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RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

MADE AT

THE ROYAL ALFRED OBSERVATORY, MAURITIUS,

IN THE YEAR

1901.

UNDER THE DIRECTION OF

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MAURITIUS MAGNETICAL AND METEOROLOGICAL OBSERVATIONS, 1900.

INTRODUCTION, p. *xix*, § 2. *For* "Hicks No. 8933" *read* "Hicks No. 89833."

„ p. *xxi*, § 2. *For* "columns 1, 5, 6, and 21" *read* "columns 1, 5, 6, and 20."

RESULTS OF MAGNETICAL OBSERVATIONS, p. (x), Table XI., Needle No. 1. *For* "Poles Reserved (B dipping)" *read* "Poles reversed (B dipping)."

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ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1901.

MAURITIUS MAGNETICAL AND METEOROLOGICAL OBSERVATIONS, 1901.

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, known as the Magnet Basement, contains the magnetographs 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, interrupted on the eastern side by the north and south doors of a lobby, the east and west doors of which serve as a means of communication between the Magnet Basement and the Photographic Room. 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 Magnet Basement 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.

On account of the anomalous vibration of the magnets used for absolute determinations of declination, horizontal force and dip, caused by the rafters of the floor resting on the foundations of the instrument pillars, in 1901 November the arrangement of the rafters was suitably modified, and the pillars strengthened by a covering of concrete (in default of a more suitable material), 8 inches thick at the base and 2 inches thick at the top.

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 rain gauge is placed 10 yards to the south-south-west of the above enclosure, and the Glaisher rain gauge 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 1901 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, L. N. Olivier, J. Veerapen, S. Veerapen, A. Manuel, as extra assistants at different times during the year.

§ 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 is determined in the manner described in the "Introduction to the Magnetical and Meteorological Observations for the Year 1900." The results of the observations made in the year 1901 are as follows:—

Date.	Number of Observations.	Azimuth of Mark.	Date.	Number of Observations.	Azimuth of Mark.
1901 January 22d	8	1′. 5″·2 West of South.	1901 September 6d	19	1′.16″·0 West of South.
February 13	8	1.11·6 „ „	October 21	16	1.22·9 „ „
May 6	8	1. 9·2 „ „	December 10	6	1.22·1 „ „
June 19	8	1.14·8 „ „			

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 $3\frac{1}{2}$ 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 III. 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 mounted, in the Magnet Basement, 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 lamps are used for photographic registration.

Thermometers are placed within the glass shades of the horizontal force and vertical force magnetometers, and are read daily at 8^h, 10^h, 13^h, and 16^h.

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 absorbent.

From 1901 June 26 to July 5 further attempts were made to exhaust the air from the glass shade of the declination magnetometer. The instrument was dismounted and all joints cleaned and sealed with india-rubber solution, but notwithstanding the precautions taken it was found impossible to make the shade air-tight. The pressure was reduced temporarily to 5 inches on several occasions.

On July 2 the suspension thread of the declination magnet was renewed, and torsion removed by inserting in place of the magnet a brass bar of the same weight and shape and turning the torsion head until the same scale reading was obtained with bar up or magnet up.

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 as described in the previous paragraph; 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 1901 December 26.

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. Adjustments were made on July 5, November 16, 22 and 30

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 m.m. of Ordinate.	Factor to reduce Scale Readings to 1 m.m. 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

The scale values of the horizontal force and vertical force magnetometers are determined by the method of deflections, described by the late Professor Balfour Stewart at a meeting of the British Association for the Advancement of Science, held at Aberdeen in the year 1859.

The results of the observations made in the year 1901 are as follows:—

Date 1901.		Value of 1 Millimetre of Ordinate (C.G.S. Unit). Horizontal Force.	Vertical Force.
	d.		
February	9	0·0000538	0·0000710
March	1	0·0000567	0·0000781
April	16	0·0000621	0·0000781
,,	30	0·0000685	..
May	1	0·0000261	..
July	2	0·0000270	0·0000710
,,	13	0·0000266	..
,,	16	..	0.0000707
August	1	0·0000269	0·0000727
,,	2	0·0000268	..
,,	7	..	0·0000718
November	9	0·0000268	0·0000708
,,	30	0·0000268	..
December	14	..	0·0000508
,,	26	0·0000274	..
,,	30	..	0·0000565

In reducing the observations mean annual values of horizontal force and vertical force are used, and also of the angular movements of the declination magnet produced by the deflector in the standard positions for horizontal force and vertical force deflections.

On April 30 the sensibility of the horizontal force magnetometer was increased in order to register with a more open scale the possible effect of the solar eclipse of 1901 May 18, and in view of the subsequent steadiness of the scale value the former sensibility has not been restored.

