ...	40	9.06	230.1	9.25	...
	February ...	...	5.66	143.8	8.49	...
	March ...	...	13.28	337.3	9.65	...
	April ...	...	5.55	141.0	6.61	...
	May ...	—	7.92	201.2	6.16	...
	June ...	...	1.61	40.9	3.64	...
	July ...	...	7.08	179.8	2.94	...
7,8,9&10	Bel Ombre—August ...	...	2.30	58.4	3.45	...
	September ...	...	2.25	57.2	1.93	...
	October ...	...	2.59	65.8	2.22	...
	November ...	.	1.85	47.0	2.30	...
	December ...	...	3.17	80.5	5.40	...
7,8,9&10	B. Champ (B. du C.)—Jan.	70	11.14	283.0	7.83	...
	February ...	...	6.19	157.2	7.43	...
	March ...	...	12.91	327.9	9.73	..
	April ...	...	5.91	150.1	6.59	...
	May ...	...	7.92	201.2	5.83	...
	June ...	...	1.98	50.3	2.79	...
	July ...	...	9.09	230.9	2.86	...
	August ...	..	2.47	62.7	3.49	...
	September ...	...	2.63	66.8	1.95	...
	October .	...	2.22	56.4	2.23	...
	November ...	...	2.02	51.3	2.43	...
	December ...	...	4.26	108.2	5.87	...
7,8,9&10	Frédérica—January ...	...	11.24	285.5	8.78	...
	February ...	...	7.00	177.8	8.43	...
	March ...	...	17.08	433.8	11.73	...
	April ...	...	5.63	143.0	7.04	...
	May ..	...	9.10	231.1	6.84	...
	June ...	...	1.34	34.0	3.27	...
	July ...	...	10.78	273.8	3.50	...
	August ...	...	3.41	86.6	4.22	...
	September ...	...	4.16	105.7	2.36	...
	October ...	...	1.99	50.5	2.76	...
	November ...	...	3.37	85.6	3.27	...
	December ...	...	4.15	105.4	6.09	...
7,8,9&10	Sainte Marie—January ...	...	11.60	294.6	...	...
	February ...	...	7.44	189.0	...	...
	March ...	...	12.44	316.0	...	...
	April ..	...	8.22	208.8	...	...
	May ...	...	9.90	251.5	...	...
	June ...	...	2.31	58.7	...	...
	July ...	...	10.89	276.6	...	...
	August ...	...	2.61	66.3	...	...
	September ..	...	4.16	105.7	...	...
	October ...	...	2.25	57.2	...	...
	November ...	...	2.16	54.9	...	...
	December ...	...	6.22	158.0	...	...
12	Q. Bornes (Board) Novemb.	1,090	2.30	71.1	..	7
12	Val Ory—May ...	1,100	7.61	193.3	4.50	14
	June ...	...	3.12	79.2	3.10	6
	July ...	...	1.96	49.8	3.10	6
	August ...	...	2.48	63.0	2.75	7
	September ...	...	1.80	45.7	1.75	7
	October ...	...	1.36	34.5	2.05	3
	November ...	...	2.40	61.0	2.30	1
	December ...	...	1.30	33.0	7.15	6
13	Line Barracks—January...	...	8.59	218.1	...	19
	February ...	...	8.43	214.1	...	15
	March ...	...	12.13	308.1	...	18
	April ...	...	2.01	51.0	...	8
	May ...	...	8.32	211.3	...	17
	June ..	...	0.74	18.9	...	8
	July ...	...	0.89	22.7	...	9
	August ...	...	0.67	17.0	...	12
	September ...	...	1.24	31.5	...	9
	October ...	...	0.36	9.1	...	5
	November ...	...	2.33	59.3	..	7
	December ...	...	0.56	14.2	...	8

TABLE XVc—TOTAL ANNUAL RAINFALL AT VARIOUS STATIONS IN MAURITIUS GROUPED ACCORDING TO THE RIVER SYSTEMS INDICATED ON THE CHART FOR THE YEAR 1937.

