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RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

MADE AT

THE ROYAL ALFRED OBSERVATORY, MAURITIUS

IN THE YEAR

1900

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ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1900.

MAURITIUS MAGNETICAL AND METEOROLOGICAL OBSERVATIONS, 1900.

INTRODUCTION.

§ I.—*Position of the Observatory Buildings and Instruments.*

The Observatory, in Latitude 20° 5′ 39″ S. and Longitude $3^h.\ 50^m.\ 12^s{\cdot}6$. E., is situated on a plain about three miles from the West Coast and stands in eleven acres of Crown Land. The reference mark at the entrance of the Main Building is 178·1 feet above sea level.

From west-south-west through west to north there is an uninterrupted view of the sea, and from north through east to south-east the ground generally rises to Mount Piton, the summit of which bears about four miles east-south-east and is 917 feet above mean sea level. Between south-east and south-west there is a chain of mountains the highest peak of which, the Pieterboth, bears nearly six miles due south, and has an altitude of 2,874 feet. The nearest extremities of two spurs which run north and north-west from the Pieterboth are at distances of three to four miles, and have an elevation of about 560 feet.

The Island is of volcanic origin, and the rocks are more or less magnetic. Around the Observatory the soil has a depth of 3 to 14 feet, below which is solid basalt.

The Main Building, the foundation stone of which was laid on May 30th, 1870, by his Royal Highness the Duke of Edinburgh, was completed in the year 1875. It is a stone structure of rectangular base, 56 feet long by 38 feet wide, and faces north-by-west. It is sheltered on all sides by a verandah and balcony, added in the years 1878, 1881, and 1882. On the ground floor are three rooms, the Director's official room and the South-West Computing Room on the western side of the entrance hall, and on the eastern side the Principal Computing Room, in which are placed the Standard barometer, and self-registering maximum and minimum thermometers. A mean solar clock by Dent is fixed to the northern wall and there are two mean solar chronometers, Kullberg No. 3,400 and Webster No. 925, for magnetic and

actinometric observations and for use with the photoheliograph; and one sidereal chronometer, Muirhead No. 450, for use with the 12-inch theodolite.

At the south end of the entrance hall is the transit pillar, which rises to a height of 36 feet above the ground floor. On the first floor are four rooms, two on either side of the staircase, the east rooms serving as a library and the west as sleeping apartments. On the second floor is an attic, in which are three doors opening into domes and a staircase leading to the roof, upon which is mounted the Campbell-Stokes sunshine recorder. In the North-East Dome is a 6-inch equatorial by Cooke, and in the South Dome the old transit instrument by Troughton and Simms and a sidereal clock by Parkinson and Frodsham. The North-West Dome contains the registering parts of the Beckley Anemometer, the cups of which are 5 feet above the dome and 51 feet above the ground.

The Magnetic Observatory, which was completed in the year 1874, is situated 60 yards to the north of the main building. It consists of a rectangular stone chamber 40 feet long and 34 feet wide, with its floor 12 feet below the surface of the ground. The building is primarily divided into east and west rooms, the former being used for photographic operations. The West Room contains the magnetograph and barograph, and in its construction great care was taken to exclude iron and other magnetic substances; precautions are also taken to keep the daily range of temperature small. The walls are double, with an air space of 30 inches between them, and there is a wooden ceiling in addition to the exterior roof; the latter is thickly thatched with straw, and slopes from an altitude of 12 feet to the north and south walls, which rise to a height of 2 feet above the ground. At a distance of 35 yards to the east of the Magnetic Observatory is a stone-capped ventilator communicating with the Magnetograph Room by means of a 12-inch pipe, laid underground at a depth of 11 inches below the surface.

In the year 1875 a small wooden building for absolute magnetic observations was erected 80 yards to the north-west of the Main Building, and 60 yards to the west of the Magnetic Observatory. Similar precautions were observed respecting the introduction of iron as in the case of the Magnetic Observatory, the nails, locks, &c., being either of copper or brass. A verandah was added in the year 1880, and in November 1896 an opening was made in its south side to admit of observation of circumpolar stars, up to an altitude of 10°, for determining the azimuth of what is known as the Magnetic Mark. But as only a few stars could be conveniently observed through the original opening, in May 1900 it was extended, and the doorway heightened to admit of observations of stars up to an altitude of 25°. The pillars on which the instruments are placed are built of non-magnetic bricks and rise from

substantial foundations below the floor; they are at equal distances apart, and lie in a direction nearly at right angles to the Astronomical Meridian. The Unifilar instrument is placed on the central pillar, and the Dip Circle on the western; the eastern pillar is not at present in use.

In the year 1878 a stone building was erected 240 feet to the north-east of the main building for the reception of the photoheliograph and thermograph. The Photoheliograph Room is 16 feet in diameter, and is surmounted by a wooden dome running on iron wheels and rotated by means of three handwheels. Adjoining it on the southern side are two small rooms, one of which is used for photographic operations. The second, or east room, contains the registering parts of the Kew thermograph, and is known as the Thermograph Room. The stems of the photographic thermometers project outwards into the Thermograph Screen, and are held in position by a metal frame to which are also attached the standard dry bulb and wet bulb thermometers. The screen is 6 feet square by 6 to 7 feet high, the roof sloping towards the South away from the building; the sides are of double louvre boarding, and the planks of the floor are double, with an air space between each to ensure sufficient ventilation, and to afford protection against radiation from the ground. The bulbs of the thermometers are 2 feet above the floor and 6 feet above the ground.

About midway between the Photoheliograph Dome and the Magnetic Observatory is the Seismograph Room, a wooden building 12 feet square and 18 feet high, erected originally for the reception of an Electrometer in 1894. A circulation of air is maintained by three 9-inch ventilating tubes, so arranged that no direct rays of light can penetrate into the room; two project outwards through the north and west walls respectively, at a distance of 9 inches from the ground, and the third passes through the roof. The instrument was first mounted on a small brick pillar built up from the floor, which is of concrete; but it was found that a more substantial foundation was necessary, and in the month of November 1899 the floor was broken and a hole dug 6 feet deep by 4 feet square; this was filled up with 4 feet of concrete, and the instrument now rests on a tapering column rising from the concrete base to a height of 4 feet above the ground, without touching the earth on any side. In the month of March 1900 the room was completely enclosed by a straw thatching, allowing an air space of 3 feet on every side; by this means the daily range of temperature to which the instrument is subjected has been considerably reduced.

At a distance of 16 yards to the south of the Seismograph Room is a small wooden hut erected in the year 1885 for the Balfour Stewart Actinometer. The instrument is mounted on a stone pier of 18 inches diameter at base tapering to

12 inches at the top, and exposure to the sun's rays is effected by means of a divided roof, one half of which opens towards the north and the other towards the south.

About 40 yards to the east of the Main Building is a circular enclosure 11 yards in diameter. In it are placed (1) a Stevenson screen containing self-registering maximum and minimum thermometers; (2) a similar screen containing a Mason hygrometer; (3) a wooden stand 4 feet high, carrying two solar radiation thermometers; (4) a terrestrial radiation thermometer; (5) an evaporometer, consisting of a shallow cylindrical brass vessel 8 inches in diameter, surrounded by a wire cage; (6) a Symons earth thermometer for registering the temperature of the soil at a depth of 62 inches below the surface; (7) a similar thermometer for registering the temperature of the soil at a depth of 120 inches below the surface.

The Beckley self-registering raingauge is placed 10 yards to the south-south-west of the above enclosure, and the Glaisher raingauge 32 yards to the north of the north-west corner of the Main Building.

§ II.—*Routine Work of the Observatory and Staff.*

Continuous photographic records showing the variations of magnetic declination, horizontal force and vertical force, barometric pressure, temperature of the air, and of evaporation; also automatic records of the direction and velocity of the wind, and of the amount of rain, are obtained with instruments of the Kew pattern. The duration of bright sunshine is registered by a Campbell-Stokes universal instrument. Photographic records of earth movements are obtained with a Milne Seismograph.

Absolute values of magnetic declination and horizontal force are determined, as a rule, four times a month, and of dip, eight times a month. Eye observations of the principal meteorological elements are made daily at 6^h, 9^h, 13^h, and 15^h Mauritius Civil Time; the day commencing at midnight and counting from 0^h to 23^h. Daily readings are taken of solar and terrestrial radiation thermometers and of earth thermometers. Actinometric observations are taken on those days on which the sky in the neighbourhood of the sun is free from cloud at or near apparent noon.

The magnetical and meteorological records are measured at each hour of Mauritius Civil Time, and the records of the seismograph at each hour of Greenwich Civil Time.

Photographs of the sun are taken daily, weather permitting, and the negatives and one print of each forwarded to the Secretary of the Solar Physics Committee, London; one print is retained. Observations for Time are made daily with few exceptions. The Time-Ball on the Signal Mountain at Port Louis was dropped by hand three times a week until 1900 September 30, and subsequently on every week

day except Saturdays and Public Holidays. The exact time at which the ball crosses the yard arm is noted at the Observatory and telegraphed to the Harbour Master.

Meteorological bulletins are prepared daily for publication in the local press, and copies of the principal results for each month are forwarded to England, India, and Australia. From May to September code telegrams giving a résumé of the weather during the week are despatched every Saturday to the Director-General of Indian Observatories, in connection with the monsoon predictions.

The meteorological observations made at Seychelles, Rodrigues, the Botanical Gardens (Pamplemousses), the Nursery Gardens (Curepipe), Lynnwood (Moka), Bon Air (Moka), the Military Camp (Vacoa), and the Manse (Beau Bassin), are all systematically reduced at the Observatory. Rainfall observations are received from about 70 stations in different parts of the Island, and the results tabulated.

Storm warnings are issued, when necessary, in accordance with Government regulations, and the tracks of cyclones laid down from information supplied by the Meteorological Society of Mauritius.

During the year 1900 the Staff consisted of Mr. A. Walter, Chief Assistant, Mr. A. N. Figon, Second Assistant, with Messrs. N. V. Olivier, F. V. Agathe, E. Gourdin, R. Rassoo, and L. N. Olivier, extra assistants.

§ III.—*Magnetic Instruments.*

The Magnetic instruments in use at the Observatory are all of the Kew pattern, described by the late Professor Balfour Stewart in the 9th edition of the *Encyclopædia Britannica;* it is only necessary, therefore, to mention here what specially applies to the Mauritius instruments.

UNIFILAR INSTRUMENT.—The unifilar instrument for observations of magnetic declination and horizontal force is Elliot No. 24. It is mounted on the central pier in the Magnetic Pavilion, and is adapted for magnetic survey work, being furnished with a tripod stand and a mirror for observation of the sun's azimuth.

The instrumental constants, as determined at the Kew Observatory, are as follows:—

Correction for Graduation of Deflection Bar.

Correction at 30 cms. = + 0·0027 cms. at 17° centigrade.
" " 45 " = + 0·0052 " " "

In the Deflection apparatus - - -	1 scale division	= 1′·01.
In the Vibration magnet (24 C.) - -	" "	= 1′·85.
In the Declination magnet (24 B) - -	" "	= 1′·81.

For Deflecting Magnet (24 A).

The correction for decrease of magnetic moment of the magnet to reduce to 0° Centigrade is $0 \cdot 000306\ (t - 0) + 0 \cdot 00000148\ (t - 0)^2$, t representing the temperature of the magnet (in degrees Centigrade) at the time of observation.

The increase in the magnetic moment of the magnet produced by the inducing action of a magnetic force equal to unity of the C.G.S. system of absolute measurement $= \mu = 5 \cdot 20210$.

The moment of inertia of magnet = K. At temperature 0° Centigrade log. K = 2·43255, and at temperature 40° Centigrade log. K = 2·43298.

The inertia cylinder weighs 62·35 grammes; its length is 9·513 centimetres, and its diameter is 0·993 centimetres.

In the absolute determinations of Horizontal Force prior to 1900 August 1, the vibration observations were taken before the deflections. Observing in this order, however, does not permit the plummet of the deflection apparatus to swing for more than a few minutes before the observations are made, and as it was thought that some of the observed irregularities arose from this cause, arrangements were made by which the vibration apparatus could be set up apart from the instrument; twisting of the thread during transit being prevented by lowering the plummet into a conical cavity drilled into the bottom of the box. It is now the practice to arrange the instrument for deflections and allow both plummets to swing for 24 hours before commencing the observations. Immediately after the completion of the deflection observations the vibration apparatus is remounted on the instrument and the time of vibration of the deflecting magnet determined.

A determination of Absolute Declination is made as follows:—On the day previous to that on which the observations are to be taken the position of the plummet is noted from time to time, and the torsion head turned until the axis of the plummet lies in the magnetic meridian; the instrument being already adjusted in this respect. After the magnet is placed in position the instrument is turned in azimuth until the middle scale division is approximately bisected by the vertical wire in the telescope. The azimuth circle is then clamped and both its verniers read, after which six scale readings are obtained with the magnet alternately erect and inverted; finally the reading of the horizontal circle is checked. The circle reading of the Magnetic Meridian is obtained by adding to the observed circle reading half the excess of the erect over the inverted scale readings; and that of the Astronomical Meridian by observation of what is known as the Magnetic Mark, a white vertical line painted on a stone column distant 150 yards due South of the instrument.

The azimuth of this mark was determined in the year 1875 from observations of the Sun with the instrument itself, with the following results:—

1875 October 19	0′	22″·5	W.
,, ,, 22	0′	41″·1	E.
,, ,, 26	0′	1″·5	E.
Mean	0′	6″·7	E.

This correction was accordingly applied to the circle readings of the mark until the end of the year 1879, and afterwards neglected as insignificant. It was intended to determine the azimuth of this mark more accurately, but apparently no opportunity occurred until September 1896, when a 12-inch theodolite was lent to the Observatory for this purpose by the Public Works Department. The declinometer was dismounted on October 30, and the theodolite put up in its place, care being taken to make its vertical axis coincident with that of the declinometer, when in use and from 7 observations of *δ′Apodis* near its lower culmination, the azimuth of the mark was found to be 1′ 13″·9 West of South. This result was confirmed by subsequent observations of *δ′Apodis*, *β Chamæleontis*, *γ Hydri*, and *μ Hydri;* the mean of 75 observations made on 10 evenings between October 1896 and June 1897 gave 1′ 14″·5 West of South as the azimuth of the mark, indicating a change since the former determination in 1875, of 2·12 inches in the relative positions of the pier and mark. But this is improbable, as both are built up from substantial foundations; and considering also the type of instrument used in the two determinations, and the degree of accuracy which may be expected from each, it would appear that a correction of −1′ 21″·2 should be applied to all declination observations made from 1875 to 1879 and −1′ 14″·5 to those made from 1880–1896. Since 1897 the azimuth of the mark has been frequently determined and the mean values for the past three years are as follows:—

Year.	Sets of Observations.	Azimuth of Mark.
1898	22	1′ 15″·9 West of South.
1899	23	1 15·2 ,, ,,
1900	18	1 11·3 ,, ,,

DIP INSTRUMENT.—Observations of Magnetic dip are made with a Kew Dip Circle (Dover No. 89), mounted on a brick pier to the west of the unifilar instrument. The needles employed are 3½ inches long and are numbered 1, 2, 3, and 4, respectively.

The needle to be used is magnetised by double touch, and after wiping it with chamois leather and cleaning the pivots with cork it is placed in position in the instrument, and by means of a lever gently lowered on to the agate bearings, which are previously dusted. The circle readings of the needle points are then read and the observations repeated in the positions indicated in Table XI. Each value is the mean of at least 3 independent observations made after gently raising and lowering the needle on to the agate bearings until the change produced by the operation is small.

MAGNETOGRAPHS.—The instruments for recording the variations of magnetic declination, horizontal force and vertical force are placed in the west room of the Magnetic Observatory, and mounted in a manner similar to that adopted at the Kew Observatory, the vertical force magnetometer being to the north, the declinometer to the east and the horizontal force magnetometer to the west. Petroleum oil is used for photographic registration.

In the year 1885 the following measurements were made to determine the angular movement of the declination, horizontal force and vertical force magnets necessary to produce a change of 1 division of scale reading and 1 millimetre of ordinate respectively.

Magnetometer.	Distance from back of Mirror.	
	To Scale.	To Surface of Cylinder.
	Inches.	Inches.
Declination - - -	43·3	60·6
Horizontal Force - -	45·8	60·9
Vertical Force - -	64·8	60·0

From which the following results were obtained:—

Magnetometer.	Angular Value of 1 Division of Scale.	Angular Value of 1 mm. of Ordinate.	Factor to reduce Scale Readings to mm. of Ordinate.
Declination - -	47″·62	1′ 7″·0	·711
Horizontal Force -	45·29	1 6·7	·679
Vertical Force - -	31·82	1 7·7	·470

Several attempts were made in the years 1886 and 1887 to exhaust the air from the glass shades of the magnetometers, but without success; since the year 1889, however, the instruments have been protected from damp to a certain extent by the use of chloride of calcium, which has to be renewed at least three times a year. This practice was discontinued in the case of the Vertical Force in the year 1899 on account of the abnormal behaviour of the magnet for several days subsequent to each renewal of the absorbant.

Thermometers are placed within the glass shades of the horizontal force and vertical force magnetometers, and are read daily at 7^h, 10^h, 13^h, and 15^h.

Experiments were made in the year 1897 to determine the temperature coefficient of the horizontal force magnet. Hot water bottles were placed round the glass shade of the instrument and the effect of each degree rise of temperature determined from readings of the magnet scale, with the following results:—

Increase of Temperature.	Decrease of Horizontal Force C.G.S. Units.				
	September 2.	September 6.	September 8.	September 15.	Mean.
1°	·000021	·000024	·000021	·000027	·000024
2°	·000068	·000062	·000062	·000059	·000063
3°	·000124	·000121	·000118	—	·000123
4°	·000204	·000201	·000160	—	·000202
5°	·000320	·000300	·000225	—	·000310
6°	·000491	·000503	·000302	·000459	·000484
7°	—	—	·000438	—	—

The results for September 8 have not been included in the mean, as for some unknown reason they appear to be erroneous.

The temperature co-efficient of the horizontal force magnet has recently been re-determined from a discussion of the observed values of the photographic base

lines in the years 1898, 1899, and 1900. The mean monthly values after allowing for dislocations are as follows :—

Month.	1898–99.		1899–1900.		1900–01.		Mean.		
	Values of H.F. Base Line (C.G.S. Units).	Temperature.	Values of H.F. Base Line (C.G.S. Units).	Temperature.	Values of H.F. Base Line (C.G.S. Units).	Temperature.	Values of H.F. Base Line (C.G.S. Units).	Temperature.	Base Line corrected for Progressive Change.
		°		°		°		°	
March -	·23934	83·0	·23973	83·8	·24015	83·8	·23974	83·5	·23974
April -	·23929	82·2	·23955	82·6	·24004	82·5	·23963	82·4	·23961
May - -	·23910	79·3	·23957	80·1	·23995	80·4	·23954	79·9	·23951
June -	·23874	76·0	·23911	76·3	·23968	77·7	·23918	76·7	·23911
July - -	·23878	75·4	·23898	74·8	·23923	75·2	·23900	75·1	·23891
August -	·23865	75·0	·23907	74·1	·23935	74·4	·23902	74·5	·23891
September -	·23833	75·4	·23893	75·1	·23933	75·4	·23886	75·3	·23872
October -	·23845	76·6	·23920	76·8	·23946	76·4	·23904	76·6	·23888
November -	·23906	78·8	·23948	80·1	·23970	78·5	·23941	79·1	·23923
December -	·23948	81·8	·23960	81·4	·23996	80·9	·23968	81·4	·23947
January -	·23962	82·8	·23973	83·1	·24008	82·3	·23981	82·7	·23958
February -	·23974	83·6	·24002	83·8	·24010	82·7	·23995	83·4	·23970
March -	·23973	83·8	·24015	83·8	·24017	83·2	·24002	83·6	·23974

The observations have been treated by the method of least squares and the following expression deduced for correction to 70° Fahrenheit (in C.G.S. measure)

$$\cdot 0001255\ (t^\circ - 70^\circ) - \cdot 00000142\ (t^\circ - 70^\circ)^2$$

in which t is the temperature in degrees Fahrenheit.

It is to be remarked that in each year the horizontal force continued to increase after the temperature had commenced to rise, and consequently the temperature effect appeared greater for rising than for falling temperatures; but if the observations for September are rejected from the former series the effect is practically the same for both.

The above results differ considerably from those obtained in 1897 by artificially heating the magnet, but clearly represent the effect of the annual variation of temperature in the magnetic basement, and beginning with the year 1901 will be used in the horizontal force reductions.

In the present and preceding volumes no attempt has been made to correct the indications of the horizontal force and vertical force magnets for changes of temperature. As regards diurnal variation the omission is unimportant, as the mean daily range of temperature in the magnetic basement is less than 0°·2 Fahrenheit, but the effect on the mean monthly values given in Tables X. and XIII. becomes appreciable when the mean monthly temperature in the magnetic basement differs from the mean of the temperatures at the times of the absolute determinations. The differences in the year 1900 are given in the following table:—

Month, 1900.	Temperature in the Magnetic Basement. During Absolute Determinations of H.F. 1.	2.	3.	4.	Mean.	Monthly Mean.	Excess of Monthly Mean.	Resulting Corrections necessary to Values in Table X. (C.G.S. Units.)
	°	°	°	°	°	°	°	
January - - -	82·4	..	..	83·8	83·1	83·2	+0·1	+·000009
February - -	83·8	83·6	83·8	84·2	83·8	83·8	0·0	·000000
March - - -	83·8	83·2	84·0	84·2	83·8	83·6	−0·2	−·000018
April - - -	82·9	82·9	81·8	82·4	82·0	82·4	+0·4	+·000038
May - - -	81·4	..	..	79·4	80·4	80·1	−0·3	−·000020
June - - -	79·2	79·2	76·2	76·2	77·7	77·9	+0·2	+·000021
July - - -	75·4	75·4	75·4	74·5	75·2	75·2	0·0	·000000
August - - -	74·4	74·4	74·2	74·8	74·5	74·5	0·0	·000000
September - -	75·2	75·4	75·4	75·4	75·3	75·3	0·0	·000000
October - - -	76·0	76·4	76·8	..	76·4	76·7	+0·3	+·000033
November - -	77·4	78·2	79·2	79·2	78·5	78·4	−0·1	−·000011
December - - -	79·8	81·0	81·2	81·6	80·9	80·8	−0·1	−·000010

The scale value of the horizontal force magnetometer was determined in the year 1900 on 12 occasions as follows:—

Date 1900.	Value in C.G.S. Units of 1 mm. of H.F. Ordinate.	Date 1900.	Value in C.G.S. Units of 1 mm. of H.F. Ordinate.
January 10 - -	·0000506	June 30 - -	0000513
February 1 - -	·0000508	August 3 - -	·0000506
March 8 -	·0000513	September 10 - -	·0000507
April 2 - -	·0000536	October 2 - -	·0000510
May 7 - -	·0000530	November 5 - -	·0000511
June 1 - -	·0000516	December 31 -	·0000510

The horizontal force magnet is adjusted at right angles to the magnetic meridian as follows: The reading of the torsion circle corresponding to the magnetic meridian is determined by inserting a brass bar, of the same weight and shape as the magnet, and turning the torsion head until the same scale reading is obtained with either bar up or magnet up; then, with bar up, the torsion head is turned through 90°, and the scale read. This will be the correct reading for the magnet when at right angles to the meridian; it only remains to insert the magnet and turn the torsion head until the correct scale reading is obtained. In order to obtain scale readings of the magnet—or bar—when in the plane of the meridian, it is necessary to turn the mirror through an angle of 90° from its normal position.

The above adjustment was made on 1900 December 31. On the same date the torsion was removed from the silk suspension skein of the declination magnet. On 1900 June 30, the torsion coefficient was found to be 1·00240.

The temperature coefficient of the vertical force magnet now in use was determined in the month of July 1898 by artificially heating the magnet, and in the first experiment, on July 1, it was found that an increase of 5°·2 of temperature caused a decrease of ·00073 C.G.S. units; but by re-adjustment of the sliding collar attached to the temperature bar, after several trials the error of compensation was considerably reduced. In the final experiment, on July 11 an increase of 7°·6 temperature caused a decrease of ·000285 C.G.S. units.

On account of frequent dislocations, &c., it has not been possible to determine the temperature coefficient of the vertical force magnet from the observed values of the photographic base lines.

The scale value of the vertical force magnetometer was determined in the year 1900 on 13 occasions, as follows:—

Date 1900.	Value in C.G.S. Units of 1 mm. of V.F. Ordinate.	Date 1900.	Value in C.G.S. Units of 1 mm. of V.F. Ordinate.
January 10 - -	·0000467	August 1 - -	·0001062
February 1 - -	·0000449	August 3 - -	·0000637
March 8 - -	·0000455	September 10 - -	·0000712
April 2 - - -	·0001065	October 2 - -	·0000715
May 7 - -	·0000921	November 5 - -	·0000610
June 1 - - -	·0001002	December 31 -	·0000703
July 30 - -	·0001067		

The magnet required adjustment on March 12, 16, 19, August 1, and October 16.

The indications of the vertical force magnet are not comparable in accuracy with those of the horizontal force or declination magnets. Not only does the sensibility vary with the temperature and scale reading, but occasionally, after adjustment or the determination of scale value, a gradual increase or decrease of ordinate occurs, indicating a gradual change of force which is not real. In some cases this only continues for a few days, after which apparently accurate records are obtained, but, as a rule, it becomes necessary to readjust the magnet.

§ IV.—*Magnetic Reductions.*

In computing the diurnal variation of magnetic declination and vertical force for the year 1900, all available days were used; but in horizontal force the following days were rejected on account of magnetic disturbance: January 5, 19, 21; February 4; March 8, 9, 13, 14; May 5, 6; October 4, 20, 25; of these only five, January 19, March 8, 9, 13, 14, were days of great disturbance. January 14, 15, 26, February 5, 9, 10, 11, April 10, May 1, November 1, and December 7, though days of slight disturbance, were used in the formation of Tables III. and IV.

The photographic curves are measured at each hour of the day, commencing with midnight and counting from 0^h to 23^h. For declination a glass scale is used, graduated to show minutes of arc, from the data given on page *x*; but in the case of horizontal

force and vertical force, where the scale value is not constant, the curves are measured with millimetre glass scales.

The Mauritius magnetograms show progressive changes of ordinate which are not of magnetic origin; and the monthly mean hourly values of the magnetic elements include the effect of these non-periodic variations, which, in the case of vertical force, particularly after adjustment of the magnet or determinations of scale value, is relatively large. It is necessary, therefore, to apply corrections as follows. Calling the mean monthly value of the ordinate at 0^h and 24^h, h_0 and h_{24} respectively, the correction γ to be applied at any hour x is:

$$\gamma = (x - 12)\,\frac{h_0 - h_{24}}{24}.$$

This method is equivalent to using a fresh base line for each day's curve, inclined to the photographic base line at an angle corresponding to the daily increase or decrease of ordinate. Any variation in the rate of change is eliminated in the monthly means.

Though originally introduced in the vertical force reductions, on account of the defective action of the magnet, the system has been extended to horizontal force and declination for the sake of uniformity, and the results in Tables II., IV., and VIII. give the monthly mean solar diurnal variation of declination, horizontal force, and vertical force freed from the effect of all other periodic and non-periodic variations.

The diurnal ranges of declination, horizontal force, and vertical force on calm days are given in Tables I., III., and VII.; each value is the difference between the greatest and least hourly measure on each civil day. The diurnal ranges on days of magnetic disturbance are given in Table XIV.

In the computation of mean monthly values of declination, the absolute determinations furnish apparent values of the photographic base line, from which mean monthly values are deduced; these are smoothed by the formula: $b' = \frac{a + 2b + c}{4}$, in order to eliminate the petty irregularities due to errors in the absolute determinations; and the results given in the last column of Table IX. are obtained by adding to the smoothed values the mean monthly ordinate, as derived from the hourly measures of the photographs. It will be seen that there occur gradual changes in the value of the base line, due to the changes of torsion, and want of uniformity in the effect of temperature on different parts of the mirrors.

From a comparison of the observed values of the declination base line with the corresponding values taken from a smoothed curve, it appeared that the probable error of a single determination of declination in the year 1900 was $\pm 1' \cdot 09$. The greatest error was $6' \cdot 25$.

The mean monthly values of horizontal force given in Table X. have been obtained in a manner similar to that adopted in the case of declination. The probable error of a single determination of horizontal force in the year 1900 was $\pm$ ·00008 C.G.S. units, and the greatest error ·00033.

Table XI. exhibits the separate observations of dip, and from the mean monthly values collected in Table XII., combined with the corresponding values of horizontal force (Table X.), the vertical force and total force have been computed.

The magnetic disturbances which occurred during the year 1900 are briefly described on pp. (xiv) and (xv), and the hourly variations of the disturbed element above or below the mean value for the month are given in Table XIV. In vertical force there were no disturbances of sufficient magnitude in 1900 to require special description, and in declination only on one day, May 5.

§ V.—*Meteorological Instruments.*

STANDARD BAROMETER.—The Standard barometer, Newman No. 128, is the property of the Meteorological Society of Mauritius. It was purchased in the year 1853, and in November 1874 was mounted in its present position on a wooden stand 6 feet from the southern and 9 feet from the eastern wall of the Principal Computing Room. The instrument is of the Fortin pattern as modified by Newman, the capacity correction being made by adjusting the scale until its lower extremity, which terminates in an ivory point, just touches the surface of the mercury in the cistern. The diameter of the tube is $0^{in}\cdot575$, and the cistern is considered to be 181 feet above mean sea-level.

In the year 1880 the slow motion screw of the sliding rod showed signs of wear, and on account of difficulty in setting, and the accumulation of scum on the surface of the mercury in the cistern, readings were discontinued on August 31 of that year. The barometer was sent to England to be repaired in December 1890, and a new tube was fitted by Messrs. Negretti and Zambra; it then gave identical readings with the Kew Standard barometer. Formerly a correction of $+\ 0^{in}\cdot002$ was applied to the readings on account of capillarity.

From 1880 September 1 until 1883 June 23, two small demi-standard barometers, Negretti and Zambra Nos. 1189 and 1190, were used as Standards, and subsequently a larger barometer, Hicks No. 687, was used until the return of Newman No. 128, on 1891 September 25.

From two series of comparisons made in 1880 August and 1882 February, it appeared that Negretti and Zambra Nos. 1189 and 1190 read respectively $0^{in}\cdot0190$

and $0^{in} \cdot 0144$ lower than Newman No. 128; while in 1875 they read $0^{in} \cdot 002$ and $0^{in} \cdot 006$ higher than the Kew Standard, indicating that Newman No. 128 read $0^{in} \cdot 0207$ too high. This was confirmed in 1883 June by comparisons between the Negretti and Zambra barometers and Hicks No. 687, a newly received Standard barometer, which in 1882 read $0^{in} \cdot 004$ lower than the Kew Standard; and again by comparisons between Hicks No. 687 and Newman No. 128 on its return in 1891. A somewhat elaborate discussion of the photographic records of the Barograph showed that the index errors of the several barometers had remained sensibly constant while in use as Standards, and that to reduce the observations to a uniform standard (Newman No. 128, after repair) a correction of $+ 0^{in} \cdot 0048$ should be applied to the readings of Hicks No. 687, $+ 0^{in} \cdot 0011$ to the mean of Negretti and Zambra Nos. 1189 and 1190, and $- 0^{in} \cdot 0158$ to Newman No. 128, when in use from 1875–1880.

STANDARD DRY AND WET BULB THERMOMETERS.—The Standard dry and wet bulb thermometers Nos. 714 and 715 (constructed at the Kew Observatory) are mounted in the Thermograph screen between the photographic thermometers; they are read daily at 6^h, 9^h, 13^h, and 15^h, and the observations used to standardise the photographic records of the Thermograph.

On 1900 June 16 self registering maximum and minimum dry bulb thermometers were added in order to compare their readings on each day with the measures of the highest and lowest points on the thermograms.

Another set of self registering thermometers, dry bulb and wet bulb, are mounted on a wooden stand in the south-east corner of the Principal Computing Room; they are placed between two open windows and are usually in a current of air. The minimum thermometers are used also for observation of the temperature of the air, and of evaporation at 6^h, 9^h, 13^h, and 15^h. From the establishment of the Observatory until the introduction of the Thermograph this was considered the Standard Thermometer Exposure.

On 1883 February 1 maximum and minimum dry bulb thermometers were mounted in a Stevenson screen—No. 2, on the lawn, and on 1891 August 16 a Mason hygrometer was mounted in a similar screen—No. 3, planted 4 feet to the west of No. 2. The minimum thermometer is read at 6^h and the maximum at 15^h; the hygrometer is read at 6^h and 15^h.

The thermometers for eye observations are compared twice a year, near midwinter and midsummer, with a standard thermometer No. 701, specially constructed at the Kew Observatory, and the necessary corrections applied to their readings.

RADIATION THERMOMETERS.—The solar radiation thermometers, Hicks No. 1355333 and Negretti and Zambra 65011, are mounted horizontally on a wooden stand 4 feet from the ground. They are self registering maximum thermometers, enclosed in a glass jacket from which the air has been exhausted; their bulbs and part of the stem are covered with lamp black; they are read daily at 15^h. A discussion of the errors of these thermometers is given in former volumes.

The terrestrial radiation thermometer, Hicks No. 8933, is a self-registering spirit minimum thermometer, the stem of which is protected by a glass jacket. It is mounted on a metal stand 6 inches above the ground, and is read daily at 6^h.

EARTH THERMOMETERS.—The earth thermometers Casella Nos. 12380 and 109087 are of the pattern described by the late Mr. G. J. Symons in the *Quarterly Journal of the Royal Meteorological Society*, Vol. III. They are suspended in iron pipes let into the ground, and their bulbs are respectively 62 inches and 120 inches below the surface. Both are read daily at 9^h.

RAINGAUGES.—The raingauge used as a standard is of the Glaisher pattern. Its receiving surface is 8 inches in diameter and 10 inches above the ground; it is read daily at 9^h.

Since 1887 May 1 the amount of rain has also been recorded automatically by a Beckley pluviograph, described by the late Professor Balfour Stewart at a meeting of the British Association for the Advancement of Science held at Exeter in the year 1869. Its receiving surface is 11·283 inches in diameter and 23 inches above the ground. Since 1899 August 12, an ink record on Willesden paper has been obtained; formerly it was made by a pencil on Zylonite paper.

EVAPOROMETER.—The daily amount of evaporation is obtained from the readings of an evaporometer by Negretti and Zambra. The instrument consists of a cylindrical brass vessel, 8 inches in diameter and 4 inches deep, surrounded by a wire cage. The amount of water in the vessel is measured usually once every three days at 9^h, and the difference between two successive readings, after making due allowance for any rain which may have fallen and for water added or removed, gives the amount of water evaporated in the interval.

OZONOMETER.—The ozonometer is of the pattern recommended by Sir James Clarke, and is suspended at an open window in the Principal Computing Room. It consists of a double cylindrical wire gauze cage 10 inches high, the outer cage being $6\frac{1}{2}$ inches in diameter, and the inner cage $3\frac{1}{2}$ inches. The test paper, which is placed on a hook projecting from the lid, is changed daily at 9^h, and the amount

of ozone determined by the discoloration of the paper, compared with a scale of graduated tints numbered from 0–10.

SUNSHINE RECORDER.—The instrument used for recording the duration of sunshine is an improved form of the Campbell-Stokes sunshine recorder, described in the *Quarterly Journal of the Royal Meteorological Society*, Vol. VI. The half ring for supporting the paper is fixed at right angles to a semi-circular strip of gunmetal, graduated to degrees on its eastern side and slotted on its western side. Binding screws project from the north and south poles of the graduated circle, and working into small brass cups keep the glass sphere at its proper distance from the paper. The whole is supported on a slab of slate by a clamp, which holds the graduated circle in position, and admits of adjustment for any desired latitude. The obstruction caused by the half ring (the ends of which are not cut parallel to the horizon) is insignificant, though somewhat greater in summer than in winter. Under favourable atmospheric conditions the instrument will record from about 8 minutes after sunrise, until 8 minutes before sunset in June, while in December no record is obtained within about 20 minutes of sunrise and sunset.

On account of an obstruction caused shortly before sunset by the north-western dome when the sun's declination is greater than about 5° North, on 1900 August 17 the instrument was moved from its central position on the roof of the Main Building and planted 11 feet to westward, on a pedestal 9 feet high.

ACTINOMETER.—The actinometer is of the pattern described by the late Professor Balfour Stewart (*Nature*, Vol. XIII., page 118), and admits of observation of the heating effect of the sun upon a sensitive thermometer. The observations are made near to apparent noon, when the sky in the neighbourhood of the sun is free from cloud; they consist of alternately shading and exposing the bulb of the thermometer for exactly 2 minutes, and noting the reading at the instant of opening and closing the shutter, care being taken to keep the vertical and horizontal circles adjusted to the correct altitude and azimuth, so that the image of the sun falls centrally on the bulb of the thermometer during exposure.

The self-recording meteorological instruments, barograph, thermograph, and anemograph, are of the Kew pattern, and are described in the *Annual Report of the Meteorological Committee of the Royal Society* for the year 1867.

§ VI.—*Meteorological Reductions.*

The continuous records of barometric pressure, temperature of the air and of evaporation, direction and velocity of the wind, the duration of sunshine, and the amount of rainfall, are measured at each hour of the day from 0^h to 23^h, Mauritius civil time, and daily and hourly means formed for each month.

The eye observations of the standard barometer and of the standard dry bulb and wet bulb thermometers furnish mean monthly corrections to the photographic measures at 6^h, 9^h, 13^h, and 15^h; the corrections for intermediate hours being found by interpolation. As regards daily corrections, the mean of the 24 hourly corrections in each month is applied to the mean daily values of dry-bulb and wet-bulb temperatures as derived from the photographs; but in dealing with the measures of the barograms it is necessary to apply separate corrections for each day, as the ordinates are not measured from a fixed base-line the zero of the tabulator being set to make the photographic reading at 9 a.m. coincident with the eye observation at that hour. In practice the mean of the corrections at 6^h, 9^h, 13^h, and 15^h is employed, provided that the mean of the monthly corrections at these hours is sensibly the same as the mean of the 24 hourly corrections, which is usually the case; otherwise a constant correction is applied to each daily value in the month.

The mean daily values of atmospheric pressure, temperature of the air and of evaporation, and wind velocity given in columns 1, 5, 6, and 21 of the "Daily Results of Meteorological Observations" are computed by the formula:

$$x = \left(\frac{x_0 + x_{24}}{2} + x_1 + x_2 + x_3 \ldots\ldots x_{23}\right) \div 24,$$

in which x_0, x_1, x_2, x_3 . . . . . x_{24} represent the value of the element at the hours 0, 1, 2, 3 . . . . . 24, Mauritius civil time. This formula gives results differing from the mean of the twenty-four values from 0^h to 23^h by the quantity $\frac{x_{24} - x_0}{48}$, the mean value of which in each month of the year 1900 for the several elements, irrespective of sign, was as follows:—

Element. / Month.	Atmospheric Pressure.	Temperature		Wind Velocity. Miles per Hour.
		Of the Air.	Of Evaporation.	
	in.	°	°	
January	0·00046	0·022	0·018	0·042
February	0·00051	0·027	0·031	0·045
March	0·00069	0·027	0·023	0·053
April	0·00069	0·021	0·027	0·054
May	0·00057	0·052	0·053	0·068
June	0·00055	0·048	0·050	0·062
July	0·00064	0·043	0·036	0·047
August	0·00063	0·064	0·055	0·055
September	0·00048	0·072	0·057	0·045
October	0·00055	0·039	0·025	0·056
November	0·00053	0·048	0·035	0·043
December	0·00049	0·041	0·033	0·058
Year	0·00057	0·042	0·037	0·052

The daily maximum and minimum temperature given in columns 2 and 3 are the highest and lowest points on each day's thermogram, duly corrected for instrumental error.

The mean daily temperature of the dew point, vapour tension, and degree of humidity are deduced directly from the mean daily temperature of the air and of evaporation, by the aid of Glaisher's *Hygrometrical Tables*, and are not the means of hourly values.

The amount and duration of rainfall, given in columns 12 and 13, refer to the civil day; they are derived from the records of the Beckley pluviograph.

The amount of ozone is observed daily at 9^h, and to obtain the amount for each civil day, given in column 14, three-eighths of the amount observed at 9^h is added to five-eighths of the amount observed on the following day; thus for January 1 three-eighths of the amount observed at 9^h on that day is added to five-eighths of the amount observed at 9^h on January 2.

The mean daily amount of cloud is the mean of observations made at 6^h, 9^h, 13^h, and 15^h of the total amount of cloud, on a scale of 0–10, 0 representing a clear sky and 10 an overcast sky. In the monthly abstracts on pages (xxx) and (xxxi) the mean amounts of upper and lower clouds are given separately, the former including all varieties above the altitude of strato-cirrus.

The mean daily direction and velocity of the wind, given in columns 18 and 19, are computed from the mean daily North and East Components as derived from the hourly measures of the anemograms. The azimuth rotation adopted for the direction of the wind is from South (0°) through East (90°), North (180°) and West (270°): the values indicate the azimuth of the direction *from which* the wind blows. In column 20 is given the mean daily velocity of the wind, as recorded by the anemometer, irrespective of direction. For the sake of continuity no corrections have been applied to the recorded velocities on account of the use of Dr. Robinson's factor (3) in the construction of the scale.

The abbreviations under the heading "Weather" have the following significance:—

b	denotes	blue sky, cloudless.	*o*	denotes	overcast.
c	,,	partially cloudy.	*p*	,,	passing showers.
d	,,	drizzle.	*q*	,,	squally.
f	,,	fine.	*r*	,,	continuous rain.
g	,,	gloomy.	*t*	,,	thunder.
l	,,	lightning.			

The day is divided by colons into 4 parts, from 0^h to 6^h, 6^h to 12^h, 12^h to 18^h, and 18^h to 24^h, except when the same remarks apply to two or more successive periods

of 6 hours, in which case the position of the colon indicates to what portion of the day the remarks apply. If in any division different types of weather are included, it is to be understood that they occurred in the order indicated.

In the Table of "Monthly Results," pp. (xxx) and (xxxi), the rain collected in the Glaisher Gauge is measured at 9 a.m.; but due allowance is made, with the aid of the Beckley pluviograph, for rain which falls between 0^h and 9^h on the first day of each calendar month, in order to obtain the true monthly fall. The Amount of Evaporation is the amount of water evaporated from a shallow vessel exposed on the lawn; the gauge is read usually once in three days at 9^h, and in order to include as far as possible the correct amount in each month the proper proportion of the first reading in the month is set down to the last day of the preceding month.

The table of highest and lowest barometer readings page (xxxii) has been compiled from the photographic records of the barograph corrected for diurnal variation, and reduced to 32° Fahrenheit. It exhibits the gradual increase and decrease of pressure produced by the passage of "highs" and "lows," without the minor fluctuations.

The Wind Table, pages (xlii) and (xliii), has been compiled from the records of the Beckley anemograph, and exhibits all changes in the direction of the wind amounting to, or exceeding, 2 points; it is to be understood, however, that gradual changes of direction from day to day are not included, as such changes are shown by the directions given in the Table of "Daily Results."

In reducing the actinometric observations, the results of which are given on page (xliv), it is assumed that the loss of heat from radiation and convection during the exposure to the sun's rays is equal to the mean of the loss during the two minutes before and after exposure. Thus supposing P to be the heating effect for an exposure of two minutes, r and r_1 the fall of temperature in the two minutes before and after exposure respectively, and R the rise of temperature during exposure, then

$$P = R + \frac{r + r_1}{2}.$$

The values of P given in column 2 of page (xliv) are the means of from 3 to 7 consecutive determinations, and to reduce each value to what it would have been with the sun in the zenith and at its mean distance from the earth, and the atmospheric pressure equal to 30 inches of mercury, the following formula has been employed:

$$P_0 = \frac{P_0}{x^{\rho\beta\delta}}$$

where ρ is the radius vector of the earth, x the coefficient of transmissibility of the air, β the ratio which the atmospheric pressure at time of observation bears to a

constant pressure of 30 inches of mercury, and δ the secant of the mean zenith distance of the sun during the observation.

From the numbers given in the last column it will be seen that the transmissibility of the air is affected by its relative humidity, an increase of 1 per cent. producing a corresponding decrease of about $0^\circ \cdot 026$ in the value of P_0.

The Rainfall Tables, pages (xlv) to (xlviii), have been compiled from information kindly furnished by the proprietors of Sugar Estates, and other amateur observers. An asterisk denotes that the value given has been inferred from the returns of one or more neighbouring estates. When for any station the returns are incomplete, the mean annual rainfall is given but not included in the formation of the average annual rainfall for all Stations, which is comparable with the value given for the year 1900.

T. F. CLAXTON.

ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

MAGNETICAL OBSERVATIONS.

1900.

TABLE I.—DIURNAL RANGE of MAGNETIC DECLINATION on each CIVIL DAY as derived from the TWENTY-FOUR HOURLY MEASURES of ORDINATES of the PHOTOGRAPHIC REGISTER.