From a discussion of the variations in the value of the horizontal force base lines during the years 1898, 1899, and 1900, given in the Introduction to the Magnetical and Meteorological Observations for the year 1900, the following expression, in terms of the Centimètre-Gramme-Second Unit, was deduced for correcting the indications of the horizontal force magnetometer to a constant temperature of 70° Fahrenheit:—

$$0{\cdot}0001255\ (t^\circ - 70^\circ) - 0{\cdot}00000142\ (t^\circ - 70^\circ)^2.$$

This result differs considerably from that obtained in the year 1897 by artificially heating the magnet and noting the changes of scale reading produced thereby; but has been used in the horizontal force reductions for the year 1901, as it clearly

represents the effect on the magnet of the annual variation of temperature in the Magnet Basement.

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 (Fahrenheit) caused a decrease of ·00073 (C.G.S. Unit); 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 of temperature (Fahrenheit) caused a decrease of ·000285 (C.G.S. Unit).

On account of frequent dislocations and re-adjustments, it has not been possible to determine the temperature coefficient of this magnet from the observed values of the photographic base-lines.

§ IV. *Magnetic Reductions.*

The indications of the declination and horizontal force magnetometers are standardised by the absolute determinations (Tables I. and II.) which furnish apparent values of the photographic base-lines. Mean monthly values are formed for each month and smoothed by the formula: $b' = (a + 2b + c)/4$ in order to eliminate the petty irregularities due to errors of observation, and daily values interpolated; these combined with the mean daily ordinates give the absolute value of the element for each day (Tables VI. and VIII.).

The strengthening of the foundations of the instrument pillars, referred to on page *v*, caused an apparent increase of 2′·09 in declination, as shown by the change in the value of the photographic base-line; the mean value for the two months prior to the alteration being 9°·20′·45 and 9°·22′·54 for the two following months. A correction of − 2′·09 has accordingly been applied to the observed values of the declination base-line subsequent to the alteration. The change produced in the horizontal force, if any, was smaller than the probable error of observation.

From a comparison of the observed values of the photographic base-lines with the corresponding values taken from a smoothed curve, it appeared that the probable error of a single determination of declination in the year 1901 was ± 0′·72 and the greatest error 3′·05. Similarly the probable error of a single determination of horizontal force was ± ·000057 (C.G.S. Unit), and the greatest error ·00021 (C.G.S. Unit).

Table III. exhibits the separate observations of dip in the several positions of the needle and instrument. The monthly mean values are collected in Table IV. and

from the values of Dip (D) in this table combined with the corresponding values of horizontal force (H) given in Table II., the vertical force (V) and total force (T) have been computed from the relations

$$V = H \tan D \; ; \; T = H \sec D.$$

The results, expressed in Metric and English Measure, are given in Table V., which includes also the Mean Monthly values of declination.

In computing the diurnal variation of magnetic declination and vertical force for the year 1901, all available days were used; but in horizontal force the following days were rejected on account of magnetic disturbance: February 2; March 24, 25; May 10, 11; August 14, 15; September 10; October 9, 25; November 4; December 1, 2, 28; of these only eight, May 10, 11; August 14, 15; September 10; December 1, 2, 28, were days of great disturbance. January 22; February 19, 22, 23; May 23, 24, 31; June 1, 13, 14, 21; July 12, 17; October 13, 28; November 5, 6, 7, 9, 11, 19, and December 9, though days of slight disturbance, were used in the formation of Table IX.

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 *xi*; 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 VII., IX., and XI. 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 mean daily values of the declination and horizontal force ordinates derived from the hourly measures of the photographic registers are computed by the formula—

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

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 hourly values from 0^h to 23^h by the quantity $(x_{24}-x_0)/48$, the mean value of which (irrespective of sign) in each month of the year 1901, for declination and horizontal force, was as follows:—

Month.	Element.	Declination.	Horizontal Force (C.G.S. Unit).
		′	
January	- - -	0·0065	0·0000015
February	- -	0·0064	0·0000015
March	- - -	0·0068	0·0000016
April	- -	0·0050	0·0000014
May	- - -	0·0048	0·0000007
June	- -	0·0087	0·0000013
July	- - -	0·0025	0·0000017
August	- -	0·0055	0·0000013
September	- -	0·0037	0·0000008
October	- -	0·0071	0·0000008
November	- -	0·0074	0·0000011
December	- -	0·0055	0·0000011
For the year	- -	0·0058	0·0000012

Table XII. exhibits the daily range of magnetic declination, horizontal force and vertical force on quiet days, as derived from the hourly measures of the magnetograms.

The magnetic disturbances which occurred during the year 1901 are briefly described on pages (xv) and (xvi), and the hourly variations of the disturbed element

above or below the mean value for the month, and the absolute daily range, are given in Table XIV.