River System.	STATION.	Approximate Altitude in feet.	Total fall in inches.	Total fall in mms.	Normal in inches.
1	Mare Sèche	20	53·83	1367·3	47·43
	St. Antoine	50	60·21	1529·3	45·94
	Belmont...	50	72·55	1842·7	50·12
	Poudre d'Or	20	86·94	2208·3	47·85
	Mon Loisir S.E.	300	78·54	1995·0	58·47
	Forbach	300	60·35	1532·8	47·76
	Couroupa...	...	57·72	1466·2	59·55
	Labourdonnais	290	44·80	1138·0	57·60
	Mapou (Water Office) ...	...	53·00	1346·2	...
	Beau Séjour	300	70·52	1791·2	68.27
	Mont Piton	650	76·61	1945·9	70·46
	Mon Choix	700	63·48	1612·3	65·07
	Antoinette	640	86·08	2186·4	69·98
	Mon Songe	620	89·98	2285·6	73·92
	Botanical Gardens	325	80·02	2032·5	60·13
	The Observatory	179	54·81	1392·2	49·75
	Solitude	175	52·67	1337·8	38·27
	St. André (Cour)	90	48·82	1240·1	45·20
	La Nicolière	...	96·94	2462·3	96·32
	California	...	98·06	2490·8	...
	Australia	...	98·41	2499·7	...
2 & 3	Union Réguard S.E. (Flacq) ...	600	92·32	2364·9	76·75
	Constance d'Arifat L.G. ...	100	95·13	2416·3	67·09
	Rich Fund	600	90·11	2288·8	83·19
	La Joffrette	...	95·03	2413·8	...
	Belle Vue (Allendy) ..	..	90·73	2304·5	78·08
4	Sans Souci	900	160·59	4078·9	138·35
	Beau Champ (G.R.S.E.) ...	20	67·50	1714·4	61·75
	Olivia	400	113·20	2875·3	94·26
	Trois Ilots	...	96·12	2441·5	
	Belle Rive	400	132·26	3359·5	112·21
	Sébastopol	700	129·96	3301·0	...
	Bonne Veine	400	141·46	3593·1	130·07
5	Rose Belle	850	128·75	3270·2	140·27
	New Grove	650	117·30	2979·5	...
	Mon Trésor	...	85·40	2169·2	...
	Mon Désert (Carié)... ...	75	68·80	1747·4	62·01
	Ferney	20	91·65	2328·0	91·39
	Sauve Terre	..	67·42	1712·4	...
6	Trivoli	1,300	145·63	3699·1	138·28
	La Flora	1,050	139·68	3547·8	135·57
	Riche Bois (Brit.)	650	91·78	2331·2	104·27
	Britannia (Estate)	700	104·66	2658·4	108·47
6	Savannah (Mill)	200	64·83	1646·8	77·13
	St. Aubin	300	64·40	1635·7	77·01
	St. Avold	900	124·05	3151·1	117·68
	Colmar	400	112·92	2868·2	92·91
	Union S.E.	...	78·51	1994·3	67·56
	Fontenelle	320	89·15	2264·4	77·54
	Choisy	200	60·67	1541·0	63·40
	Beau Bois	...	98·85	2510·9	...
	Bel Air..	...	74·22	1885·3	69·77
	St. Félix	...	76·63	1946·3	...
7,8,9 & 10	Bel Ombre	40	62·32	1583·0	62·04
	Beau Champ (B. du Cap) ...	70	79·24	2012·8	63·01
	Frélérica	...	68·74	1746·0	68·33
	Pierre Fonds	..	52·10	1323·3	56·32
	Ste. Marie	...	80·21	2037·3	...
	Hussonia Limited	...	...	...	...
11	Curepipe Gardens	1,340	141·53	3595·0	123·24
	Mare aux Vacoas (G.E.) ...	1,850	130·24	3435·0	145·95
	Mare aux Vacoas (Arn.) ...	1,830	149·07	3786·5	148·62
	La Marie Filter Bed ...	1,700	110·25	2800·3	104·00
	Sophie	...	124·05	3150·9	...
	Réunion	1,420	98·20	2494·3	88·35
	Aerological Station... ...	1,393	88·56	2249·5	90·47
	Phœnix...	...	71·31	1811·4	...
	Quatre Bornes	..	56·16	1426·5	...
12	Quatre Bornes (Board) ..	1,090	61·77	1569·1	...
	Le Réduit (D. of A.) ...	1,000	66·40	1686·6	57·90
	Alma	1,460	142·19	3611·7	126·60
	Bagatelle	1,250	104·82	2662·4	79·35
	Highlands	1,300	95·57	2427·6	88·00
	Trianon	950	64·27	1632·6	63·17
	Val Ory	1,100	63·83	1621·2	65·21
	Bassin	...	53·16	1350·3	63·21
	Hermitage	1,450	137·07	3481·6	126·69
	Ebène	...	64.00	1625·6	...
	Bega	...	55·22	1402·7	...
	Mon Rêve	...	69·22	1758·3	...
	Mont Pevril	...	71·32	1811·6	...
	Minissy	1,150	79·38	2016·4	65·93
	Plaisance	...	86·70	2202·2	...
	La Ferme	350	45·17	1147·4	49.80
	Line Barracks	...	46·27	1175·3	...

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 1937.

Day.	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
		°		°		°		°		°		°	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...
17	11¾	96	11·1*	120	2·8*	...	...	...	...	...	...	...	...
18	10	...	...	75	13·6	...	...	...	...	...	...	225	3·5
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...