1900.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	′	′	′	′	′	′	′	′	′	′	′	′
1	5·0	6·6	5·0	7·5	3·1	3·4	2·5	4·7	5·1	6·3	5·5	3·2
2	7·0	7·3	7·7	9·4	4·5	3·2	2·5	3·8	6·7	6·1	3·9	6·8
3	8·0	6·6	8·9	11·4	3·8	2·7	2·7	5·5	5·9	7·6	4·6	6·8
4	11·7	6·3	8·1	8·1	7·2	2·7	3·7	6·8	6·6	5·8	4·0	6·3
5	11·7	7·9	7·4	6·7	6·2	3·0	3·5	4·8	7·6	5·9	6·2	5·2
6	6·6	7·3	7·2	5·5	4·7	2·9	4·0	5·2	7·9	5·0	10·2	5·8
7	7·0	6·9	3·3	4·7	7·5	3·7	4·9	4·8	4·6	6·4	11·5	10·4
8	7·1	6·7	6·2	6·3	7·7	3·4	5·9	4·3	7·4	8·7	11·9	7·1
9	5·0	5·5	3·8	6·5	5·7	2·8	4·2	6·3	5·8	8·1	9·2	8·0
10	5·6	3·5	4·4	2·3	5·1	2·9	4·2	4·8	6·5	7·5	6·2	8·2
11	2·6	3·1	5·1	2·8	4·4	2·6	6·0	7·5	5·1	5·9	6·9	6·2
12	3·6	5·8	5·6	3·6	4·1	2·0	4·4	4·3	6·5	5·9	9·2	5·0
13	6·1	8·7	..	5·1	2·5	3·4	4·8	6·0	8·3	7·4	6·0	4·7
14	8·5	10·0	5·8	6·3	4·5	3·6	3·8	5·7	6·9	6·8	5·8	4·0
15	7·9	9·7	2·5	4·7	4·0	2·8	2·9	5·3	7·5	6·0	6·0	4·7
16	10·1	10·5	4·7	7·6	5·1	2·5	4·0	5·0	5·8	7·6	4·3	3·0
17	5·5	10·0	6·3	7·1	4·2	1·7	4·0	4·3	9·0	4·3	9·0	4·3
18	7·5	9·8	6·8	6·2	3·5	3·4	5·3	6·3	4·3	3·9	8·2	3·9
19	6·3	8·5	3·7	6·2	5·3	2·9	4·7	3·0	7·0	3·2	6·1	4·0
20	9·5	10·4	7·7	6·9	4·6	3·4	5·7	4·9	6·8	5·4	6·7	3·9
21	3·7	9·4	6·9	6·4	2·2	3·6	4·9	5·8	6·7	4·5	10·7	8·2
22	7·3	6·8	8·5	6·4	4·3	3·0	4·0	5·5	6·9	8·2	9·4	6·2
23	6·7	5·4	8·9	6·7	5·7	2·9	6·3	9·3	5·9	6·4	10·9	7·8
24	6·1	5·9	7·3	5·7	4·8	2·5	4·5	5·9	7·1	8·1	11·0	9·8
25	5·9	3·3	9·1	4·9	3·3	2·6	4·7	6·4	8·5	7·9	9·4	6·4
26	7·5	4·0	7·3	3·9	3·6	3·4	4·8	6·0	6·1	5·4	8·0	5·0
27	3·5	5·3	4·7	3·5	3·6	3·3	5·0	8·2	7·4	5·8	9·2	5·4
28	6·6	5·6	6·3	4·3	5·2	2·9	7·2	5·9	6·5	5·2	5·5	5·1
29	4·2		7·1	6·1	3·6	3·2	4·6	6·1	5·6	6·0	7·8	6·8
30	3·9		5·8	5·2	3·4	2·1	4·6	5·9	8·2	6·8	7·0	4·2
31	4·8		2·3		3·4		4·3	5·9		5·3		
Mean	6·5	7·0	6·1	5·9	4·5	2·9	4·5	5·6	6·7	6·2	7·7	5·9

TABLE II.—MONTHLY MEAN DIURNAL INEQUALITY of MAGNETIC DECLINATION WEST.
(The results in each month are diminished by the smallest hourly value.)

1900.

Hour. M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midn.	3·1	2·9	3·0	2·2	1·8	1·1	2·0	2·6	2·5	3·0	3·7	2·4	2·34
1h	3·2	3·0	3·1	2·3	1·8	1·1	2·0	2·5	2·6	3·1	3·9	2·5	2·41
2	3·3	3·0	3·1	2·3	1·7	1·0	1·9	2·5	2·7	3·1	3·9	2·6	2·41
3	3·5	3·2	3·4	2·5	1·9	1·1	1·9	2·4	2·7	3·2	4·1	2·9	2·55
4	3·5	3·3	3·4	2·5	1·8	1·0	1·8	2·3	2·6	3·3	4·3	3·0	2·55
5	4·1	3·7	3·5	2·6	1·9	1·1	1·8	2·3	2·5	3·5	4·5	3·3	2·72
6	4·6	3·9	3·4	2·4	1·7	1·0	1·7	1·8	1·9	3·2	5·2	3·8	2·70
7	5·4	5·0	3·8	2·4	1·1	0·6	1·2	1·1	1·6	3·9	6·8	4·8	2·96
8	5·1	5·7	5·0	3·7	1·9	0·9	1·4	1·6	2·6	4·8	7·3	4·9	3·56
9	5·0	5·7	5·6	5·1	3·3	1·7	2·5	3·1	4·5	5·3	6·6	4·3	4·21
10	4·5	4·6	5·0	5·3	4·1	2·5	3·8	4·5	5·9	5·4	5·2	3·4	4·34
11	3·5	3·4	3·8	3·9	3·8	2·7	4·1	5·3	6·1	4·8	3·5	2·1	3·74
Noon	2·0	1·9	2·1	1·6	2·7	2·1	3·3	4·9	5·1	3·1	1·6	0·8	2·42
13h	0·8	0·7	0·6	0·4	1·7	1·4	2·2	3·7	3·1	1·1	0·3	0·1	1·16
14	0·0	0·0	0·0	0·0	0·6	0·4	0·8	1·7	1·1	0·0	0·0	0·0	0·20
15	0·2	0·0	0·4	0·2	0·0	0·0	0·0	0·2	0·1	0·3	0·6	0·2	0·00
16	0·8	0·8	1·2	0·6	0·3	0·2	0·3	0·0	0·0	1·4	2·0	0·8	0·52
17	1·7	1·9	2·3	1·5	1·4	1·1	1·5	1·2	1·0	2·5	3·2	1·3	1·54
18	2·1	2·4	2·8	2·3	2·2	1·7	2·5	2·6	2·4	3·0	3·6	1·8	2·27
19	2·5	2·6	3·1	2·6	2·4	1·8	2·8	3·1	2·7	3·1	3·6	2·1	2·52
20	2·6	2·7	3·0	2·5	2·4	1·7	2·7	3·1	2·7	3·0	3·5	2·0	2·48
21	2·7	2·8	3·0	2·5	2·3	1·7	2·7	3·1	2·7	2·9	3·5	2·0	2·48
22	2·8	2·8	2·9	2·4	2·1	1·4	2·4	2·8	2·6	2·9	3·6	2·1	2·39
23	2·9	3·0	3·0	2·3	2·0	1·4	2·3	2·7	2·5	3·0	3·7	2·2	2·40
Mean	2·91	2·87	2·94	2·34	1·95	1·28	2·07	2·55	2·67	3·04	3·67	2·31	2·74

TABLE III.—DIURNAL RANGE of HORIZONTAL MAGNETIC FORCE on each CIVIL DAY as derived from the TWENTY-FOUR HOURLY MEASURES of ORDINATES of the PHOTOGRAPHIC REGISTER.

(The results are given in Metric Measure, the unit in the table being ·000001 of the Centimetre—Gramme—Second Unit.)

1900.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	152	259	375	255	..	212	221	345	218	316	..	301
2	177	142	314	181	430	264	292	203	218	204	184	459
3	142	259	149	186	255	171	185	183	259	148	316	219
4	162	..	103	207	106	290	292	304	345	..	331	301
5	..	..	150	282	..	155	118	152	461	194	255	255
6	390	183	129	362	.	145	189	172	264	168	291	439
7	197	249	150	218	243	217	287	426	157	194	204	..
8	238	148	..	255	291	217	271	573	208	173	250	184
9	233	..	..	372	127	119	159	233	324	245	245	112
10	278	199	285	..	206	232	281	213	238	209	204	367
11	258	..	130	229	227	154	194	350	107	245	235	168
12	451	280	182	277	153	247	220	208	213	219	204	173
13	254	148	..	298	379	221	261	299	229	337	219	168
14	..	260	..	239	300	201	107	299	229	229	168	306
15	..	515	209	219	200	252	214	330	310	179	255	286
16	203	240	157	271	258	206	224	304	345	337	352	229
17	259	312	319	340	263	221	235	218	157	153	158	270
18	243	210	126	330	437	236	127	193	315	240	352	194
19	..	143	194	181	473	159	341	294	249	357	194	209
20	..	220	194	154	231	134	351	279	259	..	250	275
21	..	302	315	250	346	159	260	304	280	117	372	158
22	..	282	489	229	247	262	193	259	275	337	301	117
23	213	149	274	325	351	200	295	253	249	275	214	240
24	284	333	84	282	241	108	330	142	316	342	230	133
25	254	278	253	452	345	128	310	482	199	..	235	326
26	..	123	169	431	225	103	188	380	132	..	194	158
27	239	123	180	378	141	159	188	426	326	250	306	490
28	188	242	254	191	156	277	309	253	356	209	255	230
29	229		302	366	276	323	233	243	112	189	326	301
30	254		223	255	358	241	304	284	209	311	311	219
31	381		319		270		269	218		199		..
Mean	247	233	223	276	269	200	240	285	252	236	256	251

TABLE IV.—MONTHLY MEAN DIURNAL INEQUALITY of HORIZONTAL MAGNETIC FORCE.

(The results are given in Metric Measure, diminished in each case by the smallest hourly value, the unit in the table being ·000001 of the Centimetre—Gramme—Second Unit.)

1900.

Hour.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	37	30	20	18	33	4	11	18	41	13	18	49	15·6
1h	40	52	36	41	39	4	17	34	49	25	24	58	26·2
2	44	63	43	48	47	7	28	44	59	40	33	64	34·6
3	54	73	47	58	50	14	42	53	70	46	42	69	42·8
4	59	82	61	69	53	19	53	65	82	45	44	71	49·9
5	62	86	71	74	59	27	60	84	90	42	47	71	57·7
6	75	88	76	87	77	46	78	109	104	55	45	83	68·2
7	95	81	86	99	108	81	112	143	117	56	41	94	84·0
8	106	82	78	129	145	99	120	167	110	51	39	98	93·3
9	110	75	72	142	181	113	115	178	103	90	57	121	104·4
10	121	91	102	140	201	122	89	161	91	130	106	197	120·5
11	95	104	132	144	201	113	76	138	98	145	131	188	121·7
Noon	59	100	151	183	180	92	92	116	128	145	139	140	118·4
13h	47	88	139	180	129	71	93	94	120	136	126	113	102·6
14	43	73	117	127	85	47	65	87	53	117	97	85	74·3
15	25	61	85	72	41	23	24	57	0	67	58	37	37·1
16	25	43	49	27	0	6	0	13	9	32	30	0	10·8
17	41	37	27	14	1	16	14	0	25	16	24	20	10·9
18	30	22	23	24	18	31	38	23	39	14	17	32	17·2
19	15	18	22	24	13	20	31	23	41	8	13	33	13·0
20	11	10	18	9	12	17	17	15	26	3	0	31	5·4
21	0	0	0	1	9	8	8	23	21	0	6	28	0·0
22	0	5	0	0	15	6	5	16	23	1	9	30	0·5
23	26	14	7	9	24	0	7	9	34	10	12	44	7·6
Mean	50·8	57·4	60·9	71·6	71·7	41·1	49·8	69·6	63·9	53·6	48·2	73·2	50·7

TABLE V.—MEAN TEMPERATURE for each CIVIL DAY within the Glass Shade covering the HORIZONTAL FORCE MAGNET.

1900.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	82·8	83·8	83·9	82·9	81·4	79·0	75·4	74·3	75·0	75·7	77·2	79·4
2	82·8	83·8	83·8	83·0	81·4	79·0	75·4	74·3	75·0	75·9	77·3	79·8
3	82·3	83·7	83·4	82·8	81·1	79·0	75·4	74·4	75·1	75·9	77·4	79·7
4	82·4	83·7	83·3	82·6	80·8	79·2	75·4	74·5	74·8	76·1	77·7	79·7
5	82·4	83·6	83·4	82·6	80·5	79·2	75·3	74·5	74·9	76·1	77·7	79·8
6	82·5	83·5	83·4	82·7	80·2	79·2	75·3	74·6	75·2	76·2	77·6	80·0
7	82·6	83·8	83·4	82·8	80·2	79·1	75·4	74·9	75·1	76·4	77·6	80·0
8	82·5	84·0	83·4	82·9	80·1	79·0	75·4	74·9	75·0	76·4	77·6	80·1
9	82·6	84·0	83·3	82·9	80·3	79·0	75·8	74·8	75·2	76·6	77·8	80·2
10	82·7	83·5	83·2	82·8	80·4	79·1	75·6	74·5	75·4	76·4	77·9	80·4
11	83·0	83·6	83·4	82·8	80·4	79·1	75·7	74·3	75·3	76·6	78·0	80·3
12	83·0	83·7	83·4	82·4	80·4	79·3	75·6	74·4	75·4	76·4	78·1	80·4
13	83·0	83·8	83·4	82·3	80·5	79·2	75·6	74·2	75·4	76·7	78·1	80·5
14	83·1	83·7	83·6	82·2	80·8	79·1	75·4	74·4	75·3	76·7	78·4	81·0
15	83·1	83·7	83·5	82·1	80·7	79·0	75·6	73·8	75·3	76·8	78·4	81·1
16	83·1	83·8	83·8	82·2	80·8	78·7	75·6	74·0	75·2	76·9	78·4	81·1
17	83·3	83·9	83·9	82·2	80·7	78·0	75·6	74·0	75·0	77·0	78·6	81·3
18	83·3	83·8	83·9	82·2	80·4	77·5	75·4	74·2	75·0	76·9	78·7	81·3
19	83·4	83·9	84·0	82·0	79·9	77·2	75·4	74·2	75·0	77·0	78·7	81·2
20	83.4	84·1	84·0	81·8	79·8	76·7	75·4	74·2	75·4	76·8	78·8	81·3
21	83·5	84·1	84·0	81·8	79·8	76·3	75·3	74·2	75·4	77·1	78·9	81·3
22	83·7	84·0	84·1	82·0	79·4	76·3	75·1	74·4	75·6	77·0	79·0	81·2
23	83·8	84·2	84·0	82·1	79·4	76·3	74·8	74·5	75·8	77·1	79·1	81·3
24	83·7	84·1	84·2	82·3	79·5	76·5	74·7	74·8	75·6	77·1	79·2	81·5
25	83·8	84·0	83·9	82·3	79·3	76·3	74·7	74·6	75·5	77·0	79·2	81·4
26	83·8	84·0	84·2	82·3	79·4	76·2	74·6	74·8	75·4	77·1	79·2	81·6
27	83·8	84·0	83·7	82·2	79·3	76·1	74·5	74·8	75·4	77·2	79·2	81·6
28	83·8	84·0	83·3	82·1	79·1	75·7	74·5	74·8	75·5	77·1	79·1	81·7
29	83·8		83·3	81·7	79·1	75·5	74·4	74·8	75·6	77·2	79·2	81·7
30	83·8		83·3	81·7	79·2	75·0	74·4	74·9	75·6	77·2	79·4	82·0
31	83·8		83·2		79·1		74·4	75·0		77·3		82·2
Mean	83·2	83·8	83·6	82·4	80·1	77·8	75·2	74·5	75·3	76·7	78·4	80·8

TABLE VI.—MEAN TEMPERATURE for each CIVIL DAY within the Glass Shade covering the VERTICAL FORCE MAGNET.

1900.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	82·7	83·9	83·7	82·9	81·3	78·9	75·3	74·2	75·0	75·7	77·2	79·5
2	82·8	83·7	83·7	83·0	81·2	78·9	75·4	74·2	74·9	75·9	77·2	79·8
3	82·3	83·8	83·3	82·8	80·9	78·9	75·2	74·3	75·0	75·9	77·4	79·8
4	82·4	83·6	83·2	82·6	80·7	79·0	75·3	74·5	74·8	76·0	77·7	79·7
5	82·4	83·5	83·2	82·6	80·4	79·0	75·3	74·5	74·9	76·1	77·7	79·8
6	82·5	83·5	83·2	82·7	80·2	79·0	75·3	74·6	75·2	76·0	77·6	80·1
7	82·6	83·8	83·2	82·8	80·1	79·0	75·3	74·9	75·2	76·4	77·6	80·1
8	82·5	83·9	83·3	82·8	80·1	79·0	75·4	74·9	75·0	76·4	77·6	80·1
9	82·6	83·9	83·2	82·8	80·2	79·0	75·7	74·8	75·0	76·6	77·7	80·2
10	82·8	83·5	83·3	82·7	80·2	79·0	75·6	74·5	75·3	76·4	77·9	80·5
11	82·9	83·7	83·3	82·7	80·2	79·2	75·6	74·3	75·2	76·6	78·1	80·3
12	83·0	83·7	83·3	82·3	80·2	79·2	75·6	74·3	75·2	76·5	78·0	80·4
13	83·0	83·8	83·4	82·2	80·4	79·1	75·6	74·2	75·2	76·7	78·1	80·6
14	83·1	83·8	83·6	82·1	80·7	79·0	75·4	74·2	75·2	76·8	78·4	81·0
15	83·0	83·8	83·5	81·9	80·7	78·9	75·6	73·8	75·2	76·8	78·4	81·3
16	83·1	83·8	83·8	82·0	80·8	78·7	75·6	74·0	75·2	76·7	78·4	81·0
17	83·2	83·9	84·0	82·2	80·7	78·0	75·6	74·0	75·0	77·0	78·6	81·2
18	83·2	83·8	83·9	82·1	80·4	77·5	75·4	74·1	75·0	77·0	78·6	81·2
19	83·2	84·0	84·0	81·9	80·0	77·2	75·3	74·1	75·0	77·0	78·7	81·1
20	83·4	84·1	84·0	81·8	79·9	76·7	75·2	74·2	75·4	76·9	78·8	81·1
21	83·6	84·0	83·9	81·8	79·7	76·2	75·2	74·2	75·4	77·0	78·9	81·1
22	83·7	84·0	84·0	82·0	79·3	76·3	75·0	74·4	75·6	77·0	79·0	81·1
23	83·8	84·1	84·0	82·0	79·4	76·3	74·7	74·5	75·8	77·0	79·2	81·3
24	83·7	84·0	84·2	82·2	79·4	76·4	74·6	74·8	75·6	77·0	79·2	81·5
25	83·8	84·0	84·0	82·2	79·2	76·2	74·7	74·6	75·5	76·9	79·2	81·6
26	83·8	84·0	84·2	82·1	79·2	76·1	74·5	74·8	75·3	77·0	79·1	81·6
27	83·8	83·9	83·7	82·1	79·2	76·1	74·4	74·7	75·2	77·2	79·2	81·6
28	83·8	83·8	83·3	82·0	79·0	75·7	74·3	74·8	75·4	77·1	79·0	81·8
29	83·8		83·3	81·6	79·0	75·4	74·3	74·8	75·4	77·2	79·0	81·8
30	83·8		83·3	81·6	79·0	75·1	74·2	74·9	75·6	77·2	79·3	81·9
31	83·9		83·2		79·0		74·2	75·0		77·3		82·1
Mean	83·2	83·8	83·6	82·3	80·0	77·8	75·1	74·5	75·2	76·7	78·4	80·8

TABLE VII.—DIURNAL RANGE of VERTICAL MAGNETIC FORCE, on each CIVIL DAY, as derived from the TWENTY-FOUR HOURLY MEASURES of ORDINATES of the PHOTOGRAPHIC REGISTER.

(The Results are given in Metric Measure, the unit in the table being ·000001 of the Centimetre—Gramme—Second Unit.)

1900.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	106	..	175	307	186	330	106	218	234	192	66	147
2	189	184	193	223	84	120	170	256	177	241	210	198
3	207	117	202	339	139	170	148	262	114	248	165	160
4	290	140	262	116	239	141	254	307	178	284	238	169
5	202	162	193	229	212	141	148	156	312	178	..	123
6	133	153	230	177	175	182	159	208	248	405	171	260
7	138	144	133	134	251	182	223	228	241	298	293	325
8	110	144	170	227	232	224	360	175	334	284	220	66
9	97	122	138	204	158	245	212	383	433	206	232	158
10	115	94	106	92	197	143	233	211	270	312	238	152
11	83	72	166	192	132	143	265	376	362	213	91	172
12	55	94	..	131	169	194	212	218	305	227	192	125
13	101	243	..	201	190	237	233	356	284	170	149	238
14	115	230	..	170	209	206	223	295	199	128	124	134
15	267	185	..	188	162	175	201	..	206	170	236	241
16	336	230	..	247	240	196	212	188	284	..	124	127
17	106	301	129	118	250	113	85	121	270	130	299	188
18	239	167	115	186	134	239	159	147	114	106	192	75
19	175	189	..	206	146	83	159	102	291	165	192	122
20	101	279	278	175	136	270	223	177	256	177	205	68
21	147	288	225	252	107	208	159	156	305	177	265	177
22	143	148	278	134	186	125	244	156	241	189	176	88
23	221	153	150	154	235	178	350	262	263	124	250	172
24	166	153	203	182	176	294	276	186	334	156	189	352
25	87	130	289	181	238	210	265	290	213	132	189	186
26	175	158	161	123	208	200	233	207	305	246	214	131
27	64	184	203	188	208	159	201	350	234	84	265	112
28	166	140	139	169	248	159	297	266	199	156	139	77
29	156		160	223	130	212	201	273	234	120	77	105
30	115		235	186	120	318	307	210	284	132	186	98
31	110		203		290		233	168		150		147
Mean	152	171	189	188	187	193	218	230	257	193	193	158

TABLE VIII.—MONTHLY MEAN DIURNAL INEQUALITY of VERTICAL MAGNETIC FORCE.

(The results are given in Metric Measure, diminished in each case by the smallest hourly value, the unit in the table being ·000001 of the Centimetre—Gramme—Second Unit.

1900.

Hour.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	90	111	150	99	85	90	110	133	129	105	112	54	99·9
1h	87	106	147	97	84	90	109	130	129	102	114	54	98·3
2	85	103	142	91	80	91	109	129	127	100	114	53	96·2
3	83	100	141	92	78	93	106	128	127	98	116	55	95·6
4	82	99	137	90	78	96	106	130	128	104	119	55	96·2
5	84	101	135	94	82	100	109	131	132	109	123	62	99·4
6	93	106	133	94	82	105	112	132	127	113	144	76	104·0
7	99	122	147	99	78	99	107	128	139	131	172	96	112·3
8	93	129	191	146	103	109	118	149	169	146	164	95	128·5
9	95	117	186	163	140	146	165	194	222	168	146	86	146·5
10	79	84	138	146	140	145	184	209	234	163	102	57	134·3
11	48	46	90	87	94	111	160	190	204	130	56	20	97·2
Noon	20	14	30	23	58	61	112	139	144	71	15	10	52·3
13h	0	0	0	0	30	19	50	78	58	19	0	5	15·8
14	2	3	7	6	10	0	7	18	2	0	15	0	0·0
15	14	19	37	23	0	1	0	0	0	22	34	2	6·9
16	32	47	74	43	24	29	38	32	24	60	72	17	35·2
17	48	74	101	71	61	67	84	83	60	79	88	19	63·8
18	55	83	118	88	82	95	111	122	103	92	95	27	83·5
19	64	88	126	97	92	97	114	130	113	92	98	38	89·9
20	72	96	133	97	94	100	113	133	121	95	101	41	93·9
21	77	101	139	105	94	97	116	134	126	98	105	46	97·4
22	87	108	152	103	90	95	114	134	132	104	109	51	100·8
23	88	112	154	100	94	94	114	134	131	105	111	54	101·8
Mean	65·7	82·0	117·0	85·6	77·2	84·6	102·8	121·7	120·0	96·1	96·9	44·7	85·4

TABLE IX.—DETERMINATIONS of ABSOLUTE MAGNETIC DECLINATION in the YEAR 1900.

Mauritius Civil Time 1900.	Observer.	Circle Reading.	Correction to Zero Reading.	Correction for Torsion.	Circle Reading Corresponding to Zero.	Circle Reading of South Astronomical Meridian.	Corrected Declination (West).	Ordinate at Time of Observation.	Observed Value of the Base Line.	Monthly Value of the Base Line.	Adopted Monthly Value of the Base Line.	Mean Ordinate for the Month.	Mean Monthly Declination (West).
d h m		° ′	′	′	° ′	° ′	° ′	′	° ′	° ′	° ′	′	° ′
Jan. 3.11.26	F.	76.41·56	+13·00	−0·34	76.54·22	86.28·48	9.34·26	26·10	9. 8·16				
11. 8.37	O.	76.42·83	+12·61	+0·70	76.56·14	86.28·92	9·32·78	25·10	9. 7·68	9.6·64	9.6·55	26·28	9.32·83
20.13.48	W.	76.53·53	+13·0:	−1·12	77. 5·42	86.28·37	9.22·95	20·00	9. 2·95				
25.12.40	F.	76.44·17	+11·28	+0·67	76.56·12	86.28·80	9.32·68	24·90	9. 7·78				
Feb. 3. 8.32	O.	76.41·33	+12·77	−0·82	76.53·28	86.28·35	9.35·07	28·90	9. 6·17				
10. 9.30	F.	76.44·95	+12·53	+1·43	76.58·91	86.27·46	9.28·55	22·90	9. 5·65	9.6·69	9.6·31	24·94	9.31·25
17.11.17	F.	76·40·11	+11·11	+0·69	76.51·91	86.27·81	9.35·90	27·20	9. 8·70				
24.11.48	O.	76.46·70	+12·65	−0·65	76.58·70	86.27·83	9.29·13	22·90	9. 6·23				
March 2. 9.20	F.	76.41·28	+12·44	+0·77	76.54·49	86.27·85	9.33·36	27·90	9. 5·46				
10.10.36	W.	76.45·30	+13·18	+0·76	76.59·24	86.28·62	9.29·38	25·90	9. 3·48	9.5·24	9.5·85	25·12	9.30·97
17. 9.50	F.	76.41·89	+12·69	+1·32	76.55·90	86.28·71	9.32·81	26·50	9. 6·31				
24.12.39	O.	76.47·61	+12·92	+1·00	77. 1·53	86.28·55	9.27·02	21·30	9. 5·72				
April 2.11.30	F.	76.42·68	+12·00	+0·97	76.55·65	86.29·40	9.33·75	27·00	9. 6·75				
10. 9. 5	O.	76.44·00	+11·44	+0·89	76.56·33	86.29·46	9.33·13	26·00	9. 7·13	9.6·23	9.5·82	23·99	9.29·81
21. 9.22	W.	76.43·36	+11·88	+0·98	76.56·22	86.28·42	9.32·20	27·70	9. 4·50				
25.12.24	F.	76.47·94	+11·14	+0·51	76.59·59	86.29·92	9.30·33	23·80	9. 6·53				
May 1.12.30	F.	76.49·28	+10·47	0·00	76.59·75	86.28·92	9.29·17	22·50	9. 6·67				
5.10.50	F.	76.46·33	+12·06	−0·82	76.57·57	86.28·92	9.31·35	25·00	9. 6·35				
12. 9.47	W.	76.39·10	+14·28	+2·78	76.56·16	86.27·75	9.31·59	25·70	9. 5·89	9.5·58	9.6·09	22·79	9.28·88
19.10.35	W.	76.42·50	+13·99	−0·45	76.56·04	86.27·59	9.31·55	26·00	9. 5·55				
24.14.16	O.	76.47·11	+13·69	+0·78	77. 1·58	86.25·50	9.23·92	20·50	9. 3·42				
June 4.11.25	F.	76.41·39	+14·58	−0·86	76.55·11	86.28·73	9.33·62	23·50	9.10·12				
11.12.57	O.	76.46·78	+12·86	+1·27	77. 0·91	86.28·37	9.27·46	21·00	9. 6·46	9.6·98	9.6·87	21·78	9.28·65
21.11.10	W.	76.45·50	+13·77	+1·02	77. 0·29	86.26·87	9.26·58	23·20	9. 3·38				
26.11.21	F.	76.44·94	+13·53	−0·54	76·57·93	86.27·68	9.29·75	21·80	9. 7·95				

The initials W., F., and O. are those of Messrs. Walter, Figon, and Olivier, respectively.

TABLE IX.—*continued*—DETERMINATIONS of ABSOLUTE MAGNETIC DECLINATION in the YEAR 1900.

Mauritius Civil Time 1900.	Observer.	Circle Reading.	Correction to Zero Reading.	Correction for Torsion.	Circle. Reading corresponding to Zero.	Circle Reading of South Astronomical Meridian.	Corrected Declination (West).	Ordinate at Time of Observation.	Observed Value of the Base Line.	Monthly Value of the Base Line.	Adopted Monthly Value of the Base Line.	Mean Ordinate for the Month.	Mean Monthly Declination (West).
		° ′	′	′	° ′	° ′	° ′	′	° ′	° ′	° ′	′	° ′
July d h m 3.14.18	O	76.40·33	+15·45	+1·27	76.57·05	86.28·52	9.31·47	20·40	9.11·07				
14. 8.28	W.	76.43·29	+14·66	0·00	76.57·95	86.25·00	9.27·05	20·70	9. 6·35	9.7·60	9.6·91	21·33	9.28·24
20. 9.36	F.	76.42·83	+14·03	+0·44	76.57·30	86.26·50	9.29·20	23·10	9. 6·10				
28. 9.48	W.	76.44·75	+13·83	+0·72	76.59.30	86.28·90	9.29·60	22·70	9. 6·90				
Aug. 2.13.40	F.	76.45·67	+14·30	+0·27	77. 0·24	86.29·30	9.29·06	21·70	9. 7·36				
10.13.58	O.	76.47·08	+14·57	−0·33	77. 1·32	86.27·80	9.26·48	22·40	9. 4·08	9.5·68	9.6·37	22·93	9.29·30
18. 7.17	W.	76.44·46	+15·24	0·00	76.59·70	86.26·78	9.27·08	21·70	9. 5·38				
24. 9.41	F.	76.40·37	+15·04	+0·86	76.56·27	86.27·09	9.30·82	24·90	9. 5·92				
Sept. 11.11.36	F.	76.43·46	+15·08	+0·28	76.58·82	86.28·90	9.30·08	25·50	9. 4·58				
15.12.18	O.	76.43·67	+15·08	0·00	76.58·75	86.28·81	9.30·06	24·40	9. 5·66	9.6·00	9.5·76	22·48	9.28·24
20.14.53	O.	76.44·00	+16·34	+0·30	77. 0·64	86.26·56	9.25·92	20·40	9. 5·52				
25. 9.30	F.	76.37·21	+15·13	+0·75	76.53·09	86.27·22	9.34·13	25·90	9. 8·23				
Oct. 3.14.28	O.	76.47·75	+16·18	+0·78	77. 4·71	86.25·72	9.21·01	19·00	9. 2·01				
10. 9.30	F.	76.30·92	+16·11	+1·21	76.48·24	86.25·56	9.37·32	25·40	9.11·92	9.5·80	9.5·47	21·51	9.26·98
20.10.57	W.	76.45·50	+15·87	−0·64	77. 0·73	86.26·15	9.25·42	21·30	9. 4·12				
26.13.56	O.	76.45·67	+16·07	+0·77	77. 2·51	86.26·15	9.23·64	18·50	9. 5·14				
Nov. 3. 9.30	F.	76·44·67	+15·98	−0·58	77. 0·07	86.27·08	9.27·01	23·30	9. 3·71				
13.13.31	O.	76.45·50	+16·05	0·00	77. 1·55	86.27·46	9.25·91	20·30	9. 5·61	9.4·86	9.4·75	21·26	9.26·01
23. 9.40	F.	76.41·00	+15·80	+0·41	76.57·21	86.26·45	9.29·24	23·60	9. 5·64				
30.13.30	W.	76.49·21	+15·71	0·00	77. 4·92	86.27·20	9.22·28	17·80	9. 4·48				
Dec. 4. 9.40	F.	76.41·83	+15·53	+0·43	76.57·79	86.26·55	9.28·76	23·50	9. 5·26				
14.11. 6	W.	76.44·08	+15·48	−0·23	76.59·33	86.25·74	9.26·41	22·70	9. 3·71	9.4·74	9.3·94	21·09	9.25·03
20.14.22	O.	76.46·17	+14·95	+0·31	77. 1·43	86.24·66	9.23·23	18·50	9. 4·73				
24. 9.33	F.	76.41·33	+15·35	+0·58	76.57·26	86.25·52	9.28·26	23·00	9. 5·26				
Mean	..	..	..	..	..	..	..	..	..	..	..	..	9.28·85

The initials W., F., and O. are those of Messrs. Walter, Figon, and Olivier, respectively.

TABLE X.—DETERMINATIONS of the ABSOLUTE VALUE of the HORIZONTAL MAGNETIC FORCE in the YEAR 1900.

Mauritius Civil Time, 1900.		Deflecting Magnet.				Observed Deflection.		Temperature (Cent.).	Observer.
		Observed Time of one Vibration.	Effect of 90° Torsion.	Temperature (Cent.).	Corrected Time of one Vibration	Distance.			
						1·0 Feet.	1·3 Feet.		
	d h	Secs.	′	°	Secs.	° ′ ″	° ′ ″	°	
January	3.13	3·7309	6·47	29·7	3·7166	13.41.20·0	6.11.57·5	30·1	F.
	25.14	3·7288	6·33	31·4	3·7131	13.40.37·5	6.11.45·0	31·7	F.
February	3.12	3·7274	5·64	29·3	3·7131	13.42.55·0	6.12.20·0	28·6	O.
	10.12	3·7319	6·06	29·1	3·7178	13.41. 2·5	6.11.52·5	29·3	F.
	17.14	3·7297	5·98	29·4	3·7155	13.41.22·5	6.11.36·2	29·3	W.
	24.13	3·7291	5·73	30·6	3·7139	13.41.15·0	6.11.32·5	30·5	O.
March	2.12	3·7278	6·57	28·9	3·7142	13.40.20·0	6.11.40·0	30·2	F.
	10.12	3·7305	6·38	27·6	3·7177	13.42.43·7	6·12.32·7	28·4	W.
	17.12	3·7308	5·69	29·8	3·7161	13.40.55·0	6.11.40·0	30·2	F.
	24.14	3·7310	5·92	30·0	3·7163	13.41. 5·0	6.11.45·0	29·0	O.
April	2.13	3·7284	6·10	27·5	3·7156	13.41.17·5	6.12. 2·5	27·3	F.
	10.12	3·7302	6·42	28·6	3·7168	13.41.12·5	6.11.40·0	29·0	O.
	21.12	3·7326	6·31	29·6	3·7183	13.40. 1·2	6.11. 6·2	29·4	W.
	25.14	3·7335	6·36	28·0	3·7204	13.39. 2·5	6.11.15·0	28·8	F.
May	1.13	3·7320	7·25	27·0	3·7200	13.42.15·0	6.12.12·5	26·8	F.
	24.12	3·7300	6·86	25·7	3·7186	13.41.22·5	6.12.10·0	26·2	O.
June	4.13	3·7298	7·58	27·0	3·7178	13.41.15·0	6.11.52·5	27·8	F.
	11.15	3·7300	7·03	27·4	3·7175	13.40.32·5	6.12.10·0	26·6	O.
	22.13	3·7298	8·42	24·7	3·7198	13.42.16·2	6.12. 5·0	22·3	W.
	26.12	3·7281	6·51	23·8	3·7182	13.40.15·0	6.11.35·0	24·3	F.
July	3.12	3·7285	4·62	22·2	3·7189	13.41.37·5	6.12.17·5	22·6	O.
	14.11	3·7336	5·62	22·0	3·7245	13.43. 7·5	6.12.48·7	20·9	W.
	20.12	3·7331	4·72	22·1	3·7236	13.41.25·0	6.11.52·5	23·8	F.
	27.15	3·7312	5·12	23·1	3·7212	13.42.23·7	6.12.13·7	22·5	W.
August	2.13	3·7297	4·63	23·3	3·7193	13.41.20·0	6.11.55·0	23·3	F.
	10.13	3·7298	4·81	21·9	3·7205	13.42.15·0	6.11.50·0	22·1	O.
	17.11	3·7301	5·44	23·1	3·7202	13.41.28·7	6.12.20·0	22·6	W.
	24.12	3·7290	4·88	23·7	3·7185	13.40.47·5	6.12.12·5	23·8	F.
September	11.13	3·7343	5·07	24·7	3·7231	13·41. 0·0	6.12. 0·0	24·7	F.
	15.10	3·7291	5·31	22·2	3·7197	13.41.52·5	6.12.20·0	22·4	O.
	20.14	3·7363	5·07	26·4	3·7239	13.40.15·0	6.11.27·5	26·3	O.
	25.13	3·7321	4·95	25·1	3·7206	13.40. 7·5	6.11.32·5	25·8	F.
October	3.12	3·7298	5·25	24·4	3·7189	13.41.17·5	6.11.48·7	24·5	O.
	10.12	3·7350	5·11	25·4	3·7234	13.40. 2·5	6.11.45.0	25·3	F.
	20.13	3·7304	5·62	26·6	3·7181	13.39.28·7	6.11. 6·2	26·1	W.
November	3.13	3·7357	4·90	28·8	3·7216	13.39.30·0	6.11.37·5	28·3	F.
	13.14	3·7386	3·13	28·2	3·7242	13.40.30·0	6.11.28·7	27·9	O.
	23.12	3·7328	2·89	28·9	3·7178	13·38. 2·5	6.10.47·5	28·6	F.
	29.15	3·7376	3·20	29·1	3·7225	13.40.15·0	6.11. 7·5	28·2	W.
December	5.10	3·7313	4·07	27·8	3·7175	13.40. 7·5	6.10.55·0	27·6	F.
	14.14	3·7372	4·38	30·3	3·7217	13·38.35·0	6.10·42·5	29·6	W.
	20.12	3·7348	4·20	29·4	3·7200	13.38.32·5	6.10.37·5	29·1	O.
	24.12	3·7387	4·12	30·1	3·7232	13·38.15·0	6.10·40·0	30·2	F.

The initials W., F., and O. are those of Messrs. Walter, Figon, and Olivier respectively.

TABLE X.—*continued*—DETERMINATIONS of the ABSOLUTE VALUE of the HORIZONTAL MAGNETIC FORCE during the YEAR 1900.

Mauritius Civil Time, 1900.	In Centimetre—Gramme—Second Units.											Value of Horizontal Force X in Foot—Grain—Second Units.
	log A—log A_1	Apparent Value of P.	Adopted Mean Value of P.	Observed Value of m.	Observed Value of X.	Ordinate at Time of Observation.	Observed Value of the Base Line.	Monthly Value of the Base Line.	Smoothed Monthly Value of the Base Line.	Mean Ordinate for the Month.	Value of Horizontal Force X.	
Jan. d h 3.13	0·00102	−5·34		812·4	0·23827	0·00022	0·23849	0·23873	0·23876	0·00042	0·23834	5·1691
25.14	0·00115	−6·03		813·2	0·23850	0·00048	0·23898					
Feb. 3.12	0·00063	−3·30		813·5	0·23840	0·00062	0·23902	0·23902	0·23898	0·00064	0·23834	5·1691
10.12	0·00109	−5·71		811·9	0·23827	0·00062	0·23889					
17.14	0·00059	−3·09		812·3	0·23844	0·00063	0·23907					
24.13	0·00058	−3·04		812·9	0·23851	0·00059	0·23910					
March 2.12	0·00120	−6·29		812·6	0·23854	0·00062	0·23916	0·23915	0·23909	0·00081	0·23828	5·1678
10.12	0·00098	−5·13		812·5	0·23809	0·00094	0·23903					
17.12	0·00090	−4·72		812·3	0·23838	0·00079	0·23917					
24.14	0·00090	−4·72		812·1	0·23840	0·00084	0·23924					
April 2.13	0·00115	−6·03		812·2	0·23847	0·00070	0·23917	0·23904	0·23905	0·00072	0·23833	5·1689
10.12	0·00074	−3·88		811·9	0·23837	0·00069	0·23906					
21.12	0·00071	−3·72		811·2	0·23843	0·00061	0·23904					
25.14	0·00138	−7·23		810·4	0·23837	0·00052	0·23889					
May 1.13	0·00083	−4·35		811·4	0·23812	0·00103	0·23915	0·23895	0·23890	0·00059	0·23831	5·1685
24.12	0·00124	−6·50		811·4	0·23830	0·00046	0·23876					
June 4.13	0·00098	−5·13		811·7	0·23833	0·00046	0·23879	0·23868	0·23863	0·00027	0·23836	5·1696
11.15	0·00167	−8·75		811·5	0·23842	0·00039	0·23881					
22.13	0·00069	−3·62		810·6	0·23836	0·00005	0·23841					
26.12	0·00115	−6·03		810·6	0·23859	0·00010	0·23869					
July 3.12	0·00126	−6·60	−5·33	810·8	0·23841	−0·00002	0·23839	0·23823	0·23837	0·00006	0·23831	5·1685
14.11	0·00108	−5·66		810·0	0·23795	0·00009	0·23804					
20.12	0·00088	−4·61		809·7	0·23813	0·00007	0·23820					
27.15	0·00079	−4·14		810·5	0·23823	0·00004	0·23827					
August 2.13	0·00096	−5·03		810·6	0·23844	−0·00005	0·23839	0·23835	0·23831	0·00001	0·23832	5·1687
10.13	0·00040	−2·10		810·3	0·23837	−0·00005	0·23832					
17.11	0·00139	−7·28		810·5	0·23834	−0·00010	0·23824					
24.12	0·00158	−8·28		810·9	0·23845	0·00000	0·23845					
Sept. 11.13	0·00124	−6·50		809·9	0·23814	0·00015	0·23829	0·23833	0·23837	0·00010	0·23827	5·1676
15.10	0·00118	−6·18		810·7	0·23835	0·00004	0·23839					
20.14	0·00101	−5·29		809·6	0·23815	0·00007	0·23822					
25.13	0·00117	−6·13		810·2	0·23838	0·00004	0·23842					
Oct. 3.12	0·00087	−4·56		810·8	0·23842	0·00010	0·23852	0·23846	0·23849	0·00024	0·23825	5·1672
10.12	0·00144	−7·54		809·6	0·23820	0·00011	0·23831					
20.13	0·00100	−5·24		810·4	0·23865	−0·00009	0·23856					
Nov. 3.13	0·00158	−8·28		810·4	0·23823	0·00038	0·23861	0·23870	0·23870	0·00040	0·23830	5·1683
13.14	0·00090	−4·72		809·9	0·23803	0·00048	0·23851					
23.12	0·00137	−7·18		810·5	0·23869	0·00023	0·23892					
29.15	0·00062	−3·25		810·1	0·23820	0·00057	0·23877					
Dec. 5.10	0·00043	−2·25		810·9	0·23859	0·00049	0·23908	0·23896	0·23891	0·00063	0·23828	5·1678
14.14	0·00099	−5·19		809·9	0·23837	0·00049	0·23886					
20.12	0·00091	−4·77		810·1	0·23852	0·00040	0·23892					
24.12	0·00113	−5·92		809 6	0·23827	0·00071	0·23898					
Mean	..	..	..	..	..	..	..	..	..	..	0·23831	5·1684

The initials W., F., and O. are those of Messrs. Walter, Figon, and Olivier, respectively.

TABLE XI.—RESULTS OF OBSERVATIONS OF MAGNETIC DIP MADE IN THE MAGNETIC PAVILION IN THE YEAR 1900.

NEEDLE No. 1.

Mauritius Civil Time, 1900.		Poles Direct (A Dipping). Face of Needle to Face of Instrument. Face of Instrument. East.	Poles Direct (A Dipping). Face of Needle to Face of Instrument. Face of Instrument. West.	Poles Direct (A Dipping). Face of Needle to Back of Instrument. Face of Instrument. West.	Poles Direct (A Dipping). Face of Needle to Back of Instrument. Face of Instrument. East.	Poles Reversed (B Dipping). Face of Needle to Face of Instrument. Face of Instrument. East.	Poles Reversed (B Dipping). Face of Needle to Face of Instrument. Face of Instrument. West.	Poles Reversed (B Dipping). Face of Needle to Back of Instrument. Face of Instrument. West.	Poles Reversed (B Dipping). Face of Needle to Back of Instrument. Face of Instrument. East.	Mean.	Observer.
	d	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	.	
..		..	.	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
..		..	..	..	..	..	..	..	..	..	
July	2.14	54.40·3	52. 6·8	55.15·0	52. 3·5	53.21·8	55.59·5	53.47·3	55.56·7	54. 8·9	O.
	31.13	54.43·8	52.36·5	55.14·3	52. 9·0	53. 7·7	56. 4·7	53.40·8	55.45·0	54.10·2	O.
August	2. 9	54.50·3	52.12·2	54.45·4	52.11·3	53.21·2	56.11·5	53.33·3	56. 0·3	54. 8·2	F.
	29.14	54.41·5	52.19·0	55. 9·5	51.49·2	53.17·5	56.21·3	53.50·0	56. 4·2	54.11·5	O.
September	4.14	54.40·2	52.18·7	55.12·5	51.45·0	53.21·5	56.14·7	53.50·5	55.45·5	54. 8·6	O.
	29.10	54.58·7	52.19·3	54.45·2	51.56·6	53.28·0	56. 2·7	53.41·7	55.58·2	54. 8·8	F.
October	2.14	54.31·2	52.39·0	55.11·2	52. 0·0	53.18·7	55.59·3	53.58·0	55.38·5	54. 9·5	O.
	29.12	54.49·7	52.16·0	54.39·5	52.15·2	53.29·5	56. 1·5	53.33·0	56. 4·2	54. 8·6	F.
November	1.12	54.48·5	52.19·2	54.39·9	52.15·5	53.24·2	55.58·7	53.51·7	55.52·2	54. 8·7	F.
	30.12	54.47·0	52.16·7	54.35·2	52.20·5	53.18·7	55.56·5	53.41·7	55.54·2	54. 6·3	F.
December	3.12	54.50·0	52.13·6	54.55·2	52.12·7	53.23·0	55.49·0	53.42·4	55.52·5	54. 7·3	F.
	29.10	54.53·3	52.19·7	54.57·7	52. 8·2	53.22·2	55.59·5	53.46·4	55.52·0	54. 9·9	F.

NEEDLE No. 2.

	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	3. 9	54. 4·8	54.33·0	54.13·5	54.11·7	54.11·5	54.12·8	54.16·2	54. 7·7	54.13·9	F.
	30.15	53.58·2	54.48·3	54.12·5	54. 9·0	54. 5·7	54.19·8	54.13·7	54. 5·0	54.14·0	F.
February	2.16	54. 3·5	54.26·8	54.25·5	54·10·5	53.59·5	54.17·2	54.18 5	54. 4.7	54.13·3	O.
	27.13	54. 8·7	54.23·0	54.20·7	54. 9·5	54.10·0	54.12·0	54.15·2	54. 4·7	54.13·0	F.
March	3.11	54. 9·3	54.26·1	54.21·0	54.11·0	54.13·5	54. 2·9	54.13·0	54. 5·0	54.12·7	F.
	31.10	53.59·5	54.26·7	54. 9·7	54.16·0	54. 1·2	54.13·3	54.18·2	54.10·5	54.11·9	W.
April	3.12	54. 1·0	54.27·0	54.14·3	54.14·2	54. 9·5	54. 7·7	54.20·2	54. 1·5	54.11·9	F.
	28.11	54. 3·2	54.19·7	54.21·0	54.11·0	54. 2·2	54. 9·6	54.14·2	53.56·1	54. 9·6	F.
May	1.12	54.15·5	54.22·7	54.15·5	54 14·5	54. 8·0	54.12·8	54.13·2	54. 4·2	54.13·3	F.
	28.13	53.56·5	54.33·2	54. 5·2	54.15·0	54. 9·2	54. 5·0	54. 9·7	54. 4·0	54. 9·8	W.
June	4.10	54.14·5	54.21·7	54.12·5	54.12·2	54. 4·5	54. 1·2	54.13·7	54. 5·0	54.10·7	F.
	28.14	54.10·7	54.16·0	54.19·0	54. 6·0	54. 6·0	54. 0·7	54.14·0	54. 4·0	54. 9·5	F.
July	4.14	54. 3·7	54.19·5	54.20·0	54. 0·7	53.55·5	54.15·0	54.16·0	54. 6·5	54. 9·6	O.
	24.15	54. 4·1	54.33·9	54. 7·4	54.13·2	54. 5·8	54. 1·3	54. 8·2	53.58·8	54. 9·1	F.
August	6.12	54. 5·0	54.16·8	54.25·8	54. 3·0	53.55·5	54.17·7	54.24·3	53.52·5	54.10·1	O.
	24. 9	54. 4·0	54.30·8	54. 9·0	54.10·0	54. 2·0	54.14·2	54. 4·2	54. 5·3	54. 9·9	F.
September	7.14	54. 1·0	54.21·7	54.21·0	54. 7·7	53.57·5	54.12·3	54. 8·0	54. 2·5	54. 9·0	O.
	24.12	54. 3·8	54.20·2	54.22·0	54. 8·2	53.59·2	54. 8·2	53.59·5	54. 4·8	54. 8·2	F.
October	8.16	53.58·5	54.25·2	54.14·5	54.10·8	54. 2·7	54.11·2	54.15·2	53·55·0	54. 9·1	O.
	24.12	53.57·0	54.39·2	54. 8·5	54.14·5	53.54·5	54.14·2	54.12·8	54.10·0	54.11·3	O.
November	5.12	54. 7·7	54.22·4	54.11·5	54. 9·3	54. 3·5	54. 6·0	54. 6·8	54. 3·6	54. 8·8	F.
	29.14	54. 1·5	54.22·2	54.14·5	54. 8·2	54. 0·5	54.14·7	54.12·7	54. 5·2	54.10·0	W.
December	6.12	53.59·5	54.29·3	54. 5·9	54.11·2	54. 6·2	54. 3·6	54.12·5	53.55·3	54. 7·9	F.
	26.10	54. 2·5	54.23·0	54.10·2	54.10·7	54. 6·5	54. 3·3	54.14·8	53.54·4	54. 8·2	F.