§ V.—*Meteorological Instruments.*

SELF-RECORDING INSTRUMENTS.—The barograph, thermograph, and anemograph, are of the Kew pattern, and are fully described in the *Annual Report of the Meteorological Committee of the Royal Society for the year* 1867.

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 $0^{in} \cdot 575$, and the cistern is considered to be 181 feet above mean sea-level. The bulb of the attached thermometer is immersed in a tube of mercury of $0^{in} \cdot 5$ internal diameter. The correction $-0^{\circ} \cdot 3$ has been applied to the readings throughout the year 1901.

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 $+ 0^{in} \cdot 002$ 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 $0^{in} \cdot 0190$ 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.

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.

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 Appendix IV. to the volume of Magnetical and Meteorological Observations for the year 1898.

The values given in column 14 of the "Daily Results of Meteorological Observations" are the readings of thermometer Negretti and Zambra No. 65011, after the application of the following corrections to make them comparable with those of the former standard, Hicks No. 211682.

Reading of N. and Z. 65011	115°	134°	135°	140°	148°	149°	153°	157°
Correction	−4°·2	−4°·2	−4°·1	−3°·9	−3°·0	−3°·0	−3°·3	−3°·8

The terrestrial radiation thermometer, Hicks No. 89833, 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.

COMPARISON OF THERMOMETERS.—All the thermometers for eye observations (except the solar radiation thermometer) are compared twice a year, near mid-winter and mid-summer, with a standard thermometer No. 701, specially constructed at the Kew Observatory. The following precautions are taken to ensure accuracy :—

The thermometers to be compared are placed in a double cistern of water on a board which is fixed at an angle of about 30° with the horizon. They are arranged symmetrically on either side of the Standard with their bulbs at the same depth below the surface of the water.

The observations are commenced at sunrise, when the water is of nearly the same temperature as the air. The water is stirred before each set of comparisons, but readings are not commenced until it has become nearly still. The thermometers are read in rotation, commencing from the right and left alternately.

The observations are made with a small microscope fixed at the end of a brass tube 8 inches long, and held at right angles to the thermometer stems by a jointed arm.

The results of the comparisons in 1900 December, 1901 June, and 1901 December are given below; together with the correction adopted in the Reductions for the year 1901.

Exposure.	Thermometer.	Temperature during Comparisons.	Correction. 1900 December.	1901 June.	1901 December.	Adopted throughout 1901.
Thermograph Screen.	Dry bulb, No. 714.	67° 74 76 79	−0·11	−0·09 −0·09	−0·09	−0·09
	Wet bulb, No. 715.	67 74 76 79	−0·14	−0·09 −0·13	−0·09	−0·09 below 76° −0·14 above 76°
Stevenson Screen on lawn.	Dry bulb, No. 81524.	67 75 77	−0·56	−0·47	−0·64	−0·56
	Wet bulb, No. 81525.	67 75 77	−0·68	−0·48	−0·63	−0·60
	Dry bulb, maximum, No. 40450.	67 74 77	−0·86	−0·93	−0·75	−0·85
	Dry bulb, minimum, No. 40467.	67 73 76	−0·20	−0·22	−0·20	−0·21
Between two open windows in lofty room.	Dry bulb, maximum, No. 43670.	67 74 77	−0·23	−0·47	−0·51	−0·40
	Dry bulb, minimum, No. 1470.	67 73 76	+0·02	+0·02	+0·15	+0·06
	Wet bulb, minimum, No. 40465.	73 76	+0·12		+0·14	+0·13
6-inch stand on grass.	Terrestrial Radiation, No. 89833.	67		+0·01		0·0
62 inches below surface.	Earth, No. 12380.	67 73		−0·66	−0·55	−0·6
120 inches below surface.	Earth, No. 109087.	67 73 80	−0·24	−0·18	−0·20	−0·20

In general the second decimal place is retained in order to preserve accuracy to 0·1 of a degree in the mean daily and monthly values.

RAIN GAUGES.—The rain gauge in use since the establishment of the Observatory 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.

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 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 6½ inches in diameter, and the inner cage 3½ 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 gun-metal, 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 is insignificant, though somewhat greater at the equinoxes than at the solstices, and greater in summer than in winter, as the ends are not cut parallel to the horizon. 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-West 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.

§ 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, after correction for index error, 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 thermograms; 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 additional correction is applied to each daily value in the month.

The values given in the table of "Daily Results of Meteorological Observations" refer to the civil day. The mean daily values of barometric pressure, temperature of the air and of evaporation, north and east components and recorded velocity of the wind, given in columns 1, 6, 8, 22, 23, and 28 are derived from the hourly measures

of the several registers, taking into account the difference between the ordinate at 0^h and 24^h on each day, as explained on page *xv* in the case of magnetic declination and horizontal force.