Day.	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
		°		°		°		°		°		°	
1	14¼	...	...	255	1·8*	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...
3	14½	173	4·8*	165	7·5*	...	...	...	...	...	...	...	...
4	14¼	127	21·0	135	28·7*	105	11·3*	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...
7	14¼	...	...	150	10·0*	285	4·3	...	...	...	...	300	1·7*
8	14¼	160	7·4*	180	5·7*	...	...	...	...	...	...	...	...
9	14¼	120	3·3*	60	10·8*	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	14¼	117	9·4*	115	8·3*	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	14¼	...	...	98	6·0*	300	*...	...	...	...	...	300	...
17	15½	113	7·7*	120	8·4*	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	15½	60	7·9*	60	7·2*	...	...	...	...	...	...	...	...
21	14¾	...	...	135	9·3	30	...	...	...	...	...	...	...
22	12¼	...	...	105	10·3	105	...	105	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...
24	14¼	...	...	150	8·7*	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	14¼	...	...	30	5·8*	...	...	...	...	300	2·5*	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...
30	14¾	...	...	...	...	...	...	...	...	...	...	255	...
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.

* Observatory Pamplemousses.

TABLE XVII.—MONTHLY AND YEARLY MEANS AND EXTREMES OF THE METEOROLOGICAL ELEMENTS FOR THE YEAR 1937.

Month 1937.	Atmospheric Pressure.	Temperature of the Air.							Excess of Air Temperature over Evaporation Temperature.	Temperature of the Dew Point.	Relative Humidity.	Vapour Pressure.	Rainfall.		Mean Daily Amount of Evaporation.
		Absolute Maxima.	Absolute Minima.	Absolute Range.	Mean of the Daily Maxima.	Mean of the Daily Minima.	Mean of the Daily Ranges.	Mean.					Amount recorded by the Beckley pluviograph.	Duration.	
	mbs.	°c.	°c.	°c.	°c.	°c.	°c.	°c.	°c	°c.	%	mbs.	mms.	mins.	mms.
Jan. ...	1003·4	31·0	19·3	11 7	28·8	22·7	6·1	25·4	2·1	21·9	81·0	26·1	257·1	1750	6·1
Feb. ...	1003·4	32·2	21 9	10·3	30·0	23·7	6·3	26·5	2·0	23 1	81·6	28·0	129·3	1415	5·7
Mar....	1004·3	30·3	21·1	9·2	28·8	23·0	5·8	25·6	1·9	22·4	82·3	26 8	232·2	2255	4 6
April.	1006·5	30·1	18·1	12·0	28·1	21·3	6 8	24·3	2·4	20·2	77·9	23·4	66·7	965	4·6
May ...	1010·6	28.9	14·8	14·1	25·9	20·3	5·6	22·8	2 2	19·0	79·3	21 9	296·6	2105	3·8
June...	1011·9	25·9	12·3	13 6	24·4	16·6	7·8	20·3	2 3	16·2	77·5	18·3	27·0	725	3·2
July ...	1011·9	26 0	11·6	14·4	24·1	16·7	7·4	20·1	2·3	16·0	77·3	18·0	74·8	1431	3·4
Aug....	1014·6	25·1	12·0	13·1	23 9	16·4	7·5	19 8	2·6	15·2	74.9	17.1	75 3	1625	4·0
Sept ...	1013·6	26·9	16·3	10·6	25·3	18·1	7·2	21·2	2·5	16·7	75·6	18·8	46·4	1115	4·8
Oct. ...	1011·7	29·2	14·8	14·4	26·6	18·3	8 3	22·1	2 9	17·0	73·1	19·2	54·3	1010	5·9
Nov....	1008·8	31·1	18·0	13·1	28·4	20·5	7·9	24·0	2·9	19·0	73·6	21·8	91·9	1285	6·7
Dec....	1007·3	34·3	18·7	15·6	29·9	21·5	8·4	25·3	3·3	19·7	71·2	22·7	40·6	520	7·1
Year..	1009·0	29·3	16·6	12·7	27·0	19·9	7·1	23·1	2·4	18·9	77·2	21·8	1392·2	hrs. 270·0	5.0
Max ...	1020·4 August 14th.	34·3 Dec. 30th.	...	15·6 Dec.	30·0 Feb.	...	8·4 Dec.	...	9·3 Dec. 30th.	27·1 Feb. 19th.	100% Jan. 14th.	35·5 Feb. 19th.	156·4mms. ending 16hrs. on May 27th.		9.2 Dec. 25th.
Min....	989·6 Jan 13th & 14th	...	11·6 July 25th.	9·2 Mar.	...	16·4 Aug.	5·6 May	...	0 0 Jan. 14th.	9·7 July 25th & Aug. 11th	41·3 Aug. 11th.	11·9 July 25th. & Aug. 11th	..		0·6 May 2nd