The initials W., F., and O. are those of Messrs. Walter, Figon, and Olivier, respectively.

TABLE XI.—(*continued*)—RESULTS of OBSERVATIONS of MAGNETIC DIP made in the MAGNETIC PAVILION in the YEAR 1900.

NEEDLE No. 3.

Mauritius Civil Time, 1900.		Poles direct (A dipping). Face of Needle to Face of Instrument. Face of Instrument. East.	West.	Face of Needle to Back of Instrument. Face of Instrument. West.	East.	Poles reversed (B dipping). Face of Needle to Face of Instrument. Face of Instrument. East.	West.	Face of Needle to Back of Instrument. Face of Instrument. West.	East.	Mean.	Observer.
	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	8.16	53.58·8	54.17·0	54.12·0	54. 7·0	54. 0·7	54.38·7	54.31·5	54. 7·5	54.14·1	O.
	25.12	54. 3·0	54. 8·5	53.55·2	54.13·3	54.11·5	54.20·8	54.26·8	54.13·0	54.11·5	F.
February	9.15	53.58·7	54.14·4	53.59·2	54.14·5	54.11·5	54.24·8	54.25·0	54.22·3	54.13·8	F.
	23.16	53.50·7	54.16·0	54. 5·7	54. 7·0	54.13·5	54.29·7	54.32·0	54.15·5	54.13·8	O.
March	13.11	54. 9·0	54.16·2	54. 8·2	54. 9·5	54.24·0	54.24·0	54.28·3	54.20·3	54.17·4	F.
	23. 9	53.54·6	54.19·2	54. 4·8	54.19·0	54. 5·0	54.36·0	54.21·2	54.20·2	54.15·0	O.
April	7.12	53.55·2	54. 7·5	54. 7·2	54. 4·2	54.15·2	54.12·5	54.27·2	54. 6·1	54. 9·4	F.
	25.12	54. 2·5	54. 1·7	54.12·2	53.49·3	54.18·2	54. 9·1	54.14·2	54.10·5	54. 7·2	F.
May	11.11	54. 3·9	54. 5·7	54. 2·6	54. 9·1	54.13·5	54.16·4	54.21·2	54.10·5	54.10·3	F.
	21.15	53.55·5	54.12·0	54. 0·9	54. 0·7	54.29·3	54.20·5	54.29·0	54.26·3	54.14·3	O.
June	8.10	53.57·0	54. 8·2	54.11·8	54. 5·3	54. 6·8	54.10·2	54.24·5	54. 9·0	54. 9·1	F.
	25.10	54. 2·2	54. 2·5	53.58·7	54. 8·0	54.22·0	54.20·0	54.29·8	54.10·8	54.11·8	F.
July	7.12	53.49·8	54.10·7	54. 1·5	54. 4·0	54. 6·5	54.31·0	54.21·8	54.16·0	54.10·2	O.
	21.12	54. 0·7	54. 8·5	54. 3·7	54. 3·6	54. 6·0	54.14·7	54.18·2	54.22·5	54. 9·7	F.
August	8.12	53.54·0	54.17·0	54. 5·2	53.58·3	54. 4·0	54.32·2	54.27·2	54.19·7	54.12·2	O.
	20.12	53.47·5	54. 9·6	54.11·5	54. 6·3	54.13·8	54.20·5	54.26·7	54.16·1	54.11·5	F.
September	11. 9	53.59·2	54.11·5	53.57·2	54. 5·5	54.17·2	54.13·8	54 25·8	54. 7·0	54. 9·6	F.
	20.16	53.55·2	54.17·7	54. 4·2	54. 5·5	54. 8·5	54.27·5	54.23·0	54.21·5	54.12·9	O.
October	11.10	54. 2·2	54. 3·3	54. 3·9	54. 4·7	54.13·2	54.14·3	54.18·5	54.17·1	54. 9·6	O.
	20. 9	53.53·2	54.16·7	54. 7·8	54. 8·5	54. 9·8	54.15·0	54.23·7	54.16·8	54.11·4	W.
November	9.12	53.55·3	54.11·8	53.52·0	54. 6·4	54.14·7	54.16·2	54.20·0	54.10·5	54. 8·4	F.
	24.12	53.57·7	54. 9·6	53.57·8	54. 4·3	54. 9·2	54.14·4	54.17·0	54.16·0	54. 8·2	F.
December	10.15	54. 2·7	54. 7·8	53.58·8	54. 0·4	54.14·1	54.16·3	54.19·4	54.16·9	54. 9·6	F.
	20. 7	53.59·0	54. 9·5	54.13·8	53.56·5	53.54·2	54.44·2	54.15·5	54.13·0	54.10·7	O.

NEEDLE No. 4.

	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	13.14	53.47·5	53.11·5	53.58·6	52.55·5	54.39·2	55.21·5	54.39·6	55.28·3	54.15·2	O.
	22.10	53.32·2	53.14·2	53.59·2	53. 4·7	54.13·3	55.32·5	54.29·5	55.18·3	54.10·5	F.
February	14.12	53.46·0	52.57·8	53.50·5	53. 3·0	54.31·0	55.22·0	54.33·5	55.16·0	54.10·0	F.
	22.12	53.45·4	53. 6·7	54. 6·3	52.43·5	54.28·5	55.39·0	54.37·5	55.24·5	54.13·9	O.
March	14.12	54. 5·0	52.52·7	53.59·1	52.53·5	54.23·4	55.33·5	54.32·7	55.25·6	54.13·2	F.
	17. 9	54. 4·0	52.59·3	54. 5·0	52.56·3	54.27·2	55.36·7	54.35·5	55.31·2	54.16·9	F.
April	12.15	53.41·0	53. 1·0	54.10·5	53. 0·7	54.29·3	55.46·7	54.45·0	55.24·0	54.17·3	O.
	20. 9	53.55·3	53. 9·0	54. 5·2	52.53·2	54.35·7	55.27·5	54.38·8	55.18·2	54.15·4	F.
May	14.12	54. 9·5	52.44·7	53.58·0	52.50·9	54.25·2	55.31·6	54.39·6	55.23·3	54.12·8	F.
	19.10	54.12·2	53.28·5	53.49·5	53.12·3	54.22·2	55.28·2	54.22·0	55.25·0	54.17·5	W.
June	16.14	53.58·3	53.10·0	53.58·5	52.52·8	54.33·0	55.12·5	54.50·2	55. 8.5	54.13·0	O.
	21.14	53.55·0	53. 9·5	54. 2·7	52.59·2	54.29·0	55.24·2	54.33·5	55.11·5	54.13·1	W.
July	10.12	53.36·7	53. 3·2	53.53·7	52.50·7	54.23·8	55.26·8	54.31·0	55.16·0	54. 7·7	F.
	16.12	53.39·0	52.49·4	53.52·3	52.46·0	54.24·0	55.33·8	54.32·4	55.16·4	54. 6·7	F.
August	14.14	53.52·3	52.54·2	53.56·8	52.42·1	54.46·5	55.34·3	54.38·5	55.13·1	54.12·2	F.
	17.10	53.42·5	53.20·2	53.47·8	53.12·5	54.17·5	55.26·7	54.29·5	55. 9·0	54.10·7	W.
September	15. 8	53.43·0	53. 7·2	54. 1·0	53.24·7	54. 7·7	55.25·5	54.30·3	55.20·8	54.12·5	O.
	19.10	53.41·7	53. 7·5	53.55·5	52.58·2	54.37·2	55.20·2	54.48·7	55. 7·0	54.12·0	O.
October	13.10	53.35·6	53. 2·9	53.45·5	52.56·4	54.29·3	55.14·7	54.35·0	55.13·3	54. 6·6	F.
	17.12	53.40·7	53. 9·5	53.41·5	52.56·9	54.29·0	55.16·9	54.33·5	55. 9·9	54. 7·2	F.
November	13. 9	53.58·3	53. 3·5	54. 6·7	52.59·0	54.32·0	55.18·2	54.41·5	55. 3·7	54.12·9	O.
	20.10	53.55·2	52.57·7	53.59·8	53. 0·4	54.30·3	55.21·1	54.39·3	55. 9·6	54.11·7	F.
December	14.13	53.36·0	53.22·0	53.53·2	53.16·2	54.22·2	55.19·5	54.32·3	55. 5·3	54.10·8	W.
	17.16	53.44·5	53. 1·2	53.52·8	52.49·2	54.19·0	55.31·3	54.36·0	55.18·0	54. 9·0	O.

The initials W., F., and O. are those of Messrs. Walter, Figon, and Olivier, respectively.

TABLE XII.—MEAN MONTHLY VALUES of MAGNETIC DIP (South) in the YEAR 1900.

Month, 1900.	Needle No. 1.	Needle No. 2.	Needle No. 3.	Needle No. 4.	Mean Monthly Dip from all Needles.
	° ′	° ′	° ′	° ′	° ′
January	..	54.13·9	54.12·8	54.12·8	54.13·2
February	..	54.13·1	54.13·8	54.11·9	54.12·9
March	..	54.12·3	54.16·2	54.15·0	54.14·5
April	.	54.10·8	54. 8·3	54.16·3	54.11·8
May	..	54.11·5	54.12·3	54.15·2	54.13·0
June	..	54.10·1	54.10·4	54.13·0	54.11·2
July	54.9·5	54. 9·3	54. 9·9	54. 7·2	54. 9·0
August	54.9·9	54.10·0	54.11·8	54.11·5	54.10·8
September	54.8·7	54. 8·6	54.11·3	54.12·3	54.10·2
October	54.9·0	54.10·2	54.10·5	54. 6·9	54. 9·2
November	54.7·5	54. 9·4	54. 8·3	54.12·3	54. 9·4
December	54.8·6	54. 8·0	54.10·1	54. 9·9	54· 9·2
For the Year	..	54.10·6	54.11·6	54.12·1	54.11·2
Column	1	2	3	4	5

TABLE XIII.—MEAN MONTHLY VALUES of MAGNETIC DECLINATION, HORIZONTAL FORCE, VERTICAL FORCE, and TOTAL FORCE in the Year 1900.

Month, 1900.	Declination (West).	In C.G.S. Units.			In English Measure.		
		Horizontal Force.	Vertical Force.	Total Force.	Horizontal Force.	Vertical Force.	Total Force.
	° ′						
January	9.32·83	0·23834	0·33071	0·40765	5·1691	7·1724	8·8411
February	9.31·25	0·23834	0·33065	0·40760	5.1691	7·1711	8·8400
March	9.30·97	0·23828	0·33089	0·40776	5·1678	7·1764	8·8435
April	9.29·81	0·23833	0·33042	0·40741	5·1689	7·1662	8·8359
May	9.28·88	0·23831	0·33063	0·40756	5·1685	7·1707	8·8392
June	9.28·65	0·23836	0·33033	0·40735	5·1696	7·1642	8·8346
July	9.28·24	0·23831	0·32981	0·40690	5·1685	7·1529	8·8248
August	9.29·30	0·23832	0·33019	0·40722	5·1687	7·1612	8·8318
September	9.28·24	0·23827	0·33000	0·40703	5·1676	7·1570	8·8277
October	9.26·98	0·23825	0·32978	0·40684	5·1672	7·1523	8·8235
November	9.26·01	0·23830	0·32988	0·40695	5·1683	7·1544	8·8259
December	9.25·03	0·23828	0·32982	0·40689	5·1678	7·1531	8·8246
For the Year	9.28·85	0·23831	0·33026	0·40727	5·1684	7·1627	8·8327
Column	1	2	3	4	5	6	7

TABLE XIV.—HOURLY VARIATIONS of the MAGNETIC ELEMENTS, above or below the Mean, on DAYS of MAGNETIC DISTURBANCE during the YEAR 1900.

(The unit for Horizontal Force is ·000001 of Centimetre—Gramme—Second unit. The Declination is expressed in minutes of Arc.)

Mauritius Civil Time, 1900.	Horizontal Force.									
	January.						February.			
	5d	14d	15d	20d	21d	26d	4d	5d	9d	11d
Midnight	+221	+ 17	+ 68	−449	−317	−141	− 13	−166	+164	+ 76
1h	+231	+ 17	+ 88	−343	−337	−136	− 13	−166	+209	+ 76
2	+241	+ 58	+ 12	−287	−170	−192	+ 12	+286	+179	+ 71
3	+286	+ 17	+ 43	−256	− 99	−146	+ 68	+ 12	+ 77	+ 71
4	+292	+ 43	+114	−317	−201	−146	+ 88	+ 17	+189	+ 86
5	+297	+ 12	− 33	−266	−241	−136	+124	+ 12	+174	+122
6	+317	+ 43	− 38	−190	+ 2	− 65	+134	+ 22	+214	+ 81
7	+418	+ 17	−135	− 89	+ 68	+ 22	+134	+ 37	+169	+ 30
8	+469	+ 68	−114	− 99	−109	+189	+225	+ 43	+240	+239
9	+514	+104	−104	−135	−353	+164	+185	+ 22	+194	+326
10	+565	+119	− 89	− 99	−454	+108	+124	− 29	+ 57	+336
11	+428	+119	−241	−195	−188	+ 17	+134	−166	− 66	+275
Noon	+312	+154	−241	−140	−713	−136	+109	−227	−116	+193
13h	+221	+ 68	−241	−114	−702	−207	+195	−161	− 71	+132
14	+205	+170	−292	−140	−743	−237	+286	− 29	− 15	− 16
15	−139	− 38	−454	−140	−697	−395	+332	− 18	− 30	− 62
16	−402	+ 12	−337	−185	−505	−166	+317	− 90	+ 57	−143
17	−285	+ 43	−251	−155	−393	−283	+190	−130	+ 36	−123
18	−149	+ 63	−236	−190	−444	−303	+ 58	−191	+ 6	−138
19	−235	+ 68	−236	−190	−495	−288	− 18	−120	− 96	−220
20	−301	+ 63	−185	−241	−449	−293	−217	−100	−162	−215
21	−144	+ 63	−190	−353	−342	−253	− 64	− 90	−116	−174
22	−159	+ 17	−185	−343	−292	−390	− 79	− 69	− 71	− 72
23	−134	− 8	− 33	−342	−195	− 90	−190	− 90	− 35	− 16
Daily Range	967	208	568	360	811	584	549	513	402	556

Mauritius Civil Time.	Horizontal Force.			Declination.	Horizontal Force.					
	April.	May.		May.	October.				Nov.	Dec.
	10d	1d	5d	5d	4d	20d	25d	26d	1d	7d
				′						
Midnight	− 24	−130	−145	+0·2	+ 36	− 5	+ 16	−316	+ 28	+106
1h	− 18	−120	−139	+0·1	+ 26	− 5	+ 36	−280	+ 38	+111
2	+ 29	−114	− 97	0·0	+ 77	+ 16	+ 41	−219	+ 43	+116
3	+ 29	− 98	− 86	−0·4	+ 92	+ 5	+ 41	−219	+ 38	+116
4	+ 67	−141	− 76	−0·3	+ 92	+ 26	+ 62	−163	+ 53	+111
5	+ 77	−162	− 65	−0·3	+ 92	+ 16	+ 92	−188	+ 53	+106
6	+136	−162	− 49	+0·1	+107	− 10	+ 87	− 66	+ 53	+126
7	+ 29	−194	+ 9	+0·1	+113	− 15	+ 87	− 76	+ 48	+157
8	+136	−146	+ 73	+2·1	+118	− 15	+ 62	−112	+ 64	+167
9	+104	−199	+ 9	+2·0	+148	+ 77	− 15	− 76	+150	+167
10	− 18	−220	− 44	+2·3	+240	+133	−183	−142	+201	+386
11	− 18	−300	−145	+1·5	+286	+189	−316	−137	+160	+325
Noon	+ 35	−321	..	−1·4	+362	+286	−418	−168	+206	+325
13h	+ 83	−470	..	−1·8	+413	+337	−428	−209	+191	+228
14	+ 56	−470	..	−1·3	+403	+342	−382	−163	+130	+121
15	− 13	−497	..	−1·9	+342	+240	−382	−224	+119	− 42
16	− 77	−576	..	−2·1	+306	+199	−428	−229	+104	−103
17	−120	−523	..	+2·2	+230	− 66	−367	−229	+ 99	− 88
18	−130	−428	..	+2·1	+230	−178	−382	−188	+ 48	− 88
19	−242	−428	..	+5·1	+174	−168	−372	−178	+ 48	+ 14
20	−295	−433	..	+3·1	+ 87	− 61	−341	−178	+ 48	+ 34
21	−237	−417	..	+3·5	+ 41	− 61	−346	−137	+ 38	− 98
22	− 24	−364	..	+3·1	− 10	− 30	−331	−137	+109	−134
23	− 77	−396	..	+2·1	− 25	−107	−321	− 66	+ 53	− 37
Daily Range	431	478	..	7·2	438	520	520	250	178	520

MAGNETIC DISTURBANCES in DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE, recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1900.

All days showing a sufficiently marked disturbance to affect the mean monthly diurnal variation have been considered as disturbed days.

Magnetic curves which do not admit of brief description are reproduced on Plate I. : other magnetic movements are described below and the hourly variations of the disturbed element are given in Table XIV. When any one of the three elements is not specially mentioned it is to be understood that the movement, if any, was insignificant.

The nomenclature adopted in the "Greenwich Magnetical and Meteorological Observations" has been used; the term "wave" indicating a movement in one direction and return; "double wave" a movement in one direction and return with continuation in the opposite direction and return; "fluctuations," a number of movements in both directions. The extent of the movement is given in brackets; "positive" indicates an increase and "negative" a decrease of the magnetic element. In the case of fluctuations the sign $\pm$ denotes positive and negative movements of generally equal extent.

The measures are given in terms of Gauss's Millimetre-Milligramme-Second Unit for Horizontal Force and Vertical Force, and in minutes of arc for Declination.

The time is Mauritius Civil Time (commencing at midnight, and counting the hours from 0^h to 24^h).

1900.

January 5^d–6^d An increase of H.F. (·00306) occurred from $5^d.6^h$ to $5^d.9\frac{3}{4}^h$, followed by a decrease (·01163) till $5^d.16\frac{1}{4}^h$, and a second increase (·00714) by $6^d.7^h$, with two positive shallow waves (·00311) from $5^d.16\frac{1}{4}^h$ to $5^d.19\frac{1}{2}^h$ culminating at $5^d.17\frac{3}{4}^h$: and (·00163) from $5^d.20\frac{1}{2}^h$ to $5^d.22\frac{1}{4}^h$ culminating at $5^d.20\frac{3}{4}^h$.

14^d–16^d A small disturbance. Commenced in H.F. with a shallow negative wave (·00204) from $14^d.14^h$ to $14^d.17^h$: small fluctuations occurred until $15^d.15^h$, with a general decrease of force (·00586) from $15^d.4^h$ to $15^d.15^h$. The force regained its normal intensity by $16^d.1^h$, with a positive wave (·00255) from $15^d.22\frac{1}{2}^h$ to $16^d.0\frac{1}{2}^h$.

19^d–20^d See Plate I.

20^d–22^d Small fluctuations occurred in H.F. from $20^d.11^h$ to $21^d.7^h$. The force decreased (·00229) between $20^d.17^h$ and $20^d.21\frac{3}{4}^h$, increased (·00449) by $21^d.7^h$, with a negative wave (·00204) from $21^d.3\frac{1}{2}^h$ to $21^d.6^h$; it again decreased (·00831) between $21^d.7^h$ and $21^d.13\frac{1}{2}^h$, and regained its normal by $22^d.7^h$, after a shallow positive negative wave (·00163) from $21^d.15\frac{1}{4}^h$ to $21^d.17\frac{3}{4}^h$, and small fluctuations from $21^d.22\frac{1}{2}^h$ to $22^d.1^h$ and $22^d.4\frac{3}{4}^h$ to $22^d.7^h$.

26^d–27^d The H.F. increased (·00444) between $26^d.2^h$ and $26^d.8\frac{1}{4}$, decreased (·00678) till $26^d.14\frac{3}{4}^h$, and gradually regained its normal intensity by $27^d.3^h$; two positive waves (·00250) and (·00270) occurred from $26^d.14\frac{3}{4}^h$ to $26^d.17\frac{1}{2}^h$ and $26^d.22\frac{1}{2}^h$ to $27^d.0\frac{1}{4}^h$.

February 4^d–5^d An increase of H.F. (·00229) occurred between $4^d.12^h$ and $4^d.15^h$, followed by a decrease (·00561) till $4^d.19\frac{3}{4}^h$, and a further increase (·00280) till $5^d.8^h$, with two positive waves (·00342) and (·00362) from $4^d.22\frac{1}{4}^h$ to $5^d.0\frac{1}{4}^h$ and $5^d.1^h$ to $5^d.3^h$. Between $5^d.8^h$ and $5^d.12^h$ the force again decreased (·00286), and a shallow positive wave (·00240) occurred from $5^d.12^h$ to $5^d.18\frac{1}{4}^h$: the force regained its normal intensity by $5^d.24^h$.

8^d–10^d This disturbance commenced in H.F. with a slight increase of force (·00092) at $8^d.23\frac{1}{2}^h$. A double wave occurred (−·00102 to +·00153) from $9^d.2\frac{1}{2}^h$ to $9^d.5\frac{1}{4}^h$, and between $9^d.8^h$ and $9^d.12\frac{3}{4}^h$ the force decreased (·00362). A long shallow positive wave (·00265) followed till $9^d.20\frac{1}{2}^h$, and an increase of force (·00204) by $10^d.3^h$, with a positive wave (·00178) from $10^d.0\frac{1}{2}^h$ to $10^d.3^h$.

11^d–12^d The H.F. increased (·00306) between $11^d.7^h$ and $11^d.10^h$, decreased (·00561) till $11^d.19\frac{1}{4}^h$, and regained its normal intensity by $12^d.2^h$, with a positive wave (·00163) from $12^d.0\frac{1}{4}^h$ to $12^d.1\frac{1}{2}^h$.

March 8^d–10^d See Plate I.

: 3^d–14^d See Plate I.

1900.

April 10^d–11^d The diurnal variation in H.F. was slightly accentuated on this day, and two positive waves (·00212) and (·00201) occurred from $10^d.21^h$ to $11^d.0\frac{1}{2}^h$, and $11^d.0\frac{1}{2}^h$ to $11^d.2^h$.

May 1^d–2^d In H.F. this slight disturbance consisted of a long negative wave (·00477) culminating at $1^d.16^h$, in place of the ordinary diurnal variation.

5^d–6^d A moderate disturbance occurred on this day, but the H.F. register was defective after $5^d.11^h$: the first movement was a sharp increase of force (·00186) at $5^d.7^h$, after which a decrease set in. In Dec. small fluctuations occurred between $5^d.7^h$ and $5^d.11^h$, and a series of small positive waves until $6^d.0^h$, the principal of which were (4′·5): (2′·4): (2′·0) and (3′·9), from $5^d.16\frac{1}{4}^h$ to $5^d.17\frac{1}{2}^h$: $5^d.17\frac{1}{2}^h$ to $5^d.17\frac{3}{4}^h$: $5^d.18\frac{1}{2}^h$ to $5^d.19\frac{1}{4}^h$ and $5^d.19\frac{1}{4}^h$ to $5^d.20^h$ respectively. In V.F. small but rapid fluctuations occurred from $5^d.13^h$ to $5^d.14^h$, and small undulatory movements throughout the remainder of the day.

October 4^d–5^d A large diurnal variation occurred in H.F. with small superposed fluctuations: a negative wave (·00102) occurred from $4^d.21\frac{1}{4}^h$ to $4^d.21\frac{3}{4}^h$, and a positive wave (·00102) occurred $5^d.1\frac{3}{4}^h$ to $5^d.2\frac{1}{4}^h$.

20^d–21^d This disturbance consisted of an accentuated and irregular diurnal variation in H.F. the nature of which will be seen from Table XIV.: small fluctuations occurred between $20^d.15^h$ and $20^d.17^h$.

25^d–26^d An increase of H.F. (·00127) occurred from $25^d.7\frac{1}{2}^h$ to $25^d.8^h$, and a small negative wave (·00204) from $25^d.8^h$ to $25^d.8\frac{1}{2}^h$. From $25^d.8\frac{1}{2}^h$ to $25^d.12\frac{1}{2}^h$ the force decreased (·00704), and increased (·00148) by $26^d.7^h$, with a small negative wave (·00127) from $25^d.15\frac{3}{4}^h$ to $25^d.16\frac{3}{4}^h$. Small fluctuations continued till $27^d.0^h$.

November 1^d–2^d Small fluctuations occurred in H.F. throughout the first day, and a sharp double wave (±·00153) from $2^d.0^h$ to $2^d.1\frac{1}{4}^h$.

December 7^d–8^d Small fluctuations occurred in H.F. between $7^d.15^h$ and $7^d.23^h$, and a small but sharp negative wave (·00189) from $7^d.20^h$ to $7^d.20\frac{1}{2}^h$.

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ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1900.