The difference, irrespective of sign, between the mean thus obtained and the mean of the 24 hourly values of atmospheric pressure, temperature of the air and of evaporation, north and east components and recorded velocity of the wind are as follows:—

Element. / Month.	Barometric Pressure.	Temperature		Wind.		
		Of the Air.	Of Evaporation.	Recorded Velocity.	North Component.	East Component.
	in.	°	°	m.p.h.	m.p.h.	m.p.h.
January - -	0·00128	0·031	0·024	0·139	0·126	0·121
February - -	0·00059	0·037	0·036	0·053	0·044	0·049
March - - -	0·00057	0·029	0·029	0·036	0·047	0·055
April -	0·00075	0·045	0·043	0·076	0·060	0·071
May - - -	0·00089	0·046	0·044	0·065	0·059	0·066
June - - -	0·00069	0·052	0·059	0·074	0·066	0·057
July - - -	0·00064	0·033	0·038	0·051	0·032	0·050
August - -	0·00085	0·044	0·046	0·067	0·055	0·084
September - -	0·00048	0·046	0·040	0·062	0·059	0·064
October - -	0·00062	0·045	0·047	0·057	0·053	0·074
November - -	0·00042	0·049	0·048	0·075	0·051	0·079
December - -	0·00073	0·029	0·039	0·078	0·057	0·091
Year - - -	0·00071	0·041	0·041	0·069	0·059	0·072

The daily maximum and minimum temperature given in columns 3 and 4 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.

In order to obtain the amount and duration of rainfall for each civil day, the values given in columns 16 and 17 have been 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 18, 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, column 19, 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.

The mean daily direction and velocity of the wind, given in columns 24 and 25, 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 28 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*	,,	distant thunder.
l	,,	lightning.	*t-sm*	,,	thunderstorm.

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.

The monthly values of the principal meteorological elements are collected on page (xlii) and their normals given on page (xliii). In these tables the mean amounts of upper and lower clouds are given separately, the former including all varieties above the altitude of strato-cirrus.

The monthly amount of rainfall as derived from the daily readings of the Glaisher gauge at 9 a.m.. is referred to the calendar month by assigning to the last day of each month, the proper proportion of the rain measured at 9 a.m. on the first day of the following month, as shown by the records of the Beckley Pluviograph.

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 calendar 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 (xliv), 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 table "Abstract of the Changes of the Direction of the Wind," pages (liv) and (lv), 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 of Meteorological Observations."

In reducing the actinometric observations, the results of which are given on page (lvi), 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 on page (lvi) are the means of from 3 to 7 consecutive determinations, and the altitudes are the means of usually three observations; the barometer readings are derived from the photographic records. From these data the original heat and the transmissibility of the air have been deduced by the formula:—

$$P_0 = \frac{P\rho^2}{x^{\beta\delta}}$$

where P_0 is the original heat, P the observed heat, ρ the radius vector of the earth, x the coefficient of transmission of a ray from a zenith sun through the atmosphere, when its pressure is equivalent to that of 30 inches of mercury, β the ratio which the barometric pressure at the 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.

The Rainfall tables, pages (lviii) to (lxi), 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 1901.

INVESTIGATION OF THE DEGREE OF ACCURACY OF SELF-REGISTERING MAXIMUM AND MINIMUM THERMOMETERS.

In order to ascertain the degree of accuracy to be expected from self-registering maximum and minimum thermometers, on 1900 June 16 a maximum thermometer (Casella No. 15447) on Phillips's principle, and a minimum thermometer (Casella No. 115511) on Rutherford's principle, were mounted horizontally in the Thermograph Screen with their bulbs 6 inches to the west of the reference thermometer, and read daily, the former at 15^h and the latter at 9^h, Mauritius Civil Time. Owing to its unsatisfactory performance, however, on 1900 October 22 the maximum thermometer (Casella No. 15447) was discarded, and Casella No. 52401, of similar construction, substituted. This thermometer was in turn discarded for Casella No. 122504 on 1901 August 16.

The readings of these thermometers from 1900 June 16 to 1901 December 31, and the excess of the readings above the corresponding maximum and minimum temperatures derived from the thermograms are given below; also the mean excess, with mean and maximum residuals in each month.

As the maximum temperature in these tables refers to the twenty-four hours ending at 15^h, and the minimum temperature to the twenty-four hours ending at 9^h, the maximum and minimum temperatures given in the volume, which refer to the twenty-four hours ending at 0^h, cannot always be used for comparison; in such cases the values for the period to which the eye-observations refer have been used.

READINGS of MAXIMUM THERMOMETERS placed in the THERMOGRAPH SCREEN; and EXCESS of the READINGS above the corresponding MAXIMUM TEMPERATURES derived from the THERMOGRAMS.