Month 1937.	Mean Minimum on grass.	Temperature of the Soil.				Mean amount of Cloud.	Daily Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Observed Wind Velocity.	Number of Days.		
		Feet 10	Feet 5	Feet 2	ins. 12					Rain.	Lightning.	Thunderstorm.
	°c.	°c.	°c.	°c.	°c	(0 – 10)	hrs.	%	m.p.s.			
Jan. ...	21·4	24·45	26·34	27·84	28·12	6·6	8·16	62.1	3·65	22	2	2
Feb. ...	22·1	24·81	26·70	28·63	29·09	6 1	7·64	60·0	2.33	20	5	3
Mar. ...	22·3	25·27	27·17	28·11	27·94	6·6	6·91	56·9	3·15	19	...	1
April ...	19·7	25·62	26 97	27·56	27·32	5·4	7·62	65 5	2·74	12	...	...
May ...	18·8	25·67	26·36	25·41	24·79	6·2	6·25	56 2	3·64	20	...	...
June ...	14·6	25·58	25·34	23·63	26·75	4·9	6·91	63·3	2·78	13	...	...
July ...	14·8	25·32	24·53	22·77	22·17	4 9	7·15	65·0	3·28	20	...	...
Aug. ...	14.7	25·00	24·05	22·36	21·87	5·1	8·45	74·1	4·04	21	...	...
Sept. ...	16·1	24·60	23·77	23·13	23·38	5·3	7·93	66·4	3·52	20	...	...
Oct. ...	15·7	24·32	24·08	24·35	24·66	5·6	8·77	70·2	3·51	14	...	...
Nov. ...	18·0	24·28	24·73	26·06	26·59	5·1	9 83	75 6	3·16	17	1	...
Dec. ...	18·7	24·38	25·36	27·26	27·86	5·5	8·79	66·2	2·84	15	1	...
Year ...	18 1	24·94	25·45	25·59	25·88	5·6	7·87	65·1	3·22	213	9	6
Max. ...	...	25·8 April. & May	27.5 March	29·2 Feb.	30·0 Feb.	...	12·4 Dec. 26th.	96 Aug. 9th & 11th	11·0 Jan. 13th.	22 Jan.	5 Feb.	3 Feb.
Min. ..	9 4 June 24th	24·1 Nov. & Dec.	23·7 Sept.	22·2 Aug.	21·5 Aug.	...	0.0 often.	0 often.	...	12 April	...	...

TABLE XVIII.—MONTHLY AND YEARLY MEANS OF THE MAGNETIC ELEMENTS FOR 1937.

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 the Daily Ranges. Declination.	Horizontal Force. (Unit 1γ)	Vertical Force. (Unit 1γ)	HR_H : 10000	ZR_Z : 10000
	′				′				′				
January ...	13°17·40	·22491	·29730	·37279	52°53·53	·21899	−·05170	·29730	11·74	48·4	31·9	108·9	94·8
February ...	13°18·76	·22477	·29725	·37266	52°54·28	·21873	−·05175	·29725	14·80	53·5	45·3	120·2	134·6
March	13°19·76	·22485	·29732	·37277	52°54·08	·21880	−·05184	·29732	12·72	62·6	38·4	140·8	114·2
April	13°21·36	·22463	·29735	·37266	52°55·87	·21855	−·05188	·29735	9·69	60·1	32·1	135·0	95·3
May	13°22·09	·22457	·29711	·37267	52°56·65	·21849	−·05192	·29741	7·63	40·8	28·5	91·6	84·7
June	13°22·15	·22467	·29727	·37262	52°55·13	·21858	−·05195	·29727	6·66	39·0	30·4	87·6	90·2
July	13°23·29	·22470	·29721	·37259	52°54·59	·21859	−·05203	·29721	7·04	51·9	30·8	119·6	91·5
August ...	13°24·10	·22465	·29734	·37266	52°55·66	·21853	−·05207	·29734	9·28	57·3	36·0	128·7	107·0
September ...	13°25·09	·22483	·29756	·37295	52°55·57	·21869	−·05217	·29756	9·47	47·5	38·1	105·8	113·3
October ...	13°25·89	·22455	·29772	·37291	52°58·52	·21841	−·05216	·29772	9·77	71·5	33·7	160·6	100·3
November ...	13°27·03	·22469	·29776	·37302	52°57·70	·21852	−·05228	·29776	9·81	45·5	27·2	102·3	81·0
December ..	13°28·36	·22466	·29779	·37303	52°58·01	·21848	−·05234	·29779	7·05	48·6	25·4	109·2	75·6
Year	13°22·94	·22471	·29744	·37278	52°55·78	·21861	−·05201	·29744	9·69	52·2	33·1	117·3	98·5

TABLE XIX.—MEAN MONTHLY VALUES OF POTENTIAL GRADIENT ON SELECTED DAYS* IN 1937. UNIT: VOLTS PER METRE.