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins		°	°	ins.	mins.	(0–10)	(0–10)	hrs.		°			
Jan. 1	29·835	88·6	71·5	17·1	78·9	72·8	68·6	0·699	70·6	149·8	66·5	0·015	25	1·3	6·3	9·7	73	107	7·7	8·1	p.c. : c.t.
2	29·803	89·9	68·9	21·0	77·3	71·6	67·6	0·675	72·2	155·4	63·5	0·405	55	2·0	5·2	6·8	52	109	3·1	5·4	c. : c.f. : r.c. : p.c.
3	29·762	90·7	67·8	22·9	78·2	71·6	67·0	0·661	68·8	144·8	62·3	0·040	47	1·6	3·2	10·4	79	113	2·6	5·6	p.c. : c.f. : c.p. : f.
4	29·753	90·8	70·8	20·0	80·4	73·5	68·8	0·704	67·4	145·2	66·1	0·030	25	1·5	3·2	11·1	84	170	4·8	6·9	p.c. : c.f. : f.l.
5	29·819	90·7	73·4	17·3	79·9	73·8	69·6	0·723	70·6	150·8	68·0	0·130	50	1·9	8·1	7·2	55	124	7·1	8·2	p.c. : c.f.
6	29·884	89·6	73·6	16·0	79·8	73·6	69·4	0·718	70·2	156·1	69·0	0·000	..	2·0	7·3	6·3	48	96	9·9	10·3	c. : c.g. : c.t. : f.
7	29·846	89·7	72·4	17·3	79·9	73·2	68·6	0·699	68·2	150·0	67·3	0·055	30	0·7	4·7	9·1	69	97	7·0	8·4	f. : c.f. : c. : p.f.
8	29·767	88·9	70·9	18·0	78·7	73·2	69·4	0·718	73·0	155·2	66·4	0·000	..	0·9	5·9	5·6	42	56	6·1	7·9	f. : c.f. : c.g. : c.f.
9	29·784	89·7	74·0	15·7	80·8	74·1	69·6	0·723	68·2	151·4	69·8	0·260	55	1·5	6·0	9·3	70	76	11·2	11·7	f. : c.f. : q.c. : c.l.r.
10	29·831	87·7	74·3	13·4	79·7	74·6	71·1	0·761	75·2	152·5	71·1	0·260	35	1·2	9·2	5·6	42	80	12·1	12·6	o.g.r. : q.c. : c. : f.
11	29·847	86·9	75·2	11·7	80·0	74·5	70·7	0·751	73·0	150·5	70·8	0·045	30	2·0	8·0	7·7	58	75	13·9	14·3	f. : c.f. : c.p. : c.f.
12	29·841	87·8	74·9	12·9	80·6	74·2	69·9	0·731	69·4	149·7	73·0	0·010	10	1·5	7·0	11·1	84	73	14·8	14·8	c.f. : p.q. : c.q. : c.f.
13	29·823	88·6	73·7	14·9	80·3	73·6	69·0	0·708	68·2	149·7	68·8	0·000	..	1·3	4·1	11·5	87	85	12·3	12·8	f. : c.f.
14	29·833	90·1	72·4	17·7	80·9	73·1	67·8	0·680	63·8	146·9	67·0	0·000	..	0·9	2·3	12·0	91	89	9·8	10·2	f. : c.f.
15	29·845	90·7	73·0	17·7	81·2	73·5	68·3	0·692	65·4	150·7	68·0	0·000	..	0·2	3·7	11·7	89	97	9·6	9·8	c.f.
16	29·860	89·6	73·1	16·5	80·5	72·3	66·7	0·655	62·7	145·8	67·4	0·000	..	0·6	4·0	11·6	89	89	8·4	8·7	c.f.d. : c.f.
17	29·837	89·9	72·5	17·4	80·6	73·1	68·0	0·684	65·0	148·5	67·3	0·085	25	1·0	4·3	11·5	88	81	9·4	10·0	p.c.f. : c.f.
18	29·804	90·7	72·8	17·9	81·3	73·6	68·4	0·694	65·5	151·0	67·8	0·110	75	0·7	2·6	11·1	85	96	7·8	8·2	b. : c.f. : c.f.p.
19	29·813	91·0	72·1	18·9	81·1	74·3	69·7	0·726	68·8	150·2	68·0	0·095	60	0·2	3·4	11·8	90	95	6·6	7·6	p.b. : c.f. : c.p.
20	29·819	89·6	73·0	16·6	81·1	74·3	69·7	0·726	68·8	146·9	69·1	0·050	25	0·0	5·3	11·9	91	94	10·4	10·9	p.c.f. : c.f.
21	29·825	89·9	76·2	13·7	81·8	75·1	70·6	0·749	69·2	152·0	71·0	0·000	..	1·3	9·0	9·4	72	110	10·7	10·8	c. : c.l.
22	29·803	88·6	75·1	13·5	80·4	75·2	71·7	0·777	74·4	143·6	71·8	0·220	80	1·6	7·6	6·2	48	114	8·8	9·2	p.c. : c. : c.f. : c.f.l.
23	29·795	89·9	73·3	16·6	81·1	74·5	70·0	0·733	69·6	149·6	68·1	0·000	..	1·9	7·2	11·2	86	110	8·1	8·2	f. : c.f. : c. : c.f.
24	29·801	92·7	71·0	21·7	81·6	74·2	69·3	0·716	66·4	146·2	66·0	0·000	..	1·6	7·7	10·2	78	160	5·7	7·2	f. : c.f. : c. : c.f.
25	29·797	92·1	72·0	20·1	81·2	74·1	69·3	0·716	67·6	152·0	66·9	0·065	70	1·2	8·5	6·7	52	121	5·7	6·4	f. : c. : c.g. : c.p.f.
26	29·761	90·0	72·7	17·3	81·0	75·0	70·9	0·756	72·0	146·9	67·8	0·120	20	1·7	6·9	9·8	75	184	2·1	6·1	c.f. : p.c. : c.t. : c.t.l.
27	29·745	90·8	74·0	16·8	79·8	74·3	70·6	0·749	73·3	148·3	69·9	0·110	50	1·3	6·3	6·3	48	70	1·2	5·7	f.t. : t. : c.t. : p.c.t.l.
28	29·764	92·4	73·1	19·3	81·6	75·4	71·2	0·764	71·2	155·2	69·2	0·000	..	0·4	4·7	8·0	62	116	5·2	6·5	b. : c.f. : c.f.g.t. : l.f.
29	29·782	93·1	73·0	20·1	80·6	75·0	71·3	0·766	72·7	152·3	68·0	0·115	35	0·0	8·5	7·6	58	106	3·6	6·0	c.t. : p.g.t.c. : c.t.f.
30	29·769	92·8	71·4	21·4	79·2	74·8	71·8	0·779	78·2	155·2	68·8	1·180	185	2·5	7·1	6·8	53	76	4·9	7·3	f. : c.f. : r.t.o.g. : c.g.l.t.
31	29·767	84·0	75·3	8·7	78·1	74·6	72·2	0·790	81·6	136·3	73·0	0·270	145	4·9	10·0	0·1	1	110	6·0	6·3	p.o.g. : o.g.r.t. : o.g. : o.g.l.
Mean	29·807	89·9	72·8	17·1	80·2	73·9	69·6	0·723	69·8	149·6	68·3	Sum 3·670	Sum 1132	1·3	6·0	8·88	67·8	96°·00′	7·08	8·78	..
Average	29·751	86·4	72·9	13·5	78·8	73·7	70·3	0·741	75·0	147·9	68·9	7·467	2099	3·4	6·4	7·70	58·7	86·22	8·54	11·10	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Lowest.	Range.	Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation=100).	Temperature of Radiation. Highest in the Sun's Rays.	Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Mean Velocity (Miles per Hour). Computed.	Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0—10)	(0—10)	hrs.		°			
Feb. 1	29·765	88·0	75·0	13·0	80·2	76·2	73·5	0·826	80·2	145·0	71·4	0·930	150	4·6	9·1	3·4	26	115	9·7	10·2	c. : c.f.q. : o.g.p. : c.p.l.t.
2	29·754	83·8	75·7	8·1	79·4	75·9	73·5	0·826	82·9	132·9	73·0	0·390	100	3·7	8·9	1·4	11	106	8·4	8·7	r.c. : c.p. : o.g. : c.f.
3	29·720	86·8	73·8	13·0	79·9	75·4	72·3	0·793	78·4	147·6	71·3	0·340	70	1·9	8·5	3·5	27	112	9·4	9·7	c.r. : c.p. : c.p.t. : c.f.
4	29·688	88·6	74·3	14·3	80·9	76·3	73·2	0·818	77·9	148·9	71·1	0·160	65	2·9	7·6	7·2	56	147	10·5	11·3	c.f. : c.p. : c.q. : o.g.r.
5	29·699	84·9	74·7	10·2	78·9	76·6	75·0	0·868	87·5	133·2	72·0	0·750	285	3·1	10·0	0·2	2	164	8·3	9·1	o.g.r. : o.g.p.
6	29·711	88·7	77·7	11·0	82·5	78·3	75·5	0·883	79·5	146·9	74·5	0·000	..	2·8	5·1	11·4	89	180	12·9	13·3	f. : c.f. : c.f.q. : c.q.l.t.
7	29·748	83·7	77·0	6·7	80·2	77·6	75·8	0·891	87·0	110·6	76·2	0·150	225	2·7	9·7	0·0	0	216	7·2	8·0	o.g.p.l.t.
8	29·763	86·8	73·8	13·0	80·1	76·2	73·6	0·829	80·6	139·3	73·7	0·030	10	1·5	8·1	4·2	33	15	1·7	4·9	c.t. : g.c.l.t.
9	29·762	88·0	71·0	17·0	79·0	73·7	70·1	0·736	73·8	149·5	66·8	0·000	..	1·0	6·5	7·7	60	29	2·6	5·8	c.f. : c.g. : c.f.
10	29·780	87·8	70·0	17·8	78·5	73·1	69·4	0·718	73·4	148·7	65·1	0·000	..	1·0	3·2	7·9	62	44	3·0	5·5	c.f.
11	29·791	87·5	74·8	12·7	80·0	75·7	72·8	0·807	78·5	156·2	69·8	0·475	202	2·0	7·0	7·2	56	75	10·0	10·4	c.p. : c.p.t.l.
12	29·755	86·1	76·8	9·3	80·0	76·1	73·5	0·826	80·5	149·2	73·5	0·075	70	2·2	8·8	3·8	30	80	11·5	11·7	c.f. : p.o.g.
13	29·748	83·8	76·0	7·8	79·5	75·6	72·9	0·810	82·0	120·0	73·8	0·000	..	2·0	10·0	0·0	0	63	8·0	8·1	p.o.g.t.
14	29·748	87·0	74·5	12·5	80·0	74·5	70·7	0·751	73·0	149·7	70·5	0·000	..	2·3	7·6	6·8	54	18	2·0	6·2	c.f. : o.g. : f.
15	29·762	87·8	71·3	16·5	79·7	74·1	70·3	0·741	72·7	148·1	66·5	0·000	..	3·4	5·7	8·6	68	48	5·2	5·8	c.f. : g. : c.f.
16	29·786	87·0	75·0	12·0	79·8	74·1	70·2	0·738	72·3	152·0	72·1	0·090	50	4·0	8·1	4·1	32	45	7·6	8·6	c.f. : p.o.g. : f.
17	29·761	86·3	74·7	11·6	78·6	75·1	72·7	0·804	81·5	149·1	70·0	0·290	120	1·5	8·8	1·9	15	51	3·1	4·6	c. : t.o.g.p.
18	29·770	88·2	74·0	14·2	80·3	76·0	73·1	0·815	78·8	147·8	69·9	0·020	20	0·6	7·2	9·1	72	158	0·7	5·6	c.f. : c.p. : c.f.
19	29·808	88·3	74·8	13·5	81·0	76·9	74·1	0·843	79·6	147·8	71·0	0·000	..	0·4	8·0	5·5	44	87	6·8	7·7	c.f. : o. : c.l.
20	29·838	84·9	77·0	7·9	79·7	77·0	75·1	0·871	86·5	122·3	73·8	0·820	170	1·6	8·1	3·8	30	121	6·9	8·3	c.f. : o.g.p.t.l. : c.
21	29·857	88·5	75·5	13·0	81·0	77·2	74·6	0·857	81·0	146·9	72·5	0·000	..	0·9	7·8	4·7	37	131	5·8	6·2	c.f. l.
22	29·833	87·8	74·8	13·0	81·0	75·9	72·4	0·796	75·6	147·1	70·0	0·000	..	0·0	3·6	11·3	90	82	7·4	7·7	c.f. l.
23	29·804	87·8	74·8	13·0	79·8	75·8	73·0	0·812	80·8	153·4	70·3	0·045	20	0·3	6·5	7·6	60	62	6·0	6·8	c.f.p. : t.p.c. : f.
24	29·781	87·8	73·0	14·8	80·3	75·4	72·1	0·788	75·8	148·4	68·5	0·000	..	0·8	5·1	10·3	82	37	3·2	5·7	c.f. : c.g. : l.t.t.
25	29·750	87·8	72·8	15·0	79·1	75·1	72·4	0·796	79·9	151·0	68·5	0·025	20	0·4	5·6	7·8	62	8	2·3	5·0	c.f. : p.c. : c.f.
26	29·725	88·8	72·8	16·0	79·7	73·6	69·4	0·718	70·6	152·8	67·9	0·000	..	0·3	2·7	10·8	86	15	3·0	6·4	c.f.
27	29·733	84·8	72·0	12·8	77·5	72·3	68·7	0·701	74·2	151·4	66·9	0·000	..	2·4	9·6	1·2	10	45	4·3	4·5	f. : c.g. : o.g. : c.f.
28	29·749	84·4	71·4	13·0	77·4	72·0	68·2	0·689	73·4	148·0	65·9	0·000	..	2·6	5·9	5·4	43	62	9·6	9·9	c.f. : c.g. : c.f.
Mean	29·764	86·8	74·2	12·6	79·8	75·4	72·4	0·796	78·8	144·4	70·6	Sum 4·590	Sum 1577	1·9	7·2	5·60	44·1	° ′ 93.24	4·22	7·70	..
Average	29·734	85·7	73·0	12·7	78·6	74·1	71·0	0·759	77·1	148·3	68·8	7·903	2106	3·2	6·3	7·20	56·7	80.12	8·11	11·21	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation=100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0–10)	(0–10)	hrs.		°			
Mar. 1	29·785	85·7	69·8	15·9	77·3	72·6	69·3	0·716	76·2	158·4	65·0	0·000	..	2·3	5·9	7·5	60	55	9·4	9·5	c.f. : c.d.g. : f.
2	29·818	86·8	69·8	17·0	78·2	71·5	66·8	0·657	68·4	148·9	64·8	0·000	..	1·8	3·3	9·0	73	25	3·0	6·5	c.f.
3	29·800	86·9	66·7	20·2	77·2	70·5	65·8	0·635	68·2	150·1	61·3	0·000	..	2·2	2·5	11·4	92	347	2·2	6·1	c.f.
4	29·764	85·7	68·8	16·9	75·8	71·3	68·0	0·684	77·3	145·0	63·8	0·120	95	2·8	6·1	3·6	29	38	3·5	5·8	c.f. : o.p.g.d.: f.
5	29·785	88·2	69·3	18·9	77·3	72·9	69·8	0·728	77·4	149·0	64·5	0·085	30	3·6	5·4	7·8	63	8	1·5	5·6	c.f. : c.p. : c.
6	29·814	83·7	71·9	11·8	75·8	73·5	71·9	0·782	87·5	151·2	68·2	4·430	800	4·0	10·0	1·9	15	82	7·0	8·6	o.g.r. : t.l.o.g.p.
7	29·791	82·8	73·4	9·4	76·1	73·2	71·2	0·764	84·5	149·8	70·0	0·220	235	4·6	9·0	2·6	21	66	11·5	11·2	c.p. : o.g.p.t.l.
8	29·739	83·5	73·5	10·0	77·7	74·2	71·8	0·779	81·5	150·0	70·3	0·190	50	5·0	9·5	2·5	20	84	9·9	10·1	c.p. : o.g.t. : c.t.l.
9	29·688	84·9	74·7	10·2	78·6	75·7	73·7	0·832	84·5	148·7	72·9	0·160	62	5·0	9·4	1·7	14	101	8·1	8·4	p. : o.g. : o.g.r. : c.l.
10	29·663	84·2	73·4	10·8	78·5	75·6	73·6	0·829	84·5	146·9	70·9	0·280	185	3·2	7·5	0·4	3	81	8·8	9·6	c.p. : o. : c. : c.p.
11	29·615	86·5	72·8	13·7	79·6	76·3	74·0	0·840	83·5	147·1	70·8	0·270	55	0·7	5·9	10·2	84	353	3·4	6·9	c.g. : c.f. : p.
12	29·702	87·7	71·4	16·3	78·9	75·8	73·7	0·832	83·5	150·5	68·0	0·025	35	0·0	5·8	8·8	72	11	2·1	4·2	c.f. : c.p. : c.f.
13	29·731	86·9	73·5	13·4	79·5	75·5	72·8	0·807	80·5	151·6	69·9	0·045	65	3·1	7·1	7·5	61	51	3·2	4·7	c.f. : p.
14	29.719	84·9	75·0	9·9	79·5	75·4	72·6	0·801	80·0	148·9	71·7	0·025	45	3·2	6·1	10·2	84	67	12·0	12·3	p. : c.f. : c.q. : c.f.
15	29·716	86·2	76·9	9·3	79·4	76·9	75·1	0·871	87·5	145·8	74·0	0·100	170	2·6	8·1	3·1	25	89	5·7	7·7	t.d.c. : c.p.g. : c.
16	29·724	87·7	76·5	11·2	81·1	77·0	74·2	0·846	79·6	151·4	73·0	0·020	35	3·0	6·6	8·2	68	98	6·4	6·6	c.p. : c.f.
17	29·764	87·1	75·1	12·0	80·5	77·1	74·8	0·863	83·0	146·9	72·0	0·330	50	1·7	5·6	9·7	80	86	6·8	7·9	p.c.f. : r.c. : c.f.
18	29·803	86·8	75·5	11·3	80·0	76·7	74·5	0·854	83·5	150·7	70·7	0·210	42	2·3	5·1	8·9	74	86	8·5	9·0	c.f. : c.p. : c.
19	29·811	85·8	75·8	10·0	79·9	76·1	73·4	0·823	81·0	147·8	72·3	0·020	35	2·4	5·1	9·2	76	73	12·1	12·1	c.p. : q.c.f.
20	29·798	85·4	75·6	9·8	79·7	75·6	72·8	0·807	80·2	145·0	72·0	0·040	45	2·6	3·9	9·7	80	74	12·7	12·9	c.p.q. : c.f.
21	29·787	84·9	75·4	9·5	79·1	74·6	71·6	0·774	77·6	145·0	71·3	0·050	45	3·6	4·6	10·3	85	70	11·9	12·0	c.p.f. : c.q.f.
22	29·790	85·9	74·7	11·2	79·1	75·4	72·9	0·810	81·6	149·5	72·0	0·145	115	4·0	6·2	8·5	71	73	9·0	9·3	c.p. : c.f. : t.c.
23	29·794	85·2	72·8	12·4	77·5	75·0	73·3	0·820	86·5	152·5	70·0	1·970	315	3·4	7·2	5·3	44	82	6·9	7·9	r.c.g.t.l.
24	29·791	86·6	74·0	12·6	79·4	76·2	74·0	0·840	84·0	145·2	71·1	0·010	20	1·4	8·1	6·2	52	102	4·8	5·7	p.c. : t.o.g. : c.l.f.
25	29·761	86·0	72·0	14·0	78·0	74·2	71·5	0·772	80·0	154·9	69·0	0·100	60	2·1	7·1	6·0	50	46	5·9	7·0	c. : p.c.t. : l.f.
26	29·856	82·7	73·4	9·3	77·4	71·6	67·5	0·673	71·8	130·8	69·9	0·000	..	3·6	9·0	1·4	12	35	9·8	9·8	c. : o.g. : c.f.
27	29·869	82·7	69·8	12·9	76·2	70·4	66·3	0·646	71·8	145·3	66·5	0·000	..	4·6	4·3	9·7	82	47	11·1	11·3	c.f.
28	29·758	82·0	69·4	12·6	75·1	71·2	68·4	0·694	79·6	149·0	65·0	0·000	..	4·4	6·5	6·8	57	45	8·7	9·2	c.f. : o.g.d. : c.
29	29·724	83·3	70·8	12·5	76·6	70·8	66·7	0·655	71·8	145·3	65·2	0·000	..	4·0	4·1	10·2	86	59	9·8	9·9	c.f.
30	29·770	79·6	70·8	8·8	74·8	71·6	69·3	0·716	83·0	130·9	66·0	0·260	230	4·0	7·7	3·8	32	72	9·6	10·0	p.c.g. : o.g.p. : c.f.
31	29·806	83·6	67·4	16·2	75·9	71·1	67·6	0·675	75·9	147·3	63·0	0·000	..	4·6	3·5	10·4	87	53	10·9	11·2	c.f.
Mean	29·766	85·2	72·6	12·6	78·1	74·0	71·1	0·761	78·6	147·7	68·9	Sum 9·105	Sum 2819	3·1	6·3	6·85	56·4	66.30	7·10	8·68	..
Average	29·769	84·1	71·9	12·2	77·2	73·3	70·6	0·749	79·7	145·8	68·1	9·796	2786	3·9	6·4	6·73	55·4	78.53	7·83	9·97	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0—10)	(0—10)	hrs.		°			
April 1	29·765	83·2	72·7	10·5	77·0	73·8	71·6	0·774	83·0	142·6	69·3	1·180	230	5·6	7·5	7·4	63	67	12·8	13·2	c.q.p. : l.t.r.
2	29·724	82·3	73·8	8·5	77·0	72·6	69·5	0·721	77·4	138·3	70·0	0·005	5	5·1	8·5	5·7	48	56	11·5	11·5	c.q.
3	29·710	82·6	70·1	12·5	76·1	71·7	68·6	0·699	77·4	147·8	65·1	0·000	..	4·5	8·9	5·4	46	57	9·7	10·3	c.f.
4	29·711	81·9	70·4	11·5	76·1	72·5	70·0	0·733	81·1	142·8	66·5	0·000	..	3·3	8·8	4·0	34	73	7·9	8·1	c.f.
5	29·718	86·4	70·7	15·7	76·9	73·4	70·9	0·756	81·5	148·7	66·9	0·000	..	1·5	6·1	7·5	64	57	4·1	5·4	c.f.t.
6	29·736	85·7	70·4	15·3	76·1	73·2	71·2	0·764	84·5	148·7	66·1	0·070	75	2·0	7·0	6·8	58	54	5·4	6·8	c.f. : o.g.p.l.t.
7	29·761	83·7	72·8	10·9	77·5	74·8	72·9	0·810	85·5	146·0	69·0	0·045	10	2·8	6·7	7·3	62	79	8·1	8·7	c.f. : c.p. : c.g.p. : c.l.t.
8	29·772	84·9	74·4	10·5	78·2	75·0	72·8	0·807	83·0	149·3	72·0	0·055	35	2·7	6·6	6·7	57	77	7·8	8·2	c.f.p.
9	29·755	84·7	69·8	14·9	76·9	72·9	70·1	0·736	79·9	146·9	65·1	0·000	..	2·2	4·1	8·2	70	36	4·3	6·4	c.f.
10	29·748	84·9	69·6	15·3	76·7	72·3	69·2	0·713	77·7	146·5	63·4	0·000	..	2·6	3·2	8·7	74	32	4·4	6·4	c.f.
11	29·759	82·1	70·1	12·0	75·0	71·3	68·6	0·699	80·5	145·0	64·2	0·475	85	3·9	6·1	5·1	44	20	4·8	5·7	c.f. : o.g.p.
12	29·798	80·8	66·7	14·1	73·8	68·1	63·9	0·594	71·3	144·8	60·0	0·000	..	4·2	3·1	10·2	88	38	9·4	9·7	c.f.
13	29·841	80·8	65·6	15·2	73·9	69·6	66·4	0·648	78·4	140·6	60·0	0·000	..	4·0	3·7	10·0	86	55	10·0	10·5	c.f.
14	29·882	81·0	69·6	11·4	75·0	68·2	63·3	0·582	66·8	132·4	62·8	0·000	..	4·3	1·2	10·7	92	52	12·0	12·1	b.f.
15	29·880	82·1	69·6	12·5	75·1	70·9	67·9	0·682	78·1	143·5	63·3	0·060	35	4·8	5·4	9·4	81	65	11·9	12·0	c.f. : c.q.f. : q.p.c. : c.
16	29·836	79·8	71·6	8·2	75·4	71·7	69·0	0·708	80·9	118·0	68·0	0·220	95	4·4	10·0	0·0	0	63	12·9	13·1	p.c.q. : o.g.q.
17	29·806	78·2	72·6	5·6	74·4	72·0	70·2	0·738	87·0	129·5	68·9	0·620	267	4·0	9·6	1·3	11	62	10·7	11·1	t.o.g.p.q.l.
18	29·814	80·0	72·0	8·0	74·5	71·7	69·6	0·723	85·0	137·4	68·2	0·275	288	4·0	8·0	6·3	55	60	16·8	17·0	c.p.g.q.
19	29·787	79·8	72·5	7·3	75·1	72·1	69·9	0·731	84·0	134·8	70·0	0·085	170	4·0	8·1	7·2	63	61	15·7	15·7	c.p.g.q.
20	29·773	82·1	69·1	13·0	75·7	72·2	69·7	0·726	81·5	140·0	63·5	0·000	..	3·4	6·2	9·9	86	52	9·0	9·2	c.f. : c.t.l.
21	29·789	84·7	71·8	12·9	78·1	75·0	72·8	0·807	83·5	145·3	66·6	0·000	..	2·4	7·0	10·1	88	79	5·6	5·9	c.f.t.l.
22	29·874	83·6	75·8	7·8	78·8	75·9	74·0	0·840	84·5	144·7	73·0	0·000	..	3·5	4·6	9·7	84	80	10·3	10·5	c.f.
23	29·925	83·1	74·8	8·3	78·1	74·8	72·5	0·799	82·6	143·9	72·0	0·025	30	4·8	4·0	10·0	88	74	13·2	13·4	c.f. : c.p.q.
24	29·884	81·3	72·8	8·5	76·2	72·7	70·3	0·741	81·7	137·2	70·0	0·010	25	5·0	5·4	9·9	87	67	10·9	11·1	c.p. : c.f.
25	29·839	82·7	70·1	12·6	76·1	72·9	70·7	0·751	83·1	147·1	64·3	0·020	7	5·3	4·9	9·0	79	61	7·9	8·0	b. : c.f. : c.p. : c.f.
26	29·882	82·7	73·0	9·7	76·9	72·4	69·1	0·711	77·4	137·0	69·3	0·000	..	5·5	4·9	9·8	86	60	10·5	10·6	c.f.
27	29·942	80·9	71·6	9·3	75·2	71·0	68·0	0·684	78·2	142·8	68·8	0·045	45	5·2	6·0	8·5	75	65	14·1	14·3	c.p. : c.f.q.
28	29·922	78·7	68·6	10·1	73·4	69·4	66·4	0·648	79·4	138·0	67·2	0·130	135	4·7	8·3	4·5	39	66	12·9	12·9	o.g.p. : c.q.f.
29	29·849	80·7	66·4	14·3	73·5	68·8	65·3	0·624	76·0	142·4	59·3	0·000	..	3·3	5·2	9·1	81	75	9·5	9·5	c.f.
30	29·832	81·0	68·8	12·2	73·7	70·8	68·7	0·701	84·5	128·8	64·5	0·220	40	3·1	9·7	1·0	9	94	3·6	4·4	c.g. : o.g.r. : c.f.
Mean	29·810	82·2	70·9	11·3	75·9	72·1	69·4	0·718	80·0	141·0	66·6	Sum 3·540	Sum 1577	3·9	6·3	7·31	63·2	62°.19′	9·38	10·06	..
Average	29·818	82·2	70·3	11·9	75·5	71·6	68·8	0·704	80·0	141·5	65·8	5·166	1768	4·4	5·7	7·27	62·8	71.20	9·09	10·62	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0–10)	(0–10)	hrs.		°			
May 1	29·849	81·0	70·6	10·4	74·1	69·3	65·8	0·635	75·1	140·5	65·4	0·000	..	4·4	8·0	3·4	30	22	8·1	8·5	c.f. : c.g. : c.f.
2	29·835	80·8	68·3	12·5	73·4	67·8	63·7	0·590	71·6	146·2	63·1	0·000	..	4·7	3·4	6·6	58	18	7·0	8·4	b : c.f.
3	29·811	80·8	64·6	16·2	72·6	67·5	63·7	0·590	74·1	144·1	57·4	0·000	..	3·9	3·8	8·5	75	7	5·0	6·0	b : c.f.g. : c.
4	29·825	82·5	65·9	16·6	72·9	67·5	63·5	0·586	72·9	141·7	59·8	0·000	..	4·4	5·1	8·6	77	18	4·1	5·1	c.f.
5	29·846	78·2	62·9	15·3	70·7	65·2	61·0	0·537	71·2	137·4	55·8	0·000	..	5·0	3·5	9·8	88	11	9·7	9·8	c.f.q.
6	29·838	78·8	60·9	17·9	71·0	65·4	61·1	0·539	70·6	135·0	52·8	0·000	..	4·1	1·9	10·2	91	12	9·9	10·1	c.f.
7	29·836	80·0	67·8	12·2	73·5	69·0	65·7	0·633	77·0	135·5	58·8	0·010	15	3·8	5·4	7·2	64	15	10·5	10·7	c.f. . o.g.p.
8	29·863	80·4	66·7	13·7	73·7	70·2	67·8	0·680	81·5	133·5	59·0	0·060	80	4·0	5·4	7·6	68	43	10·8	11·0	p.c.f. : g.p. : c.f. : c.p.
9	29·909	80·8	70·8	10·0	75·4	71·0	67·8	0·680	77·4	138·2	63·2	0·020	5	4·0	3·4	9·0	80	58	12·7	12·7	c.f.
10	29·967	80·5	71·5	9·0	74·5	70·7	67·9	0·682	80·0	146·7	67·2	0·130	165	4·0	5·4	7·0	62	59	11·0	11·2	c.f.p.
11	29·971	80·0	69·0	11·0	73·8	68·9	65·3	0·624	75·3	135·2	62·9	0·000	..	4·3	2·4	10·4	93	58	10·5	10·6	c.f.
12	29·937	81·3	66·8	14·5	74·0	69·6	66·4	0·648	77·0	141·7	59·2	0·000	..	5·1	3·1	10·3	93	65	10·7	10·8	c.f.
13	29·884	80·7	71·6	9·1	75·3	72·4	70·3	0·741	84·5	135·4	67·4	0·210	100	5·8	6·1	9·1	82	72	9·8	10·0	c.g.p. : c.p.
14	29·883	76·7	71·8	4·9	74·3	71·5	69·4	0·718	85·0	127·0	68·5	0·160	20	6·4	9·4	0·3	3	63	13·3	13·8	p.c. : c.q. : o.g.q.
15	29·892	77·8	71·8	6·0	74·3	71·7	69·8	0·728	86·0	139·5	70·5	0·260	205	6·8	9·1	1·6	14	63	13·1	13·0	c.p.q.
16	29·875	80·3	71·6	8·7	75·0	71·0	68·1	0·687	79·0	135·2	68·3	0·005	20	5·1	3·7	9·0	81	55	13·0	13·1	c.p. : c.f.q.
17	29·877	80·0	71·5	8·5	75·0	70·4	67·1	0·664	76·0	135·2	66·0	0·000	..	5·6	3·8	9·9	89	66	13·4	13·7	c.f.q.
18	29·907	78·2	69·8	8·4	72·4	68·8	66·1	0·641	81·4	133·0	66·1	0·180	225	6·5	6·9	6·9	62	66	13·6	13·8	c.p.q.
19	29·932	78·2	67·5	10·7	72·6	67·1	63·0	0·576	72·1	132·1	65·3	0·010	35	4·6	2·9	10·0	90	77	14·1	14·2	c.p. : c.f.q.
20	29·928	78·8	66·2	12·6	72·3	67·6	64·1	0·598	75·8	143·3	59·4	0·030	15	3·8	3·0	8·7	79	90	8·8	9·0	c.f. : p.c.f.
21	29·919	78·8	63·7	15·1	70·9	66·9	63·9	0·594	78·0	131·9	60·3	0·000	..	4·0	4·6	9·4	85	99	6·5	6·6	c.f.
22	29·929	79·5	61·5	18·0	70·0	66·2	63·3	0·582	79·0	132·1	54·1	0·000	..	4·0	6·4	8·0	73	59	6·5	6·6	c.f.
23	29·934	78·4	64·7	13·7	72·2	69·2	66·9	0·659	84·0	133·0	58·2	0·085	128	4·6	5·0	8·4	76	73	8·5	9·0	c.p.
24	29·933	78·7	66·2	12·5	73·4	69·8	67·2	0·666	81·4	131·0	66·7	0·010	30	4·4	5·6	9·6	87	73	12·5	12·6	c.q.f. : c.p.
25	29·917	79·0	65·9	13·1	72·4	69·3	67·0	0·661	83·5	134·0	60·1	0·035	70	4·6	8·7	7·5	68	62	7·0	7·1	c.f. : c.p.l.
26	29·875	76·7	62·4	14·3	69·8	66·8	64·4	0·605	83·0	127·8	62·1	0·015	20	4·1	7·0	5·8	53	62	7·9	8·0	c.g.r.t.l. : c.f.
27	29·814	78·5	61·4	17·1	69·7	65·9	63·0	0·576	79·0	132·9	54·4	0·000	..	3·8	4·5	9·7	88	33	7·7	7·8	c.f.
28	29·759	79·1	64·1	15·0	71·5	68·3	65·8	0·635	82·0	139·8	57·5	0·025	35	4·0	5·0	7·4	67	34	5·7	5·9	c.f. : c.p.
29	29·746	80·8	68·2	12·6	73·4	69·5	66·6	0·652	79·9	137·1	61·5	0·010	20	4·0	4·1	9·9	90	42	7·4	7·5	c.p. : c.f.
30	29·842	79·8	67·4	12·4	72·9	69·5	67·0	0·661	82·0	135·2	58·2	0·000	..	3·4	6·8	5·8	53	61	5·5	6·5	c.f.
31	29·931	81·3	66·1	15·2	73·2	68·8	65·5	0·628	77·2	139·5	57·0	0·000	..	3·3	3·9	6·8	62	53	6·9	8·9	b. : c.f.
Mean	29·879	79·6	67·1	12·5	72·9	68·8	65·7	0·633	79·4	136·5	61·5	Sum 1·255	Sum 1188	4·5	5·1	7·82	70·4	° ′ 54.02	8·70	9·75	..
Average	29·888	78·7	66·3	12·4	72·0	67·9	64·8	0·613	78·5	135·7	60·7	3·307	1434	4·7	5·1	7·30	65·7	64.00	8·69	10·23	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0—10)	(0—10)	hrs.		°			
June 1	29·936	79·8	67·9	11·9	73·7	68·1	64·0	0·596	71·7	133·2	61·3	0·000	..	3·5	1·6	10·4	95	37	16·8	16·9	c.f.
2	29·920	78·6	69·9	8·7	72·8	68·0	64·4	0·605	75·8	132·2	63·0	0·000	..	2·6	7·0	3·0	28	25	13·0	13·2	c.
3	29·944	77·8	69·8	8·0	73·0	69·3	66·5	0·650	80·5	132·2	63·6	0·000	..	4·4	9·5	2·8	26	53	8·6	8·7	c.g.
4	29·960	79·8	67·9	11·9	72·7	68·6	65·5	0·628	78·2	131·9	61·0	0·000	..	5·4	3·0	10·2	94	59	9·2	9·4	c.f.
5	29·938	80·2	66·9	13·3	72·6	67·6	63·9	0·594	74·6	141·1	59·2	0·000	..	5·0	5·9	6·8	62	49	7·2	7·6	c.f.
6	29·900	80·7	68·7	12·0	73·6	68·5	64·7	0·611	74·1	136·3	61·2	0·000	..	4·7	5·3	9·7	89	35	10·7	11·1	c.f.
7	29·901	79·8	66·8	13·0	71·8	66·5	62·5	0·566	72·3	138·5	59·3	0·000	..	5·4	3·0	7·6	70	43	9·3	9·4	c.f.
8	29·920	79·5	64·7	14·8	71·5	67·1	63·8	0·592	76·0	133·5	55·6	0·000	..	5·4	2·4	9·8	90	65	8·7	9·1	c.f.
9	29·885	79·7	65·7	14·0	72·3	68·8	66·1	0·641	81·8	135·4	57·8	0·000	..	2·5	8·3	3·6	33	91	6·4	6·7	c.f.
10	29·866	79·8	66·8	13·0	72·2	68·8	66·2	0·644	82·2	121·0	62·5	0·000	..	2·0	9·3	2·8	26	72	4·1	5·1	c. : o.g.
11	29·881	80·6	63·9	16·7	71·2	67·1	64·0	0·596	77·5	130·1	56·2	0·000	..	2·8	2·4	10·1	93	64	5·9	6·5	c.f.
12	29·904	79·9	64·1	15·8	71·7	68·2	65·5	0·628	80·5	135·0	56·3	0·085	40	3·3	7·9	3·1	28	68	4·8	5·6	c. : c.g.p.
13	29·914	80·7	65·7	15·0	70·9	68·7	67·0	0·661	87·0	137·2	59·6	0·820	175	3·2	5·5	4·9	45	91	3·0	4·4	c.f. : o.g.r.
14	29·854	79·6	68·0	11·6	72·8	70·1	68·1	0·687	85·5	136·8	61·4	0·410	35	3·0	5·2	7·9	72	135	3·7	7·7	c.f. : : r : c.f.
15	29·855	79·6	66·7	12·9	71·5	67·9	65·1	0·620	80·0	133·2	61·2	0·000	..	3·6	7·4	4·7	43	40	3·6	6·3	c.g. : c.f.
16	29·955	73·6	61·4	12·2	67·7	62·3	58·0	0·482	71·0	132·1	55·7	0·000	..	4·6	7·9	5·5	50	28	10·8	11·0	c.f.
17	30·014	73·6	58·8	14·8	65·4	59·0	53·8	0·415	66·4	131·1	48·2	0·000	..	5·0	6·9	6·5	60	11	8·9	9·1	c.g. : c.f.
18	29·997	73·5	58·8	14·7	66·5	60·8	56·3	0·454	70·0	131·8	52·5	0·000	..	5·6	3·0	9·2	84	16	10·8	11·2	c f.
19	29·971	73·3	53·8	19·5	64·5	59·8	55·9	0·447	74·0	133·9	50·0	0·000	..	5·4	4·7	9·0	83	22	9·8	10·0	c.f.
20	29·966	73·6	53·8	19·8	64·0	59·1	55·0	0·433	72·5	129·9	46·1	0·000	..	5·0	3·0	9·5	87	42	9·7	10·2	c.f.
21	29·959	74·5	62·5	12·0	67·6	61·9	57·4	0·472	69·5	126·1	50·3	0·000	..	5·0	2·1	10·1	93	53	12·9	13·3	c.f. : c.f.q.
22	29·965	74·7	57·5	17·2	66·7	61·3	57·0	0·465	71·7	128·5	47·0	0·000	..	4·4	4·2	8·9	82	69	11·0	11·2	c.f.q.
23	29·964	77·1	61·0	16·1	68·1	64·2	61·1	0·539	78·5	134·0	53·2	0·000	..	4·3	6·6	5·1	47	76	6·8	7·0	c.f. : c.g.
24	29·945	78·5	61·5	17·0	69·1	64·4	60·8	0·533	74·6	136·3	53·0	0·000	..	4·2	2·8	9·0	83	34	8·2	8·6	c.f.
25	29·989	76·0	56·7	19·3	67·4	61·7	57·2	0·469	69·5	127·0	47·1	0·000	..	4·0	1·6	10·3	94	28	9·9	10·2	c.f.
26	30·060	74·6	57·7	16·9	67·0	62·1	58·2	0·485	73·5	131·1	48·9	0·000	..	4·0	4·4	10·0	92	53	12·7	13·0	c.f.q.
27	30·067	74·8	56·8	18·0	65·9	60·5	56·1	0·451	71·0	131·7	49·6	0·000	..	4·3	1·9	10·3	94	55	10·6	10·6	c.f.
28	30·051	73·9	52·8	21·1	62·1	57·4	53·4	0·409	73·5	122·3	44·6	0·000	..	4·2	1·0	10·3	94	45	8·1	8·2	b.
29	30·023	74·5	50·8	23·7	61·6	57·0	53·0	0·403	74·0	138·3	43·3	0·000	..	4·0	3·6	9·4	86	45	4·3	6·1	c.f.
30	30·013	76·2	51·8	24·4	63·8	59·1	55·1	0·434	74·3	137·3	44·1	0·025	10	4·0	3·2	10·3	94	23	7·6	8·0	c.f. : p.
Mean	29·951	77·3	62·0	15·3	69·1	64·5	60·9	0·535	75·1	132·6	54·4	Sum 1·340	Sum 260	4·2	4·7	7·69	70·6	44°.38′	7·90	9·18	..
Average	29·964	76·0	62·4	13·6	68·6	64·2	60·7	0·531	76·0	132·0	56·4	2·002	1213	5·0	4·9	7·46	68·4	60.27	10·22	11·30	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0–10)	(0–10)	hrs.		°			
July 1	30·090	72·7	61·9	10·8	66·2	60·0	55·0	0·433	67·2	122·8	57·5	0·020	7	5·2	6·0	8·0	73	49	12·4	12·8	c.f.q. : p.
2	30·104	73·8	60·9	12·9	65·6	62·0	59·0	0·500	80·0	127·6	55·1	0·090	70	6·0	6·4	7·1	65	61	10·2	10·2	c.p. : c.f.q.
3	30·100	73·5	58·9	14·6	66·4	63·1	60·5	0·528	81·5	127·8	53·1	0·055	45	5·4	5·2	8·5	78	63	11·5	11·9	c.p.q. : c.f.
4	30·086	73·9	61·1	12·8	66·9	62·3	58·6	0·492	75·0	132·7	52·2	0·060	23	5·0	3·4	9·8	90	59	11·6	11·8	c.f.q. : p.
5	30·083	74·2	60·7	13·5	66·8	60·9	56·2	0·453	69·3	123·6	57·4	0·015	15	5·0	3·4	10·2	94	67	11·2	11·3	c.p. : c.f.
6	30·052	75·8	57·5	18·3	66·8	62·2	58·5	0·491	75·0	128·3	50·4	0·305	115	5·6	2·1	9·7	89	62	9·2	9·4	c.f. : c.p.
7	29·988	75·7	65·9	9·8	69·0	65·9	63·5	0·586	82·5	130·9	62·7	0·425	185	5·4	8·7	5·3	49	95	10·1	10·5	c.p. : o.g.r. : c.f.
8	29·967	75·8	64·9	10·9	69·5	65·3	62·0	0·556	77·0	131·4	60·4	0·000	..	4·4	4·3	9·8	90	87	10·1	10·3	c.f.
9	29·950	76·6	61·0	15·6	68·6	64·9	61·9	0·554	79·5	133·8	58·5	0·000	..	4·6	3·1	10·0	92	93	6·2	6·5	c.f.
10	29·957	77·0	57·8	19·2	66·8	63·1	60·1	0·520	79·5	130·1	52·5	0·000	..	5·0	3·4	8·5	78	50	1·4	4·7	c.f.
11	29·996	76·8	58·7	18·1	66·7	62·9	59·9	0·516	79·0	137·1	53·2	0·000	..	5·0	6·6	7·7	71	42	3·3	5·9	c.f.
12	30·038	76·2	56·0	20·2	65·2	59·9	55·6	0·443	71·7	133·3	48·2	0·000	..	5·6	2·9	9·4	86	22	9·5	9·7	c.f.
13	30·057	73·2	57·0	16·2	65·4	59·8	55·2	0·436	70·4	129·3	51·0	0·000	..	6·0	6·2	7·4	68	40	8·4	8·8	c.f. : c.g.p. : o.g.
14	30·072	73·6	61·9	11·7	67·5	60·6	55·1	0·434	64·4	127·8	55·2	0·000	..	5·4	9·7	3·8	35	64	11·0	11·3	o.g. : c.f. : c.g.
15	30·065	76·1	63·7	12·4	68·1	63·0	59·0	0·500	72·5	135·5	60·7	0·020	25	5·6	7·9	5·4	49	64	9·3	9·8	c.p.
16	30·049	75·6	61·1	14·5	68·3	64·6	61·6	0·548	79·5	136·3	55·4	0·000	..	6·4	6·9	5·3	48	51	8·8	9·3	c.f.
17	30·013	74·2	61·9	12·3	67·5	63·9	61·1	0·539	80·0	125·0	56·5	0·020	45	6·8	6·7	4·8	44	52	10·5	10·8	c.f. : c.g.p.
18	29·960	73·5	56·1	17·4	65·4	62·2	59·6	0·511	82·0	124·3	49·9	0·100	145	6·7	5·4	5·0	45	58	9·6	10·0	c.f. : c.g.p.
19	29·950	75·0	60·7	14·3	67·5	62·1	57·8	0·479	71·0	122·8	59·6	0·005	15	6·1	2·9	9·9	90	62	10·7	10·8	c.f.
20	30·012	74·8	59·9	14·9	66·7	63·7	61·3	0·543	83·0	130·9	54·1	0·170	160	6·7	8·4	6·0	55	80	10·2	10·9	c.g.p.
21	30·100	73·5	62·0	11·5	67·3	62·3	58·3	0·487	73·0	130·0	57·6	0·050	35	7·6	4·6	9·0	82	63	13·6	13·8	c.p. : c.f. : c.p.
22	30·119	73·8	62·7	11·1	66·5	60·5	55·7	0·444	68·5	129·9	58·4	0·025	70	6·7	7·4	6·8	61	62	15·6	15·8	p. : c.f.q.
23	30·115	72·2	62·7	9·5	66·1	59·2	53·6	0·412	64·4	130·3	58·9	0·000	..	6·0	8·6	5·9	53	58	14·3	14·3	c.g.q.
24	30·062	73·5	58·7	14·8	64·8	60·6	57·1	0·467	76·0	133·0	52·4	0·090	185	5·4	5·7	7·5	68	63	11·6	11·9	c.g.p. : c.f. : c.g. : c.f.p.
25	30·050	71·7	61·8	9·9	65·7	61·9	58·8	0·496	79·0	127·3	56·3	0·355	215	5·0	4·7	9·2	83	58	14·5	14·7	c.p. : c.f.q.
26	30·017	71·9	56·9	15·0	65·0	60·9	57·5	0·473	77·5	131·8	51·3	0·165	45	5·3	4·5	8·3	75	62	11·2	11·5	c.f.p.q.
27	29·983	73·6	61·2	12·4	66·5	61·1	56·8	0·462	71·5	127·0	55·6	0·060	40	5·8	2·9	9·8	88	63	12·4	12·5	c.p. : c.f.q.
28	29·983	74·6	59·8	14·8	66·7	60·9	56·3	0·454	69·7	131·4	54·0	0·000	..	5·7	3·1	10·4	94	72	13·2	13·4	c.f.q.
29	30·027	72·8	60·8	12·0	65·6	62·3	59·6	0·511	81·5	133·5	56·2	0·345	162	6·5	7·6	7·2	64	59	11·1	11·3	c.g.p. : o.g.p. : c.p.q.
30	30·050	73·5	55·9	17·6	65·0	59·2	54·5	0·425	69·0	128·4	49·5	0·025	15	6·3	2·2	10·0	89	66	10·1	10·3	c.p. : c.f.
31	30·070	75·6	57·9	17·7	65·9	60·6	56·3	0·454	71·5	139·5	51·8	0·000	..	6·0	3·6	9·9	88	71	11·3	11·7	c.f.
Mean	30·038	74·4	60·3	14·1	66·6	62·0	58·3	0·487	75·0	130·1	55·0	Sum 2·400	Sum 1617	5·7	5·3	7·92	72·0	62.23	10·20	10·90	..
Average	30·008	75·1	61·4	13·7	67·6	63·1	59·6	0·511	75·5	131·2	55·8	2·354	1577	5·3	5·1	7·66	69·7	64.52	10·88	11·87	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0—10)	(0—10)	hrs.		°			
August 1	30·086	72·8	58·0	14·8	65·7	59·8	55·0	0·433	69·2	124·4	51·8	0·000	..	6·0	4·7	5·9	53	60	9·4	9·4	c.f.q.
2	30·023	74·6	62·3	12·3	68·6	62·8	58·3	0·487	69·0	134·8	57·0	0·020	15	6·0	7·9	2·3	21	71	10·7	11·0	p.c. : c.
3	29·923	75·9	61·4	14·5	68·2	63·0	58·9	0·498	72·0	131·4	56·0	0·000	..	5·7	3·2	10·3	92	92	7·8	8·1	c.f.
4	29·888	78·9	59·3	19·6	67·1	63·6	60·8	0·533	80·5	144·4	55·0	0·000	..	5·2	6·5	4·9	44	63	0·8	5·3	c.f. : c.g. : c.f.
5	29·951	78·0	58·9	19·1	67·1	63·5	60·6	0·529	80·0	134·8	55·1	0·000	..	5·6	4·5	7·2	64	51	2·3	4·3	c.f. : c.g.
6	29·984	76·6	58·8	17·8	68·8	64·5	61·1	0·539	76·5	130·9	53·1	0·000	..	6·4	7·9	1·1	10	39	10·2	10·4	c.
7	29·982	76·7	63·9	12·8	70·0	65·1	61·3	0·543	73·5	133·8	63·4	0·000	..	5·8	6·4	9·1	81	59	11·4	11·5	c.f.q.
8	29·992	74·8	60·6	14·2	66·8	60·7	55·9	0·447	68·3	135·2	54·9	0·000	..	5·8	4·4	9·8	87	63	8·7	8·7	c.f. : c.q.
9	30·023	72·5	57·7	14·8	65·5	59·2	54·1	0·419	67·0	129·8	54·6	0·000	..	5·7	8·9	3·8	34	49	5·4	5·7	c.f.
10	30·066	74·7	53·9	20·8	63·6	58·0	53·3	0·407	69·6	133·8	47·5	0·000	..	6·2	3·5	9·7	86	53	6·9	7·1	b. : c.f.
11	30·104	73·8	58·1	15·7	65·9	59·7	54·6	0·427	67·9	134·7	49·5	0·000	..	5·5	8·9	4·1	36	59	9·7	10·0	c.g.q.
12	30·109	74·5	61·0	13·5	66·8	61·8	57·8	0·479	73·8	128·1	53·5	0·020	10	6·3	7·2	5·2	46	68	10·2	10·7	p.c. : c.g.q.
13	30·085	73·5	59·5	14·0	66·4	60·3	55·4	0·439	67·9	131·7	53·0	0·030	90	6·3	6·5	8·5	75	65	11·8	11·8	p.c. : c.f.
14	30·082	72·3	57·6	14·7	64·4	58·7	54·0	0·418	68·9	131·3	53·0	0·000	..	6·0	8·7	2·9	26	67	7·2	7·8	c.
15	30·087	73·0	51·9	21·1	61·5	56·2	51·7	0·384	70·5	133·0	46·1	0·020	35	5·7	3·3	9·6	84	60	6·2	6·6	p.c. : c.f.
16	30·105	73·4	50·9	22·5	63·2	59·2	55·8	0·446	77·2	125·6	45·3	0·070	45	5·8	7·6	3·8	33	58	6·6	7·0	c.f. : c.p.
17	30·104	74·0	60·9	13·1	66·1	62·6	59·8	0·514	80·5	131·1	55·0	0·080	145	6·0	6·5	7·7	68	69	12·1	12·4	c.f. : c.g.q.p.
18	30·106	74·9	62·6	12·3	67·6	63·3	59·9	0·516	76·5	139·3	57·5	0·040	100	6·7	7·6	4·0	35	69	13·4	13·7	c.p.q.
19	30·093	75·9	63·7	12·2	68·4	63·1	58·9	0·498	71·5	131·0	58·5	0·010	8	6·7	3·4	8·9	78	78	11·6	11·6	c.f.q.
20	30·052	76·5	59·6	16·9	67·8	63·1	59·4	0·507	74·5	131·6	54·1	0·010	10	6·1	4·0	10·3	90	77	9·9	10·3	c.f. : c.p.
21	30·026	77·8	61·2	16·6	68·9	63·5	59·2	0·503	71·0	134·0	55·9	0·025	30	6·0	2·2	10·7	93	65	10·7	10·7	p.c. : c.f.
22	30·033	78·6	64·2	14·4	70·2	65·1	61·1	0·539	72·7	137·1	58·5	0·010	10	6·0	5·5	5·9	51	83	8·3	9·1	c.f. : c.p.
23	30·074	76·6	65·1	11·5	70·2	65·7	62·2	0·560	75·7	133·5	61·1	0·055	65	6·0	7·2	6·0	52	75	12·3	12·7	p.c. : c.f. . c.g.q.p.
24	30·053	77·4	63·9	13·5	69·5	64·1	59·9	0·516	71·5	132·7	61·5	0·025	135	6·0	4·9	8·7	76	76	13·6	13·7	c.g.d. : c.g.f.
25	30·023	76·6	61·6	15·0	68·1	62·3	57·8	0·479	69·0	130·0	54·1	0·100	95	5·1	1·6	9·9	86	67	14·5	14·8	c.f.q. : c.p.
26	29·988	75·5	62·6	12·9	67·7	62·0	57·5	0·473	69·5	129·8	60·0	0·180	185	5·8	2·6	10·5	91	63	14·7	14·6	c.p. : c.f.
27	29·981	75·9	62·8	13·1	68·6	62·0	56·8	0·462	65·0	135·2	57·3	0·000	..	5·8	4·7	10·2	88	64	11·9	12·1	c.f.
28	29·954	78·0	63·2	14·8	69·4	62·6	57·3	0·470	64·8	131·9	58·5	0·000	..	6·2	2·7	8·7	75	67	10·7	10·8	c.f.
29	29·955	78·1	60·0	18·1	68·3	62·4	57·8	0·479	68·5	135·0	54·2	0·000	..	5·8	3·8	8·8	76	73	8·3	8·5	c.f.
30	29·981	78·8	59·5	19·3	68·5	63·6	59·7	0·512	73·5	144·4	54·2	0·000	..	6·2	4·4	6·9	59	69	5·7	6·9	c.f. : c.l.
31	30·040	72·9	64·9	8·0	68·7	65·4	62·8	0·572	81·5	103·8	59·7	1·260	240	6·1	10·0	0·0	0	74	11·9	12·5	c.f. : r.o. : p.c. : o.g.
Mean	30·031	75·6	60·3	15·3	67·3	62·2	58·1	0·483	72·5	132·2	55·1	Sum 1·955	Sum 1218	6·0	5·5	6·95	61·0	66°.59′	9·39	10·00	..
Average	30·010	75·6	62·1	13·5	68·0	63·3	59·6	0·511	74·5	134·7	56·2	3·092	1822	5·3	5·5	7·51	65·9	67.25	11·22	12·36	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0—10)	(0—10)	hrs.		°			
Sept. 1	30·076	76·2	65·7	10·5	70·1	64·2	59·7	0·512	99·4	135·0	63·6	0·035	80	6·0	5·3	9·6	82	76	18·0	18·0	c.f.q. : c.p.
2	30·043	76·6	63·9	12·7	69·2	63·9	59·8	0·514	71·7	133·0	61·8	0·010	35	5·1	3·7	9·4	80	76	14·4	14·6	c.f.q.
3	30·023	75·7	61·9	13·8	67·6	62·5	58·5	0·491	72·5	137·2	57·1	0·000	..	3·3	5·4	6·7	57	76	10·1	10·4	c.f.q.
4	29·995	77·6	59·9	17·7	68·3	62·6	58·1	0·483	69·5	135·9	54·6	0·000	..	2·8	2·2	11·1	95	97	7·2	7·4	c.f.q.
5	29·981	78·7	60·6	18·1	69·0	63·8	59·7	0·512	72·0	142·8	56·1	0·000	..	3·6	4·4	9·1	78	99	7·0	8·0	c.f.
6	29·991	78·6	58·7	19·9	66·8	63·3	60·5	0·528	80·5	142·6	54·0	0·200	90	3·4	5·0	5·9	50	88	3·8	5·6	b : p.c : c.f.
7	30·017	75·9	59·2	16·7	66·4	63·1	60·5	0·528	81·5	129·3	55·0	0·040	55	3·0	8·4	2·0	17	54	5·1	5·8	c.p : c.g.
8	29·993	75·8	60·8	15·0	68·7	64·5	61·1	0·539	77·0	131·9	55·3	0·000	..	3·0	6·4	2·2	19	67	8·6	9·0	c.
9	29·970	77·8	62·6	15·2	69·8	64·7	60·8	0·533	73·3	142·1	57·4	0·000	..	3·6	6·4	7·0	59	90	9·1	9·3	c.f.
10	29·995	78·6	60·9	17·7	70·6	64·5	59·8	0·514	68·6	131·2	61·0	0·025	25	4·0	2·0	10·7	91	85	8·9	9·3	b.f.
11	30·035	78·5	59·7	18·8	69·6	64·0	59·7	0·512	70·6	140·4	53·9	0·000	..	4·6	6·6	8·5	71	67	11·2	11·4	c.g.p. : c.f.
12	30·027	77·7	65·7	12·0	70·9	65·5	61·4	0·545	71·9	143·1	64·5	0·075	90	5·6	8·0	7·4	62	68	12·4	12·8	c.g. : p.c.
13	30·019	76·6	60·9	15·7	69·2	63·4	58·9	0·498	69·2	137·1	61·5	0·015	65	6·0	5·9	9·3	78	64	11·1	11·1	c.p. : c.f.
14	30·000	78·4	56·4	22·0	67·8	61·6	56·7	0·461	67·0	136·4	50·5	0·000	..	6·0	1·7	11·1	93	61	9·8	10·0	c.f.
15	30·001	77·6	58·8	18·8	67·9	60·6	54·8	0·430	62·8	136·4	54·0	0·000	..	5·4	3·0	9·9	83	52	11·0	11·3	c.f.
16	30·009	75·3	58·1	17·2	67·9	59·6	53·1	0·404	58·8	128·2	52·2	0·000	..	4·1	2·7	10·8	91	55	14·4	14·6	c.f.q.
17	30·021	72·8	64·0	8·8	67·3	59·3	52·9	0·401	60·0	117·8	61·0	0·000	..	3·8	9·5	2·3	19	46	8·4	8·7	o.g. : c.q.
18	29·984	74·6	64·8	9·8	67·3	60·7	55·4	0·439	65·6	142·8	60·4	0·000	..	3·4	8·5	3·9	32	61	9·2	9·6	o. : c.g.
19	29·974	78·7	60·7	18·0	69·4	63·4	58·7	0·494	68·4	144·1	54·3	0·000	..	3·3	5·8	8·6	72	66	8·2	8·8	c.f.
20	29·994	78·6	65·2	13·4	71·0	64·4	59·4	0·507	66·6	137·7	64·1	0·000	..	2·6	7·3	7·1	59	82	10·7	11·3	c.f.q.
21	29·996	80·7	62·8	17·9	70·5	64·0	59·0	0·500	67·0	139·5	57·0	0·000	..	2·3	4·2	7·4	62	72	8·3	8·6	c.f.
22	29·993	78·6	63·6	15·0	70·2	64·4	59·9	0·516	69·8	146·7	57·0	0·000	..	2·8	5·1	6·9	57	64	9·9	10·2	c.f.
23	30·016	79·8	60·8	19·0	69·0	63·4	59·0	0·500	70·0	142·8	55·2	0·000	..	3·3	4·7	6·5	54	48	6·1	8·9	c.f. : c.g.
24	30·036	78·6	57·8	20·8	69·7	62·5	57·0	0·465	63·2	138·1	52·1	0·000	..	3·8	3·2	11·2	93	55	11·9	12·2	c.f.q.
25	30·058	78·8	59·9	18·9	69·7	61·9	55·8	0·446	60·8	138·8	52·7	0·000	..	3·7	3·1	10·4	86	70	10·4	10·7	c.f. : f.q.
26	30·045	78·7	56·9	21·8	68·0	60·5	54·6	0·427	62·0	131·7	52·3	0·000	..	3·2	3·0	10·2	84	65	8·6	8·9	c.f.
27	30·035	77·4	53·8	23·6	67·0	60·5	55·3	0·437	66·0	138·3	48·0	0·000	..	3·0	4·0	9·9	81	63	8·1	8·4	c.f.
28	29·997	81·0	60·2	20·8	70·0	63·3	58·1	0·483	66·2	144·8	54·0	0·000	..	3·6	4·4	9·0	74	87	7·7	8·1	c.f.
29	29·969	80·7	59·8	20·9	69·3	63·0	58·1	0·483	66·8	134·8	54·2	0·000	..	4·0	3·2	9·6	79	62	8·0	8·7	c.f.
30	29·985	82·1	60·0	22·1	70·6	64·2	59·3	0·505	67·4	145·0	54·2	0·000	..	4·0	4·0	10·6	87	60	9·5	9·6	c.f.
Mean	30·009	77·9	60·8	17·1	69·0	62·9	58·1	0·483	67·6	137·5	56·3	Sum 0·400	Sum 440	3·9	4·9	8·14	68·2	68°.34′	9·36	10·05	..
Average	29·998	77·6	62·7	14·9	69·5	64·2	60·1	0·520	72·0	139·1	57·2	1·303	944	4·9	5·9	7·99	66·9	71.16	10·77	11·91	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0—10)	(0—10)	hrs.		°			
Oct. 1	30·009	79·5	62·0	17·5	71·1	64·3	59·1	0·501	65·8	141·1	55·8	0·000	..	4·0	8·6	8·0	66	60	11·1	11·4	c.f.
2	30·048	79·1	68·5	10·6	72·3	63·1	56·2	0·453	56·5	138·7	64·9	0·000	..	4·0	5·9	9·0	74	66	14·4	14·6	o. : c.f.q.
3	30·045	76·8	64·5	12·3	69·7	62·2	56·4	0·456	62·0	137·0	64·2	0·035	55	5·2	8·7	5·3	43	72	14·2	14·5	o.g. : c.q.p.
4	30·016	77·0	63·4	13·6	69·8	64·2	59·9	0·516	71·8	140·5	59·0	0·040	50	6·0	8·0	9·7	79	78	11·9	12·1	p.o.g. : c.f.q.
5	30·012	78·8	63·9	14·9	70·0	65·1	61·3	0·543	73·5	144·4	58·9	0·065	85	5·4	6·9	8·3	67	82	11·2	12·0	c.p. : c.f.q. : c.p.
6	30·041	81·7	65·6	16·1	72·6	65·4	60·0	0·518	64·2	137·7	61·0	0·000	..	5·0	4·5	9·8	80	85	14·0	14·6	c.f.q.
7	30·046	79·2	65·8	13·4	71·4	65·3	60·7	0·531	68·6	145·2	60·0	0·140	115	3·8	8·6	6·9	56	85	13·0	13·3	c.g.p. : c.f.q.
8	30·003	81·7	63·8	17·9	71·7	64·7	59·4	0·507	65·0	140·8	57·8	0·000	..	3·3	3·5	11·1	90	84	10·2	10·5	c.f.
9	29·933	80·1	63·6	16·5	71·4	65·4	60·8	0·533	69·0	150·2	57·4	0·000	..	3·5	7·8	3·9	31	94	9·4	9·8	c.f. : o. : c.g.
10	29·892	80·8	65·0	15·8	71·7	66·1	61·9	0·554	70·7	142·8	60·0	0·000	..	3·2	6·8	3·4	27	98	4·5	5·2	c.f.
11	29·944	82·3	60·0	22·3	70·7	64·3	59·4	0·507	67·4	146·9	54·0	0·000	..	3·3	3·8	8·1	65	47	4·2	6·8	c.f.
12	30·009	82·6	60·9	21·7	71·9	65·6	60·9	0·535	67·8	142·2	55·3	0·000	..	3·8	3·0	10·6	85	85	8·2	8·5	c.f.
13	30·018	82·7	64·3	18·4	72·9	67·0	62·6	0·568	70·4	144·0	58·3	0·025	25	3·1	4·7	10·4	84	67	8·6	8·7	c.f. : p.c. : c.f. : c.p.
14	29·994	81·8	65·0	16·8	72·4	66·5	62·1	0·558	69·9	147·1	60·1	0·015	35	3·4	5·2	10·3	83	66	9·4	9·5	c.f.
15	30·018	81·9	61·0	20·9	72·0	64·7	59·2	0·503	63·8	141·1	55·1	0·000	..	5·9	3·9	11·4	91	66	9·8	10·3	c.f.
16	30·053	81·6	66·4	15·2	72·5	65·7	60·6	0·529	65·8	142·8	63·7	0·115	45	5·7	3·5	10·8	86	62	13·3	13·5	p.c. : c.f.q.
17	30·062	78·8	65·8	13·0	71·2	65·6	61·3	0·543	70·6	139·7	61·4	0·495	190	6·3	5·2	9·8	78	68	16·0	16·3	p.c.q. : r.c.
18	30·065	79·7	65·6	14·1	72·2	65·7	60·8	0·533	67·0	142·5	62·8	0·290	170	5·1	5·2	10·9	87	77	15·1	15·4	c.p. : c.f.q.
19	30·043	78·9	65·9	13·0	70·9	65·3	61·0	0·537	70·9	145·2	62·9	0·070	95	4·0	8·4	6·3	50	84	14·6	14·9	c.p.q. : c.f.
20	30·002	80·7	63·2	17·5	70·9	64·6	59·8	0·514	67·8	138·5	59·7	0·000	..	2·1	4·6	9·8	78	86	10·3	10·6	c.f.
21	29·959	81·8	59·7	22·1	69·8	64·5	60·4	0·526	72·3	143·7	54·8	0·060	55	1·7	4·9	8·7	69	85	3·9	6·4	b. : c.f. : c.p. : c.f.
22	29·934	81·4	58·9	22·5	67·7	64·0	61·0	0·537	79·5	143·6	54·2	0·260	135	2·0	5·4	6·4	51	58	3·5	5·6	b. : c.g.p. : c.g.
23	29·952	81·8	59·4	22·4	70·0	64·6	60·4	0·526	71·4	139·2	55·3	0·050	80	2·0	5·0	8·9	71	34	5·0	7·4	b. : c.g.
24	29·959	81·8	62·3	19·5	72·3	66·6	62·3	0·562	70·8	140·4	57·9	0·000	..	2·6	3·6	11·2	88	65	10·5	10·8	c.p. : c.f.
25	29·965	79·7	63·7	16·0	71·4	66·2	62·3	0·562	72·4	146·2	58·2	0·000	..	3·0	8·0	7·9	62	76	11·1	11·3	c.g.q.
26	29·986	81·9	64·9	17·0	73·2	66·4	61·4	0·545	66·8	144·8	59·2	0·000	..	3·6	4·9	10·3	81	89	10·3	10·7	c.f.
27	29·982	82·9	65·8	17·1	73·8	65·5	59·4	0·507	61·6	136·8	62·9	0·000	..	4·0	1·2	11·4	90	65	11·2	11·3	b.
28	29·930	84·5	63·5	21·0	72·4	64·6	58·7	0·494	61·8	146·0	57·2	0·000	..	3·7	5·4	8·1	63	49	7·0	7·9	c.f.
29	29·892	79·6	60·4	19·2	69·6	64·5	60·6	0·529	73·1	135·5	54·4	0·000	..	4·1	7·2	2·5	20	54	6·6	7·1	b. : c.g.
30	29·904	83·0	64·7	18·3	72·6	65·7	60·5	0·528	65·4	146·9	60·7	0·000	..	4·2	4·1	7·8	61	96	6·3	7·8	b. : c.f.
31	29·938	83·3	63·0	20·3	72·1	66·3	61·9	0·554	70·1	144·0	58·3	0·000	..	2·8	6·5	6·4	50	131	6·1	6·6	c.f. : c.g.
Mean	29·989	80·9	63·6	17·3	71·4	65·2	60·5	0·528	68·2	142·4	58·9	Sum 1·660	Sum 1135	3·9	5·6	8·50	68·0	74°.54′	9·52	10·50	..
Average	29·939	81·2	64·6	16·6	72·1	66·4	62·1	0·558	70·6	143·6	59·2	1·219	772	4·2	5·7	8·09	64·7	78.14	9·26	11·06	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins.	mins.	(0–10)	(0–10)	hrs.		°			
Nov. 1	29·937	83·2	60·0	23·2	71·0	65·0	60·4	0·526	69·0	144·1	54·2	0·000	..	1·3	7·8	10·0	78	41	3·2	6·2	c.f.
2	29·904	84·4	57·9	26·5	72·8	65·5	60·0	0·518	63·8	145·0	52·2	0·000	..	1·0	1·5	11·6	91	94	4·8	5·5	c.f. : b.f.
3	29·890	84·3	61·8	22·5	73·5	66·8	61·9	0·554	67·2	146·4	55·9	0·000	..	2·3	4·4	8·8	69	84	1·5	5·3	c.f.
4	29·923	81·8	67·9	13·9	74·1	67·4	62·5	0·566	67·2	146·7	64·3	0·100	80	3·0	3·2	11·3	88	58	12·3	12·8	p.c. : c.f.q.
5	29·944	83·1	64·0	19·1	72·5	65·3	59·9	0·516	64·2	148·0	60·7	0·000	..	3·6	5·6	8·1	63	90	9·6	10·0	c. : c.f.
6	29·946	84·5	62·8	21·7	73·1	65·1	59·2	0·503	62·1	146·4	57·1	0·000	..	3·7	3·0	11·8	91	97	8·8	9·0	b. : c.f.
7	29·956	84·7	65·9	18·8	74·3	65·5	59·1	0·501	59·1	148·0	60·4	0·000	..	3·2	4·8	9·2	71	95	8·4	8·9	c.f.
8	29·945	83·9	65·1	18·8	75·1	66·2	59·8	0·514	58·5	148·7	59·2	0·000	..	3·6	8·5	8·9	69	84	9·9	10·6	c.f. : c.p.
9	29·916	83·1	65·8	17·3	74·0	66·1	60·4	0·526	62·4	148·2	58·8	0·030	95	3·4	5·6	9·8	76	69	11·0	11·4	c.f. : c.p.
10	29·891	83·6	65·7	17·9	73·9	66·6	61·2	0·541	64·8	150·2	61·2	0·020	50	4·2	6·2	10·2	79	91	10·1	10·4	c.p. : c.f.
11	29·874	84·0	64·8	19·2	74·9	67·6	62·3	0·562	64·8	144·6	58·8	0·000	..	4·4	4·6	8·7	67	95	9·8	10·4	c.f.
12	29·875	83·5	69·6	13·9	75·5	69·5	65·2	0·622	70·0	146·8	66·3	0·180	120	4·0	7·8	9·9	76	103	13·2	13·3	o.g.p. : c.f.q.
13	29·895	83·7	66·8	16·9	74·6	68·6	64·2	0·601	70·0	147·3	61·9	0·025	25	4·0	5·5	8·3	64	99	8·9	9·1	c.p. : c.f.
14	29·899	84·4	64·7	19·7	74·0	67·7	63·1	0·578	68·8	146·5	59·8	0·000	..	4·6	7·5	6·6	51	45	4·2	7·1	c.f. : c.g.
15	29·919	83·6	68·5	15·1	75·2	68·1	63·0	0·576	65·6	144·4	63·5	0·000	..	5·0	5·5	11·0	85	85	9·3	9·9	c.f.
16	29·888	84·6	66·9	17·7	75·3	68·0	62·8	0·572	64·8	146·6	60·5	0·095	75	5·0	6·0	10·7	82	90	9·9	10·4	c.p. : c. : c.p.
17	29·840	81·8	68·7	13·1	74·0	69·0	65·3	0·624	74·0	145·0	63·9	0·225	145	4·7	7·6	5·5	42	101	8·2	8·3	c.p.g. : c.f.
18	29·884	83·6	66·9	16·7	75·1	67·6	62·2	0·560	64·1	145·2	63·5	0·065	100	3·9	3·4	10·5	81	88	10·3	10·9	c.p. : b. : c.f.
19	29·886	84·1	69·8	14·3	76·3	68·4	62·8	0·572	63·7	143·9	62·2	0·030	55	4·4	5·0	10·8	83	98	11·4	11·6	p.c. : c.f.
20	29·849	81·6	68·9	12·7	74·2	69·3	65·7	0·633	74·7	144·4	63·6	0·365	155	4·7	9·4	2·1	16	111	7·1	8·6	p. : c.g.
21	29·870	87·5	70·9	16·6	77·3	70·4	65·6	0·630	67·4	146·0	67·8	0·000	..	4·8	5·6	8·1	62	113	7·9	8·0	c.f.
22	29·914	85·3	66·8	18·5	75·7	68·0	62·5	0·566	63·2	147·8	61·8	0·000	..	5·6	4·1	11·0	84	81	8·0	8·4	c.f.
23	29·923	85·6	71·7	13·9	77·4	69·5	64·0	0·596	63·8	145·9	66·7	0·000	..	5·7	5·8	12·0	92	79	13·1	13·6	c.f.q.
24	29·902	84·8	69·9	14·9	76·3	68·1	62·3	0·562	62·5	150·5	66·0	0·000	..	4·0	5·1	10·8	82	73	10·8	11·0	c.f.q.
25	29·892	84·9	66·9	18·0	75·7	67·2	61·1	0·539	60·7	148·3	61·3	0·000	..	3·6	5·4	9·1	69	75	10·5	10·7	c.f.q.
26	29·878	84·2	68·9	15·3	75·8	67·9	62·3	0·562	63·6	146·3	64·4	0·085	80	3·4	5·1	10·9	83	75	12·5	12·7	p.c. : c.f.q.
27	29·859	83·2	67·6	15·6	74·6	67·8	62·8	0·572	66·8	147·7	62·0	0·020	20	3·3	8·0	5·4	41	78	10·4	11·0	c. : p.c.g. : c.
28	29·854	83·6	68·9	14·7	75·3	69·3	65·0	0·617	70·0	146·9	63·7	0·140	50	4·4	7·7	7·4	56	94	10·4	10·7	c.p. : c.f.
29	29·874	84·2	68·2	16·0	75·5	68·6	63·7	0·590	66·4	149·4	62·8	0·015	15	5·0	7·4	9·6	73	88	12·6	12·9	c.p. : c.q.f.
30	29·864	84·9	69·7	15·2	76·8	68·8	63·2	0·580	63·8	147·2	64·5	0·000	..	4·4	5·2	10·4	79	98	12·3	12·5	c.f.
Mean	29·896	84·0	66·7	17·3	74·8	67·6	62·4	0·564	65·2	146·7	61·6	Sum 1·395	Sum 1065	3·9	5·7	9·28	71·4	86°.56′	8·96	10·04	..
Average	29·878	84·3	67·3	17·0	75·1	68·6	64·0	0·596	68·0	147·0	62·0	1·618	796	3·4	5·5	8·65	66·6	82.55	8·85	10·64	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Month and Day.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation=100).	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Amount of Rain recorded by the Beckley Pluviograph.	Duration of Rainfall.	Amount of Ozone.	Mean Amount of Cloud.	Duration of Bright Sunshine.	Per-centage of Possible Sunshine.	Wind. Mean Direction.	Wind. Mean Velocity (Miles per Hour). Computed.	Wind. Mean Velocity (Miles per Hour). Recorded.	Weather.
	ins.	°	°	°	°	°	°	ins.		°	°	ins	mins.	(0–10)	(0–10)	ins.		°			
Dec. 1	29·823	86·2	68·9	17·3	76·7	69·2	63·9	0·594	65·0	147·4	66·7	0·020	20	3·4	6·9	10·2	77	111	9·3	9·4	c.p. : c.f.
2	29·846	82·2	66·1	16·1	73·7	68·9	65·3	0·624	75·7	129·0	60·5	0·075	50	3·0	6·6	3·0	23	91	2·0	4·5	c.f. : p.o.c.g.
3	29·875	86·9	65·8	21·1	75·2	68·8	64·2	0·601	68·4	146·2	60·5	0·000	..	3·6	5·7	7·1	54	46	3·8	7·4	c.f. : c.g.
4	29·849	84·2	70·1	14·1	76·7	70·9	66·8	0·657	71·8	142·1	65·2	0·060	35	4·0	6·1	7·8	59	82	14·1	14·6	c.f. : c.g.p. : c.p.
5	29·842	86·7	74·0	12·7	78·9	72·1	67·4	0·671	67·8	143·9	71·0	0·000	..	4·6	4·2	10·5	80	96	14·4	14·6	c.f.
6	29·853	84·9	72·7	12·2	77·9	70·7	65·7	0·633	66·2	135·7	69·5	0·000	..	5·0	7·2	6·6	50	91	11·3	11·4	c.f.
7	29·891	86·7	69·7	17·0	77·8	69·7	64·0	0·596	63·4	145·7	64·9	0·020	15	5·0	5·1	11·6	88	84	9·7	10·1	p. : c.f.
8	29·926	84·8	67·9	16·9	76·5	69·5	64·5	0·607	67·0	144·0	62·2	0·020	50	4·7	5·8	9·9	75	91	12·4	12·8	c.f. p.
9	29·951	86·3	70·7	15·6	76·6	70·3	65·9	0·637	69·8	150·3	66·1	0·095	40	4·8	6·2	7·5	57	81	11·5	11·9	c.p.
10	29·926	86·7	69·0	17·7	77·1	69·3	63·8	0·592	63·9	146·2	64·5	0·000	..	4·7	3·3	12·3	93	89	9·8	10·1	c.f.
11	29·917	85·9	67·6	18·3	77·3	69·4	63·9	0·594	63·7	144·4	61·7	0·000	..	4·2	4·2	11·9	89	93	11·5	11·9	c.f.
12	29·915	87·8	71·5	16·3	78·9	70·6	64·9	0·615	61·7	143·0	66·6	0·020	30	3·7	2·3	12·1	91	101	10·9	11·0	p. : c.f.
13	29·916	87·7	72·9	14·8	79·7	73·4	69·1	0·711	69·8	154·4	69·2	0·000	..	3·5	5·6	11·0	83	103	11·6	11·8	c.f.
14	29·920	88·7	74·7	14·0	79·7	72·9	68·2	0·689	67·8	148·9	73·1	0·010	10	1·6	7·1	9·7	73	111	12·0	12·1	c. : p.c.f. : c.
15	29·894	89·1	68·7	20·4	77·3	71·8	67·9	0·682	73·0	146·7	63·6	0·030	40	0·5	6·5	5·3	40	146	1·9	5·3	c.f. : p.c.g.
16	29·869	83·0	70·8	12·2	74·6	71·1	68·5	0·697	81·5	142·8	66·0	0·050	62	2·1	9·9	1·0	8	330	2·8	4·5	c.g. : p.o.g.
17	29·892	84·0	71·7	12·3	76·7	71·2	67·3	0·668	73·0	137·2	68·0	0·080	45	3·6	9·1	5·3	40	62	9·4	10·4	c.p. : p.c.q.g. : c.
18	29·918	86·3	71·8	14·5	77·9	71·2	66·5	0·650	68·2	148·5	69·2	0·025	20	3·4	6·9	7·9	59	78	11·6	12·1	p. : c.f.
19	29·892	90·0	71·9	18·1	79·8	72·8	68·0	0·684	67·0	149·6	66·2	0·000	..	2·4	5·8	9·5	71	105	8·2	9·1	c.f.
20	29·846	87·6	70·9	16·7	78·1	71·5	66·9	0·659	68·7	141·5	65·4	0·110	33	2·6	4·7	10·0	75	99	9·7	9·8	c.f. : p.c.f. : c.p.
21	29·853	87·8	68·5	19·3	77·9	70·1	64·6	0·609	63·8	146·9	63·5	0·000	.	2·4	2·5	11·7	88	81	9·7	10·0	c.f.
22	29·837	88·2	68·7	19·5	79·0	72·0	67·2	0·666	67·0	150·3	62·2	0·040	25	0·7	5·2	9·4	71	72	7·2	8·5	c.f. : c.g. : c.f. : p.
23	29·908	94·7	70·8	23·9	81·5	74·0	69·0	0·708	66·0	147·5	66·0	0·035	15	1·3	4·5	11·9	89	123	8·4	9·0	c.f. : p.
24	29·916	88·6	72·9	15·7	80·0	72·2	66·9	0·659	63·9	148·1	68·2	0·000	..	2·0	2·7	12·0	90	106	9·5	9·5	c.f.
25	29·922	87·9	70·8	17·1	79·3	71·0	65·3	0·624	62·1	148·7	65·0	0·000	..	2·6	3·5	11·8	89	95	10·7	10·9	c.f.
26	29·904	86·9	72·2	14·7	78·9	71·4	66·2	0·644	65·9	149·4	68·0	0·070	30	3·0	3·6	11·9	89	86	12·4	12·7	p. : c.f.q.
27	29·895	86·9	69·9	17·0	78·5	71·2	66·1	0·641	66·3	152·5	64·0	0·000	..	3·6	4·7	10·8	81	89	10·2	10·7	c.f.
28	29·896	88·6	70·8	17·8	79·2	71·5	66·2	0·644	64·4	156·2	65·5	0·000	..	4·0	3·5	11·2	84	86	10·8	11·0	c.f.
29	29·867	89·8	67·9	21·9	79·1	71·4	66·1	0·641	64·3	150·0	62·0	0·000	..	1·5	4·0	11·7	88	95	9·5	9·8	c.f.
30	29·823	88·9	70·1	18·8	79·0	70·9	65·3	0·624	62·6	147·8	65·0	0·000	..	0·3	2·7	11·9	89	98	9·5	9·7	c.f.
31	29·806	90·7	69·8	20·9	79·5	71·6	66·2	0·644	63·9	149·5	64·5	0·000	..	0·2	2·4	12·0	90	101	9·4	9·5	c.f.
Mean	29·884	87·2	70·3	16·9	78·0	71·1	66·3	0·646	67·4	146·3	65·6	Sum 0·760	Sum 520	3·0	5·1	9·56	72·1	91°.49′	9·11	10·20	..
Average	29·814	86·4	71·2	15·2	78·1	72·1	67·9	0·682	71·0	147·7	66·3	4·292	1211	3·4	6·1	8·29	62·5	89.52	8·44	10·87	..
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