Day of the Month.	Maximum Thermometer (Casella No. 15447). 1900. June. Reading.	June. Excess above Thermogram.	July. Reading.	July. Excess above Thermogram.	August. Reading.	August. Excess above Thermogram.	September. Reading.	September. Excess above Thermogram.	October. Reading.	October. Excess above Thermogram.
1	..	..	74·0	+1·3	73·9	+1·1	76·2	0·0	80·3	+0·8
2	..	..	74·6	+0·8	75·4	+0·8	77·2	+0·6	80·0	+0·9
3	..	..	74·0	+0·5	77·0	+1·1	76·5	+0·8	77·5	+0·7
4	..	..	74·9	+1·0	79·8	+0·9	78·2	+0·6	77·8	+0·8
5	..	..	75·0	+0·8	78·8	+0·8	79·2	+0·5	79·5	+0·7
6	..	..	76·8	+1·0	77·2	+0·6	79·0	+0·4	82·7	+1·0
7	..	..	76·8	+1·1	77·5	+0·8	76·5	+0·6	80·0	+0·8
8	..	..	76·8	+1·0	75·6	+0·8	76·8	+1·0	82·0	+0·3
9	..	..	77·7	+1·1	73·0	+0·5	78·7	+0·9	80·8	+0·7
10	..	..	78·0	+1·0	72·2	(−2·5)	79·2	+0·6	81·8	+1·0
11	..	..	77·9	+1·1	71·8	(−2·0)	79·1	+0·6	83·0	+0·7
12	..	..	76·8	+0·6	72·2	(−2·3)	78·5	+0·8	83·2	+0·6
13	..	..	74·0	+0·8	74·0	+0·5	77·3	+0·7	83·6	+0·9
14	..	..	74·8	+1·2	72·9	+0·6	79·4	+1·0	82·8	+1·0
15	..	..	77·0	+0·9	73·7	+0·7	78·5	+0·9	82·9	+1·0
16	74·4	+0·8	76·0	+0·4	74·0	+0·6	76·1	+0·8	82·0	+0·4
17	74·2	+0·6	74·9	+0·7	74·9	+0·9	73·0	+0·2	80·2	+1·4
18	73·9	+0·4	74·0	+0·5	75·6	+0·7	75·0	+0·4	80·4	+0·7
19	74·0	+0·7	75·2	+0·2	76·4	+0·5	79·8	+1·1	79·5	+0·6
20	73·4	+0·8	75·2	+0·4	77·2	+0·7	79·2	+0·6	81·2	+0·5
21	75·3	+0·8	75·0	+0·5	78·3	+0·5	81·2	+0·5	..	..
22	75·5	+0·8	74·3	+0·5	79·4	+0·8	79·7	+1·1	..	..
23	78·0	+0·9	73·1	+0·9	77·5	+0·9	80·0	+0·2		
24	79·0	+0·5	74·0	+0·5	78·0	+0·6	79·8	+1·2		
25	76·8	+0·8	72·3	+0·6	77·2	+0·6	79·8	+1·0		
26	75·0	+0·4	72·6	+0·7	76·4	+0·9	79·7	+1·0		
27	75·7	+0·9	74·2	+0·6	76·5	+0·6	78·2	+0·8		
28	74·8	+0·9	73·2	(−1·4)	79·0	+1·0	82·0	+1·0		
29	75·0	+0·5	72·5	(−0·3)	78·8	+0·7	81·6	+0·9		
30	77·0	+0·8	74·1	+0·6	79·8	+1·0	83·1	+1·0		
31			76·4	+0·8	74·2	+1·3				