Hour \ Month	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
0	60	68	73	57	79	75	101	92	125	90	87	66	81
1	71	77	80	71	82	83	112	101	145	101	113	92	94
2	123	101	117	98	96	110	148	127	169	134	233	174	136
3	197	185	171	156	105	160	195	178	166	182	311	219	185
4	191	246	217	220	112	194	114	237	136	84	101	115	164
5	141	158	102	133	99	120	80	69	48	62	39	84	95
6	123	120	74	55	91	6	− 59	44	48	84	63	89	62
7	104	109	73	37	103	37	− 6	78	75	83	78	95	72
8	90	95	78	62	106	63	68	89	75	82	79	93	82
9	86	82	75	68	99	85	90	91	77	82	80	94	84
10	85	92	74	73	97	93	97	92	74	78	84	92	86
11	85	91	70	84	98	87	102	93	81	79	82	95	87
12	86	96	76	88	99	90	115	100	89	83	83	99	92
13	89	101	100	103	112	116	121	118	94	98	99	112	105
14	98	112	119	118	118	157	141	148	129	120	113	113	123
15	132	116	133	150	121	171	172	164	204	129	138	111	145
16	129	111	122	126	92	143	161	146	217	135	156	137	140
17	90	88	94	113	95	122	131	138	193	132	183	127	125
18	77	64	90	88	109	99	115	112	214	131	154	115	114
19	75	63	94	77	101	84	118	107	193	113	143	102	106
20	70	55	88	71	109	97	111	109	148	88	122	90	97
21	66	47	86	60	106	95	103	110	158	89	111	74	92
22	60	53	82	61	84	86	100	100	155	85	104	62	86
23	61	74	88	55	79	76	97	89	139	81	99	61	83
No. of days	5	4	5	5	2	10	7	5	3	6	9	12	...
Non-cyclic change 24-0	+ 4	+ 5	−25	+ 5	− 4	0	− 18	− 9	+ 10	+ 5	+ 4	+ 2	...

The hours are in Greenwich Mean Time. The hourly means have been corrected for non-cyclic change.
*The days are selected as indicated in the Annual Report for 1929.

TABLE XX.—**Percentage frequencies at the given heights of winds of the specified Directions and Velocities.**

I = 3 – 13 knots (1.5–6.9 m.p.s.). II = 14–27 knots (7.0–13.9. m.p.s.). III = 28–40 knots (14.0–20.9 m.p.s.).
IV = over 40 knots (over 20,9 m.p.s.). C = Calm, less than 3 knots (1.5 m.p.s.).

AEROLOGICAL STATION, VACOAS.—20°18′ S., 57°30′ E. 430m. Period 1925–37. Time of obsn. variable, chiefly 04–08 G.M.T. (08–12 local time).