MONTHLY RESULTS of the METEOROLOGICAL ELEMENTS for the YEAR 1900.

Month, 1900.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Lowest.	Range.	Mean of the Daily Maxima.	Mean of the Daily Minima.	Mean of the Daily Ranges.	Monthly Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Mean Elastic Force of Vapour.	Mean Degree of Humidity (Saturation = 100).	Mean Daily Duration of Sunshine.	Per-centage of Possible Sunshine.
	ins.	°	°	°	°	°	°	°	°	°			hrs.	
January -	29·807	93·1	67·8	25·3	89·9	72·8	17·1	80·2	73·9	69·6	0·723	69·8	8·88	67·8
February - -	29·764	88·8	70·0	18·8	86·8	74·2	12·6	79·8	75·4	72·4	0·796	78·8	5·60	44·1
March - -	29·766	88·2	66·7	21·5	85·2	72·6	12·6	78·1	74·0	71·1	0·761	78·6	6·85	56·4
April - -	29·810	86·4	65·6	20·8	82·2	70·9	11·3	75·9	72·1	69·4	0·718	80·0	7·31	63·2
May - -	29·879	82·5	60·9	21·6	79·6	67·1	12·5	72·9	68·8	65·7	0·633	79·4	7·82	70·4
June - -	29·951	80·7	50·8	29·9	77·3	62·0	15·3	69·1	64·5	60·9	0·535	75·1	7·69	70·6
July - -	30·038	77·0	55·9	21·1	74·4	60·3	14·1	66·6	62·0	58·3	0·487	75·0	7·92	72·0
August - -	30·031	78·9	50·9	28·0	75·6	60·3	15·3	67·3	62·2	58·1	0·483	72·5	6·95	61·0
September -	30·009	82·1	53·8	28·3	77·9	60·8	17·1	69·0	62·9	58·1	0·483	67·6	8·14	68·2
October -	29·989	84·5	58·9	25·6	80·9	63·6	17·3	71·4	65·2	60·5	0·528	68·2	8·50	68·0
November -	29·896	87·5	57·9	29·6	84·0	66·7	17·3	74·8	67·6	62·4	0·564	65·2	9·28	71·4
December - -	29·884	94·7	65·8	28·9	87·2	70·3	16·9	78·0	71·1	66·3	0·646	67·4	9·56	72·1
For the year -	29·902	94·7	50·8	43·9	81·7	66·8	14·9	73·6	68·3	64·4	0·605	73·1	7·87	65·4

Month, 1900.	Mean Amount of Cloud. Upper (0 – 10).	Lower (0 – 10).	Total (0 – 10).	Number of Days of Clear Sky.	Overcast Sky.	Rain.	Thunder storms.	Lightning.	Rainfall. Amount recorded by Beckley Pluviograph.	Amount collected in Glaisher Rain-gauge.	Excess of Beckley over Glaisher.	Mean Daily Amount of Evaporation.	Mean Daily Amount of Ozone (0 – 10).	Wind. Direction.	Velocity (Miles per Hour). Computed.	Recorded.
									ins.	ins.	in.	in.		° ′		
January -	1·9	4·1	6·0	0	7	21	7	4	3·67	3·54	+0·13	0·269	1·3	96.00	7·08	8·78
February - -	1·4	5·8	7·2	0	13	15	11	3	4·59	4·60	−0·01	0·161	1·9	93.24	4·22	7·70
March - -	1·3	5·0	6·3	0	7	23	8	1	9·10	9·15	−0·05	0·167	3·1	66.30	7·10	8·68
April - -	1·4	4·9	6·3	1	9	17	7	0	3·54	3·37	+0·17	0·159	3·9	62.19	9·38	10·06
May - -	1·0	4·1	5·1	1	4	17	1	1	1·25	1·15	+0·10	0·135	4·5	54.02	8·70	9·75
June - -	0·8	3·9	4·7	4	3	4	0	0	1·34	1·34	0·00	0·118	4·2	44.38	7·90	9·18
July - -	0·4	4·9	5·3	0	4	20	0	0	2·40	2·28	+0·12	0·138	5·7	62.23	10·20	10·90
August - -	0·4	5·1	5·5	1	4	16	0	1	1·95	1·89	+0·06	0·151	6·0	66.59	9·39	10·00
September -	0·5	4·4	4·9	2	4	7	0	0	0·40	0·38	+0·02	0·192	3·9	68.34	9·36	10·05
October -	0·2	5·4	5·6	1	6	13	0	0	1·66	1·59	+0·07	0·223	3·9	74.54	9·52	10·50
November -	1·0	4·7	5·7	1	3	14	0	0	1·39	1·31	+0·08	0·275	3·9	86.56	8·96	10·04
December - -	0·6	4·5	5·1	0	2	16	0	0	0·76	0·68	+0·08	0·284	3·0	91.49	9·11	10·20
For the year -	0·9	4·7	5·6	11	66	183	34	9	32·05	31·28	+0·77	0·189	3·8	71.11	8·12	9·65

The highest reading of the barometer = 30·146 ins., on July 23; the lowest = 29·586 ins., on March 11.

The greatest velocity of the wind for one hour = 26·0 miles, on September 1.

The greatest rainfall in twenty-four hours = 4·43 ins., on March 6.

MONTHLY NORMALS of the METEOROLOGICAL ELEMENTS.

Month, 1900.	Mean Atmospheric Pressure.	Temperature of the Air. Highest.	Lowest.	Range.	Mean of the Daily Maxima.	Mean of the Daily Minima.	Mean of the Daily Ranges.	Monthly Mean.	Mean Temperature of Evaporation.	Mean Temperature of the Dew-Point.	Mean Elastic Force of Vapour.	Mean Degree of Humidity (Saturation = 100).	Mean Daily Duration of Sunshine.	Per-centage of Possible Sunshine.
	ins.	°	°	°	°	°	°	°	°	°	ins.		hours.	
January - -	29·751	93·1	66·5	22·0	86·4	72·9	13·5	78·8	73·7	70·3	0·741	75·0	7·70	58·7
February -	29·734	91·0	65·7	20·6	85·7	73·0	12·7	78·6	74·1	71·0	0·759	77·1	7·20	56·7
March - -	29·769	88·8	63·3	20·2	84·1	71·9	12·2	77·2	73·3	70·6	0·749	79·7	6·73	55·4
April - -	29·818	86·9	62·7	20·0	82·2	70·3	11·9	75·5	71·6	68·8	0·704	80·0	7·27	62·8
May - -	29·888	84·5	55·4	23·2	78·7	66·3	12·4	72·0	67·9	64·8	0·613	78·5	7·30	65·7
June - -	29·964	82·9	50·6	23·6	76·0	62·4	13·6	68·6	64·2	60·7	0·531	76·0	7·46	68·4
July - -	30·008	80·3	52·9	21·8	75·1	61·4	13·7	67·6	63·1	59·6	0·511	75·5	7·66	69·7
August - -	30·010	79·9	50·9	22·5	75·6	62·1	13·5	68·0	63·3	59·6	0·511	74·5	7·51	65·9
September -	29·998	82·9	53·8	23·4	77·6	62·7	14·9	69·5	64·2	60·1	0·520	72·0	7·99	66·9
October - -	29·939	87·8	57·7	25·5	81·2	64·6	16·6	72·1	66·4	62·1	0·558	70·6	8·09	64·7
November -	29·878	90·0	57·9	26·7	84·3	67·3	17·0	75·1	68·6	64·0	0·596	68·0	8·65	66·6
December -	29·814	94·7	62·1	25·0	86·4	71·2	15·2	78·1	72·1	67·9	0·682	71·0	8·29	62·5
For the year -	29·881	94·7	50·6	37·9	81·1	67·2	13·9	73·4	68·5	64·9	0·615	74·9	7·65	63·7
Number of years employed -	26	10	10	10	10	10	10	10	10	10	10	10	14	14

Month, 1900.	Mean Amount of Cloud. Upper (0 – 10).	Lower (0 – 10).	Total (0 – 10).	Number of Days of Clear Sky.	Overcast Sky.	Rain.	Thunder storms.	Lightning.	Rainfall. Amount recorded by Beckley Pluviograph.	Amount collected in Glaisher Rain-gauge.	Excess of Beckley over Glaisher.	Mean Daily Amount of Evaporation.	Mean Daily Amount of Ozone (0 – 10).	Wind. Direction.	Velocity (Miles per Hour). Computed.	Recorded.
									ins.	ins.	in.	in.		° ′		
January - -	1·3	5·1	6·4	0	8	18	4	2	7·47	7·38	+0·09	0·248	3·4	86.22	8·54	11·10
February -	1·2	5·1	6·3	0	8	19	4	2	7·90	7·77	+0·13	0·219	3·2	80.12	8·11	11·21
March - -	1·2	5·2	6·4	0	9	21	5	2	9·80	9·76	+0·04	0·187	3·9	78.53	7·83	9·97
April - -	1·1	4·6	5·7	1	6	18	3	1	5·17	5·09	+0·08	0·168	4·4	71.20	9·09	10·62
May - -	0·8	4·3	5·1	3	4	15	1	1	3·31	3·24	+0·07	0·141	4·7	64.00	8·69	10·23
June - -	0·4	4·5	4·9	2	4	15	0	0	2·00	1·96	+0·04	0·123	5·0	60.27	10·22	11·30
July - -	0·3	4·8	5·1	1	3	21	0	0	2·35	2·38	−0·03	0·134	5·3	64.52	10·88	11·87
August - -	0·3	5·2	5·5	1	4	20	0	0	3·09	3·01	+0·08	0·160	5·3	67.25	11·22	12·36
September -	0·4	5·2	5·6	1	4	15	0	0	1·30	1·28	+0·02	0·192	4·9	71.16	10·77	11·91
October - -	0·7	5·0	5·7	1	4	15	0	0	1·22	1·18	+0·04	0·229	4·2	78.14	9·26	11·06
November -	0·7	4·8	5·5	1	4	13	1	1	1·62	1·60	+0·02	0·273	3·4	82.55	8·85	10·64
December -	1·0	5·1	6·1	0	7	15	2	1	4·29	4·24	+0·05	0·267	3·4	89.52	8·44	10·87
For the year -	0·8	4·9	5·7	11	65	205	20	10	49·52	48·89	+0·63	0·195	4·3	73.56	9·21	11·09
Number of years employed -	22	22	22	22	22	13	40	40	13	13	13	13	15	24	24	25

For the Period (1875–1900) the highest reading of the barometer = 30·468 ins., on June 20, 1877; the lowest = 27·956 ins., on April 29, 1892.

For the Period (1876–1900) the greatest velocity of the wind for one hour = 103·3 miles, on April 29, 1892.

For the Period (1875–1900) the greatest rainfall in twenty-four hours = 17·34 ins., on Feb. 20, 1896.

HIGHEST and LOWEST READINGS of the BAROMETER, reduced to 32° Fahrenheit and corrected for DIURNAL VARIATION, as extracted from the PHOTOGRAPHIC RECORDS.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Mauritius Civil Time, 1900.		Reading.	Mauritius Civil Time, 1900.		Reading.	Mauritius Civil Time, 1900.		Reading.	Mauritius Civil Time. 1900.		Reading.
	d h	ins.		d h	ins.		d h	ins.		d h	ins.
January	1. 5	29·856	January	4. 8	29·730	July	2.19	30·115	July	10. 2	29·939
	6.19	29·898		8.12	29·752		14.19	30·088		19. 0	29·934
	11. 3	29·860		13.16	29·800		23.11	30·146		28. 0	29·961
	16. 0	29·877		18.17	29·794	August	1. 1	30·104	August	4. 8	29·874
	21.11	29·835		23.20	29·782		6.16	29·995		7. 5	29·959
	24. 8	29·811		27.12	29·728		11.22	30·124		15. 8	30·072
	29.15	29·807	February	4. 2	29·679		17.21	30·120		21.15	30·001
February	11.18	29·809		13.21	29·718		23.22	30·094		28.22	29·942
	16.11	29·800		17. 2	29·743	September	1.17	30·095	September	5. 4	29·962
	21. 8	29·871		26.15	29·702		7. 9	30·034		9. 5	29·958
March	2.16	29·840	March	4.21	29·748		11.23	30·049		15.12	29·985
	6.17	29·837		11.10	29·586		17. 5	30·033		19. 0	29·961
	13.10	29·744		15. 7	29·696		21.22	30·018		22. 4	29·975
	19.11	29·825		21.22	29·779		25. 5	30·074		29.16	29·951
	23. 4	29·805		25.15	29·740	October	2. 9	30·068	October	4.18	29·989
	27. 8	29·895		29.12	29·711		7.11	30·063		10.14	29·874
	31.15	29·817	April	3. 8	29·690		13. 5	30·042		14. 8	29·976
April	8. 7	29·791		10.23	29·728		18. 5	30·092		22·10	29·918
	15. 1	29·907		20. 9	29·757		27. 2	30·003		29.18	29·872
	23. 3	29·940		25.11	29·830		31.17	29·954	November	2.22	29·863
	27.19	29·957		30. 3	29·818	November	7. 7	29·976		11. 7	29·857
May	1.15	29·858	May	3. 6	29·784		15.19	29·937		17. 1	29·819
	5.19	29·860		7. 6	29·833		19. 9	29·906		20.18	29·828
	11.12	29·989		14. 4	29·866		23. 1	29·943		27.23	29·834
	15.13	29·914		16.18	29·865		29.18	29·893	December	1.14	29·807
	20. 4	29·954		20.20	29·907	December	3.21	29·892		5. 5	29·829
	23.10	29·950		29. 7	29·730		9. 5	29·965		11.21	29·896
June	1. 3	29·957	June	2. 6	29·886		14. 0	29·942		16. 5	29·848
	4. 6	29·972		6.22	29·880		18. 1	29·929		20.16	29·832
	8. 7	29·938		10. 2	29·853		21. 4	29·871		22.16	29·815
	13. 7	29·924		14.21	29·826		25. 3	29·937		26.18	29·877
	17. 7	30·039		21.19	29·950		28.21	29·902			
	22.21	29·979		24.16	29·929						
	27. 1	30·082		30. 9	29·989						

MONTHLY MEAN READING of the BAROMETER at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
Midnight	29·826	29·776	29·781	29·826	29·891	29·962	30·050	30·051	30·031	30·007	29·913	29·902	29·918
1h	29·814	29·766	29·770	29·817	29·884	29·959	30·046	30·044	30·021	29·995	29·900	29·889	29·909
2	29·799	29·751	29·752	29·802	29·870	29·946	30·033	30·030	30·005	29·983	29·888	29·875	29·894
3	29·791	29·745	29·743	29·794	29·863	29·939	30·029	30·022	29·998	29·977	29·885	29·873	29·888
4	29·788	29·745	29·740	29.790	29·858	29·933	30·022	30·016	29·993	29·976	29·885	29·870	29·886
5	29·796	29·752	29·747	29·793	29·861	29·934	30·022	30·017	30·000	29·986	29·892	29·876	29·890
6	29·810	29·761	29·756	29·801	29·870	29·941	30·028	30·025	30·009	29·997	29·906	29·891	29·900
7	29·824	29·778	29·769	29·817	29·887	29·959	30·041	30·040	30·027	30·009	29·915	29·900	29·914
8	29·829	29·787	29·785	29·828	29·900	29·971	30·056	30·051	30·037	30·015	29·918	29·902	29·923
9	29·829	29·794	29·794	29·838	29·912	29·984	30·077	30·063	30·045	30·020	29·922	29·906	29·932
10	29·825	29·786	29·793	29·837	29·908	29·980	30·074	30·062	30·037	30·011	29·915	29·900	29·927
11	29·818	29·779	29·787	29·828	29·898	29·969	30·063	30·051	30·027	29·999	29·908	29·895	29·918
Noon	29·804	29·767	29·770	29·807	29·878	29·948	30·039	30·027	30·001	29·980	29·892	29·881	29·899
13h	29·795	29·755	29·752	29·792	29·860	29·929	30·019	30·010	29·985	29·965	29·878	29·868	29·884
14	29·779	29·738	29·737	29·778	29·845	29·918	30·003	29·992	29·967	29·948	29·864	29·854	29·869
15	29·770	29·729	29·732	29·775	29·845	29·916	30·000	29·987	29·962	29·944	29·856	29·848	29·864
16	29·763	29·725	29·733	29·777	29·848	29·919	30·003	29·991	29·964	29·944	29·854	29·842	29·864
17	29·774	29·733	29·743	29·787	29·859	29·930	30·014	30·001	29·975	29·955	29·862	29·849	29·874
18	29·791	29·746	29·755	29·800	29·869	29·939	30·023	30·014	29·989	29·971	29·879	29·863	29·887
19	29·809	29·765	29·770	29·815	29·886	29·953	30·038	30·030	30·009	29·992	29·899	29·882	29·904
20	29·821	29·777	29·783	29·829	29·897	29·965	30·048	30·043	30·026	30·007	29·911	29·895	29·917
21	29·832	29·790	29·796	29·840	29·907	29·972	30·058	30·056	30·040	30·019	29·924	29·909	29·929
22	29·840	29·796	29·798	29·840	29·906	29·974	30·058	30·058	30·039	30·019	29·928	29·916	29·931
23	29·840	29·793	29·793	29·838	29·904	29·974	30·058	30·057	30·037	30·016	29·922	29·916	29·929
24	29·824	29·776	29·782	29·828	29·894	29·966	30·052	30·050	30·029	30·005	29·910	29·901	29·918
Number of Days Employed.	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN DIURNAL VARIATION of the ATMOSPHERIC PRESSURE, as deduced from the PHOTOGRAPHIC RECORDS, for the Period 1875–1900.

1875–1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight	+·015	+·018	+·017	+·017	+·014	+·014	+·015	+·018	+·020	+·017	+·017	+·015	+·016
1h	+·003	+·005	+·006	+·007	+·006	+·008	+·011	+·010	+·010	+·007	+·004	+·001	+·006
2	−·011	−·010	−·009	−·007	−·006	−·004	−·002	−·002	−·002	−·007	−·009	−·011	−·007
3	−·018	−·017	−·019	−·016	−·014	−·012	−·009	−·010	−·011	−·014	−·014	−·017	−·014
4	−·019	−·020	−·024	−·021	−·019	−·017	−·015	−·016	−·015	−·014	−·013	−·018	−·018
5	−·010	−·015	−·018	−·017	−·017	−·017	−·014	−·014	−·010	−·007	−·007	−·009	−·013
6	+·004	−·005	−·008	−·008	−·006	−·008	−·007	−·004	+·002	+·005	+·007	+·005	−·002
7	+·015	+·009	+·005	+·008	+·009	+·006	+·006	+·009	+·016	+·018	+·018	+·016	+·011
8	+·021	+·019	+·020	+·021	+·023	+·022	+·021	+·023	+·028	+·027	+·023	+·021	+·022
9	+·023	+·025	+·028	+·031	+·035	+·034	+·035	+·035	+·034	+·030	+·026	+·023	+·030
10	+·018	+·022	+·027	+·030	+·032	+·030	+·033	+·033	+·028	+·023	+·018	+·018	+·026
11	+·011	+·015	+·020	+·019	+·018	+·019	+·021	+·021	+·016	+·011	+·009	+·011	+·016
Noon	·000	+·002	+·002	−·003	−·003	−·001	·000	−·001	−·007	−·007	−·006	−·002	−·002
13h	−·010	−·012	−·014	−·020	−·022	−·022	−·020	−·019	−·024	−·024	−·021	−·013	−·018
14	−·025	−·026	−·029	−·034	−·036	−·034	−·035	−·036	−·040	−·039	−·035	−·026	−·033
15	−·034	−·034	−·036	−·038	−·038	−·036	−·038	−·041	−·047	−·045	−·042	−·036	−·039
16	−·039	−·037	−·035	−·035	−·034	−·033	−·035	−·038	−·044	−·044	−·043	−·039	−·038
17	−·032	−·031	−·028	−·025	−·024	−·023	−·025	−·029	−·034	−·033	−·032	−·031	−·029
18	−·017	−·018	−·015	−·013	−·012	−·012	−·016	−·018	−·019	−·016	−·016	−·016	−·016
19	+·002	·000	+·002	+·002	+·003	+·002	−·002	−·002	−·001	+·003	+·004	+·003	+·001
20	+·015	+·015	+·017	+·019	+·017	+·015	+·011	+·013	+·017	+·019	+·019	+·015	+·016
21	+·026	+·028	+·031	+·029	+·025	+·023	+·020	+·023	+·029	+·030	+·029	+·026	+·027
22	+·033	+·033	+·033	+·029	+·025	+·025	+·022	+·024	+·030	+·032	+·035	+·033	+·029
23	+·030	+·030	+·028	+·025	+·023	+·022	+·021	+·023	+·027	+·028	+·030	+·030	+·026

MONTHLY MEAN TEMPERATURE of the AIR at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	75·3	76·5	74·8	73·3	69·5	65·2	63·4	63·3	64·0	66·5	69·8	73·4	69·6
1h	74·9	76·1	74·5	73·0	69·5	65·1	63·2	63·1	63·6	66·1	69·1	72·8	69·3
2	74·6	75·7	74·3	72·7	69·4	64·7	63·2	63·3	63·2	65·6	68·8	72·2	69·0
3	74·1	75·5	74·1	72·4	69·2	64·3	63·1	63·0	63·4	65·4	68·5	71·7	68·7
4	73·6	75·3	73·6	72·2	69·3	63·9	62·5	62·7	63·4	65·1	68·2	71·4	68·4
5	73·3	75·1	73·6	72·0	69·0	64·0	62·1	62·3	63·1	64·8	67·9	71·1	68·2
6	73·5	75·0	73·3	71·8	68·8	63·8	62·0	62·0	63·1	65·5	69·6	72·6	68·4
7	78·1	77·7	75·1	72·9	69·2	64·0	62·2	63·0	66·2	70·6	74·2	77·4	70·9
8	82·1	81·1	79·3	77·0	73·4	68·7	66·3	67·7	71·0	74·6	77·0	80·1	74·9
9	84·4	82·7	81·9	79·2	76·2	72·7	69·6	71·1	73·6	76·3	79·2	82·1	77·4
10	86·0	84·1	82·7	80·2	77·2	74·5	71·2	72·7	75·1	78·0	81·2	83·3	78·8
11	87·1	85·2	83·0	80·8	77·8	75·5	72·5	73·8	76·3	78·8	81·0	84·5	79·7
Noon	88·0	84·6	83·5	80·9	78·3	76·2	72·9	74·2	76·5	79·0	82·0	85·3	80·1
13h	87·7	84·6	83·4	80·7	78·7	76·2	72·9	74·0	76·6	78·7	82·2	85·1	80·1
14	87·3	84·2	83·0	80·1	78·4	75·8	72·3	73·9	76·0	78·3	81·9	84·8	79·7
15	86·3	84·0	82·3	79·8	77·9	75·1	71·7	73·1	75·4	77·0	81·3	84·0	79·0
16	85·8	83·8	81·2	78·8	76·7	73·9	70·8	72·0	74·0	76·0	79·8	83·0	78·0
17	84·2	82·9	80·4	77·5	74·9	72·0	69·2	70·4	72·2	74·5	78·4	81·6	76·5
18	81·9	81·3	78·7	75·7	72·7	69·4	66·7	67·6	69·6	72·0	75·7	79·4	74·2
19	79·9	79·6	77·3	74·8	71·7	67·9	65·3	66·1	67·7	70·3	73·9	77·3	72·6
20	78·2	78·5	76·5	74·4	71·0	67·1	64·5	65·0	66·1	69·1	72·4	76·0	71·6
21	77·2	77·7	76·1	74·1	70·7	66·6	64·4	64·4	65·4	68·1	71·6	75·3	71·0
22	76·3	77·1	75·6	73·6	70·4	65·7	64·2	63·9	64·8	67·3	70·9	74·6	70·4
23	75·8	76·6	75·2	73·4	70·0	65·3	63·5	63·7	64·5	66·9	70·4	73·9	69·9
24	75·4	76·4	74·9	73·1	69·5	65·0	63·3	63·5	64·0	66·4	70·1	73·4	69·6
Number of Days employed.	31	28	31	30	31	30	31	31	30	30	30	31	..

MONTHLY MEAN TEMPERATURE of EVAPORATION at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	72·4	74·0	72·4	70·8	67·1	62·5	60·9	60·4	61·0	63·3	66·1	69·9	66·7
1h	72·2	73·7	72·1	70·6	67·2	62·5	60·6	60·4	60·6	63·1	66·0	69·5	66·5
2	72·0	73·3	72·1	70·4	67·2	62·1	60·6	60·6	60·5	62·9	65·9	69·1	66·4
3	71·7	73·3	71·9	70·3	67·0	62·0	60·3	60·5	60·7	62·8	65·7	68·9	66·3
4	71·4	73·1	71·6	70·1	67·1	61·7	60·2	60·4	60·7	62·6	65·6	68·6	66·1
5	71·1	72·9	71·6	69·9	66·8	61·6	59·7	59·9	60·4	62·3	65·4	68·5	65·8
6	71·4	73·0	71·4	70·0	66·7	61·3	59·5	59·6	60·5	62·8	66·6	69·7	66·0
7	74·4	75·3	72·9	71·0	67·0	61·7	59·7	60·4	62·7	66·0	68·6	71·8	67·6
8	75·4	76·3	75·1	73·3	69·8	65·2	62·3	63·1	64·7	66·7	68·8	71·9	69·4
9	75·6	76·7	76·0	73·9	70·7	66·8	63·6	63·8	64·7	66·8	69·0	72·0	70·0
10	75·9	77·4	76·3	74·2	70·9	67·3	63·9	64·0	65·0	67·3	69·0	72·4	70·3
11	76·0	77·8	76·5	74·3	71·0	67·5	64·2	64·5	65·2	67·2	69·3	72·4	70·5
Noon	75·9	77·8	76·9	74·8	71·4	67·7	64·2	64·5	65·3	67·3	69·6	72·7	70·7
13h	75·8	77·7	76·8	74·7	71·4	67·8	64·5	64·6	65·6	67·3	69·3	72·7	70·7
14	75·8	77·5	76·3	74·2	71·0	67·5	64·6	64·4	65·3	67·4	69·2	72·6	70·5
15	75·5	77·4	76·2	74·0	70·9	67·3	64·4	64·1	65·2	66·9	69·1	72·6	70·3
16	75·6	77·2	75·4	73·4	70·4	66·7	63·9	63·9	64·6	66·7	68·7	72·3	69·9
17	74·9	76·8	75·1	72·9	69·7	66·0	63·4	63·2	64·2	66·4	68·4	72·1	69·4
18	74·4	76·0	74·4	72·1	68·9	65·0	62·3	62·6	63·5	65·8	67·8	71·8	68·7
19	74·0	75·2	73·8	71·8	68·3	64·3	61·7	62·0	62·9	65·3	67·6	71·2	68·2
20	73·6	74·8	73·4	71·4	67·9	63·8	61·2	61·5	62·0	64·8	67·2	71·0	67·7
21	73·1	74·5	73·2	71·2	67·8	63·5	61·0	61·3	61·8	64·3	67·1	70·8	67·5
22	72·6	74·1	73·0	70·9	67·5	62·9	60·9	60·9	61·5	63·8	66·7	70·6	67·1
23	72·7	74·0	72·7	71·0	67·4	62·6	60·8	60·8	61·3	63·6	66·4	70·1	66·9
24	72·5	73·8	72·5	70·6	67·1	62·4	60·7	60·6	61·0	63·3	66·4	70·0	66·7
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN TEMPERATURE of the DEW-POINT at every HOUR of the DAY, as deduced by GLAISHER'S TABLES from the corresponding AIR and EVAPORATION TEMPERATURES.

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	70·3	72·3	70·7	68·9	65·2	60·3	58·8	58·0	58·5	60·8	63·2	67·3	64·5
1h	70·2	72·0	70·3	68·8	65·4	60·4	58·4	58·1	58·1	60·7	63·6	67·0	64·4
2	70·1	71·6	70·5	68·7	65·4	59·9	58·4	58·3	58·2	60·7	63·6	66·7	64·3
3	69·9	71·8	70·3	68·7	65·2	60·1	58·0	58·4	58·4	60·7	63·5	66·8	64·3
4	69·8	71·6	70·2	68·5	65·3	59·9	58·3	58·5	58·4	60·6	63·5	66·5	64·3
5	69·5	71·4	70·2	68·3	65·1	59·6	57·7	57·9	58·1	60·2	63·4	66·5	64·0
6	69·9	71·6	70·0	68·6	65·0	59·2	57·3	57·5	58·3	60·6	64·2	67·6	64·1
7	71·8	73·6	71·3	69·6	65·2	59·8	57·6	58·2	59·9	62·5	64·5	67·9	65·2
8	70·9	73·0	72·3	70·7	67·2	62·4	59·1	59·5	59·9	61·0	63·1	66·3	65·5
9	69·8	72·7	72·1	70·3	66·8	62·4	59·0	58·3	58·2	60·1	62·0	65·2	64·7
10	69·3	73·0	72·1	70·1	66·5	62·1	58·4	57·5	57·7	59·9	60·8	65·2	64·4
11	68·8	73·0	72·1	69·9	66·2	61·8	58·0	57·7	57·4	59·3	61·4	64·4	64·2
Noon	68·2	73·3	72·5	70·7	66·6	61·7	57·7	57·4	57·4	59·2	61·3	64·5	64·2
13h	68·2	73·2	72·4	70·7	66·4	61·8	58·2	57·7	57·9	59·5	60·7	64·6	64·3
14	68·4	73·1	71·8	70·2	65·9	61·6	58·8	57·5	57·7	59·9	60·7	64·6	64·2
15	68·5	73·0	72·1	70·0	66·0	61·6	58·9	57·4	57·9	59·8	60·9	65·1	64·3
16	69·0	72·9	71·5	69·7	65·9	61·4	58·7	57·8	57·7	60·1	61·1	65·2	64·2
17	68·8	72·7	71·5	69·7	65·9	61·5	58·9	57·7	58·2	60·5	61·5	65·7	64·4
18	69·4	72·4	71·5	69·5	66·0	61·6	58·8	58·7	58·8	61·1	64·2	66·6	64·7
19	70·0	72·2	71·4	69·6	65·7	61·4	58·7	58·7	59·3	61·4	63·0	66·9	64·9
20	70·4	72·3	71·2	69·2	65·5	61·2	58·5	58·6	58·7	61·5	63·3	67·4	64·8
21	70·2	72·3	71·2	69·1	65·6	61·0	58·2	58·7	58·8	61·3	63·7	67·5	64·8
22	70·0	72·0	71·2	68·9	65·3	60·6	58·1	58·4	58·8	61·0	63·5	67·7	64·6
23	70·5	72·2	70·9	69·2	65·3	60·4	58·5	58·4	58·6	61·0	63·3	67·3	64·6
24	70·4	72·0	70·8	68·8	65·2	60·3	58·5	58·2	58·5	60·8	63·6	67·5	64·5
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN DEGREE OF HUMIDITY (Saturation = 100) at every HOUR of the DAY, as deduced by GLAISHER'S TABLES from the corresponding AIR and EVAPORATION TEMPERATURES.