Day of the Month.	Maximum Thermometer (Casella No. 52401). 1900. October. Reading.	October. Excess above Thermogram.	November. Reading.	November. Excess above Thermogram.	December. Reading.	December. Excess above Thermogram.	1901. January. Reading.	January. Excess above Thermogram.	February. Reading.	February. Excess above Thermogram.	March. Reading.	March. Excess above Thermogram.
1			84·2	+1·0	87·2	+1·0	91·6	+1·2	86·2	+1·0	88·3	+0·8
2			85·3	+0·9	81·5	+0·6	90·2	+1·3	87·2	+0·9	87·5	+0·9
3			83·4	+0·9	88·0	+1·1	89·0	+1·2	88·2	+0·9	87·7	+1·0
4			..	..	85·3	+1·1	91·0	+1·3	88·0	+1·4	87·7	+1·0
5			84·0	+0·9	87·7	+1·0	90·0	+1·1	86·2	+1·1	84·0	+0·7
6			85·6	+1·1	86·1	+1·2	89·3	+1·3	87·2	+1·1	88·0	+0·9
7			85·6	+0·9	88·0	+1·3	89·2	+0·7	87·7	+1·2	88·0	+0·9
8			85·0	+1·1	85·9	+1·0	90·7	+1·1	84·7	+1·3	88·0	+0·9
9			84·2	+1·1	87·0	+0·7	90·7	+1·2	86·6	+1·1	87·4	+0·8
10			..	..	87·2	+0·5	90·0	+1·0	87·0	+1·4	88·0	+1·3
11			85·2	+1·2	87·0	+1·1	87·0	+1·1	84·7	+1·0	86·8	+1·0
12			84·5	+1·0	88·8	+1·0	78·0	+1·5	89·0	+1·0	87·4	+1·0
13			84·9	+1·2	..	..	78·1	+0·5	87·8	+1·1	88·0	+0·9
14			85·3	+0·9	89·8	+1·1	83·9	+1·1	87·1	+1·2	86·8	+1·1
15			84·8	+1·2	90·0	+0·9	83·2	+0·7	88·0	+1·1	89·0	+1·1
16			85·6	+1·0	84·0	+1·0	86·0	+0·9	84·8	+1·1	89·4	+1·2
17			82·8	+1·0	85·0	+1·0	88·7	+0·9	86·1	+1·0	88·0	+1·1
18			84·8	+1·2	87·0	+0·7	90·9	+0·9	86·2	+1·0	87·6	+1·0
19			85·0	+0·9	91·0	+1·0	88·0	+0·9	89·8	+1·4	84·8	+1·2
20			82·5	+0·9	88·8	+1·2	88·2	+1·0	88·5	+0·9	84·2	+0·9
21			88·2	+0·7	88·2	+0·4	87·8	+0·8	86·0	+0·5	85·6	+0·9
22			86·2	+0·9	89·4	+1·2	88·2	+0·5	84·1	+1·0	84·0	+0·7
23	82·8	+1·0	86·7	+1·1	95·8	+1·1	90·0	+0·8	85·8	+1·2	87·6	+1·1
24	82·7	+0·9	86·0	+1·2	89·8	+1·2	87·0	+0·8	86·7	+1·1	82·5	+0·9
25	80·6	+0·9	86·2	+1·3	89·2	+1·3	..	..	87·0	+0·9	83·0	+0·7
26	83·0	+1·1	85·3	+1·1	88·1	+1·2	82·8	+0·7	88·4	+1·0	84·0	+1·0
27	84·0	+1·1	84·4	+1·2	88·0	+1·1	86·0	+0·9	88·4	+1·1	82·0	+1·0
28	85·2	+0·7	84·5	+0·9	89·8	+1·2	86·0	+0·8	87·8	+1·1	77·8	+1·1
29	80·5	+1·0	85·6	+1·4	91·0	+1·2	86·5	+0·6			76·0	+0·8
30	84·0	+1·0	86·0	+1·1	90·0	+1·1	87·0	+0·3			86·0	+1·4
31	84·1	+0·8			91·9	+1·2	87·1	+0·9			87·6	+1·2