*Height (metres)	N				NE				E				SE				S				SW				W				NW				C	No. of obs.
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV		
January																																		
Surface	...	...	...	...	15	3	...	...	25	11	...	...	8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37	75
500	4	1	...	...	16	12	2	...	26	18	1	3	7	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	3	73
1,000	11	...	...	...	29	6	...	2	20	6	...	5	4	1	...	...	4	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	9	66
2,000	8	...	...	...	20	4	...	...	32	6	...	...	8	2	...	...	6	...	...	...	2	...	...	...	2	...	...	...	4	...	...	...	6	50
3,000	20	...	...	...	17	9	...	...	3	9	...	...	12	9	...	...	6	...	...	...	...	...	...	...	3	...	...	...	6	...	...	...	6	34
4,000	...	...	...	...	24	...	...	...	12	4	...	...	4	...	4	...	16	...	...	...	...	...	...	...	8	...	...	...	8	...	...	...	20	25
5,000	6	...	...	...	28	...	...	...	5	...	...	...	17	5	...	...	...	...	...	...	5	...	...	...	17	...	...	...	6	...	...	...	11	18
February																																		
Surface	1	...	...	...	6	...	...	...	35	12	...	...	14	7	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	21	95
500	2	1	...	...	10	3	...	...	19	33	2	1	6	10	1	...	2	1	...	...	3	1	...	...	1	...	...	...	1	1	...	—	2	94
1,000	2		...	...	5	7	1	...	20	22	4	...	9	8	...	...	1	...	...	...	7	2	...	...	1	...	...	...	2	1	...	...	8	91
2,000	2	...	...	...	3	7	...	...	24	4	...	...	10	3	...	...	9	...	...	...	5	...	...	...	7	...	...	...	10	2	...	...	14	58
3,000	7	...	...	...	7	...	...	...	14	21	...	...	12	5	...	...	5	3	...	...	7	...	...	...	7	5	...	...	2	...	...	...	5	43
4,000	3	...	...	...	3	...	...	...	16	...	...	...	16	7	...	...	10	...	...	...	10	...	...	...	16	3	...	...	3	3	...	...	10	31
5,000	9	...	...	...	5	...	...	...	13	...	4	...	13	4	...	...	...	...	...	...	13	4	...	...	22	5	...	...	...	4	...	...	4	23
March																																		
Surface	1	...	...	...	3	2	...	...	29	7	...	...	12	8	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	36	112
500	4	...	...	...	9	4	...	...	13	29	4	...	7	12	2	2	2	2	...	...	2	1	...	...	2	...	...	...	1	...	...	...	4	110
1,000	3	...	...	...	11	3	...	...	17	14	...	...	18	5	...	...	3	3	...	...	2	...	...	...	5	1	...	...	3	3	...	...	9	107
2,000	8	2	...	...	7	...	...	...	25	4	...	...	16	1	...	...	8	1	...	...	5	4	...	...	5	1	...	...	5	1	...	...	7	84
3,000	1	...	...	...	5	...	...	...	22	5	...	...	12		...	...	3	2	...	...	12	2	...	...	6	3	...	...	3	5	...	...	19	64
4,000	7	...	...	...	11	2	...	...	13	...	...	...	11	4	...	...	5	...	...	...	9	2	...	...	13	9	...	...	4	4	...	...	6	54
5,000	15	...	...	...	9	...	...	...	6	3	...	...	9	3	...	...	...	...	...	...	6	3	...	...	16	15	...	...	12	...	...	...	3	33
Jan-March																																		
6,000	9	...	...	...	5	4	...	...	7	7	2	...	4	4	...	...	9	2	...	...	7	4	...	...	15	4	2	...	11	2	...	...	2	46
April																																		
Surface	...	...	...	...	1	...	...	...	32	12	...	...	14	12	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	25	118
500	2	...	...	...	6	1	...	...	22	26	9	...	7	12	3	1	2	3	...	...	1	...	...	...	2	...	...	...	...	...	...	...	3	115
1,000	7	2	...	...	10	...	...	...	20	12	1	...	13	3	1	...	6	2	...	...	3	...	...	...	4	1	...	...	1	...	...	...	13	115
2,000	7	...	...	...	7	1	...	...	17	2	...	...	12	1	...	...	12	1	...	...	5	1	...	...	10	3	1	...	5	2	...	...	13	95
3,000	7	...	...	...	4	...	...	...	9	...	...	...	15	...	...	...	12	...	...	...	4	3	...	...	15	5	...	...	5	10	...	...	11	74
4,000	7	2	...	...	5	...	...	...	3	2	...	...	3	2	...	...	13	5		...	10	2	...	...	13	5	3	...	15	3	...	...	7	60
5,000	9	...	...	...	3	...	...	...	3	...	...	...	15	...	...	...	3	3	...	...	6	6	...	...	10	15	3	3	...	9	...	...	12	33
May																																		
Surface	...	...	...	...	2	2	...	...	21	20	...	...	23	11	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18	119
500	1	...	...	...	5	1	...	...	9	17	7	2	18	20	7	...	2	2	...	...	1	...	...	...	2	...	...	...	1	...	...	...	5	118
1,000	5	1	...	...	4	2	...	...	8	15	4	2	11	4	...	1	12	3	...	...	6	...	...	...	5	...	...	...	3	1	...	...	13	115
2,000	2	3		...	4	1	...	...	11	3	...	...	7	4	...	...	16	2	...	...	15	...	...	...	11	2	...	...	2	7	...	...	10	93
3,000	6	1	...	...	6	...	...	...	6	5	...	...	9	6	...	...	9	...	...	...	13	...	...	...	13	6	...	...	11	5	1	...	3	67
4,000	2	...	...	...	...	...	...	...	2	...	...	...	4	...	...	...	18	2	...	...	15	9	...	...	9	13	4	...	9	9	2	...	2	48
5,000	...	...	...	...	...	...	...	...	...	...	...	...	8	4	...	...	8	...	...	...	...	13	...	...	4	25	9	4	13	4	4	4	...	24
June																																		
Surface	...	...	...	...	2	1	...	...	33	12	...	...	16	11	1	...	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	21	135
500	2	...	...	...	2	2	...	...	7	30	10	1	8	19	7	4	1	...	...	...	2	...	...	...	2	...	...	...	1	...	...	...	2	133
1,000	1	...	...	...	5	1	...	...	14	22	13	...	8	12	2	...	7	2	...	...	3	...	...	...	3	...	...	...	2	...	...	...	5	127
2,000	5	...	...	...	9	3	...	...	11	13	...	...	18	8	...	...	5	3	...	...	10	3	...	...	4	...	...	...	3	2	...	...	3	97
3,000	3	...	...	...	4	3	...	...	19	7	...	...	5	13	...	...	10	2	2	...	5	3	...	...	3	5	2	...	3	8	...	...	3	60
4,000	5	...	...	...	...	3	...	...	8	8	...	...	6	8	...	...	3	3	...	...	8	6	...	...	8	8	3	...	6	3	3	...	9	35
5,000	...	...	...	...	...	4	...	...	...	...	...	...	8	4	...	...	11	...	...	...	8	8	4	...	8	11	15	...	11	...	8	...	0	26
April–June																																		
6,000	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	9	2	...	...	13	7	7	...	11	22	13	5	...	5	...	...	2	45

* Heights are above Station Level (430 metres).