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
Midnight	84·5	86·5	87·0	86·5	86·1	84·5	85·4	82·9	82·0	82·0	79·5	81·9	84·1
1h	85·5	87·0	87·0	87·0	86·7	85·0	84·6	83·9	82·6	83·0	82·5	82·5	84·8
2	86·0	87·0	88·0	87·5	87·2	85·1	84·6	84·1	84·0	84·5	83·5	83·5	85·4
3	87·0	88·0	88·0	88·5	87·0	86·5	83·3	85·0	84·2	85·0	84·0	84·0	85·9
4	88·0	88·0	89·0	88·5	87·1	87·7	86·7	86·2	84·2	85·5	85·0	84·0	86·7
5	88·0	88·0	89·0	88·5	87·0	85·6	85·7	85·9	83·9	85·8	85·0	85·0	86·4
6	88·5	89·0	89·5	90·0	87·4	85·8	85·0	85·6	84·5	84·5	83·0	84·5	86·4
7	80·6	87·0	88·0	89·5	87·0	86·2	85·2	84·4	80·5	75·0	71·6	72·6	82·3
8	69·2	76·8	79·3	80·5	81·4	80·5	78·0	75·0	67·8	62·4	62·2	62·3	73·0
9	61·2	72·0	72·4	73·8	73·0	70·2	68·6	63·9	59·0	57·3	55·4	56·7	65·3
10	57·7	69·2	70·4	71·0	69·8	65·2	64·0	58·2	54·7	53·9	49·4	54·3	61·5
11	54·7	66·6	70·0	69·0	67·8	62·5	59·8	57·4	51·7	51·2	50·9	50·7	59·4
Noon	51·7	68·8	69·6	70·6	67·7	61·2	58·2	55·9	51·4	50·9	49·8	50·2	58·8
13h	52·3	68·4	69·6	71·0	66·5	61·6	59·4	56·8	52·0	51·8	48·3	50·8	59·0
14	53·5	69·2	69·2	71·4	65·8	61·6	62·2	56·9	52·9	53·3	47·9	50·4	59·5
15	55·6	69·6	71·6	71·8	67·0	62·9	63·8	58·1	54·4	55·7	49·4	52·8	61·1
16	57·4	69·6	72·8	73·4	69·4	65·2	65·4	60·6	56·8	57·8	52·7	54·9	63·0
17	59·1	71·6	73·9	76·6	73·9	69·0	69·2	64·2	61·0	61·6	56·0	58·6	66·2
18	66·0	74·8	78·2	81·0	80·7	76·0	76·0	73·0	68·1	68·2	63·1	65·0	72·5
19	71·4	78·6	81·8	84·0	81·0	80·0	80·0	77·5	74·0	73·3	68·8	70·6	76·8
20	76·6	81·0	83·5	84·0	82·5	81·5	80·7	80·5	77·5	76·6	73·4	75·0	79·4
21	78·7	83·0	84·5	84·5	83·5	82·5	80·0	81·8	80·0	79·0	75·5	76·8	80·8
22	80·8	84·0	86·0	85·5	83·5	84·0	80·5	82·9	81·0	80·5	77·0	79·0	82·1
23	83·5	86·0	86·5	87·0	84·5	84·5	84·3	83·3	81·3	81·5	78·0	80·0	83·4
24	84·5	86·0	87·0	86·5	86·1	85·0	84·7	83·1	82·0	82·5	79·5	82·0	84·1
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN ELASTIC FORCE of VAPOUR, at every HOUR of the DAY, as deduced by GLAISHER'S TABLES from the corresponding TEMPERATURE of the DEW-POINT.

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight	0·741	0·793	0·751	0·706	0·622	0·524	0·496	0·482	0·491	0·533	0·580	0·668	0·616
1h	0·738	0·785	0·741	0·704	0·626	0·526	0·489	0·483	0·483	0·531	0·588	0·661	0·613
2	0·736	0·774	0·746	0·701	0·626	0·516	0·489	0·487	0·485	0·531	0·588	0·655	0·611
3	0·731	0·779	0·741	0·701	0·622	0·520	0·482	0·489	0·489	0·531	0·586	0·657	0·611
4	0·728	0·774	0·738	0·697	0·624	0·516	0·487	0·491	0·489	0·529	0·586	0·650	0·609
5	0·721	0·769	0·738	0·692	0·620	0·511	0·477	0·480	0·483	0·522	0·584	0·650	0·604
6	0·731	0·774	0·733	0·699	0·617	0·503	0·470	0·473	0·487	0·529	0·601	0·675	0·608
7	0·779	0·829	0·766	0·723	0·622	0·514	0·475	0·485	0·516	0·566	0·607	0·682	0·630
8	0·756	0·812	0·793	0·751	0·666	0·564	0·501	0·509	0·516	0·537	0·578	0·646	0·636
9	0·728	0·804	0·788	0·741	0·657	0·564	0·500	0·487	0·485	0·520	0·556	0·622	0·621
10	0·716	0·812	0·788	0·736	0·650	0·558	0·489	0·473	0·477	0·516	0·533	0·622	0·614
11	0·704	0·812	0·788	0·731	0·644	0·552	0·482	0·477	0·472	0·505	0·545	0·605	0·610
Noon	0·689	0·820	0·799	0·751	0·652	0·550	0·477	0·472	0·472	0·503	0·543	0·607	0·611
13h	0·689	0·818	0·796	0·751	0·648	0·552	0·485	0·477	0·480	0·509	0·531	0·609	0·612
14	0·694	0·815	0·779	0·738	0·637	0·548	0·496	0·473	0·477	0·516	0·531	0·609	0·609
15	0·697	0·812	0·788	0·733	0·639	0·548	0·498	0·472	0·480	0·514	0·535	0·620	0·611
16	0·708	0·810	0·772	0·726	0·637	0·545	0·494	0·479	0·477	0·520	0·539	0·622	0·611
17	0·704	0·804	0·772	0·726	0·637	0·546	0·498	0·477	0·485	0·528	0·546	0·633	0·613
18	0·718	0·796	0·772	0·721	0·639	0·548	0·496	0·494	0·496	0·539	0·560	0·652	0·619
19	0·733	0·790	0·769	0·723	0·633	0·545	0·494	0·494	0·505	0·545	0·576	0·659	0·622
20	0·744	0·793	0·764	0·713	0·628	0·541	0·491	0·492	0·494	0·546	0·582	0·671	0·622
21	0·738	0·793	0·764	0·711	0·630	0·537	0·485	0·494	0·496	0·543	0·590	0·673	0·621
22	0·733	0·785	0·764	0·706	0·624	0·529	0·483	0·489	0·496	0·537	0·586	0·678	0·617
23	0·746	0·790	0·756	0·713	0·624	0·526	0·491	0·489	0·492	0·537	0·582	0·668	0·618
24	0·744	0·785	0·754	0·704	0·622	0·524	0·491	0·485	0·491	0·533	0·588	0·673	0·616

TOTAL AMOUNT of SUNSHINE registered in each HOUR of the DAY in each MONTH, as derived from the RECORDS of an IMPROVED CAMPBELL-STOKES SELF-REGISTERING INSTRUMENT, for the YEAR 1900.

Months. 1900.	Registered Duration of Sunshine in the Hour ending														Total Registered Duration of Sunshine in each Month.	Corresponding Period during which the Sun was above the Horizon.
	6h.	7h.	8h.	9h.	10h.	11h.	12h.	13h.	14h.	15h.	16h.	17h.	18h.	19h.		
	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
January -	0·1	18·2	25·6	26·8	26·6	28·2	26·9	25·4	23·2	22·3	21·8	17·7	11·4	1·1	275·3	406·3
February -	..	10·7	16·7	17·3	18·0	19·2	13·7	13·2	10·7	9·0	11·8	9·4	7·1	..	156·8	355·7
March -	..	7·3	21·2	23·0	23·9	22·4	22·0	21·7	18·7	15·7	15·3	15·3	6·0	..	212·5	376·5
April -	..	6·8	19·8	23·8	23·4	24·0	23·1	22·0	20·6	20·2	17·9	14·8	3·0	..	219·4	347·3
May - -	..	2·9	23·5	23·3	25·4	25·2	22·7	24·9	25·3	23·6	21·5	20·3	3·8	..	242·4	344·3
June -	..	1·9	21·6	23·4	25·1	23·7	25·5	23·9	21·2	21·5	20·2	19·5	3·5	..	230·8	327·0
July - -	..	2·5	20·2	24·0	24·0	26·9	26·8	25·6	23·8	24·4	23·5	20·9	3·0	..	245·6	340·9
August -	..	4·5	18·6	22·7	23·3	23·3	20·2	19·5	20·0	19·1	18·9	19·1	6·2	..	215·4	353·2
September -	..	8·0	22·0	23·9	25·4	24·5	23·1	22·2	24·2	22·0	20·7	18·4	9·9	..	244·3	358·2
October -	..	13·0	24·9	27·0	27·0	27·1	25·9	24·7	21·1	20·0	19·1	19·8	13·8	..	263·4	387·5
November -	..	14·7	21·8	22·3	25·8	25·5	26·0	24·5	25·4	24·9	24·7	23·7	18·1	1·1	278·5	389·8
December -	0·8	21·9	26·7	25·3	25·5	26·7	27·2	25·9	26·1	23·7	23·8	22·8	19·0	1·1	296·5	411·3

The hours are reckoned from *apparent* midnight.

The total registered duration of sunshine during the year was 2,880·9 hours; the corresponding period during which the sun was above horizon was 4,398·0 hours.

TOTAL MONTHLY RAINFALL at every HOUR of the DAY, as deduced from the RECORDS of the BECKLEY SELF-REGISTERING RAIN-GAUGE.

1900.

For the Hour ending	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1h.	0·090	0·355	0·305	0·035	0·240	0·000	0·175	0·055	0·000	0·000	0·065	0·000	0·110
2	0·085	0·120	0·065	0·020	0·080	0·000	0·120	0·135	0·010	0·100	0·235	0·095	0·089
3	0·100	0·160	0·415	0·025	0·025	0·000	0·095	0·065	0·000	0·060	0·175	0·030	0·096
4	0·015	0·005	0·475	0·055	0·105	0·000	0·170	0·030	0·000	0·180	0·290	0·020	0·112
5	0·155	0·075	0·795	0·055	0·040	0·000	0·155	0·130	0·000	0·100	0·205	0·000	0·143
6	0·105	0·030	0·480	0·040	0·025	0·000	0·145	0·375	0·010	0·110	0·095	0·070	0·124
7	0·285	0·570	0·325	0·240	0·050	0·000	0·105	0·380	0·005	0·120	0·035	0·020	0·178
8	0·020	0·235	0·350	0·080	0·115	0·000	0·025	0·370	0·060	0·010	0·020	0·010	0·108
9	0·045	0·015	0·080	0·200	0·015	0·000	0·325	0·090	0·005	0·020	0·040	0·000	0·070
10	0·330	0·075	0·580	0·080	0·025	0·000	0·080	0·015	0·000	0·050	0·000	0·040	0·106
11	0·000	0·025	0·235	0·090	0·090	0·000	0·010	0·000	0·000	0·000	0·145	0·010	0·050
Noon	0·000	0·480	0.040	0·565	0·060	0·000	0·030	0·010	0·000	0·060	0·000	0·000	0·104
13h	0·400	0·320	0·230	0·100	0·045	0·150	0·185	0·000	0·180	0·160	0·000	0·095	0·155
14	0·280	0·235	0·095	0·430	0·040	0·470	0·120	0·000	0·000	0·040	0·000	0·035	0·145
15	0·130	0·310	0·475	0·080	0·000	0·130	0·050	0·000	0·010	0·025	0·000	0·000	0·101
16	0·415	0·055	0·510	0·165	0·050	0·060	0·010	0·000	0·010	0·070	0·000	0·000	0·112
17	0·295	0·155	0·910	0·130	0·005	0·360	0·015	0·000	0·000	0·040	0·000	0·020	0·161
18	0·295	0·400	0·980	0·090	0·010	0·070	0·005	0·035	0·000	0·015	0·010	0·030	0·162
19	0·060	0·000	0·375	0·045	0·010	0·015	0·000	0·005	0·000	0·035	0·005	0·105	0·055
20	0·065	0·065	0·865	0·020	0·050	0·000	0·015	0·005	0·065	0·095	0·010	0·005	0·105
21	0·005	0·205	0·335	0·035	0·030	0·000	0·055	0·060	0·010	0·330	0·005	0·000	0·089
22	0·000	0·315	0·080	0·935	0·040	0·025	0·050	0·120	0·000	0·020	0·000	0·130	0·143
23	0·435	0·345	0·025	0·015	0·035	0·035	0·205	0·055	0·005	0·000	0·055	0·005	0·101
24	0·060	0·040	0·080	0·010	0·070	0·025	0·255	0·020	0·030	0·020	0·005	0·040	0·055

MONTHLY DURATION of RAINFALL in MINUTES, at every HOUR of the DAY, as deduced from the RECORDS of the BECKLEY SELF-REGISTERING RAIN-GAUGE.

1900.

For the Hour ending	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
1h	40	80	125	55	110	..	95	120	..	..	60	..	685
2	62	20	130	25	85	..	115	95	35	60	150	60	837
3	95	50	95	45	35	..	65	115	..	65	155	25	745
4	5	10	120	30	40	..	135	45	..	95	135	30	645
5	85	40	190	60	40	..	127	142	..	105	157	..	946
6	45	20	170	65	35	..	108	145	40	95	55	35	813
7	50	155	150	125	110	..	77	68	25	75	55	20	910
8	25	120	60	90	35	..	30	45	65	15	38	10	533
9	5	60	75	80	30	..	85	60	15	40	60	..	510
10	80	85	95	30	30	..	67	23	..	35	..	15	460
11	..	15	90	25	53	..	15	..	..	..	50	10	258
Noon	..	115	70	75	75	..	15	5	..	45	..	..	400
13h	15	50	110	82	20	30	65	..	50	35	..	60	517
14	40	105	80	105	30	45	65	..	..	40	..	10	520
15	50	115	158	85	..	37	65	..	20	40	..	..	570
16	45	15	145	105	25	33	18	..	20	45	..	..	451
17	75	27	102	85	20	40	15	..	..	75	..	25	464
18	110	90	132	83	25	30	20	35	..	20	15	40	600
19	50	..	165	67	40	10	..	15	..	55	30	50	482
20	30	60	140	15	105	..	10	20	55	60	25	25	545
21	10	100	165	55	75	..	55	70	35	65	10	..	640
22	..	120	90	85	60	10	70	70	..	40	..	65	610
23	125	60	50	45	45	15	165	70	40	..	45	15	675
24	90	65	112	60	65	10	135	75	40	30	25	25	732

COMPARISON between the READINGS of THERMOMETERS exposed in the THERMOGRAPH SCREEN, in a LOFTY ROOM between two OPEN WINDOWS, and in a STEVENSON SCREEN during the YEAR 1900.

Month, 1900.	6h			15h			6h			15h		
	Mean Temperature of the Air in Thermograph Screen.	Excess of Temperature in Thermograph Screen over		Mean Temperature of the Air in Thermograph Screen.	Excess of Temperature in Thermograph Screen over		Mean Temperature of Evaporation in Thermograph Screen.	Excess of Temperature of Evaporation in Thermograph Screen over		Mean Temperature of Evaporation in Thermograph Screen.	Excess of Temperature of Evaporation in Thermograph Screen over	
		Temperature in a Lofty Room.	Temperature in a Stevenson Screen on the Lawn.		Temperature in a Lofty Room.	Temperature in a Stevenson Screen on the Lawn.		Temperature of Evaporation in a Lofty Room.	Temperature of Evaporation in a Stevenson Screen on the Lawn.		Temperature of Evaporation in a Lofty Room.	Temperature of Evaporation in a Stevenson Screen on the Lawn.
	°	°	°	°	°	°	°	°	°	°	°	°
January	73·5	−0·7	+1·3	86·3	+3·1	−1·0	71·4	−0·4	+0·2	75·5	+1·0	−1·1
February	75·0	−0·6	+1·2	84·0	+1·5	−1·2	73·0	−0·3	+0·4	77·4	+0·7	−0·9
March	73·3	−0·8	+1·4	82·3	+1·0	−1·9	71·4	−0·4	+0·5	76·2	+0·5	−1·1
April	72·9	−0·6	+0·3	79·8	+0·7	−1·8	71·0	−0·2	−0·3	74·0	+0·1	−1·4
May	69·2	−1·2	+1·1	77·9	+0·6	−2·1	67·0	−0·5	+0·2	70·9	+0·2	−1·5
June	64·0	−1·4	+2·1	75·1	+0·7	−2·4	61·7	−0·8	+1·0	67·3	0·0	−1·6
July	62·2	−1·2	+1·3	71·7	+0·5	−1·8	59·7	−0·6	+0·4	64·4	0·0	−1·3
August	63·0	−0·9	+0·7	73·1	+1·1	−1·8	60·4	−0·3	+0·1	64·1	−0·2	−1·4
Sept.	66·2	−0·1	+0·4	75·4	+1·5	−1·6	62·7	−0·2	−0·6	65·2	−0·2	−1·5
Oct.	65·5	−1·2	+1·2	76·9	+1·4	−1·5	62·8	−0·9	+0·1	66·9	−0·3	−1·1
Nov.	69·6	0·0	+1·1	81·3	+2.5	−2·5	66·6	+0·1	+0·1	69·1	+0·4	−1·5
Dec.	72·6	0·0	+1·3	84·0	+2·3	−2·0	69·7	0·0	+0·2	72·6	+0·4	−1·0
Means	..	−0·7	+1·1	..	+1·4	−1·8	..	−0·4	+0·2	..	+0·2	−1·3

Month, 1900.	Highest Temperature in Thermograph Screen.	Excess of Highest Temperature in Thermograph Screen over		Mean of Daily Maxima in Thermograph Screen.	Excess of Mean of Daily Maxima in Thermograph Screen over		Lowest Temperature in Thermograph Screen.	Excess of Lowest Temperature in Thermograph Screen over		Mean of Daily Minima in Thermograph Screen.	Excess of Mean of Daily Minima in Thermograph Screen over	
		Highest in a Lofty Room.	Highest in a Stevenson Screen on the Lawn.		Mean of Daily Maxima in a Lofty Room.	Mean of Daily Maxima in a Stevenson Screen on the Lawn.		Lowest in a Lofty Room.	Lowest in a Stevenson Screen on the Lawn.		Mean of Daily Minima in a Lofty Room.	Mean of Daily Minima in a Stevenson Screen on the Lawn.
	°	°	°	°	°	°	°	°	°	°	°	°
January	93·1	+6·4	+0·5	89·9	+4·5	−1·0	67·8	−2·3	+3·0	72·8	−0·8	+2·3
February	88·8	+2·9	−2·3	86·8	+2·7	−1·6	70·0	−0·2	+2·8	74·2	−0·9	+1·5
March	88·2	+2·9	−2·1	85·2	+1·9	−2·4	66·7	−0·5	+2·5	72·6	−1·1	+1·5
April	86·4	+3·2	−2·1	82·2	+1·2	−2·9	65·6	−0·7	+2·5	70·9	−1·1	+1·4
May	82·5	+2·2	−5·0	79·6	+1·1	−3·4	60·9	−2·2	+3·2	67·1	−2·1	+1·5
June	80·7	+1·5	−5·1	77·3	+1·3	−3·6	50·8	−2·2	+3·2	62·0	−2·2	+2·1
July	77·0	+1·8	−4·6	74·4	+1·1	−3·0	55·9	−1·7	+3·2	60·3	−2·1	+1·5
August	78·9	+2·2	−4·3	75·6	+1·7	−2·6	50·9	−3·7	+2·6	60·3	−2·0	+1·7
Sept.	82·1	+3·0	−2·9	77·9	+2·4	−2·7	53·8	−3·2	+2·6	60·8	−3·1	+1·2
Oct.	84·5	+4·5	−1·7	80·9	+3·0	−2·6	58·9	−2·0	+2·2	63·6	−2·2	+1·6
Nov.	87·5	+4·1	−3·0	84·0	+3·4	−3·5	57·9	−4·8	+2·2	66·7	−1·7	+1·8
Dec.	94·7	+7·5	+1·2	87·2	+3·2	−3·2	65·8	−0·6	+2·3	70·3	−1·2	+1·9
Means	..	+3·5	−2·6	..	+2·3	−2·7	..	−2·0	+2·7	..	−1·7	+1·7

READINGS of a SYMON'S EARTH THERMOMETER, at a Depth of 5 feet below the SURFACE of the SOIL, at 9 a.m. on every DAY of the YEAR.

1900.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	79·3	80·7	81·2	81·4	80·6	79·3	77·8	75·8	74·8	75·2	76·3	77·7
2	79·3	80·7	81·3	81·4	80·5	79·3	77·7	75·7	74·8	75·2	76·3	77·7
3	79·4	80·8	81·3	81·4	80·5	79·3	77·6	75·7	74·8	75·2	76·4	77·8
4	79·4	80·8	81·3	81·4	80·5	79·2	77·5	75·6	74·8	75·3	76·4	77·9
5	79·5	80·8	81·3	81·4	80·5	79·1	77·4	75·6	74·8	75·3	76·4	78·0
6	79.6	80·8	81·3	81·3	80·5	79·0	77·4	75·5	74·7	75·3	76·4	78·1
7	79·6	80·8	81·4	81·3	80·4	79·0	77·3	75·4	74·7	75·3	76·4	78·1
8	79·7	80·9	81·4	81·3	80·4	78·9	77·2	75·4	74·7	75·4	76·4	78·2
9	79·8	80·9	81·5	81·3	80·4	78·9	77·1	75·3	74·7	75·4	76·4	78·2
10	79·8	80·9	81·4	81·3	80·3	78·8	77·0	75·3	74·8	75·4	76·4	78·3
11	79·9	80·9	81·4	81·2	80·3	78·8	76·9	75·3	74·9	73·5	76·5	78·3
12	79·9	80·9	81·4	81·2	80·3	78·8	76·8	75·3	74·9	75·5	76·6	78·3
13	80·0	81·0	81·4	81·2	80·2	78·8	76·7	75·2	75·0	75·6	76·7	78·4
14	80·0	81·0	81·4	81·1	80·1	78·8	76 6	75·2	75·0	75·6	76·7	78·4
15	80·0	81·0	81·4	81·1	80·1	78·6	76·6	75·2	75·0	75·6	76·8	78·4
16	80·0	81 0	81·4	81·1	80·0	78·6	76·5	75·2	75·0	75·6	76·8	78·4
17	80·0	81·0	81·4	81·1	79·9	78·6	76·5	75 2	74·9	75·7	76·8	78·4
18	80·1	81·0	81·4	81·0	79·9	78·6	76·4	75·1	74·9	75·7	76·9	78·5
19	80·2	81·1	81·4	81·0	79·8	78.5	76·4	75·0	75·0	75·8	77·0	78·6
20	80·3	81 1	81·4	81·0	79·7	78·5	76·4	75·0	75·0	75·8	77·1	78·6
21	80·3	81·1	81·4	81·0	79 7	78·4	76·3	75·0	75·0	75·8	77·2	78·7
22	80·4	81·1	81·4	80·9	79·7	78·4	76·3	75·0	75·1	75·9	77·3	78·8
23	80·4	81·1	81·5	80·9	79·7	78·4	76·2	74·9	75·1	75·9	77·3	78·9
24	80·4	81·2	81·5	80·8	76·6	78·4	76·2	74·9	75·1	76·0	77·3	79·0
25	80·4	81·2	81·5	80·8	79·6	78·3	76 2	74·9	75·1	76·0	77·4	79·0
26	80·5	81·2	81·5	80·7	79·5	78·2	76·1	74·9	75·1	76·0	77·4	79·1
27	80·5	81·2	81·6	80·7	79·4	78·1	76·1	74·8	75·1	76·1	77·4	79 2
28	80·5	81·2	81·6	80·6	79·4	78·0	76·1	74·8	75·1	76·1	77·5	79·2
29	80·6		81·6	80·6	79·4	77·9	76·0	74·8	75·1	76·2	77·5	79·3
30	80·6		81·5	80·6	79·4	77·8	75·9	74·8	75·1	76·2	77·6	79·3
31	80·7		81·5		79·3		75·9	74·8		76·2		79·4
Mean	80·04	80·98	81·42	81·07	79·99	78·64	76·68	75·18	74·94	75·67	76·85	78·52

READINGS OF A SYMON'S EARTH THERMOMETER, at a Depth of 10 feet below the SURFACE of the SOIL, at 9 a.m. on every DAY of the YEAR.

1900.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	76·95	77·40	78·00	78·25	78·60	78·70	78·40	77·95	77·25	76·75	76·60	76·65
2	76·95	77·40	78·00	78·35	78·60	78·70	78·40	77·90	77·25	76·70	76·60	76·65
3	76·95	77·40	78·00	78·30	78·65	78·70	78·40	77·90	77·25	76·65	76·60	76·70
4	76·95	77·40	78·00	78·30	78·65	78·70	78·40	77·80	77·20	76·60	76·60	76·70
5	77·00	77·40	78·05	78·30	78·65	78·65	78·40	77·80	77·20	76·60	76·60	76·70
6	77·00	77·40	78·05	78·30	78·65	78·65	78·35	77·80	77·15	76·60	76·60	76·70
7	77·00	77·45	78·05	78·30	78·70	78·65	78·35	77·80	77·10	76·60	76·60	76·70
8	77·00	77·45	78·05	78·30	78·75	78·65	78·35	77·75	77·10	76·60	76·60	76·75
9	77·00	77·45	78·00	78·30	78·75	78·65	78·30	77·75	77·10	76·60	76·60	76·75
10	77·00	77·50	78·00	78·30	78·70	78·60	78·25	77·75	77·05	76·60	76·60	76·75
11	77·05	77·50	78·00	78·30	78·70	78·60	78·25	77·75	77·00	76·60	76·60	76·80
12	77·05	77·55	78·05	78·30	78·75	78·65	78·25	77·75	77·00	76·60	76·60	76·80
13	77·05	77·55	78·05	78·30	78·75	78·70	78·25	77·70	77·00	76·60	76·60	76·80
14	77·05	77·60	78·05	78·30	78·75	78·70	78·25	77·70	76·95	76·60	76·60	76·85
15	77·05	77·60	78·05	78·35	78·75	78·60	78·25	77·70	76·95	76·60	76·60	76·85
16	77·05	77·60	78·05	78·35	78·75	78·50	78·20	77·65	76·95	76·60	76·60	76·85
17	77·05	77·60	78·10	78·40	78·70	78·50	78·20	77·65	76·95	76·55	76·60	76·80
18	77·10	77·65	78·10	78·40	78·70	78·50	78·15	77·60	76·90	76·50	76·60	76·80
19	77·10	77·70	78·10	78·40	78·70	78·50	78·15	77·55	76·85	76·50	76·60	76·85
20	77·15	77·75	78·10	78·40	78·70	78·50	78·15	77·50	76·80	76·50	76·60	76·90
21	77·15	77·80	78·10	78·40	78·70	78·50	78·10	77·45	76·80	76·50	76·60	76·95
22	77·20	77·80	78·10	78·40	78·70	78·50	78·10	77·45	76·80	76·55	76·60	77·00
23	77·20	77·80	78·10	78·40	78·70	78·50	78·10	77·40	76·80	76·55	76 65	77·00
24	77·20	77·85	78·15	78·40	78·70	78·50	78·10	77·40	76·80	76·55	76·65	77·05
25	77·20	77·85	78·15	78·45	78·70	78·45	78·05	77·40	76·75	76·60	76·65	77·05
26	77·20	77·90	78·15	78·45	78·70	78·45	78·00	77·40	76·70	76·60	76·60	77·05
27	77·30	77·90	78·20	78·45	78·65	78·40	78·00	77·35	76·70	76·60	76·60	77·05
28	77·30	77·95	78·20	78·45	78·70	78·40	78·00	77·35	76·70	76·60	76·65	77·05
29	77·35		78·20	78·55	78·70	78·40	78·00	77·35	76·70	76·60	76·65	77·10
30	77·35		78·20	78·60	78·70	78·40	77·95	77·35	76·70	76·60	76·65	77·10
31	77·40		78·25		78·70		77·95	77·35		76·60		77·15
Mean	77·11	77·61	78·09	78·37	78·70	78·56	78·20	77·61	76·95	76·59	76·61	76·87

NUMBER of HOURS of PREVALENCE of each WIND, referred to different POINTS of AZIMUTH for the YEAR 1900.

Months.	North.	N. b. E.	N.N.E.	N.E. b. N.	N.E.	N.E. b. E.	E.N.E.	E. b. N.	East.	E. b. S.	E.S.E.	S.E. b. E.	S.E.	S.E. b. S.	S.S.E.	S. b. E.	South.	S. b. W.	S.S.W.	S.W. b. S.	S.W.	S.W. b. W.	W.S.W.	W. b. S.	West.	W. b. N.	W.N.W.	N.W. b. W.	N.W.	N.W. b. N.	N.N.W.	N. b. W.	Calms.	Totals.
January	15	3	12	19	19	36	93	157	64	75	132	40	16	5	4	4	1	..	1	..	1	5	1	..	..	3	9	2	1	4	15	7	..	744
February	17	25	12	18	15	23	39	52	39	48	82	76	51	24	26	19	6	4	..	3	2	12	5	10	9	9	5	6	7	6	10	11	1	672
March	1	1	5	4	4	20	23	57	50	61	196	122	69	53	25	7	4	..	1	1	1	6	8	5	3	6	6	1	1	1	1	1	..	744
April	..	..	1	3	..	4	9	13	33	105	242	172	47	39	25	9	2	..	..	4	..	4	3	..	..	2	..	1	1	1	..	..	..	720
May	..	3	1	..	..	..	8	33	32	87	157	125	77	48	86	55	17	3	1	..	..	2	2	4	..	..	..	1	..	2	..	..	..	744
June	3	2	2	1	1	4	9	27	24	30	104	120	114	117	51	58	13	9	3	1	8	7	1	1	1	2	1	1	..	3	1	1	..	720
July	1	..	..	..	5	2	10	27	30	81	218	242	63	20	19	11	3	..	1	..	..	..	1	1	5	1	2	1	..	2	..	..	..	744
August	..	2	..	..	2	3	13	25	50	130	269	154	38	30	10	1	2	..	1	..	..	6	3	..	..	2	2	..	..	..	1	..	..	744
September	..	..	..	1	5	3	20	49	52	119	181	182	58	28	11	1	1	1	..	..	2	1	..	1	..	..	1	1	..	1	..	1	..	720
October	1	2	10	10	2	11	23	80	51	158	201	124	27	16	2	3	2	6	3	2	..	2	3	2	1	1	..	..	..	..	..	1	..	744
November	..	..	..	..	4	24	74	178	82	123	119	62	18	..	2	..	1	6	1	2	1	3	3	9	..	1	..	1	1	1	1	..	3	720
December	2	3	4	2	7	18	98	231	124	76	89	15	5	5	8	24	2	8	1	6	..	1	..	4	1	1	2	2	..	..	1	3	1	744
Totals	40	41	47	58	62	148	419	929	631	1,093	1,990	1,434	583	385	269	192	54	37	13	19	15	49	30	37	20	28	28	17	11	21	30	25	5	8,760
Percentages	0·46	0·47	0·54	0·66	0·71	1·69	4·78	10·61	7·20	12·48	22·72	16·37	6·66	4·39	3·07	2·19	0·62	0·42	0·15	0·22	0·17	0·56	0·34	0·42	0·23	0·32	0·32	0·19	0·13	0·24	0·34	0·29	0·06	

MONTHLY MEAN VELOCITY of the WIND, in MILES per HOUR, at every HOUR of the DAY, as recorded by the BECKLEY ANEMOGRAPH.

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
Midnight	6·1	6·0	7·1	8·4	7·6	8·1	8·1	7·4	6·8	7·4	6·6	7·1	7·22
1h	5·9	6·0	7·1	8·0	7·7	7·3	8·0	7·5	6·6	7·3	6·2	6·8	7·03
2	5·9	6·1	6·6	8·0	7·2	6·9	8·5	7·0	6·8	7·3	6·4	7·2	6·99
3	5·9	5·7	6·3	7·6	7·0	6·3	8·3	6·3	7·5	7·5	6·2	6·6	6·77
4	5·9	5·4	6·5	7·5	6·9	6·3	8·0	6·3	7·1	7·2	6·4	6·6	6·67
5	5·7	5·9	6·5	7·4	6·9	6·9	7·9	7·1	7·5	6·8	6·5	6·9	6·83
6	5·9	5·9	6·8	7·3	7·5	7·0	7·7	7·5	7·5	6·6	6·4	7·1	6·93
7	6·5	6·0	6·9	7·4	7·5	6·8	7·7	7·1	7·9	8·8	8·7	9·7	7·58
8	9·6	8·6	8·9	10·1	9·6	7·8	8·9	9·3	11·8	12·6	12·8	12·5	10·21
9	11·4	8·9	9·6	11·5	11·7	9·8	11·6	12·1	13·2	12·9	12·5	12·4	11·47
10	11·5	10·1	10·8	13·0	13·4	12·3	15·1	14·4	14·7	15·2	14·3	14·0	13·23
11	12·4	10·6	11·4	13·1	13·3	13·3	16·4	14·8	14·7	15·1	14·1	14·1	13·61
Noon	12·9	10·6	11·8	14·0	14·2	13·4	17·1	15·4	15·1	15·3	15·0	14·4	14·10
13h	13·4	10·4	12·3	13·8	14·0	13·6	16·2	14·9	14·7	15·2	15·2	14·5	14·02
14	13·1	10·3	11·8	13·9	14·1	13·4	16·7	15·3	14·7	15·3	15·6	14·2	14·03
15	12·0	10·5	11·2	13·2	13·4	12·8	16·3	14·9	14·0	14·0	14·2	13·5	13·33
16	11·7	9·6	11·3	12·8	13·2	12·2	15·4	14·2	13·8	14·0	14·0	13·4	12·97
17	11·3	9·1	10·5	11·2	10·4	10·2	12·1	12·5	12·5	13·4	13·3	12·8	11·61
18	9·8	7·7	8·7	9·0	8·8	8·0	9·1	8·9	9·7	11·0	11·5	11·6	9·48
19	7·8	6·6	7·5	8·9	8·4	7·7	8·8	7·6	7·4	8·3	8·5	9·6	8·09
20	6·9	6·4	7·6	9·3	8·2	7·6	8·4	7·9	7·0	7·7	6·8	8·1	7·66
21	6·8	6·5	7·0	9·1	7·5	7·8	8·6	7·2	7·3	7·8	6·5	7·5	7·47
22	6·2	6·0	6·7	8·3	7·7	7·2	8·4	6·9	6·6	7·4	6·5	7·2	7·09
23	5·8	5·8	7·1	8·6	7·6	7·4	8·3	7·3	6·5	7·8	6·7	7·0	7·16
24	6·0	6·1	7·4	8·1	8·1	7·7	8·1	7·6	6·6	7·3	6·7	7·0	7·23

MONTHLY MEAN DIRECTION of the WIND, computed from the Mean HOURLY NORTH and EAST COMPONENTS, as derived from the RECORDS of the BECKLEY ANEMOGRAPH.

(The values represent the direction from which the wind blows, counting from South (0°) through East (90°) to North (180°) and West (270°).)

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
	°	°	°	°	°	°	°	°	°	°	°	°	° ′
Midnight	79	84	56	58	52	44	60	66	59	67	77	81	63.50
1h	78	79	58	56	56	41	58	67	60	65	74	79	63. 4
2	75	77	57	55	51	43	56	62	59	67	79	77	62.18
3	76	75	58	55	51	39	59	58	57	64	71	79	61.14
4	75	81	61	56	51	34	57	61	56	61	77	80	61.38
5	75	76	58	54	51	37	55	60	59	65	75	79	61. 2
6	71	75	60	58	50	36	53	59	59	63	73	79	60.34
7	73	78	63	57	48	37	55	59	60	67	76	80	63. 4
8	94	86	59	60	50	35	60	64	68	78	91	92	71.20
9	108	95	70	68	53	42	69	70	77	81	93	94	76.48
10	113	102	80	68	55	44	66	74	76	81	97	97	78.12
11	116	104	82	71	58	50	68	73	79	85	99	103	80.43
Noon	121	119	88	72	62	52	67	72	76	89	96	102	81.39
13h	116	140	80	70	62	50	70	70	79	86	95	103	80.36
14	114	133	78	66	62	45	71	71	76	83	97	104	79.49
15	110	122	73	65	60	49	69	70	76	78	95	103	77.56
16	109	115	68	64	56	51	65	68	71	80	92	99	75.44
17	100	122	66	61	51	49	63	66	68	72	88	94	73.23
18	92	93	62	60	48	48	57	67	66	71	83	89	69.59
19	87	82	59	60	51	51	57	68	63	69	77	87	67.11
20	81	76	62	60	48	46	55	64	62	69	76	88	64.44
21	83	75	61	60	49	43	57	62	62	68	75	86	64.12
22	80	74	62	59	50	40	57	63	61	68	75	85	63.36
23	81	79	59	58	51	45	58	63	62	70	76	82	63.57

MONTHLY MEAN VELOCITY of the WIND, in MILES per HOUR, at every HOUR of the DAY, computed from the MEAN HOURLY NORTH and EAST COMPONENTS, as derived from the Records of the BECKLEY ANEMOGRAPH.

1900.

Hour M.C.T.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
Midnight	5·4	4·1	6·8	8·1	6·9	7·5	7·8	7·1	6·6	7·1	6·1	6·5	6·52
1h	5·5	3·7	6·6	7·8	7·1	6·7	7·6	7·1	6·2	7·1	5·7	6·1	6·31
2	5·6	4·0	5·9	7·9	6·6	6·3	8·2	6·8	6·5	7·0	6·0	6·3	6·30
3	5·6	4·2	5·8	7·4	6·3	5·5	7·9	6·1	7·2	7·3	5·2	6·1	6·14
4	5·6	3·8	5·9	7·2	6·1	5·6	7·7	6·0	6·8	6·9	5·6	6·1	5·98
5	5·3	4·2	6·3	7·2	6·2	6·3	7·5	7·0	7·2	6·5	6·0	6·4	6·19
6	5·7	4·2	6·5	7·0	6·9	6·4	7·5	7·3	7·3	6·4	6·0	6·6	6·35
7	6·2	3·9	6·5	7·2	6·9	6·2	7·5	6·9	7·7	8·5	8·1	9·2	8·70
8	9·0	6·4	8·3	9·7	8·9	7·2	8·8	9·0	11·2	12·1	12·2	11·7	9·12
9	10·6	6·4	8·9	11·2	10·7	8·8	10·9	11·8	12·5	12·2	11·0	11·5	10·12
10	10·1	6·3	9·2	12·4	12·3	10·5	14·4	13·6	13·9	14·4	13·4	12·5	11·29
11	10·1	5·9	7·6	12·1	11·9	11·3	15·6	13·7	13·9	14·0	12·8	12·5	11·16
Noon	9·9	4·5	7·5	12·0	12·2	11·0	16·1	13·6	13·3	13·2	12·4	12·6	10·89
13h	9·5	2·7	7·6	11·5	11·5	10·8	14·6	13·6	12·9	12·7	12·7	12·3	10·41
14	9·7	4·0	7·2	12·1	12·0	10·7	15·0	14·0	13·4	12·4	13·2	12·0	10·64
15	8·1	4·5	8·1	12·0	11·6	9·9	14·9	13·6	12·8	11·5	12·4	12·3	10·43
16	8·8	5·3	8·4	11·8	11·8	9·9	14·0	13·0	12·9	12·6	12·3	11·8	10·50
17	9·0	4·8	8·4	10·4	9·6	8·8	11·1	11·8	11·9	12·5	12·3	11·9	9·73
18	8·3	4·4	7·7	8·7	8·1	7·2	8·5	8·5	9·3	10·2	11·0	10·9	8·27
19	6·9	4·1	6·8	8·6	7·8	7·0	8·2	7·2	7·1	7·7	8·0	9·1	7·19
20	5·7	4·1	6·8	9·1	7·4	6·8	7·8	7·6	6·8	7·1	6·1	7·6	6·75
21	5·9	4·4	6·4	8·9	6·9	6·8	8·1	6·9	7·0	7·2	6·1	7·1	6·64
22	5·5	3·8	6·4	8·0	7·0	6·5	8·0	6·7	6·4	7·0	6·1	6·7	6·36
23	5·3	3·7	6·9	8·3	7·0	6·8	8·0	7·0	6·3	7·4	6·3	6·4	6·49

ABSTRACT of the CHANGES of the DIRECTION of the WIND, as derived from the RECORDS of the BECKLEY ANEMOGRAPH in the YEAR 1900.

Mauritius Civil Time. From	Mauritius Civil Time. To	Change of Direction. From	Change of Direction. To	Amount of Motion. Direct.	Amount of Motion. Retrograde.
				points.	points.
January.					
d h	d h				
2.10	2.13	E.N.E.	N.	26	
2.15½	2.16	N.	S.S.W.	18	
2.16	2.16½	S.S.W.	N.N.E.		16
2.20	2.22	N.N.E.	E.S.E.	8	
3. 8	3. 8¾	E.S.E.	E.N.E.		4
3.13½	3.15¼	E.N.E.	N.W.	22	
3.16	3.17	N.W.	W.		4
3.18	3.18½	W.	N.	8	
3.23	3.23¼	N.	E.S.E.	10	
4. 7½	4. 9	E.S.E.	N.		10
4.16	4.16¼	N.	N.W.		2
5. 1	5. 1¼	N.W.	E.S.E.	12	
5. 4	5. 7½	E.S.E.	E.N.E.		4
7.17	7.19¼	E.N.E.	W.S.W.	16	
8. 0	8. 0¼	W.S.W.	E.S.E.		12
8.12	8.13¼	E.S.E.	W.S.W.	12	
8.16	8.16¼	W.S.W.	E.S.E.		12
9. 7	9. 9	E.S.E.	E.		2
24. 7	24.15	E.	N.N.W.		8
24.17¾	24.18	N.N.W.	N.	2	
24.21	24.21¼	N.	E.	4	
25. 6	25. 8½	E.	N.N.E.		6
26. 8½	26.15	N.N.E.	W.N.W.		8
26.17	26.19½	W.N.W.	S.E.		14
27. 8½	27.10½	S.E.	W.N.W.		18
27.16	27.16½	W.N.W.	E.N.E.		20
27.17¼	27.18¼	E.N.E.	S.E.	6	
28. 7½	28. 9	S.E.	N.E.		8
29. 9	29.11	N.E.	N.N.W.		6
29.13¾	29.14	N.NW.	S.S.E.	16	
29.15¼	29.16	S.S.E.	E.N.E.		8
30. 9	30.11½	E.N.E.	N.N.E.		4
30.12½	30.13	N.N.E.	S.	14	
30.14½	30.17½	S.	E.S.E.		8
30.23	31. 9	E.S.E.	N.E.		6
31. 9¼	31.10¼	N.E.	S.	12	
31.10½	31.10¾	S.	E.N.E.		10
			Sums	186	190
February.					
4. 7	4. 9½	E.N.E.	N.N.E.		4
6. 6	6. 7	N.N.E.	N.		2
7. 3	7.11	N.	W.N.W.		6
7.17	8. 2¼	W.N.W.	S.E.		14
8. 8¾	8. 9½	S.E.	N.W.	16	
8.11¼	8.16½	N.W.	N.		28
8.17	8.17¾	N.	S.E.	12	
9. 8	9.10	S.E.	W.	12	
9.15	9.16	W.	E.		16
Feb.—*cont.*					
d h	d h				
9.18½	9.19½	E.	S.E.	4	
10. 8	10.11½	S.E.	W.S.W.		22
10.17½	10.17¾	W.S.W.	E.S.E.		12
14. 9	14.13	E.S.E.	W.N.W.	16	
14.16	14.21	W.N.W.	S.E.		14
15. 8	15.10¼	S.E.	E.		4
15.11½	15.12	E.	W.	16	
15.12½	15.14	W.	S.E.		12
16.12¼	16.15	S.E.	S.E.	32	
17. 9	17.10	S.E.	E.		4
17.10¾	17.11	E.	S.W.	12	
17.12½	17.13¼	S.W.	N.N.W.	10	
17.17½	17.20½	N.N.W.	E.S.E.	12	
18. 8	18.13½	E.S.E.	N.W.		14
18.17½	18.19	N.W.	S.		12
19. 1½	19. 1¾	S.	S.E.		4
19. 7	19. 9	S.E.	E.N.E.		6
20. 7½	20. 8½	E.N.E.	N.W.		10
20.10½	20.12	N.W.	S.	20	
20.13	20.16	S.	N.E.		12
21.18	22. 8½	N.E.	E.S.E.	6	
23.13	23.13½	E.S.E.	S.W.	10	
23.14½	23.16½	S.W.	E.S.E.		10
24.12	24.12½	E.S.E.	W.S.W.	12	
24.16	24.16¾	W.S.W.	N.	10	
24.17	24.17½	N.	S.E.		20
24.21	24.21¼	S.E.	S.W.	8	
24.23	25. 0½	S.W.	S.		4
25. 7¾	25. 9	S.	E.S.E.		6
25.12	25.14	E.S.E.	W.	14	
25.18	26. 1¾	W.	S.S.E.		10
26.10¾	26.11½	S.S.E.	W.S.W.	8	
26.13½	26.13¾	W.S.W.	E.N.E.	16	
26·14	26·15½	E.N.E.	N.		6
26.17	26·17½	N.	S.S.E.	14	
26.23	27. 0	S.S.E.	S.E.		2
28. 9	28.10	S.E.	E.S.E.		2
			Sums	260	256
March.					
2.11	2.12	E.S.E.	W.N.W.		16
2.15	2.17¼	W.N.W.	S.S.E.		12
3.10	3.10½	S.S.E.	W.S.W.	8	
3.12	3.21	W.S.W.	S.E.	22	
4. 8	4.11½	S.E.	W.		20
4.12	4.12½	W.	N.	8	
4.12¾	4.16	N.	S.S.E.		18
March—*cont.*					
d h	d h				
4.21¼	4.22¼	S.S.E.	E.S.E.		4
5. 8¾	5.11	E.S.E.	N.W.		14
5.11¼	5.12	N.W.	N.	4	
5.13	5.16½	N.	S.		16
5.17	5.18¼	S.	N.W.	12	
5.18½	6. 2	N.W.	N.		28
6. 2½	6. 3	N.	S.S.E.	14	
6. 3½	6. 3¾	S.S.E.	W.S.W.		24
6. 4	6. 5	W.S.W.	S.E.	22	
6. 8½	6. 9¾	S.E.	E.		4
6.14½	6.15	E.	S.E.	4	
6.19½	6.19¾	S.E.	E.N.E.		6
6.20¾	6.23	E.N.E.	E.S.E.	4	
8. 6½	8. 8	E.S.E.	E.		2
11. 6	11. 9½	E.	W.S.W.	14	
11.16½	11.16¾	W.S.W.	N.N.E.		20
11.17	11.18	N.N.E.	S.E.	10	
12. 9½	12.10	S.E.	W.	12	
12.12½	12.14	W.	S.E.		12
13.11	13.12¼	S.E.	W.	12	
13.14	13.16	W.	E.S.E.	18	
15. 8	15.10	E.S.E.	E.		2
18.18	19. 0	E.	E.S.E.	2	
23. 9	23.10	E.S.E.	E.		2
24. 9	24.10	E.	N.E.		4
24.21½	24.21¾	N.E.	S.E.	8	
25. 9	25.10¾	S.E.	W.S.W.		22
25.11¼	25.12½	W.S.W.	S.E.	22	
29. 9	29.11	S.E.	E.S.E.		2
			Sums	196	228
April.					
5. 8½	5.11	E.S.E.	E.N.E.		4
5.13¼	5.13¾	E.N.E.	S.S.W.	12	
5.14¾	6. 9	S.S.W.	E.		10
6.12½	6.13	E.	S.W.	12	
6.13¾	6.14½	S.W.	E.S.E.		10
9.12	9.14	E.S.E.	W.S.W.	12	
9.17½	9.20	W.S.W.	S.E.		10
10.10	10.11	S.E.	W.N.W.	14	
10.14	10.15	W.N.W.	S.E.	18	

ABSTRACT of the CHANGES of the DIRECTION of the WIND, as derived from the RECORDS of the BECKLEY ANEMOGRAPH in the YEAR 1900.