READINGS of MAXIMUM THERMOMETERS in the THERMOGRAPH SCREEN—*continued.*

Day of the Month.	Maximum Thermometer (Casella No. 52401). 1901. April. Reading.	April. Excess above Thermogram.	May. Reading.	May. Excess above Thermogram.	June. Reading.	June. Excess above Thermogram.	July. Reading.	July. Excess above Thermogram.	August. Reading.	August. Excess above Thermogram.	Maximum Thermometer (Casella No. 122504). 1901. August. Reading.	August. Excess above Thermogram.	September. Reading.	September. Excess above Thermogram.	October. Reading.	October. Excess above Thermogram.	November. Reading.	November. Excess above Thermogram.	December. Reading.	December. Excess above Thermogram.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
1	86·5	+1·1	82·6	+1·0	79·7	+1·0	75·2	+0·6	75·6	+1·1			73·8	+0·3	77·6	0·0	82·2	+0·4	84·2	+0·2
2	86·1	+1·0	83·5	+1·0	78·1	+0·5	75·3	+0·7	75·6	+0·8			75·1	+0·2	81·4	+0·6	84·0	+0·4	80·8	−0·1
3	85·7	+1·1	83·5	+0·8	80·5	+0·9	75·2	+0·7	74·0	+0·5			75·5	0·0	81·6	+0·5	80·0	+0·2	78·0	+0·2
4	86·0	+1·0	84·8	+0·9	81·0	+0·9	77·8	+0·7	78·6	+1·0			75·7	+0·1	80·6	+0·4	79·5	−0·2	77·1	+0·3
5	85·7	+1·1	83·0	+1·0	78·0	+0·6	78·0	+0·9	73·5	+0·8			76·3	0·0	78·8	+0·1	82·4	+0·1	79·2	+0·3
6	86·4	+0·8	81·0	+0·9	73·7	+1·0	77·0	+0·7	76·0	+0·4			76·5	−0·1	79·0	+0·4	83·2	+0·2	83·4	0·0
7	86·5	+0·8	80·0	+1·1	75·7	+0·9	75·7	+1·0	76·4	+1·7			76·8	+0·1	79·4	+0·1	84·6	+0·2	85·5	+0·1
8	85·0	+1·0	78·0	+0·8	76·6	+1·0	73·6	+0·9	77·5	+0·8			79·0	+0·5	80·5	+0·4	84·2	+0·4	86·3	+0·2
9	86·2	+1·2	79·0	+0·8	77·6	+1·0	75·0	+0·9	77·7	+0·8			77·4	+0·2	81·4	+0·6	84·8	+0·5	83·6	−0·2
10	85·0	+1·1	80·0	+0·8	75·3	+0·9	76·2	+0·9	73·2	+1·6			78·0	+0·4	81·3	+0·6	83·8	+0·3	83·8	+0·1
11	85·8	+1·0	81·0	+0·9	71·7	+0·8	76·6	+1·0	71·0	+1·3			78·3	+0·1	79·4	+0·1	78·6	−0·2	86·2	−0·2
12	84·7	+1·1	80·4	+0·9	74·1	+0·8	75·4	+0·8	72·3	+0·7			78·3	+0·1	81·6	+0·4	81·0	−0·4	83·2	−0·3
13	84·5	+0·9	80·5	+0·7	75·9	+1·3	76·6	+0·9	73·9	+0·8			75·4	+0·3	85·2	−0·1	81·8	+0·1	81·8	−0·2
14	84·0	+1·0	82·5	+0·9	77·1	+0·6	75·7	+1·1	75·5	+0·9			75·0	+0·3	83·5	+0·7	86·5	−0·3	82·4	−0·1
15	84·0	+1·1	81·0	+0·9	74·3	+0·8	73·6	+0·9	76·6	+0·9			74·5	+0·4	78·7	+0·1	81·4	+0·5	83·2	0·0
16	80·0	+0·9	81·0	+0·7	76·6	+1·0	72·4	+0·8	75·7	+0·9			74·5	+0·8	80·8	+0·1	..	..	81·6	−0·1
17	78·2	+0·8	80·2	+1·0	75·5	+0·8	74·1	+0·6			74·8	+0·3	75·8	+0·2	79·3	−0·2	..	..	83·9	+0·2
18	79·2	+1·2	80·3	+1·2	77·4	+0·8	75·2	+0·6			76·2	+0·5	75·9	+0·4	81·2	+0·4	81·5	−0·1	83·0	−0·2
19	79·6	+0·8	82·6	+0·9	77·8	+0·9	75·7	+1·1			76·5	0·0	77·4	0·0	82·8	+0·5	81·2	−0·4	84·3	−0·1
20	78·2	+0·6	82·0	+1·0	76·2	+0·5	75·6	+0·8			77·2	−0·3	80·5	+0·2	79·3	−0·1	82·2	−0·1	83·5	−0·4
21	80·5	+0·8	82·9	+1·0	73·8	+1·0	76·4	+0·9			77·5	−0·1	78·7	+0·6	82·0	+0·2	81·0	+0·5	85·7	−0·1
22	77·8	+1·1	83·8	+1·1	74·2	+0·7	76·5	+0·8			74·7	+0·1	79·2	+0·9	83·0	0·0	81·2	0·0	86·8	+0·2
23	79·8	+1·0	82·1	+0·9	72·2	+0·8	76·5	+0·9			72·2	−0·4	80·7	+0·4	83·8	+0·3	82·3	+0·1	84·8	−0·1
24	79·8	+1·1	77·3	+0·8	75·8	+1·0	77·6	+0·8			71·1	0·0	79·2	+0·3	82·6	+0·2	83·0	+0·3	84·0	−0·3
25	78·5	+0·8	76·7	+1·0	76·2	+0·7	78·7	+1·0			74·6	−0·2	78·0	+0·5	84·9	+0·6	83·0	+0·1	84·1	−0·3
26	80·0	+0·9	78·0	+0·9	76·0	+1·0	78·0	+1·1			75·5	−0·1	77·0	+0·2	80·8	+0·1	84·4	−0·1	85·0	−0·2
27	82·3	+1·0	79·6	+1·0	76·3	+0·8	78·1	+1·1			74·5	+0·3	77·1	+0·3	83·5	+0·4	81·7	−0·3	84·7	+0·6
28	80·9	+1·1	80·0	+1·2	76·7	+0·8	75·6	+1·2			75·0	+0·4	79·0	+0·2	80·5	+0·2	85·6	+0·2	85·2	−0·4
29	79·9	+1·2	76·7	+0·9	75·0	+0·9	75·3	+0·9			74·7	+0·1	80·6	+0·4	81·4	+0·1	85·2	+0·1	86·4	−0·2
30	80·9	+0·7	79·9	+1·2	74·7	+0·9	76·2	+0·9			75·3	−0·1	79·2	+0·1	81·7	+0·2	85·9	+0·3	84·0	0·0
31	.....		81·3	+0·7			76·4	+0·9			75·8	0·0			82·2	+0·3			86·3	−0·2