TABLE XX (*Contd.*)—**Percentage frequencies at the given heights of winds of the specified Directions and Velocities.**

I=3–13 knots (1.5–6.9 m.p.s.). II=14–27 knots (7.0–13.9 m.p.s.). III=28–40 knots (14.0–20.9 m.p.s.).
IV=over 40 knots (over 20.9 m.p.s.). C=Calm, less than 3 knots (1.5 m.p.s.).

AEROLOGICAL STATION, VACOAS.—20°18′ S., 57°30′ E. 430m. Period 1925–37. Time of obsn. variable, chiefly 04–08 G.M.T. (08–12 local time).

Height* (metres)	N				NE				E				SE				S				SW				W				NW				C	No. of obs.
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	I	III	IV	I	II	III	IV	I	II	III	IV		
July																																		
Surface ...	..	...	...	...	2	...	...	...	27	11	...	...	23	16	...	...	2	...	...	...	1	...	..	...	1	...	...	...	...	...	...	...	17	131
500 ...	...	...	..	...	2	2	.	...	14	30	4	1	12	14	7	1	4	2	1	...	...	...	...	...	...	1	..	...	1	..	...	...	4	129
1,000 ...	3	1	...	..	10	3	.	...	13	15	6	...	9	8	2	1	6	1	...	...	6	2	...	.	2	1	...	..	2	...	.	...	9	121
2,000 ..	5	1	...	...	5	3	...	...	14	8	...	...	10	4	...	...	9	4	..	...	4	5	1	...	6	4	...	...	3	4	...	...	10	78
3,000 ...	6	2	...	...	2	...	...	...	8	6	..	..	6	2	...	...	13	4	..	...	8	4	..	..	10	11	...	...	10	4	...	...	4	51
4,000 ...	4	...	...	..	3	...	...	...	7	7	...	..	3	3	...	...	4	7	...	...	7	3	...	...	3	14	3	...	13	3	13	...	3	30
5,000 ...	...	..	...	...	4	...	...	...	...	...	...	...	...	4	..		...	5	...	...	...	5	5	..	...	10	10	...	10	32	...	5	10	21
August																																		
Surface ...	...	...	..	...	1	...	...	...	36	23	..	...	15	10	...	...	2	1	...	...	...	..	..	...	...	...	...	...	...	...	...	...	12	140
500 ...	..	...	...	...	1	1	.	...	12	25	8	...	9	24	4	...	7	1	...	...	1	...	...	..	1	...	...	...	...	...	...	...	6	140
1,000 ...	4	1	...	...	6	1	1	...	9	16	5	1	12	11	1	1	12	1	...	..	2	...	...	...	4	1	...	...	2	...	...	...	9	128
2,000 ...	1	...	...	...	5	5	...	...	6	8	...	...	17	8	...	...	8	5	...	...	11	2	...	...	11	6	...	...	2	2	..	...	3	88
3,000 ...	5	2	..	...	3	...	..	...	7	5	...	...	7	5	...	...	16	5	...	...	9	4	...	..	12	7	2	...	4	2	2	..	3	57
4,000 ...	...	3	...	...	...	3	...	...	...	...	...	..	...	3	...	...	5	8	3	...	17	8	...	...	14	14	3	...	8	8	...	...	3	36
5,000 ...	...	...	4	...	..	...	...	...	..	..	...	...	...	4	...	...	...	4	4	...	9	13	9	...	13	22	4	...	5	5	4	...	...	23
September																																		
Surface ...	...	..	...	...	1	...	...	...	44	18	...	...	9	9	1	...	1	2	...	...	1	...	...	...	...	...	...	..	...	...	...	...	14	139
500 ...	...	..	...	...	7	1	...	...	23	25	9	1	10	14	2	1	2	2	...	...	1	...	...	..	1	...	...	..	...	...	...	...	1	139
1,000 ...	2	...	...	...	12	1	...	...	19	14	1	2	14	7	...	...	5	2	...	...	7	1	..	...	3	..	...	...	1	...	...	...	9	136
2,000 ...	2	4	...	..	11	2	..		11	5	2	...	16	7	...	..	12	3	.	...	8	2	...	...	4	2	...	...	5	...	...	...	4	103
3,000 ...	4	...	...	...	4	3	...	...	13	2	...	...	15	12	...	...	13	1	...	...	13	3	...	...	6	2	1	...	1	...	..	...	7	69
4,000 ...	11	...	...	...	10	...	...	...	6	4	.	...	4	...	...	...	12	4	2	...	6	2	2	...	11	10	...	...	8	6	...	...	2	49