Mauritius Civil Time. From	Mauritius Civil Time. To	Change of Direction. From	Change of Direction. To	Amount of Motion. Direct.	Amount of Motion. Retrograde.
				points	points
April—*cont.*					
d h	d h				
11.11	11.12½	S.E.	W.N.W.	14	
11.13	11.13½	W.N.W.	S.E.		14
11.16	11.16¼	S.E.	W.S.W.	10	
11.17¼	12. 1	W.S.W.	S.S.E.		8
13. 8	13. 9	S.S.E.	E.S.E.		4
30.11¾	30.12	E.S.E.	N.W.		14
30.12½	30.13½	N.W.	N.E.	8	
30.16½	30.17½	N.E.	E.	4	
			Sums	104	74
May.					
1. 0¾	1. 1	E.	S.S.E.	6	
2.10¼	2.12	S.S.E.	N.N.E.	20	
2.13¾	2.14¼	N.N.E.	W.S.W.		12
2.14¾	2.17	W.S.W.	S.S.E.	24	
3.12	3.12½	S.S.E.	N.W.	14	
3.13	3.13¼	N.W.	W.S.W.		6
3.16	3.16½	W.S.W.	S.		6
4.12	4.12¼	S.	N.N.W.	14	
4.14½	4.15	N.N.W.	S.S.E.	16	
30. 9	30.13	S.S.E.	E.N.E.		8
30.15	30.15¼	E.N.E.	E.	2	
31. 9	31. 9½	E.	E.S.E.	2	
31.12¾	31.13½	E.S.E.	W.	14	
31.16	31.18	W.	S.E.		12
			Sums	112	44
June.					
5.14	5.14½	S.E.	N.W.	16	
5.15	5.17	N.W.	S.E.	16	
8. 8	8. 9	S.E.	E.S.E.		2
9. 8¾	9. 9	E.S.E.	E.		2
10.13¾	10.15	E.	W.S.W.	14	
10.17	10.17¼	W.S.W.	E.S.E.		12
12.10¾	12.11	E.S.E.	E.N.E.		4
12.12½	12.13¼	E.N.E.	S.W.	14	
12.13½	12.15	S.W.	S.S.W.		2
12.16¼	12.16½	S.S.W.	E.		10
13. 7	13. 7¼	E.	E.S.E.	2	
13.10¾	13.11	E.S.E.	E.N.E.		4
13.12¼	13.13	E.N.E.	N.W.	22	
13.15	13.16½	N.W.	E.S.E.	14	
14. 9	14.21¼	E.S.E.	S.W.		22
15.12	15.17	S.W.	S.	28	
15.20	16. 1½	S.	S.S.E.		2
29.13	29.13½	S.S.E.	W.N.W.	12	
29.16½	30. 7½	W.N.W.	S.S.E.	20	
			Sums	158	60

Mauritius Civil Time. From	Mauritius Civil Time. To	Change of Direction. From	Change of Direction. To	Amount of Motion. Direct.	Amount of Motion. Retrograde.
				points	points
July.					
d h	d h				
1. 6	1. 9	S.S.E.	E.S.E.		4
10.10½	10.11½	E.S.E.	N.W.		14
10.14	10.14¾	N.W.	N.E.	8	
10.15	10.16¼	N.E.	W.		12
10.20¼	10.20½	W.	S.E.		12
11.12½	11.13	S.E.	W.N.W.	14	
11.15¼	11.17½	W.N.W.	S.E.		14
			Sums	22	56
August.					
2. 4	2. 9	S.E.	E.S.E.		2
3. 9	3. 9½	E.S.E.	E.		2
4. 8	4.10½	E.	N.		8
4.12	4.13	N.	S.S.E.		18
4.14	4.14¼	S.S.E.	W.S.W.	8	
4.21	4.21¼	W.S.W.	E.S.E.		12
5. 8¾	5. 9	E.S.E.	E.N.E.		4
5.11¾	5.14	E.N.E.	W.S.W.		16
5.16¼	5.16½	W.S.W.	E.S.E.		12
*30.11¾	30.12	E.S.E.	W.N.W.		16
30.13	30.14	W.N.W.	E.S.E.	16	
			Sums	24	90
September.					
6. 8¼	6. 9	E.S.E.	E.		2
6.11	6.12	E.	W.N.W.		14
6.12¼	6.14	W.N.W.	E.	14	
6.22¾	6.23	E.	E.S.E.	2	
7.14¾	7.15¼	E.S.E.	S.W.	10	
7.17¼	7.17½	S.W.	E.S.E.		10
23.11¼	23.14¼	E.S.E.	N.N.W.	20	
23.15	23.15¼	N.N.W.	S.E.		18
24. 9	24.13	S.E.	E.S.E.		2
			Sums	46	46
October.					
10. 9	10.17	E.S.E.	N.N.E.		8
10.22	10.22¼	N.N.E.	E.S.E.	8	
11.11	11.11¼	E.S.E.	W.S.W.	12	
11.13¾	11.15½	W.S.W.	E.S.E.	20	
21. 7½	21. 7¾	E.S.E.	E.N.E.		4
21.11½	21.14½	E.N.E.	S.		22
21.21½	21.23½	S.	S.E.		4
22. 7½	22. 7¾	S.E.	N.E.		8
22.10	22.11½	N.E.	N.N.W.		6
22.11¾	22.15½	N.N.W.	S.S.W.	20	
22.19	22.21½	S.S.W.	S.E.		6
23. 7¾	23. 8¾	S.E.	E.		4

Mauritius Civil Time. From	Mauritius Civil Time. To	Change of Direction. From	Change of Direction. To	Amount of Motion. Direct.	Amount of Motion. Retrograde.
				points	points
Oct.—*cont.*					
d h	d h				
23.12¼	23.14	E.	W.S.W.	14	
23.15½	23.17	W.S.W.	S.S.E.	24	
24. 6½	24. 8	S.S.E.	E.S.E.		4
28.13	28.13½	E.S.E.	W.S.W.	12	
28.14	29.17	W.S.W.	S.E.		10
29.11½	29.12	S.E.	N.E.		8
29.12½	29.13	N.E.	W.	20	
29.13¾	29.15	W.	E.S.E.		14
30. 6½	30. 8	E.S.E.	E.		2
30.10	30.10½	E.	N.E.		4
30.13½	30.14	N.E.	N.		4
30.15	30.16¼	N.	E.N.E.	6	
31. 9	31. 9½	E.N.E.	N.N.E.		4
31.20¾	31.21	N.N.E.	E.N.E.	4	
			Sums	140	112
November.					
1. 2¼	1. 2½	E.N.E.	E.	2	
1.11¾	1.12	E.	S.W.	12	
1.16½	1.16¾	S.W.	S.E.		8
2. 7	2. 9	S.E.	E.N.E.		6
2.16½	3. 3	E.N.E.	E.S.E.	4	
3. 9	3.10	E.S.E.	N.N.W.		10
3.11¼	3.14	N.N.W.	W.S.W.		8
3.17	4. 5	W.S.W.	E.S.E.		12
14. 7	14.10½	E.S.E.	W.S.W.	12	
14.14	14.15	W.S.W.	E.		14
19.11¾	20. 3½	E.	N.W.	20	
20. 4½	20. 5½	N.W.	W.		4
20. 7¼	20. 7½	W.	E.N.E.	14	
			Sums	64	62
December.					
2. 8	2. 9	E.N.E.	N.E.		2
2. 9¾	2.10	N.E.	N.		4
2.11	2.16	N.	S.W.	52	
2.20¾	2.21	S.W.	S.		4
3. 2¾	3. 3	S.	S.E.		4
3. 7¾	3.10½	S.E.	E.N.E.		6
3.11½	3.12	E.N.E.	S.W.	14	
3.14	3.14¼	S.W.	W.	4	
3.16	3.17½	W.	E.S.E.	18	
4. 9	4.12	E.S.E.	E.		2
15. 7½	15. 8½	E.	N.W.		12
15.10½	15.11½	N.W.	N.	4	
15.15¼	15.15½	N.	S.		16
16. 8½	16. 9	S.	S.E.		4
16. 9½	16.13	S.E.	W.		20
16.15½	16.16½	W.	S.		8
17. 1¾	17. 6¼	S.	E.S.E.		6
18. 7	18. 8½	E.S.E.	E.		2
			Sums	92	90

* Whirlwind passed to North of Observatory, from East to West.

Month and Day 1900.		Mean Heating Effect P	Mean Altitude of Sun.	Height of Barometer H	Log β = log H/30	Log δ = log Cosecant Altitude.	Add = log β δ.	Add log (log x) [8·71181(−)] = log (β δ log x).	Natural Number = −β δ log x.	Log Pρ².	Add = log Pρ²/βδ x	Natural Number = P₀	Relative Humidity.
		°	° ′	ins.								°	%
January	3	10·14	86.41	29·756	9·99647	0·00073	9·99720	8·70901	0·0512	0·9913	1·0425	11·03	46
	16	10·37	88.09	29·852	9·99787	·00023	9·99810	·70991	·0513	1·0015	1·0528	11·29	52
	17	10·33	88.47	29·853	9·99787	·00010	9·99797	·70978	·0513	0·9999	1·0512	11·25	45
	18	10·25	89.20	29·803	9·99712	·00003	9·99715	·70896	·0512	0·9966	1·0478	11·16	47
	19	10·20	88.02	29·805	9·99717	·00026	9·99743	·70924	·0512	0·9946	1·0458	11·11	48
March	19	9·15	70.16	29·824	9·99743	·02628	0·02371	·73552	·0544	0·9579	1·0123	10·29	72
	31	9·22	65.33	29·811	9·99726	·04080	0·03806	·74987	·0562	0·9642	1·0204	10·48	63
April	5	9·40	63.41	29·708	9·99577	·04752	0·04329	·75510	·0569	0·9739	1·0308	10·73	67
	12	9·18	61.06	29·791	9·99695	·05776	0·05471	·76652	·0584	0·9653	1·0237	10·56	62
	14	9·64	60.25	29·889	9·99839	·06066	0·05905	·77086	·0590	0·9871	1·0461	11·12	50
	26	8·89	56.20	29·879	9·99826	·07973	0·07799	·78980	·0616	0·9547	1·0163	10·38	64
May	11	9·15	51.50	29·986	9·99978	·10446	0·10424	·81605	·0655	0·9704	1·0359	10·86	59
	12	8·96	51.40	29·942	9·99917	·10545	0·10462	·81643	·0655	0·9615	1·0270	10·64	64
	16	8·71	50.38	29·867	9·99808	·11176	0·10984	·82165	·0663	0·9499	1·0162	10·38	70
	17	8·74	50.24	29·860	9·99795	·11322	0·11117	·82298	·0665	0·9516	1·0181	10·43	64
	18	8·89	48.15	29·899	9·99852	·12723	0·12575	·83756	·0688	0·9592	1·0280	10·67	66
June	1	8·96	47.51	29·921	9·99887	·12995	0·12882	·84063	·0693	0·9647	1·0340	10·81	57
	4	9·02	47.26	29·947	9·99922	·13283	0·13205	·84386	·0698	0·9679	1·0377	10·91	65
	7	9·08	47.06	29·903	9·99861	·13517	0·13378	·84559	·0701	0·9712	1·0413	11·00	54
	8	8·88	46.59	29·919	9·99883	·13599	0·13482	·84663	·0702	0·9616	1·0318	10·76	60
	11	8·99	46.40	29·876	9·99822	·13824	0·13646	·84827	·0705	0·9672	1·0377	10·91	57
	18	9·15	46.21	30·000	0·00000	·14052	0·14052	·85233	·0712	0·9754	1·0466	11·13	60
	21	8·67	46.18	29·952	9·99930	·14088	0·14018	·85199	·0711	0·9522	1·0233	10·55	56
	25	9·19	46.19	29·986	9·99978	·14076	0·14054	·85235	·0712	0·9776	1·0488	11·19	50
	28	8·98	46.24	30·054	0·00078	·14016	0·14094	·85275	·0712	0·9677	1·0389	10·94	52
	29	9·12	46.29	30·008	0·00013	·13956	0·13969	·85150	·0710	0·9744	1·0454	11·10	54
July	5	9·13	46.50	30·081	0·00117	·13705	0·13822	·85003	·0708	0·9749	1·0457	11·11	48
	12	9·12	46.29	30·029	0·00043	·13956	0·13999	·85180	·0711	0·9743	1·0454	11·10	53
	19	9·15	48.41	29·939	9·99913	·12432	0·12345	·83526	·0684	0·9753	1·0437	11·06	54
	27	8·93	50.23	29·998	9·99997	·11332	0·11329	·82510	·0668	0·9642	1·0310	10·74	57
	28	9·10	50.33	29·984	9·99978	·11228	0·11206	·82387	·0667	0·9722	1·0389	10·94	49
	30	9·16	51.06	30·056	0·00082	·10888	0·10970	·82151	·0663	0·9749	1·0412	11·00	50
August	3	9·04	52.03	29·913	9·99874	·10317	0·10191	·81372	·0651	0·9687	1·0338	10·81	55
	24	9·01	58.24	30·050	0·00074	·06970	0·07044	·78225	·0606	0·9640	1·0246	10·58	54
	28	9·54	59.46	29·961	9·99943	·06350	0·06293	·77474	·0595	0·9880	1·0475	11·16	44
	29	9·47	60.05	29·947	9·99922	·06210	0·06132	·77313	·0593	0·9846	1·0439	11·06	53
September	4	9·59	62.18	29.989	9·99983	·05286	0·05269	·76450	·0581	0·9888	1·0469	11·14	51
	10	9·55	64.30	30·000	0·00000	·04451	0·04451	·75632	·0571	0·9857	1·0428	11·04	54
	14	9·75	66.05	29·982	9·99974	·03899	0·03873	·75054	·0563	0·9937	1·0500	11·22	48
	15	10·02	66.24	29·978	9.99970	·03793	0·03763	·74944	·0562	1·0054	1·0616	11·52	38
	21	9·48	68.40	29·978	9·99970	·03083	0·03053	·74234	·0553	0·9799	1·0352	10·84	48
	25	10·15	70.12	30·050	0·00074	·02647	0·02721	·73902	·0548	1·0086	1·0634	11·57	40
	26	9·58	70.37	30·032	0·00047	·02534	0·02581	·73762	·0547	0·9832	1·0379	10·91	46
October	2	9·56	73.00	30·049	0·00069	·01940	0·02009	·73190	·0539	0·9809	1·0348	10·83	48
	6	9·92	74.32	30·031	0·00043	·01602	0·01645	·72826	·0535	0·9958	1·0493	11·20	44
	8	9·66	75.21	30·007	0·00009	·01435	0·01444	·72625	·0532	0·9838	1·0370	10·89	43
	15	10·10	77.54	30·006	0·00008	·00976	0·00984	·72165	·0527	1·0014	1·0541	11·33	39
	24	9·92	81.13	29·953	9·99930	·00512	0·00442	·71623	·0520	0·9914	1·0434	11·05	52
	27	10·01	82.09	29·958	9·99939	·00409	0·00348	·71529	·0519	0·9946	1·0465	11·13	42
	30	10·03	83.08	29·907	9·99865	·00313	0·00178	·71359	·0517	0·9950	1·0467	11·14	51
November	6	9·98	85.03	29·940	9·99913	·00162	0·00075	·71256	·0516	0·9911	1·0427	11·03	45
	19	10·01	87.58	29·886	9·99835	·00027	9·99862	·71043	·0513	0·9898	1·0411	10·99	48
	26	10·34	89.08	29·866	9·99804	·00005	9·99809	·70990	·0513	1·0028	1·0541	11·33	44
December	7	10·23	86.00	29·906	9·99865	·00106	9·99971	·71152	·0515	0·9966	1·0481	11·17	39
	12	10·16	86.47	29·913	9·99874	·00068	9·99942	·71123	·0514	0·9931	1·0445	11·08	46
	19	10·21	86.01	29·895	9·99848	·00105	9·99953	·71134	·0514	0·9947	1·0461	11·12	46
	21	10·15	85.35	29·852	9·99787	·00129	9·99916	·71097	·0514	0·9921	1·0435	11·05	44
	31	10·22	86.17	29·799	9·99708	·00091	9·99799	·70980	·0513	0·9947	1·0460	11·12	47
											Mean Value of P_0 in 1900 =	10·96	..

APPROXIMATE ALTITUDES of RAINFALL STATIONS and the NAMES of the OBSERVERS.

District.	Station.	Observer.	Altitude.	Reference Number of Station.
			Feet.	
Rivière du Rempart.	St. Antoine	G. Mayer	50	1
	Mon Loisir	H. Rouillard	300	2
	Labourdonnais	A. Wiehé	290	3
	Beau Sejour	W. P. Ebbels	300	4
	Antoinette	G. Martin	640	5
	Mon Songe	W. P. Ebbels	620	6
Pamplemousses.	St. André	G. Harel	175	7
	Solitude	G. Harel	90	8
	Mon Rocher	E. Maurel	270	9
	Beau Plan	J. de St. Romain	195	10
	Botanic Gardens	J. Vankeirsbilck	225	11
	The Observatory	T. F. Claxton	179	12
	The Mount	L. Antelme	325	13
	La Grande Rosalie	C. Montocchio	643	14
	California	C. Montocchio	850	15
	Montagne Longue (Solitude).	Jules Joly	430	16
Port Louis.	The Albion Dock	C. Sumeire, C.M.G.	18	17
Flacq.	Beau Bois	V. Dupin	500	18
	Constance	A. Dalais	100	19
	Rich-Fund	P. Eynaud	500	20
	Union	A. Régnard	600	21
	Bel Etang	V. Lagesse	700	22
	Beau Champ	A. Low	20	23
	Sans Souci	E. D'Argent	910	24
	Olivia	W. Brodie	400	25
	Etoile	C. Barlow	400	26
Moka.	The Bower	C. F. Shand	1,080	27
	Gentilly	H. Finniss	1,150	28
	Bon Air	W. S. Telfair	1,050	29
	Alma	Hon. H. Leclézio C.M.G.	1,500	30
	Le Réduit	W. Kennedy	1,000	31
	Minissy	L. Hardy	1,150	32
Plaines Wilhems.	The Manse	Rev. G. McIrvine	850	33
	Villa Fantaisie	H. Ducray	830	34
	Trianon	E. Lagesse	950	35
	Salency	A. Boulé	923	36
	Phœnix Estate	A. Seriès	1,300	37
	Réunion	Hon. G. Robinson	1,420	38
	Marton	F. Nash	1,400	39
	Curepipe	J. Vankeirsbilck	1,840	40
	Villa-le-Bain	Th. V. Latour	1,840	41
	Mare-aux-Vacoas	P. le Juge de Segrais, A.M.I.C.E.	1,850	42
Black River.	Albion Estate	G. R. Lagane	30	43
	Wolmar	Maurice W. Wiehé	200	44
	Tamarin	Maurice W. Wiehé	150	45
Grand Port.	Ferney	A. Fayd'herbe	20	46
	Cent Gaulettes	A. McGregor	800	47
	Cluny	J. K. Desplaces	1,000	48
	Riche-en-Eau	E. de Rochecouste	1,200	49
	Union Park	A. Samouilhan	900	50
	Astrœa	A. Daniel	700	51
	Beau Vallon	L. de Rochecouste	60	52
	Gros Bois	A. Desplaces	500	53
Savanne.	Colmar	Sir V. Naz, K.C.M.G.	400	54
	Beau Bois	G. Guimbeau	350	55
	Britannia	T. W. Innis	730	56
	Bénarès (Residence)	Sir V. Naz, K.C.M.G.	300	57
	Bénarès (Sugar House).	Sir V. Naz, K.C.M.G.	200	58
	Ste. Marie	H. J. H. Ahmed	100	59
	Beau Champ	H. J. H. Ahmed	60	60
	St. Aubin	G. Guimbeau	300	61
	Bel Ombre	H. J. H. Ahmed	50	62
	Union-Bel-Air	T. V. Latour	90	63
	Terracine	O. Pilot	50	64

MONTHLY RAINFALL at various STATIONS in MAURITIUS for the YEAR 1900.

Reference Number of Station.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.
	ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.	
1	2·85	7	3·65	8	10·21	19	5·12	11	3·81	13	0·55	2	4·97	13	3·48	8	0·00	0	1·05	3	0·55	4	0·23	2
2	5·16	12	3·09	13	7·28	21	4·70	17	2·75	17	0·79	3	4·33	19	3·64	12	1·06	8	1·34	11	1·09	8	0·33	4
3	3·53	14	3·94	12	8·45	24	5·71	13	2·26	13	0·58	3	3·68	16	3·73	9	0·37	3	1·41	6	1·25	7	0·43	4
4	2·25	..	6·68	..	17·13	..	7·35	..	2·83	..	1·03	..	5·95	..	4·05	..	1·85	..	2·29	..	1·96	..	0·75	..
5	3·68	19	7·91	15	9·81	26	5·80	16	2·53	15	0·52	3	4·08	17	3·84	13	1·66	8	1·47	6	1·83	17	1·00	8
6	3·49	13	7·99	14	11·48	24	7·38	17	3·03	14	0·84	4	4·13	16	2·82	11	1·68	7	1·77	8	1·58	10	1·38	11
7	2·59	10	4·76	11	8·45	13	2·62	11	1·29	8	2·58	3	1·88	8	2·06	4	0·35	2	1·28	5	0·68	4	0·18	2
8	1·95	11	5·62	16	7·24	14	1·96	11	0·72	10	2·52	3	1·53	10	1·64	5	0·11	2	0·81	5	0·53	6	0·51	5
9	5·25	16	9·01	14	11·17	20	5·18	16	1·91	10	2·45	2	3·18	11	3·64	6	1·07	3	2·27	11	1·57	9	1·34	6
10	2·92	9	6·39	12	8·64	16	3·44	12	1·27	11	1·25	2	2·56	13	2·10	3	0·38	2	1·05	2	0·83	4	0·42	3
11	4·08	14	6·52	21	8·44	25	4·09	15	1·49	15	1·12	7	3·33	23	2·47	14	0·83	10	2·09	13	1·73	14	0·77	14
12	3·35	17	4·79	20	9·15	23	3·16	15	1·36	17	1·33	3	2·29	18	1·79	12	0·48	5	1·59	15	1·31	13	0·68	15
13	4·50	16	6·74	19	8·23	21	6·60	19	2·03	12	0·83	3	3·89	18	2·30	10	1·44	7	1·91	11	1·65	9	1·16	10
14	3·51	14	7·54	12	9·00	22	6·35	15	3·29	11	1·18	3	4·84	16	2·66	9	1·27	5	2·76	9	2·27	10	1·52	9
15	5·23	14	7·48	12	15·80	23	7·64	15	3·87	12	0·96	3	5·72	15	3·16	8	0·94	4	3·33	10	2·48	9	1·22	5
16	6·62	12	7·81	15	6·58	22	5·61	10	1·72	7	2·08	3	2·53	15	1·16	5	0·91	3	1·99	12	1·01	7	0·52	3
17	2·55	7	5·20	8	2·72	6	1·71	6	0·34	3	1·70	4	0·85	5	0·40	1	0·03	1	0·19	3	0·09	2	1·36	2
18	6·70	11	7·41	18	10·50	23	5·93	20	3·87	15	1·73	8	4·51	19	1·57	13	1·88	6	1·88	13	1·39	9	0·92	9
19	1·55	11	6·22	15	5·33	23	3·86	16	3·79	15	0·55	8	4·15	21	1·64	11	0·81	7	1·62	9	0·83	7	0·45	4
20	3·98	17	8·31	15	11·28	26	6·14	16	6·58	19	0·72	5	4·85	17	1·28	5	1·00	6	1·73	11	1·64	9	1·16	7
21	4·89	17	10·61	18	9·32	23	6·88	17	5·70	19	1·28	11	5·28	19	1·89	12	1·33	7	1·67	10	2·01	8	0·81	7
22	3·76	12	12·74	16	16·71	23	12·93	21	13·04	13	2·35	4	10·91	19	2·33	8	0·00	0	0·00	0	1·95	4	3·07	6
23	1·17	..	6·48	..	5·49	..	3·32	..	5·69	..	0·87	..	3·54	..	1·30	..	1·01	..	0·77	..	0·66	..	0·81	..
24	7·07	11	13·28	16	17·61	27	14·93	24	14·69	17	6·57	13	11·44	19	5·61	14	3·67	12	3·19	11	2·58	12	3·14	8
25	1·87	8	10·30	18	7·87	20	4·86	15	8·77	18	3·00	7	5·89	13	2·71	8	0·92	4	1·95	7	1·15	6	1·96	8
26	2·85	15	11·11	18	12·88	27	10·15	25	10·12	22	3·97	14	6·89	23	4·38	20	2·83	14	2·44	15	1·49	12	2·85	12
27	4·37	16	12·02	19	6·46	18	7·06	16	2·43	19	0·50	9	3·11	24	1·53	12	0·90	13	1·83	19	1·05	10	4·30	12
28	6·24	13	12·12	13	8·77	25	9·44	17	3·38	15	1·01	10	3·22	19	1·84	11	0·99	8	1·61	13	0·99	7	1·87	7
29	5·46	9	11·70	12	7·51	15	7·19	9	2·42	12	0·80	4	2·56	14	1·07	5	0·86	6	1·36	10	0·81	5	3·45	6
30	8·93	16	14·13	20	15·05	28	15·29	24	10·17	22	3·14	13	8·52	22	4·92	15	1·66	12	2·87	16	2·01	13	2·41	14
31	4·08	12	11·17	17	5·85	19	5·21	16	2·36	18	0·43	8	2·32	22	0·94	9	0·50	9	1·32	12	0·82	8	5·98	10
32	5·07	10	9·84	10	8·80	18	8·29	14	3·72	12	1·31	6	3·51	14	2·00	7	0·84	5	1·82	11	0·87	5	2·53	5

MONTHLY RAINFALL at various STATIONS in MAURITIUS for the YEAR 1900.

Reference Number of Station.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.
	ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.		ins.	
33	3·74	8	9·84	16	5·10	19	5·79	11	1·95	11	0·44	5	1·56	18	0·44	8	0·34	9	1·00	13	0·55	9	5·74	9
34	3·18	8	9·70	15	5·36	18	5·52	10	2·15	13	0·38	4	1·75	16	0·33	3	0·29	6	0·83	11	0·59	7	5·59	8
35	5·43	9	8·23	12	8·06	18	8·25	14	2·93	10	0·99	4	1·70	12	0·41	2	0·22	3	1·26	4	0·71	3	3·50	4
36	5·22	11	7·76	15	6·87	21	7·05	12	2·77	12	1·15	5	2·77	16	1·18	6	0·49	3	1·55	8	0·80	6	4·28	8
37	6·42	7	10·00	10	9·17	16	8·57	9	3·48	4	4·00	5	2·89	13	0·54	3	0·20	1	1·86	4	0·70	2	3·58	6
38	4·29	20	11·93	16	6·67	23	8·25	21	6·93	19	2·03	17	5·67	23	2·01	12	1·33	8	3·45	12	1·28	14	4·48	13
39	4·92	15	12·97	20	7·31	24	*8·41	15	*5·20	11	*3·01	11	*4·28	18	*1·28	7	*0·77	5	*3·40	18	*1·05	18	*4·40	14
40	8·59	16	14·27	18	9·24	23	11·73	23	12·84	20	2·35	16	8·39	26	3·66	15	2·14	15	4·34	16	2·25	22	7·91	16
41	7·68	..	14·28	..	9·44	.	14·88	..	12·71	..	2·61	..	8·67	..	3·57	..	2·17	..	4·41	..	1·77	..	6·67	..
42	12·38	16	12·49	22	18·59	27	16·29	27	19·46	24	5·59	18	8·99	25	4·62	14	2·82	12	3·76	14	2·18	11	6·66	14
43	5·36	7	5·10	9	3·02	9	4·52	11	0·62	3	0·19	1	0·45	5	0·00	0	0·29	2	0·24	4	0·37	5	6·07	5
44	8·42	8	2·57	5	2·03	5	2·95	6	0·87	4	0·30	1	0·10	1	0·38	1	0·00	0	0·00	0	0·85	1	3·83	5
45	4·80	7	3·38	8	2·51	4	3·35	8	1·38	4	0·26	1	0·00	0	0·00	0	0·00	0	0·18	1	0·75	1	3·72	5
46	6·05	11	11·65	19	13·92	24	6·25	22	10·72	16	1·81	13	6·90	16	2·45	11	0·55	4	1·91	9	1·54	6	1·87	11
47	9·47	15	16·11	21	19·47	26	11·14	24	15·54	17	4·40	16	10·00	22	4·77	18	2·32	16	3·07	16	1·94	18	4·46	14
48	11·47	16	14·58	18	20·23	27	15·32	22	15·49	16	5·33	12	11·71	18	4·53	10	2·31	9	3·89	10	1·53	10	3·27	9
49	8·15	15	8·13	21	14·47	29	7·06	21	9·79	20	3·53	18	8·27	21	2·52	19	1·92	13	2·60	12	1·79	11	2·80	12
50	11·18	17	11·21	23	22·82	28	10·74	25	17·27	20	4·64	12	9·97	21	4·91	19	2·27	9	3·55	13	2·35	10	3·14	11
51	8·37	18	11·50	20	15·76	29	9·44	28	11·74	22	4·32	20	8·78	24	2·87	20	1·69	12	2·18	16	1·95	10	2·74	13
52	4·84	10	4·83	19	9·68	27	3·54	18	6·04	20	1·33	12	4·19	17	1·08	14	0·58	7	1·35	8	0·59	9	1·38	6
53	6·90	14	9·10	12	17·68	28	6·99	22	10·68	13	3·69	7	5·71	14	2·61	9	1·22	3	3·43	9	2·00	2	4·61	9
54	8·33	16	7·25	17	14·93	25	8·78	20	11·00	19	3·82	13	4·74	21	2·67	16	1·50	10	2·58	14	1·66	11	4·04	15
55	5·90	13	12·76	17	16·49	26	9·20	24	12·10	18	4·76	16	5·85	24	3·60	16	1·99	9	2·81	14	1·92	11	6·22	9
56	6·24	14	11·75	18	15·20	24	8·49	22	11·04	15	4·85	8	5·07	15	1·95	7	1·36	6	1·97	5	2·32	12	4·41	8
57	6·26	13	10·32	20	14·58	24	5·58	21	7·46	19	2·53	15	3·85	19	1·67	12	1·04	9	1·68	14	1·67	10	3·15	12
58	5·14	12	9·63	17	11·39	22	3·41	18	4·18	17	1·46	12	2·60	15	0·91	11	0·55	5	1·21	10	0·75	8	2·64	9
59	5·22	9	6·76	8	11·73	13	9·08	16	5·08	9	1·75	4	3·44	9	1·49	8	1·26	3	0·42	2	0·00	0	2·69	5
60	7·61	10	7·29	9	10·68	13	5·98	16	5·44	9	1·44	5	2·63	10	1·63	9	1·33	5	0·50	3	0·10	1	2·57	5
61	5·21	16	10·64	23	13·50	26	6·71	24	7·09	20	1·86	15	4·21	25	2·13	18	1·57	13	1·92	15	1·35	15	3·37	13
62	6·40	12	7·09	13	11·66	20	6·23	18	6·44	12	1·56	5	2·70	16	1·26	8	0·78	5	0·61	7	0·35	4	2·79	8
63	8·80	13	11·17	14	11·79	24	9·02	21	6·09	17	1·43	8	3·70	19	1·93	8	1·35	4	1·27	9	0·57	7	2·95	6
64	5·07	12	8·29	17	10·31	22	5·14	15	4·85	11	0·97	6	2·89	15	1·54	7	0·52	4	0·70	6	0·66	7	2·19	7

ANNUAL RAINFALL at various STATIONS in MAURITIUS for the YEAR 1900 compared with the AVERAGE.

Reference Number of Station.	Rainfall.		Average.		Number of Years of Observation of		Greatest daily Rainfall in the Year 1900.	
	Amount.	Number of Rainy Days.	Amount	Number of Rainy Days.	Rainfall.	Number of Days.	Amount.	Day.
1	36·47	90	49·04	...	32	..	3·03	March 5th.
2	35·56	145	50·19	135	8	8	2·10	March 5th.
3	35·34	124	62·83	134	38	39	2·75	March 6th.
4	54·12	..	79·55	..	20	..	..	..
5	44·13	163	66·88	175	10	8	1·37	February 2nd.
6	47·57	149	72·82	163	18	18	1·90	February 2nd.
7	28·72	81	43·26	126	35	31	3·62	March 7th.
8	25·14	98	34·77	104	15	15	3·26	March 7th.
9	48·04	124	60·83	125	19	19	2·36	March 7th.
10	31·25	89	49·19	112	15	15	2·42	March 7th.
11	36·96	185	62·91	168	33	33	2·00	March 7th.
12	31·28	173	47·70	200	26	26	2·63	March 7th.
13	41·28	155	62·01	160	9	7	1·70	April 4th.
14	46·19	135	71·78	157	20	19	1·53	Feb. 1st. and Mar. 6th.
15	57·83	130	77·30	133	8	8	2·61	March 7th.
16	38·54	114	50·73	147	5	5	2·66	January 30th.
17	17·14	48	34·42	83	6	6	1·50	February 1st.
18	48·29	164	67·10	180	7	6	3·61	January 27th.
19	30·80	147	59·35	155	15	5	1·69	February 8th.
20	48·67	153	77·65	173	12	11	2·00	January 28th.
21	51·67	168	71·28	183	24	16	2·39	January 28th.
22	79·79	126	101·29	177	5	4	3·70	April 1st.
23	31·11	..	51·76	..	11	..	..	..
24	103·78	184	127·71	206	17	13	4·96	March 9th.
25	51·25	132	61·80	171	4	4	1·76	February 2nd.
26	71·96	217	101·33	194	19	16	4·21	March 10th.
27	45·56	187	65·61	270	14	14	3·12	February 2nd.
28	51·48	158	80·57	199	27	27	2·50	February 2nd.
29	45·19	107	65·18	185	17	17	3·00	January 30th.
30	89·10	215	128·49	254	28	25	3·47	March 9th.
31	40 98	160	56·31	187	14	13	4·25	December 30th.
32	48·60	117	69·85	139	17	17	2·87	January 30th.
33	36·49	136	41·98	184	4	4	3·91	December 20th.
34	35·67	119	40·41	123	4	4	3·72	December 19th.
35	41·69	95	63·00	193	34	32	2·82	January 30th.
36	41·89	123	52·50	141	3	3	2·80	January 31st.
37	51·41	80	75·10	204	22	20	2·85	February 1st.
38	58·32	198	86·36	231	23	20	2 38	February 2nd.
39	57·00	176	86·86	248	10	10	2·55	February 2nd.
40	87·71	226	126·71	278	17	17	3·75	December 20th.
41	88·86	..	128·44	..	15	..	..	..
42	113·83	224	141·58	241	12	12	4·43	March 25th.
43	26 23	61	31·62	80	7	7	3·85	December 19th.
44	22·30	37	35·08	51	18	13	2·80	January 30th.
45	20·33	39	37·27	66	19	13	2·00	December 16th.
46	65·62	162	90·82	183	23	23	5·68	March 10th.
47	102·69	223	133·67	236	20	3	3·89	January 27th.
48	109·66	177	144·38	239	37	37	5·93	January 28th.
49	71·03	212	88·68	238	23	19	2·76	March 10th.
50	104·05	208	118·08	225	7	7	..	..
51	81·34	232	105·36	217	19	16	3 55	January 7th.
52	39·43	167	64·21	205	36	35	4·02	March 10th.
53	74·62	142	96·20	202	37	37	4·10	May 13th.
54	71·30	197	92·68	188	29	29	2·52	March 8th.
55	83·60	197	91·89	192	4	4	2·79	February 12th.
56	74·65	154	91·97	187	15	3	3 02	March 7th.
57	59·79	188	66·98	178	15	14	3·32	March 9th.
58	43·87	156	68·56	158	9	8	3·15	February 2nd.
59	48·92	86	77·79	108	5	5	2·02	March 8th.
60	47·20	95	59·88	121	21	7	2·65	March 14th.
61	59·56	223	81·80	214	33	33	2·46	March 9th.
62	47·87	128	65·10	148	15	7	3·52	March 6th.
63	60·07	150	76·25	156	32	32	3·02	February 19th.
64	43·13	129	60·40	135	12	11	1·82	February 12th.

The Mean Rainfall at 64 Stations during the year 1900 was 54·12 inches against an average of 74·74 inches.

APPENDIX.

RESULTS

OF

SEISMOLOGICAL OBSERVATIONS.

1900.

APPENDIX.

RESULTS

OF

SEISMOLOGICAL OBSERVATIONS,

1900.

Continuous registration of unfelt earth movements has been obtained with a Milne seismograph of the pattern recommended by the Seismological Committee of the British Association for the Advancement of Science, and described in the Annual Report of the Committee for 1896.

Particulars of 82 earthquakes registered at Mauritius during the year 1900 are given in Table I.

In order to utilise the seismograms for measurement of gradual changes of level, on 1898, September 15th, a silk thread was stretched across the brass slit at $48^{div}\cdot7$, in order to furnish a base line. It was found, however, that on account of the large diurnal movement of the boom the thread was frequently eclipsed and no base line obtained; on September 23rd, therefore, a second thread was inserted at $11^{div}\cdot0$, so that one or other of the threads is always photographed, and a base line available for determining the position of the boom, the scale reading of which is measured at every hour of Greenwich Civil Time.

The factor for converting scale readings into seconds of arc is determined, usually once a week, by turning the arm of the level screw through a known arc and noting the displacement of the boom. In spite of the precautions taken to ensure accuracy in the scale value determinations, it was found that the separate observations of a series were very discordant, frequently varying 100 per cent. from the mean. Lost time in the thread of the level screw was suspected, and the following observations were made on 1900, December 1st, special care being taken to complete each series without changing the motion of the screw from direct to retrograde or *vice versâ*.

DETERMINATION of SEISMOGRAPH SCALE VALUE, DECEMBER 1ST, 1900.

Reading of Level Arm.	Scale Reading of Boom.	Effect of 1 div. Change of Level.	Reading of Level Arm.	Scale Reading of Boom.	Effect of 1 div. Change of Level.	Reading of Level Arm.	Scale Reading of Boom.	Effect of 1 div. Change of Level.
Div.	mm.	mm.	Div.	mm.	mm.	Div.	mm.	mm.
17·2	28·0		20·0	−1·0		14·0	63·2	
18·0	22·5	6·9	19·0	6·7	7·7	15·0	57·0	6·2
19·0	9·0	13·5	18·0	15·5	8·8	16·0	45·0	12·0
20·0	−1·0	10·0	17·0	25·6	10·1	17·0	31·5	13·5
			16·0	35·5	9·9	18·0	23·0	8·5
			15·0	49·3	13·8	19·0	10·0	13·0
			14·0	63·2	13·9	20·0	−0·5	10·5
						19·0	5·0	5·5

It will be seen that a relatively small effect is produced by the first deflection in each series, which points to the existence of lost time, the extent of which may be computed as follows:—

From the initial deflection in each series, the mean displacement of the boom produced by a movement of 1^{div} of the level arm is $6^{mm}\cdot6$, while from the remaining observations it is $11^{mm}\cdot5$, indicating lost time corresponding to a boom displacement of $4^{mm}\cdot9$, or ·00115 of a revolution of the screw.

Seeing, however, that the whole weight of the instrument is supported by the level screws, and that no looseness can be detected in the attachment of the arm to the finely threaded screw with which the observations are made, it is more probable that the defect is due to the method of mounting. In place of nuts embedded in the pillar the level screws work on brass runners, and this is certainly the cause of many observed irregularities too large to be attributable to errors in the screw.

The distance between each thread of the screw is $0^{mm}\cdot508$; a rotation of 1°, or $\frac{1}{360}$ of a revolution, therefore raises or lowers the corner of the bed plate $0^{mm}\cdot00141$, and this, in the example given, produces a displacement of the end of the boom varying from $5^{mm}\cdot5$ to $13^{mm}\cdot9$. The range is $8^{mm}\cdot4$, or 73 % of the mean value, indicating an irregularity in the screw to the extent of $0^{mm}\cdot00103$ between the readings 14° and 20° on the level arm.

The figures show what exceedingly small changes of level are recorded by this type of instrument, and suggest the desirability of a micrometer screw of exceptional quality and finish with which to accurately determine the scale value, or a suitable apparatus for observing the time of vibration of the boom; with the unaided eye this cannot be accurately observed when the arc of vibration is sufficiently small.

During the year fifty-two determinations of scale value were made, the results of which are given below:—

DETERMINATIONS of SEISMOGRAPH SCALE VALUES, 1900.

Day.	Value of 1mm on Seismogram.	Day.	Value of 1mm on Seismogram.	Day.	Value of 1mm on Seismogram.
	"		"		"
January 6	0·281	May 12	0·398	September 8	0·337
13	0·281	19	0·358	15	0·409
20	0·281	26	0·382	22	0·358
27	0·265	June 2	0·318	29	0·347
February 3	0·241	9	0·280	October 6	0·715
10	0·230	16	0·261	13	0·499
17	0·240	23	0·328	16	0·176
24	0·248	30	0·358	20	0·153
March 3	0·269	July 7	0·395	27	0·109
10	0·298	12	0·261	November 3	0·155
16	0·251	21	0·441	10	0·155
24	0·290	28	0·239	18	0·220
31	0·329	August 4	0·310	20	0·130
April 7	0·222	11	0·328	24	0·130
14	0·233	18	0·337	December 1	0·170
21	0·253	25	0·294	15	0·190
28	0·258	September 1	0·318	29	0·200
May 7	0·300				

The above values are derived from the second deflection of the level arm in a given direction. It will be seen that although lost time is thus eliminated the scale

value varies considerably from time to time, and it is imperative that frequent determinations should be made.

Daily values have been obtained by smoothing, and means formed for periods during which the scale value is sensibly constant, for converting the hourly measures into seconds of arc.

In forming the diurnal variation of level for each month, Table III., all available days have been used, and the non-periodic variations eliminated by the method described in the Introduction under the heading *Magnetic Reductions.*

The periodic variations, which are given in Table III. for every hour of Greenwich Civil Time, have been subjected to harmonic analysis, and the results given in Tables IV. and V. The constant angles have been referred to Mauritius apparent midnight by the application of the necessary corrections for Longitude and Equation of Time.

The progressive change of level given in Table II. is the excess of the ordinate at Mauritius mean midnight on a given day over the corresponding ordinate on the following day (+) indicating a tilt to westward and (−) a tilt to eastward. The wanderings of the boom are respresented graphically on Plate III.

In Table VI. are given particulars of the changes of level produced by heavy falls of rain during the year 1900.

TABLE I.—LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, during the YEAR 1900.

Shide Register Number.	Mauritius Register Number.	Date.	Commencement of Disturbance (G.C.T.).	Commencement of Large Waves (G.C.T.).	Time of Maximum (G.C.T.).	½ Amplitude.	End of Disturbance (G.C.T.).	Remarks.
		1900.	h m	h m	h m	″	h m	
376	*61	January 5	..	19.13·7	19.28·9	0·96	..	
377	*62	„ 11	9.20·5	9.32·6	10. 5·5	0·73	..	
378	63	„ 13	..	..	10.44·3	0·12	..	Several thickenings during the day.
379	*64	„ 15	20.23·0	..	..	..	20.41·0	
380	65	„ 17	..	..	6.48·0	..	..	
381	66	„ 20	6.57·7	8. 5·8	8.20·7 8.26·0	0·45 0·45	8.49·3	Small tremors for some hours afterwards.
382	67	„ 24	7.33·1	..	8. 8·6	0·13	9. 9·6	
	68	„ 30	22.47·6	..	22.53·7	0·11	23.32·1	
384	*69	„ 31	14.30 ±	..	..	..	16.11 ±	Several small tremors.
385	70	„ 31	19.40·0	..	..	..	20.30·0	Numerous slight thickenings.
	71	Feb. 3	4.26·9	4.34·1	4.37·3	0·42	4.44·5	Small tremors till $5^h.\ 45^m$.
	72	„ 5	10.28·5	10.52·6	10.58·7	0·20	11.13·1	
	73	„ 7	22. 7·2	..	22. 8·6	0·06	22.10·4	Thickening of trace.
388	74	„ 13	6.56·0	..	..	..	7.34·0	Several thickenings.
	75	„ 20	21.44·4	21.47·3	21.49·0	0·40	22.27·3	
390	76	„ 22	12.46·0	..	..	..	12.52·0	Slight thickenings.
392	77	March 6	18.27·0	..	..	..	18.37·0	Several thickenings.
393	78	„ 7	7.30·0	..	..	..	8.30·0	Very slight thickenings.
394	79	„ 9	..	..	3.15·0	..	..	Numerous irregular movements from $1^h.30^m$ to $4^h.30^m$. Boom touching eclipse hand of watch.
396	80	„ 9	13. 1·0	..	..	..	13.27·0	Several thickenings.
	81	„ 12–13	23.58·2	..	0.56·1	0·24	2.48·9	A long series of regular oscillations. No shocks are shown. *See* Plate II.
	82	„ 17	21. 6·5	..	21.19·1	0·10	21.35·8	Similar to above, but not so marked.
	*83	„ 21	0.39·4	..	0.53·4 2.58·4	0·04 0·14	3. 9·6	
399	84	April 1	7.42·1	7.50·2	7.53·7	0·12	..	
	85	„ 13	6.42·2	..	6.49·9	..	6.54·0	
402	86	„ 17	..	..	1.13·0	..	..	Several thickenings about this time.
404	87	„ 24	23.24·9	23.33·5	23.34·0	0·40	24.30·0	
	88	„ 30	20. 3·6	..	20.25·0	0·11	20.35·2	
405	89	May 11	..	..	17.49·0	..	..	Thickening of trace.
407	90	„ 16	20.30·0	..	..	..	21. 0 ±	Several slight thickenings.
	91	„ 20	6.46·0	6.48·3	6.50·3	0·09	..	
	92	„ 21	14.31·9	..	14.36·0	1·71	..	
408	93	„ 26	16.22·8	..	16.34·1	0·14	17.39·1	
	94	„ 27	0. 5·3	..	0.36·1	0·06	1. 8·6	
410	95	June 2	13^h	..	..	..	15^h	Numerous irregular tremors.
411	96	„ 9	13. 1·7	..	13. 5·6	0·08	..	
412	97	„ 9	..	.	16. 0·6 16.25·2	..	..	Isolated thickenings.
413	98	„ 10	11.10·8	..	11.36·1	0·06	11.53·6	
414	99	„ 12	21.11·6	..	21.35·3	0·10	21.45·3	
415	100	„ 16	..	..	16.22·5	..	.	Isolated thickening.
416	101	„ 19	23.52·0	..	..	..	24. 4·0	Several thickenings.
417	102	„ 21	21.10·6	22.12·1 22.47·9	22.15·0 22.50·0	0·91 0·76	..	

* The beginning and ending of these earthquakes were masked by air tremors.