5,000 ...	9	...	...	...	9	...	...	...	9	...	...	...	...	3	...	...	...	3	...	...	3	9	...	...	12	20	3	...	3	9	3	...	5	34
July-Sept.																																		
6,000 ...	6	1	...	..	3	...	...	...	2	...	...	...	...	3	...	...	8	1	1	...	3	11	1	...	4	22	4	...	7	15	1	1	6	73
October																																		
Surface ...	1	...	...	...	5	1	...	...	33	7	...	...	13	6	...	...	1	1	...	...	1	...	...	...	1	..	...	...	1	...	...	...	29	165
500 ...	2	1	..	...	5	2	1	...	31	27	2	...	8	9	3	1	5	1	...	...	3	1	...	...	1	1	...	...	1	...	...	...	5	164
1,000 ...	5	2	...	...	9	1	...	...	18	17	1	1	9	5	1	...	11	2	...	...	3	...	...	...	5	...	...	...	2	...	...	...	8	146
2,000 ..	8	2	..	...	4	1	...	...	14	11	1	...	9	3	...	...	9	3	...	...	10	4	...	...	9	2	...	...	3	1	...	...	6	118
3,000 ...	2	...	...	...	1	1	...	...	5	9	...	...	8	4	...	...	9	2	...	...	14	8	...	...	11	6	...	...	5	6	...	...	9	80
4,000 ...	5	..	...		...	...	...	...	...	7	.	...	11	4	...	...	9	4	2	...	15	2	...	...	18	7	...	...	7	5	2	...	2	55
5,000 ...	8	...	...	...	2	...	...	...	...	...	...	...	7	5	...	...	7	7	5	...	5	8	...	..	8	15	5	...	2	8	2	...	5	40
November																																		
Surface ...	1	...	...	...	7	1	...	...	48	16	...	...	5	1	...	...	1	...	...	...	...	...		...	...	...	...	...	1	...	...	..	19	150
500 ...	2	1	...	...	10	4	...	...	19	31	6	1	12	6	...	..	1	1	...	..	..	...	...	...	...	...	...	...	1	...	...	...	5	149
1,000 ...	6	1	...	...	11	2	...	...	20	21	2	...	14	4	...	...	6	...	...	...	1	...	...	...	3	...	...	...	1	...	...	...	8	145
2,000 ..	8	1	1	...	10	2	...	...	16	8	...	...	11	9	...	...	9	...	1	..	7	2	...	...	4	2	...	...	3	1	...	...	5	112
3,000 ..	8	..	1	...	5	...	...	...	9	6	...	..	10	5	1	...	9	1	...	...	13	5	..	...	4	1	..	...	15	...	...	...	7	80
4,000 ...	5	...	...	...	4	...	...	...	2	2	...	..	18	3	...	...	7	3	..	..	11	5	..	...	11	2	...	...	14	4	...	...	9	56
5,000 ...	10	2	..	...	2	2	.	...	7	2	...	...	2	7	..	..	7	...	...	..	5	7	...	...	6	12	..	...	17	10	...	...	2	42
December																																		
Surface ...	...	...	..	...	16	2	...	...	33	9	...	...	6	1	...	...	1	...	...	...	..	...	...	...	...	...	..	...	1	..	...	...	31	109
500 ...	3	1	...	...	17	9	...	...	29	22	3	1	4	1	...	...	3	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	7	108
1,000 ...	9	...	...	...	23	2	..	...	22	14	1	...	9	1	1	...	3	...	...		3	...	...	...	...	...	...	...	4	...	...	...	9	103
2,000 ...	11	3	...	...	14	1	...	...	11	7	...	...	12	1	...	...	4	1	...	...	7	...	...	...	3	...	...	...	6	..	...	...	19	73
3,000 ...	2	...	...	...	4	..	...	...	9	7	...	...	14	7	...	...	11	...	...	...	14	..	...	...	14	..	...	...	11	2	...	...	5	58
4,000 ...	3	8	...	...	...	..	...	...	15	2	...	...	13		...	...	13	...	...	..	18	...	...	...	18	...	...	...	..	...	...	...	10	39
5,000 ...	8	...	...	...	4	...	...	...	..	4	...	...	13	...	...	...	21	...	...	...	4	4	...	...	25	4	...	...	9	...	...	...	4	24
Oct.-Dec.																																		
6,000 ...	4	2	...	...	3	2	...	...	1	...	...	...	2	3	...	...	10	2	1	...	4	7	...	...	7	22	2	...	7	13	2	...	6	68

* Heights are above Station Level (430 metres).

27/2/38—250—R.A.O