TABLE I.—LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, during the YEAR 1900—*continued.*

Shide Register Number.	Mauritius Register Number.	Date.	Commencement of Disturbance (G.C.T.).	Commencement of Large Waves (G.C.T.).	Time of Maximum (G.C.T.).	Amplitude.	End of Disturbance (G.C.T.).	Remarks.
		1900.	h m	h m	h m	″	h m	
419	103	June 28	..	..	..	..	..	
420	104	„ 28	..	..	..	..	..	Air tremors very active. Several movements are regular and look seismic.
	105	July 7	..	..	11.11·0	..	..	Very slight thickening of trace.
422	106	„ 15	20. 2·6	..	20. 9·7	..	20.16·7	Slight thickening.
	107	„ 21	7. 7·5	7.37·5	7.43·0	0·20	..	Occasional thickenings until 11^h.
424	108	„ 29	7.15·2	7.27·8	7.58·4	2·86	10.45·2	*See* Plate II.
	109	Aug. 1	8.26·5	..	8.31·8	0·09	8.38·0	
	110	„ 1	8.48·0	9. 0·0	9. 3·7	0·13	9.28·5	
425	*111	„ 5	4.55·0	..	..	..	5.40·0	Several thickenings, apparently seismic.
427	112	„ 13	20.35·0	..	21. 0·5	..	21.39·0	Several thickenings.
428	113	„ 20	18.35·1	..	19.23·3	..	19.28·6	
	114	„ 23	3. 3·5	..	3. 5·5	..	3. 7·5	Slight thickening.
	115	„ 28	0.31·0	..	1. 1·3	..	1.29·1	
430	116	„ 28	10.10·0	..	..	..	12.10·0	Frequent tremors ; apparently seismic.
431	117	„ 29	2.55·9	..	3.27·9	..	4. 6·5	
432	118	Sept. 1	8.13·0	..	..	..	8.53·0	Frequent tremors throughout; also very slight tremors occasionally during the day.
	119	„ 4	9.37·1	..	9.39·5 9.49·2	..	9.53·2	Thickening of trace.
	120	„ 6	0.43·2	..	0.46·3	0·13	0.47·7	Frequent tremors during the night.
	121	„ 6	2.27·4	..	2.30·0	0·11	2.33·1	
433	122	„ 8	3.52·3	..	4. 1·8	..	4.20·0	Thickening of trace.
	123	„ 9	23. 4·5	..	23.10·4	0·13	23.43·0	
	124	„ 13–14	22.40·0	..	0.41·5	0·24	3.5 ·0	Frequent tremors, with occasional movements which appear to be seismic.
435	125	„ 17	22. 9·7	22.19·3	22.51·0 22.53·0	0·41	24.40±	Register faint. Time of Max. doubtful.
436	126	„ 19	10. 6·5	10.26·2	10.32·2	0·20	11.26±	Register at end very faint.
437	127	„ 20	..	..	9.19·7	..	..	Very slight thickening.
438	128	„ 20	19.20·7	..	19.52·2	..	20. 0·3	
	129	Oct. 19	0.48·7	..	0.51·5 0.55·7	0·05 0·05	1. 3·6	
	130	„ 20	18.48·1	19. 8·5	19.10·0	0·10	19.34·1	
	131	„ 26	..	8.10·3	8.12·7	0·28	..	A seismic movement among frequent tremors.
445	132	„ 29	9.33·8	10.12·6	10.21·2	2·40	14.44·0	*See* Plate II.
446	133	Nov. 5	8. 9·0	..	..	..	9. 3·0	Several very slight thickenings.
447	134	„ 9	16.47·3	17.43·2	17.48·4	0·15	19. 3·1	
	135	„ 12	..	1.31·0	2. 0·3	0·42	..	Preceded and followed by occasional tremors.
	136	„ 16	21.34±	..	21.43·2	0·10	22. 4±	
450	137	„ 24	..	8.52·7	8.57·4 9. 1·5	0·15 0·14	..	Tremors all day.
	138	„ 30	..	13.23·3	13.25·9	0·15	..	Tremors all day. Instrument very sensitive.
	139	Dec. 9	..	10.41·2	10.43·3	0·07	..	Ditto.
	140	„ 13	..	17.41·1	17.44·1	0·09	..	Ditto.
452	141	„ 18	22.41·5	22.59·4	23. 0·8	0·09	23.52·6	
454	142	„ 25	..	..	6. 6·7	0·33	7.16±	Sheet changed at 5^h 40^m. Tremors all day.

TABLE II.—DAILY RANGE and PROGRESSIVE CHANGE of LEVEL, together with the DAILY RANGE of TEMPERATURE in the THERMOGRAPH SCREEN and the DURATION of BRIGHT SUNSHINE during the YEAR 1900.

Day. 1900.	January.				February.				March.			
	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.
	″	°	h	″	″	°	h	″	″	°	h	″
1	0·67	17·1	9·7	+0·20	0·67	13·0	3·4	−0·37	0·19	15·9	7·5	+0·11
2	1·15	21·0	6·8	−0·20	3·40	8·1	1·4	−3·40	0·73	17·0	9·0	+0·59
3	0·95	22·9	10·4	−0·53	2·38	13·0	3·5	−2·38	1·11	20·2	11·4	−0·43
4	1·04	20·0	11·1	+0·20	1·78	14·3	7·2	−1·54	0·59	16·9	3·6	+0·54
5	0·90	17·3	7·2	+0·25	4·22	10·2	0·2	−4·15	0·45	18·9	7·8	+0·45
6	0·78	16·0	6·3	−0·06	1·99	11·0	11·4	−1·51	3·95	11·8	1·9	−3·95
7	0·73	17·3	9·1	+0·17	0·53	6·7	0·0	−0·26	0·25	9·4	2·6	−2·66
8	0·50	18·0	5·6	−0·36	..	..	..	..	2·30	10·0	2·5	−1·96
9	0·84	15·7	9·3	+0·22	..	..	..	..	2·35	10·2	1·7	−1·71
10	1·48	13·4	5·6	+1·43	0·96	17·8	7·9	−0·77	2·04	10·8	0·4	−1·46
11	1·18	11·7	7·7	+1·06	1·10	12·7	7·2	+0·41	2·81	13·7	10·2	−2·09
12	0·59	12·9	11·1	+0·48	0·58	9·3	3·8	+0·12	1·48	16·3	8·8	−1·10
13	0·53	14·9	11·5	+0·03	0·70	7·8	0·0	+0·48	2·20	13·4	7·5	−1·57
14	1·06	17·7	12·0	−0·20	1·01	12·5	6·8	+1·01	2·32	9·9	10·2	−1·83
15	1·06	17·7	11·7	−0·39	0·41	16·5	8·6	+0·19	1·85	9·3	3·1	+1·85
16	1·79	16·5	11·6	−1·26	0·26	12·0	4·1	+0·26	1·67	11·2	8·2	−0·05
17	1·09	17·4	11·5	−0·34	0·65	11·6	1·9	−0·43	1·92	12·0	9·7	−0·65
18	1·01	17·9	11·1	−0·28	1·27	14·2	9·1	−0·77	1·90	11·3	8·9	−0·52
19	0·98	18·9	11·8	−0·08	0·58	13·5	5·5	+0·29	2·48	10·0	9·2	−0·81
20	1·48	16·6	11·9	−0·64	1·80	7·9	3·8	−0·87	2·24	9·8	9·7	−0·38
21	1·30	13·7	9·4	−0·13	0·77	13·0	4·7	−0·03	1·46	9·5	10·3	+0·45
22	1·19	13·5	6·2	+0·89	1·75	13·0	11·3	−0·22	1·18	11·2	8·5	+0·39
23	1·70	16·6	11·2	−0·57	..	..	..	..	1·60	12·4	5·3	−0·06
24	1·19	21·7	10·2	+0·65	..	..	..	..	1·77	12·6	6·2	−0·64
25	1·81	20·1	6·7	−0·97	0·67	15·0	7·8	−0·15	1·25	14·0	6·0	−0·52
26	0·84	17·3	9·8	+0·22	..	..	..	..	1·08	9·3	1·4	−0·39
27	1·04	16·8	6·3	+0·18	..	..	..	..	0·99	12·9	9·7	+0·51
28	0·57	19·3	8·0	+0·23	0·05	13·0	5·4	0·00	0·46	12·6	6·8	−0·12
29	0·95	20·1	7·6	+0·32	..	..	..	..	0·71	12·5	10·2	+0·09
30	..	..	..	..					0·70	8·8	3·8	+0·29
31	..	..	..	..					1·31	16·2	10·4	+0·29

Day. 1900.	April.				May.				June.			
	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.
	″	°	h	″	″	°	h	″	″	°	h	″
1	..	..	..	..	0·51	10·4	3·4	+0·49	0·55	11·9	10·4	+0·55
2	0·84	8·5	5·7	−0·77	0·38	12·5	6·6	+0·13	0·29	8·7	3·0	+0·26
3	0·77	12·5	5·4	−0·15	0·81	16·2	8·5	−0·30	0·32	8·0	2·8	+0·32
4	1·91	11·5	4·0	−1·72	..	..	..	..	0·43	11·9	10·2	+0·03
5	1·52	15·7	7·5	−1·36	..	..	..	..	0·72	13·3	6·8	−0·29
6	0·70	15·3	6·8	+0·26	0·45	17·9	10·2	+0·11	0·43	12·0	9·7	+0·29
7	0·67	10·9	7·3	0·00	0·81	12·2	7·2	+0·73	0·38	13·0	7·6	+0·35
8	0·48	10·5	6·7	+0·14	1·20	13·7	7·6	+1·20	0·46	14·8	9·8	−0·03
9	0·41	14·9	8·2	−0·18	0·73	10·0	9·0	+0·36	0·61	14·0	3·6	−0·26
10	0·48	15·3	8·7	−0·41	0·50	9·0	7·0	+0·50	0·55	13·0	2·8	+0·46
11	0·80	12·0	5·1	−0·78	0·38	11·0	10·4	−0·17	0·52	16·7	10·1	+0·29
12	0·60	14·1	10·2	−0·46	0·29	14·5	10·3	−0·09	0·52	15·8	3·1	+0·20
13	0·60	15·2	10·0	+0·07	0·29	9·1	9·1	+0·06	1·04	15·0	4·9	−0·72
14	0·62	11·4	10·7	−0·31	0·26	4·9	0·3	0·00	0·87	11·6	7·9	−0·41
15	0·65	12·5	9·4	+0·14	0·20	6·0	1·6	+0·03	0·52	12·9	4·7	−0·41
16	0·46	8·2	0·0	+0·46	0·12	8·7	9·0	−0·03	1·07	12·2	5·5	−1·07
17	0·62	5·6	1·3	+0·62	1·04	8·5	9·9	+1·04	1·30	14·8	6·5	−1·22
18	0·31	8·0	6·3	+0·19	0·52	8·4	6·9	+0·15	0·75	14·7	9·2	−0·49
19	0·74	7·3	7·2	−0·46	0·75	10·7	10·0	−0·46	0·84	19·5	9·0	−0·23
20	0·62	13·0	9·9	−0·25	0·81	12·6	8·7	+0·26	0·70	19·8	9·5	−0·26
21	0·57	12·9	10·1	−0·22	0·90	15·1	9·4	−0·35	0·51	12·0	10·1	+0·15
22	0·15	7·8	9·7	+0·03	0·75	18·0	8·0	+0·03	0·99	17·2	8·9	−0·69
23	0·32	8·3	10·0	−0·03	0·49	13·7	8·4	+0·49	0·54	16·1	5·1	+0·09
24	0·32	8·5	9·9	−0·30	0·72	12·5	9·6	+0·72	0·48	17·0	9·0	+0·12
25	0·22	12·6	9·0	−0·03	0·35	13·1	7·5	+0·03	0·57	19·3	10·3	+0·57
26	0·21	9·7	9·8	+0·18	0·35	14·3	5·8	+0·23	1·41	16·9	10·0	+1·32
27	0·13	9·3	8·5	+0·08	0·41	17·1	9·7	0·00	1·14	18·0	10·3	+1·14
28	0·49	10·1	4·5	−0·49	0·49	15·0	7·4	+0·26	0·45	21·1	10·3	+0·06
29	0·67	14·3	9·1	−0·59	1·33	12·6	9·9	+1·33	0·60	23·7	9·4	+0·45
30	0·54	12·2	1·0	+0·38	0·67	12·4	5·8	+0·09	0·33	24·4	10·3	+0·24
31					0·46	15·2	6·8	+0·32				

TABLE II.—DAILY RANGE and PROGRESSIVE CHANGE of LEVEL, together with the DAILY RANGE of TEMPERATURE in the THERMOGRAPH SCREEN and the DURATION of BRIGHT SUNSHINE during the YEAR 1900—*continued.*

Day, 1900.	July.				August.				September.				October.				November.				December.			
	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.	Daily Range of Level.	Daily Range of Temperature.	Total Duration of Sunshine.	Progressive Change of Level.
	″	°	h	″	″	°	h	″	″	°	h	″	″	°	h	″	″	°	h	″	″	°	h	″
1	1·44	10·8	8·0	+1·44	0·38	14·8	5·9	0·00	0·38	10·5	9·6	−0·10	0·70	17·5	8·0	+0·31	0·45	23·2	10·0	+0·24	0·37	17·3	10·2	+0·24
2	1·24	12·9	7·1	+1·24	0·73	12·3	2·3	+0·49	0·67	12·7	9·4	−0·26	0·70	10·6	9·0	+0·35	0·31	26·5	11·6	+0·15	..	..	..	..
3	1·02	14·6	8·5	+1·02	0·67	14·5	10·3	−0·16	0·77	13·8	6·7	−0·58	0·10	12·3	5·3	+0·03	0·78	22·5	8·8	+0·61	..	..	..	..
4	0·68	12·8	9·8	+0·68	0·81	19·6	4·9	+0·14	1·25	17·7	11·1	+0·35	..	..	..	..	0·97	13·9	11·3	+0·97	0·53	14·1	7·8	+0·53
5	0·34	13·5	10·2	+0·34	0·87	19·1	7·2	+0·06	1·12	18·1	9·1	+0·26	..	..	..	..	0·34	19·1	8·1	+0·30	0·68	12·7	10·5	+0·68
6	0·62	18·3	9·7	+0·50	0·75	17·8	1·1	−0·06	0·93	19·9	5·9	−0·06	0·42	16·1	9·8	+0·14	0·52	21·7	11·8	+0·36	0·48	12·2	6·6	+0·48
7	0·81	9·8	5·3	+0·81	0·49	12·8	9·1	+0·29	0·79	16·7	2·0	−0·36	0·80	13·4	6·9	−0·70	0·44	18·8	9·2	+0·42	0·59	17·0	11·6	+0·41
8	0·19	10·9	9·8	+0·19	0·58	14·2	9·8	+0·49	0·40	15·0	2·2	+0·13	0·28	17·9	11·1	+0·10	0·64	18·8	8·9	+0·55	0·58	16·9	9·9	+0·34
9	0·56	15·6	10·0	−0·46	0·75	14·8	3·8	−0·48	0·69	15·2	7·0	+0·63	0·10	16·5	3·9	−0·03	0·47	17·3	9·8	+0·43	0·50	15·6	7·5	−0·02
10	0·50	19·2	8·5	−0·30	0·54	20·8	9·7	+0·03	0·63	17·7	10·7	+0·53	0·14	15·8	3·4	+0·07	0·39	17·9	10·2	+0·39	0·40	17·7	12·3	+0·16
11	0·62	18·1	7·7	−0·45	0·33	15·7	4·1	−0·03	0·49	18·8	8·5	−0·23	0·28	22·3	8·1	−0·14	0·48	19·2	8·7	+0·45	0·49	18·3	11·9	+0·09
12	0·70	20·2	9·4	−0·07	0·45	13·5	5·2	−0·12	0·69	12·0	7·4	+0·66	0·60	21·7	10·6	−0·10	0·46	13·9	9·9	+0·46	0·56	16·3	12·1	+0·18
13	0·47	16·2	7·4	−0·10	0·33	14·0	8·5	−0·12	0·79	15·7	9·3	−0·13	0·46	18·4	10·4	+0·45	0·49	16·9	8·3	+0·48	0·55	14·8	11·0	+0·19
14	0·35	11·7	3·8	−0·20	1·17	14·7	2·9	+0·84	0·41	22·0	11·1	+0·10	0·63	16·8	10·3	+0·63	0·52	19·7	6·6	+0·49	0·57	14·0	9·7	+0·34
15	0·35	12·4	5·4	+0·20	1·27	21·1	9·6	+1·02	0·61	18·8	9·9	+0·27	0·54	20·9	11·4	+0·46	0·85	15·1	11·0	+0·84	0·46	20·4	5·3	−0·15
16	0·40	14·5	5·3	+0·22	0·87	22·5	3·8	−0·34	0·75	17·2	10·8	−0·61	0·57	15·2	10·8	+0·57	0·56	17·7	10·7	+0·42	0·40	12·2	1·0	+0·08
17	0·47	12·3	4·8	+0·32	0·43	13·1	7·7	+0·43	0·41	8·8	2·3	−0·17	0·76	13·0	9·8	+0·76	0·26	13·1	5·5	+0·20	0·34	12·3	5·3	+0·34
18	0·55	17·4	5·0	+0·55	0·40	12·3	4·0	+0·15	0·44	9·8	3·9	−0·10	1·00	14·1	10·9	+1·00	0·66	16·7	10·5	+0·62	0·59	14·5	7·9	+0·47
19	0·57	14·3	9·9	+0·57	0·53	12·2	8·9	+0·09	0·51	18·0	8·6	+0·03	0·48	13·0	6·3	+0·48	0·57	14·3	10·8	+0·57	0·40	18·1	9·5	+0·04
20	0·35	14·9	6·0	+0·32	0·68	16·9	10·3	+0·12	0·65	13·4	7·1	+0·27	0·22	17·5	9·8	+0·21	..	..	..	..	0·55	16·7	10·0	+0·15
21	0·32	11·5	9·0	+0·30	0·50	16·6	10·7	+0·31	0·88	17·9	7·4	−0·17	0·41	22·1	8·7	−0·12	..	..	..	..	0·63	19·3	11·7	+0·59
22	0·42	11·1	6·8	+0·32	0·68	14·4	5·9	+0·06	0·71	15·0	6·9	0·00	0·27	22·5	6·4	+0·13	0·40	18·5	11·0	+0·40	0·88	19·5	9·4	−0·10
23	0·42	9·5	5·9	+0·32	0·34	11·5	6·0	+0·31	0·68	19·0	6·5	+0·14	0·64	22·4	8·9	+0·33	0·31	13·9	12·0	+0·31	0·78	23·9	11·9	+0·32
24	0·35	14·8	7·5	+0·35	0·50	13·5	8·7	+0·28	0·65	20·8	11·2	+0·07	0·43	19·5	11·2	+0·43	0·48	14·9	10·8	+0·44	0·76	15·7	12·0	−0·26
25	0·62	9·9	9·2	+0·62	0·40	15·0	9·9	+0·34	0·61	18·9	10·4	−0·03	0·39	16·0	7·9	+0·28	0·29	18·0	9·1	+0·23	0·92	17·1	11·8	+0·54
26	0·37	15·0	8·3	+0·17	0·34	12·9	10·5	+0·31	1·56	21·8	10·2	−0·34	0·45	17·0	10·3	+0·45	0·43	15·3	10·9	+0·43	0·62	14·7	11·9	+0·60
27	0·42	12·4	9·8	+0·39	0·53	13·1	10·2	+0·06	0·70	23·6	9·9	+0·03	0·42	17·1	11·4	+0·42	0·29	15·6	5·4	+0·22	0·74	17·0	10·8	−0·10
28	0·36	14·8	10·4	+0·26	0·74	14·8	8·7	−0·25	0·70	20·8	9·0	+0·35	0·21	21·0	8·1	−0·03	0·52	14·7	7·4	+0·52	0·48	17·8	11·2	+0·08
29	0·34	12·0	7·2	+0·26	0·84	18·1	8·8	−0·31	0·87	20·9	9·6	−0·28	0·54	19·2	2·5	+0·36	0·76	16·0	9·6	+0·52	0·62	21·9	11·7	+0·34
30	0·49	17·6	10·0	+0·31	1·12	19·3	6·9	−0·68	0·98	22·1	10·6	+0·63	0·70	18·3	7·8	+0·09	0·45	15·2	10·4	+0·29	0·88	18·8	11·9	−0·06
31	0·52	17·7	9·9	+0·26	0·62	8·0	0·0	+0·03					0·39	20·3	6·4	+0·21					0·76	20·9	12·0	−0·10

TABLE III.—MONTHLY MEAN DIURNAL VARIATION of LEVEL, as derived from the PHOTOGRAPHIC RECORDS of a MILNE SEISMOGRAPH (Horizontal Pendulum) during the YEAR 1900.

(The results are expressed in seconds of arc, diminished in each case by the smallest hourly value.)

Hour. Greenwich Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	0″·368	0″·556	0″·930	0″·293	0″·369	0″·372	0″·341	0″·473	0″·529	0″·299	0″·325	0″·500	0″·433
1h	0·363	0·566	0·963	0·302	0·375	0·372	0·355	0·471	0·556	0·299	0·317	0·511	0·441
2	0·401	0·576	0·984	0·302	0·372	0·366	0·358	0·488	0·577	0·301	0·307	0·521	0·450
3	0·429	0·630	1·009	0·305	0·372	0·375	0·359	0·492	0·607	0·323	0·312	0·553	0·468
4	0·470	0·598	0·926	0·326	0·395	0·393	0·373	0·507	0·616	0·313	0·277	0·489	0·461
5	0·418	0·490	0·871	0·336	0·409	0·404	0·348	0·465	0·554	0·278	0·248	0·419	0·424
6	0·448	0·434	0·819	0·319	0·389	0·396	0·328	0·439	0·501	0·247	0·213	0·368	0·395
7	0·412	0·393	0·774	0·229	0·300	0·296	0·239	0·318	0·375	0·187	0·181	0·323	0·323
8	0·410	0·322	0·690	0·154	0·232	0·205	0·176	0·234	0·258	0·119	0·114	0·236	0·250
9	0·393	0·303	0·626	0·096	0·166	0·135	0·125	0·165	0·154	0·090	0·095	0·175	0·197
10	0·360	0·259	0·549	0·055	0·094	0·088	0·082	0·088	0·124	0·063	0·068	0·106	0·148
11	0·272	0·183	0·419	0·022	0·034	0·038	0·040	0·036	0·064	0·042	0·040	0·068	0·092
Noon	0·192	0·112	0·251	0·001	0·014	0·006	0·023	0·010	0·015	0·018	0·012	0·026	0·044
13h	0·036	0·034	0·081	0·000	0·000	0·000	0·000	0·000	0·000	0·000	0·000	0·000	0·000
14	0·000	0·000	0·000	0·070	0·040	0·050	0·045	0·056	0·081	0·027	0·065	0·066	0·029
15	0·113	0·105	0·173	0·122	0·077	0·073	0·080	0·118	0·160	0·070	0·138	0·144	0·101
16	0·264	0·244	0·329	0·156	0·109	0·103	0·108	0·175	0·193	0·100	0·169	0·202	0·166
17	0·308	0·332	0·490	0·199	0·140	0·144	0·139	0·232	0·247	0·104	0·215	0·246	0·220
18	0·335	0·366	0·602	0·238	0·206	0·205	0·197	0·284	0·308	0·151	0·240	0·298	0·273
19	0·338	0·407	0·685	0·257	0·246	0·258	0·243	0·330	0·375	0·191	0·279	0·358	0·318
20	0·366	0·456	0·759	0·274	0·263	0·302	0·264	0·377	0·419	0·220	0·291	0·394	0·352
21	0·346	0·488	0·823	0·281	0·303	0·340	0·295	0·402	0·449	0·245	0·294	0·427	0·378
22	0·377	0·505	0·867	0·286	0·326	0·360	0·322	0·435	0·480	0·276	0·306	0·460	0·404
23	0·352	0·529	0·890	0·293	0·349	0·369	0·335	0·456	0·505	0·290	0·307	0·469	0·416
Mean	0·324	0·370	0·646	0·205	0·232	0·235	0·215	0·294	0·339	0·177	0·201	0·307	0·283

HARMONIC ANALYSIS of the DIURNAL VARIATION of LEVEL at the ROYAL ALFRED OBSERVATORY, MAURITIUS.

TABLE IV.—VALUES of the CO-EFFICIENTS in the PERIODICAL EXPRESSION—

$$V_t = a \cos t + b \sin t + a_2 \cos 2t + b_2 \sin 2t + a_3 \cos 3t + b_3 \sin 3t + a_4 \cos 4t + b_4 \sin 4t$$

(in which t is the time from Greenwich mean midnight, converted into arc at the rate of 15° to each hour; and V_t the mean amount of tilt, east or west, at the time t, in each month and for the year, the sign (+) indicating a westerly tilt, and (−) an easterly tilt from the mean position of the boom in each month).

Month, 1900.	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4
	″	″	″	″	″	″	″	″
January -	+0·10097	+0·08499	−0·06677	−0·05407	+0·00718	+0·04768	−0·00104	−0·03572
February -	+0·23288	+0·07093	−0·04504	−0·01737	−0·00390	+0·04434	−0·00592	−0·02786
March - -	+0·35437	+0·16829	−0·06637	−0·08255	+0·00273	+0·07159	+0·00046	−0·02923
April - -	+0·14120	+0·01973	−0·05928	+0·01180	+0·00252	−0·01138	+0·00454	−0·00613
May - -	+0·16913	+0·07442	−0·04895	−0·00180	+0·00570	−0·01310	+0·00592	−0·00202
June - -	+0·18031	+0·06227	−0·04768	−0·00706	−0·00328	−0·02168	+0·00525	−0·00361
July - -	+0·16449	+0·05095	−0·03541	+0·00384	−0·00362	−0·00695	+0·00129	−0·00484
August -	+0·22760	+0·05706	−0·05698	+0·01139	+0·00106	−0·00778	+0·00025	−0·00866
September -	+0·25937	+0·07707	−0·06224	+0·02880	−0·00886	−0·00677	−0·00447	−0·01015
October -	+0·14356	+0·03918	−0·01960	+0·00817	−0·00505	−0·00415	−0·00225	−0·00880
November -	+0·14441	−0·01269	−0·03273	+0·00677	+0·00705	+0·00789	−0·00450	−0·00548
December -	+0·23334	+0·04198	−0·04008	+0·01208	+0·00499	+0·01022	−0·01238	−0·00344
For the Year -	+0·19598	+0·06128	−0·04841	−0·00663	+0·00039	+0·00900	−0·00100	−0·01212

TABLE V.—VALUES of the CO-EFFICIENTS and CONSTANT ANGLES in the PERIODICAL EXPRESSION—

$$V_t = c_1 \sin (t + \alpha) + c_2 \sin (2t + \beta) + c_3 \sin (3t + \gamma) + c_4 \sin (4t + \delta)$$

(in which t is the time from Mauritius apparent midnight, converted into arc at the rate of 15° to each hour and V_t the mean amount of tilt, east or west, at the time t, in each month and for the year, the sign (+) indicating a westerly tilt, and (−) an easterly tilt from the mean position of the boom in each month).

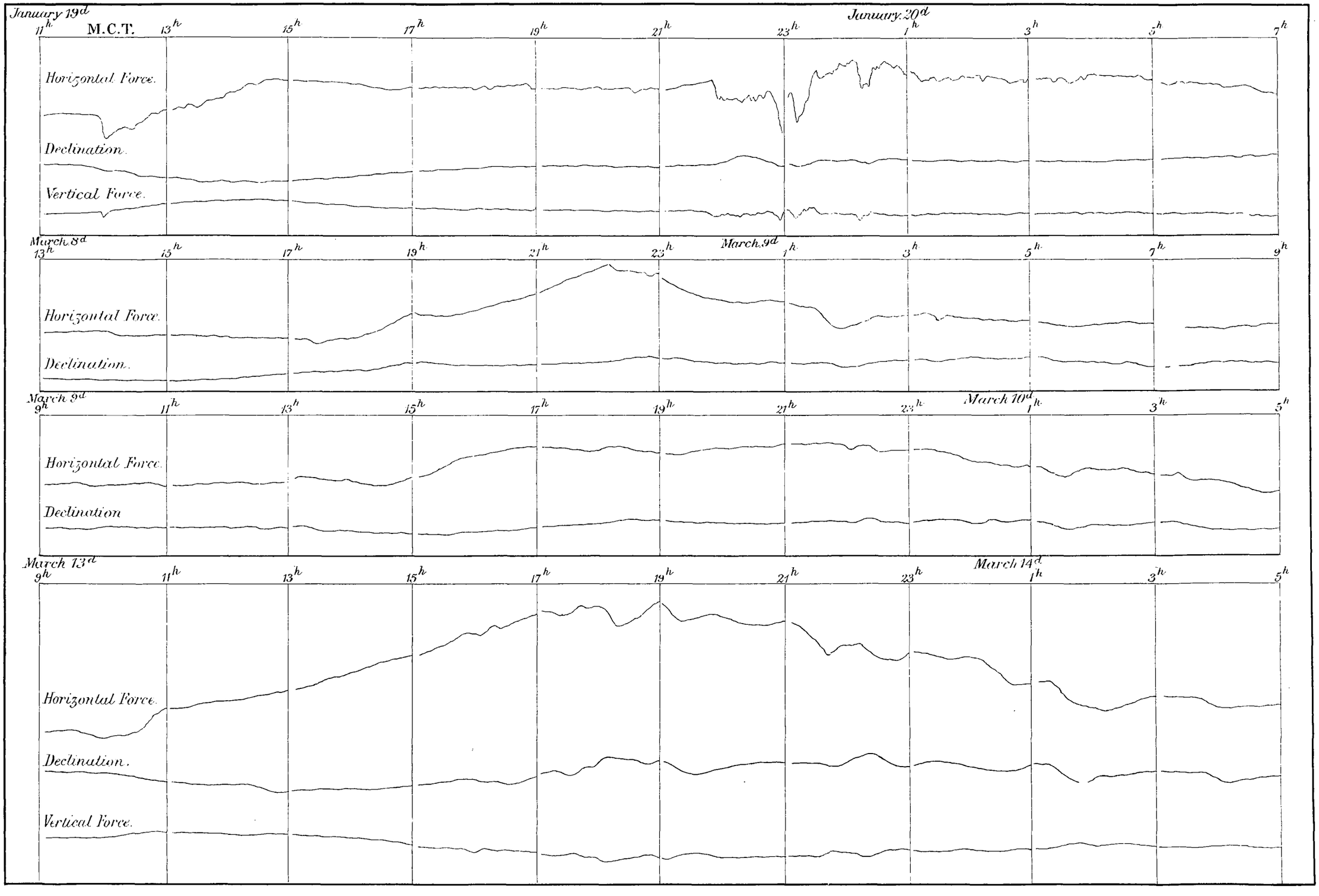
Month, 1900.	c_1	α	c_2	β	c_3	γ	c_4	δ
	″	° ′	″	° ′	″	° ′	″	° ′
January -	0·1320	354.44	0·0859	120.38	0·0482	203.11	0·0357	320.55
February -	0·2434	19. 1	0·0483	140.48	0·0445	192.48	0·0285	335.46
March - -	0·3923	9.14	0·1059	108. 4	0·0716	196. 4	0·0292	317.36
April - -	0·1426	24.33	0·0604	166.16	0·0117	355. 0	0·0076	273.29
May - -	0·1848	7.50	0·0490	151. 4	0·0143	341.15	0·0063	235.11
June - -	0·1908	13.29	0·0482	146.39	0·0219	16.12	0·0064	254.36
July - -	0·1722	16.36	0·0356	163.49	0·0078	38.57	0·0050	300.17
August -	0·2346	19.20	0·0581	168. 7	0·0078	2.26	0·0087	311.58
September	0·2706	14.40	0·0686	177.16	0·0112	56.16	0·0111	328.36
October -	0·1488	13.42	0·0212	170.33	0·0065	47.26	0·0091	310.10
November -	0·1450	33.47	0·0334	159.13	0·0106	218. 5	0·1071	334.25
December -	0·2371	21.12	0·0419	169.35	0·0114	210.14	0·0128	20. 5
For the Year -	0·2053	15. 5	0·0489	147. 6	0·0091	189.49	0·0122	314.30

TABLE VI.—RAINFALL and CHANGES OF LEVEL.

Rainfall. Date. From	To	Amount.	Changes of Level.
1900. d h m	d h m	ins	
January.			
2.15.30	2.16. 0	0·395	A westerly wave (0″·14) from $2^d.16^h.8^m$ to $16^h.18^m$.
9.22.10	9.22.30	0·210	A westerly wave (0″·22) from $9^d.22^h.15^m$ to $22^m.30^s$; also a gradual movement to westward (0″·42)
9.23.45	10. 0. 0	0·050	between $10^d.6^h.40^m$ and $7^h.50^m$.
10. 6.15	10. 6.20	0·260	(Air tremors from $9^d.18^h$ to $10^d.8^h$).
29.14.35	29.15. 2	0·115	A westerly wave (0″·40) from $29^d.14^h.35^m$ to $16^d.50^m$, with tremors between $14^h.43^m$ and $15^h.0^m$.
30.12.45 (Thunderstorm).	30.13.10	0·680	Tremors occurred between $30^d.12^h.45^m$ and $14^h.20^m$, and again between $16^h.15^m$ and $20^h.50^m$; (half amplitude at maximum = 0″·37).
30.16. 0	30.18.10	0·500	The pillar tilted to eastward—
			h m h m ″
			From 12.57 to 13.21 1·62
			From 13.21 to 13.50 0·30
			From 13.50 to 19. 0 1·45
			Total easterly tilt - 3·37
February.			
1.14.15 (Occasional heavy showers).	2. 3. 0	1·180	Tremors commenced at $1^d.17^h.10^m$ (simultaneously with the first heavy shower) and lasted until $18^h.50^m$. From $17^h.10^m$ to $17^h.20^m$ the pillar tilted 0″·10 to eastward, returning by $19^h.10^m$.
2.11. 0	2.11.10	0·150	A westerly wave (0″·19), with superposed tremors, from $11^h.10^m$ to $11^h.18^m$.
3. 0.15	3. 0.55	0·290	Tilt to westward, with tremors (0″·1) between $0^h.22^m$ and $0^h.26^m$.
4.21.30	4.21.40	0·140	A very slight tilt to eastward between $21^h.40^m$ and $21^h.45^m$.
5. 1.50 (Heavy showers).	5. 7.15	0·720	Easterly tilt (0″·24) from $1^h.58^m$ to $2^h.10^m$. Tremors commenced at $4^h.55$ (15 minutes after a heavy shower) and lasted until $6^h.10^m$. Larger tremors commenced at $6^h.47^m$ (simultaneously with very heavy shower) and lasted till 12^h.
			From $5^h.55^m$ to $12^h.50^m$ the boom tilted 2″.52 to eastward.
March.			
17.14. 0	17.14.25	0·330	Sudden tilt to westward (0″·13) at $14^h.0^m$; boom moved slowly back between $14^h.10^m$ and $14^h.20^m$.
18.17.20	18.17.25	0·150	Tremors between $17^h.35^m$ and $20^h.40^m$. The ordinary diurnal movement to westward did not commence until $19^h.20^m$.
23. 3.20	23. 3.25	0·350	Tremors from $3^h.25^m$ to $11^h.20^m$, and again from $18^h.0^m$ to $18^h.50^m$. Westerly wave (0″·15) from
. 7. 0	. 7.15	0·220	$4^h.20^m$ to $4^h.30^m$ and easterly waves as follows:—
. 9.30	.10. 5	0·420	h m h m ″
.17.30	.18.30	0·850	From 7. 5 to 8.30 0·29
			From 10.20 to 11.30 0·33
	Total fall -	1·840	From 17.50 to 19. 5 0·35
30. 8.15	30. 9.35	0·170	Tremors from $8^h.30^m$ to $10^h.30^m$.
April.			
1.20.58	1.21.55	0·960	Westerly tilt from $21^h.0^m$ to $22^h.20^m$ of 0″·77; curve steepest between $21^h.20^m$ and $21^h.30^m$.
11.11.10	11.11.35	0·400	A positive wave (0″·11) from $11^h.10^m$ to $12^h.10^m$. No tremors.
June.			
13.12.35	13.15.10	0·820	Positive wave (0″·14) from $12^h.50^m$ to $13^h.50^m$.
August.			
31. 4.38	31. 7.45	1·170	Sudden tilt of 0″·05 to westward at $4^h.38^m$ followed by a very sharp tilt of 0″·31 to eastward at $4^h.40^m$. Westerly tilt of 0″·26 from $5^h.40^m$ to $6^h.30^m$.
October.			
17.20.24	17.20.30	0·290	Westerly tilt of 0″·15, with superposed tremors, from $20^h.24^m$ to $20^h.36^m$.
November.			
12. 3.10	12. 6.10	0·180	Westerly wave (0″·07) from $3^h.38^m$ to $4^h.20^m$. Slight tremors between $3^h.53^m$ and $4^h.0^m$.
17. 4.55	17. 5.25	0·130	Slight tremulous movement to westward from $5^h.16^m$ to $5^h.20^m$.
20. 0.52	20. 2.30	0·200	Very slight westerly wave from $0^h.55^m$ to $1^h.10^m$. No tremors.

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS.

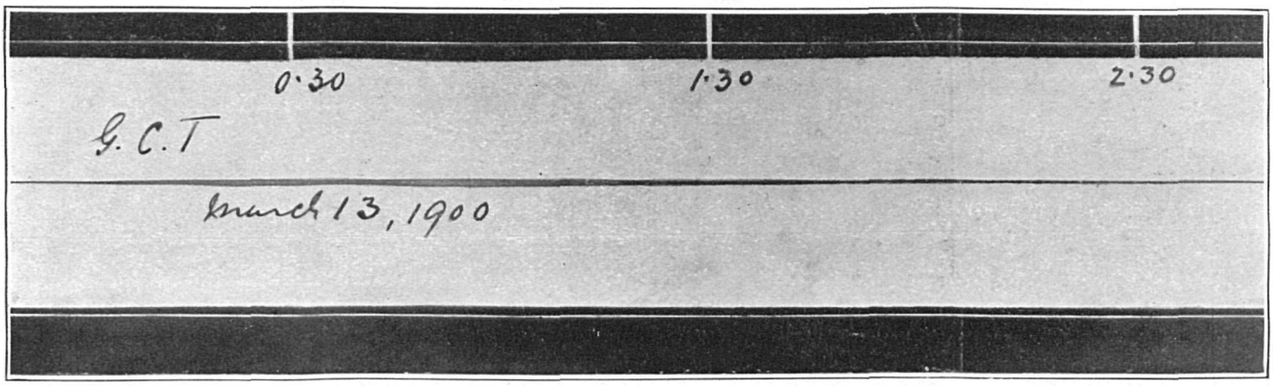
During the Year 1900.



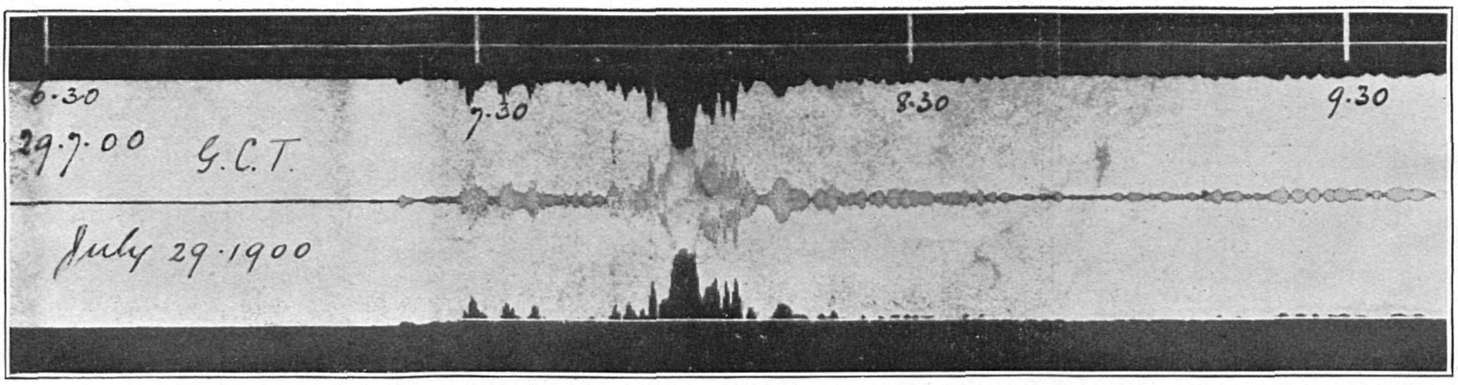
An upward movement indicates an increase of Westerly Declination, and a decrease of Horizontal Force and Vertical Force.

1 Millimeter of ordinate = 1′·7″ of Declination; ·000051. c.g.s. units of Horizontal Force; ·000046. c.g.s. units of Vertical Force.

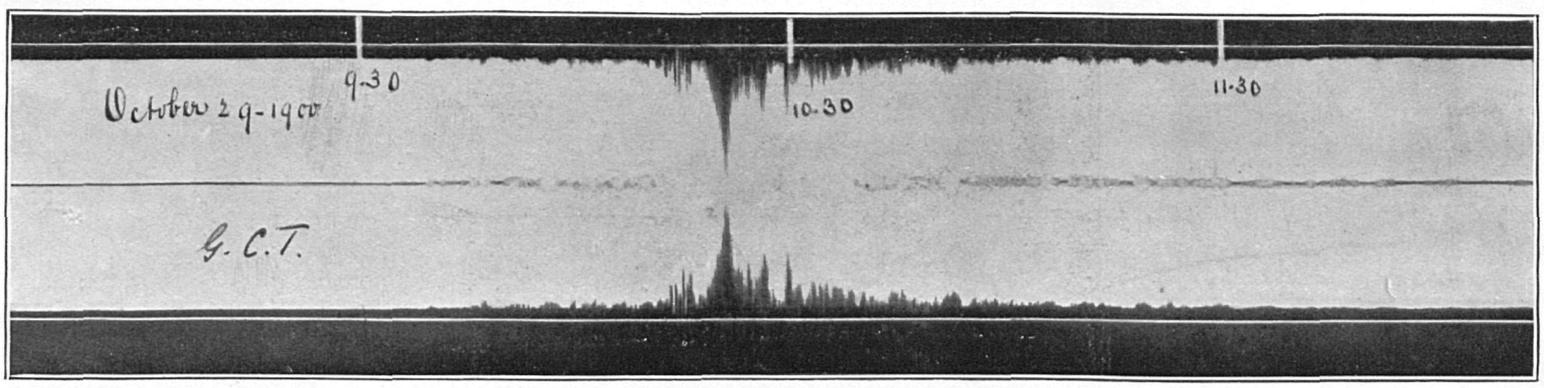
EARTHQUAKES RECORDED AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS, DURING THE YEAR 1900.



1 millimetre of ordinate = 0·29″.



1 millimetre of ordinate = 0·26″.

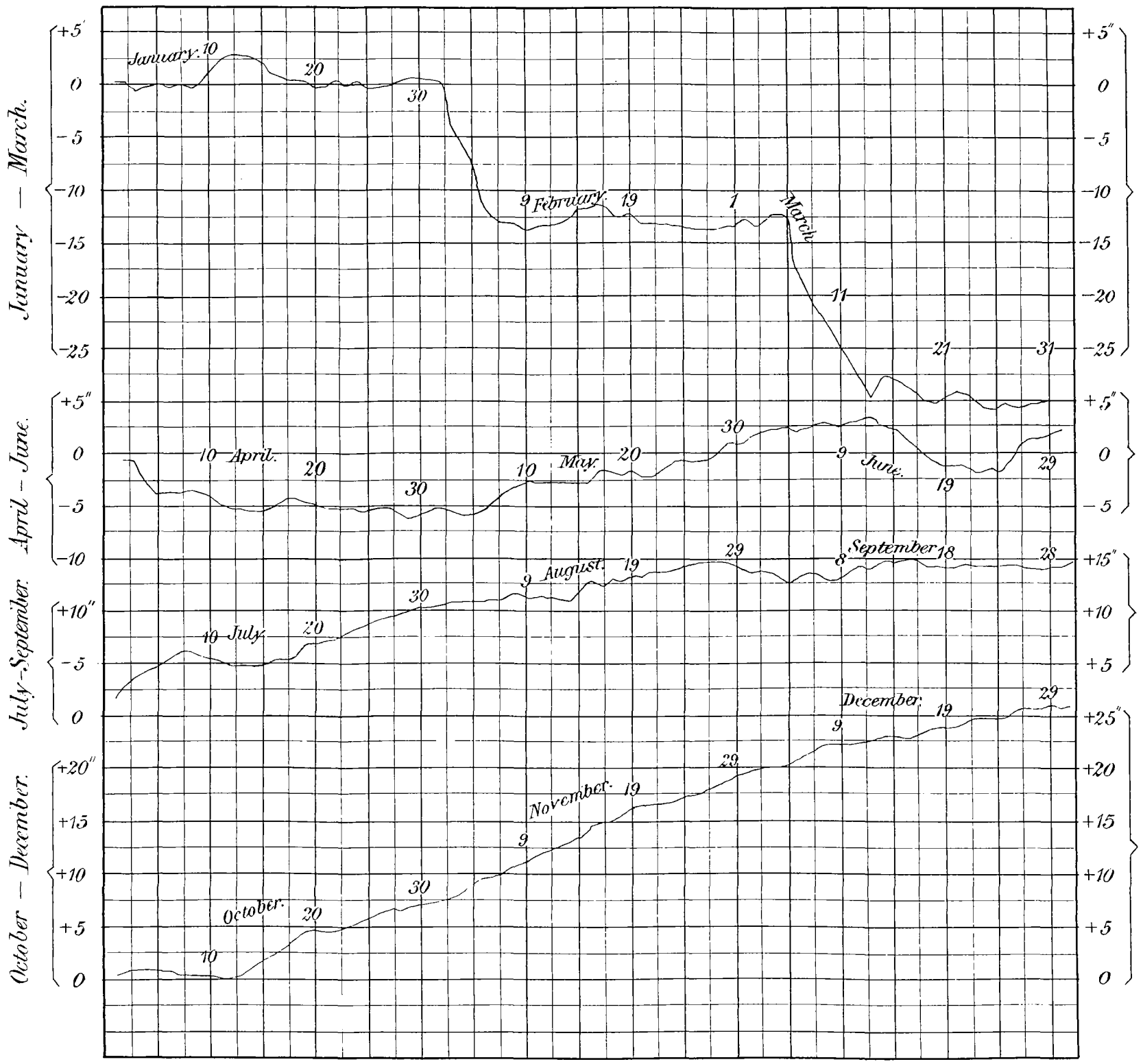


1 millimetre of ordinate = 0·15″.

AN UPWARD MOVEMENT INDICATES A TILT TO EASTWARD.

PROGRESSIVE CHANGE OF LEVEL AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS.

During the Year 1900.



February 1–5, Rainfall = 2·71 ins. (Cyclone to S.W. of Mauritius.)
March 6–8, Rainfall = 4·96 ins.