READINGS of MINIMUM THERMOMETER (Casella No. 115511) placed in the THERMOGRAPH SCREEN; and EXCESS of the READINGS above the corresponding MINIMUM TEMPERATURES derived from the THERMOGRAMS.

Day of the Month.	1900. June. Reading.	June. Excess above Thermogram.	July. Reading.	July. Excess above Thermogram.	August. Reading.	August. Excess above Thermogram.	September. Reading.	September. Excess above Thermogram.	October. Reading.	October. Excess above Thermogram.	November. Reading.	November. Excess above Thermogram.	December. Reading.	December. Excess above Thermogram.	1901. January. Reading.	January. Excess above Thermogram.	February. Reading.	February. Excess above Thermogram.	March. Reading.	March. Excess above Thermogram.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
1			..	..	57·5	−0·5	65·7	−0·4	61·8	−0·1	59·8	−0·3	70·2	−0·8	72·4	−0·4	72·8	−0·7	70·7	−0·9
2			61·0	−0·4	62·0	−0·3	65·0	−0·2	67·8	−0·7	58·0	0·0	65·2	−1·0	73·2	−0·4	73·0	+0·7	70·7	−0·9
3			59·0	+0·1	61·0	−0·4	62·2	−0·5	67·0	−0·6	61·5	−0·4	65·0	−0·9	72·2	−0·5	74·0	0·0	72·0	−0·8
4			61·0	−0·1	59·0	−0·3	59·4	−0·5	62·9	−0·4	68·5	−0·6	69·5	−0·7	71·7	−0·3	72·1	−0·8	71·9	−0·6
5			62·7	−0·3	59·4	−0·4	61·0	−0·5	63·1	−0·7	65·8	−0·4	73·5	−0·6	70·4	−0·4	69·5	−0·7	74·2	−0·6
6			57·4	−0·1	58·4	−0·4	59·0	+0·3	64·9	−0·7	62·1	−0·8	72·0	−0·8	71·0	−0·6	68·8	−0·9	73·5	−0·7
7			66·0	+0·1	67·0	−0·4	58·8	−0·5	65·0	−0·8	66·0	−0·6	68·9	−0·9	71·0	−0·6	69·0	−0·9	73·4	−0·4
8			64·6	−0·3	60·2	−0·4	60·1	−0·8	63·0	−0·7	64·8	−0·3	67·0	−1·0	69·7	−0·5	68·5	−0·8	74·6	−0·5
9			63·0	−0·5	60·7	−0·3	62·0	−0·6	62·9	−0·7	64·6	−0·8	70·0	−0·8	70·0	−0·6	64·5	−0·9	73·7	−0·7
10			57·5	−0·3	53·5	−0·4	65·2	−0·4	65·0	−0·4	66·2	−0·7	68·5	−0·6	76·4	−1·3	64·0	+0·2	72·0	+0·2
11			58·2	−0·5	55·8	−0·7	59·2	−0·6	59·5	−0·5	64·2	−0·6	66·8	−0·9	77·6	−0·3	69·4	+0·1	..	..
12			55·7	−0·3	60·8	−0·2	66·9	−0·4	60·3	−0·6	68·9	−0·8	70·8	−0·8	76·1	+0·1	72·6	−0·5	69·1	−0·7
13			57·0	0·0	59·1	−0·4	65·0	−0·2	63·9	−0·4	66·0	−0·9	72·5	−0·5	71·0	−0·3	72·9	−0·6	69·0	−0·8
14			61·9	0·0	58·6	−0·3	55·8	−0·6	64·6	−0·4	63·9	−0·9	75·3	−0·4	75·3	−0·6	71·2	−0·6	70·4	−1·2
15			65·3	−0·4	52·2	−0·4	60·8	−0·5	60·7	−0·3	67·9	−0·7	68·3	−0·5	75·7	−0·8	70·7	−0·8	69·0	−0·9
16	62·2	−0·6	60·8	−0·3	50·3	−0·6	58·0	−0·2	66·0	−0·4	66·0	−1·0	70·2	−0·6	75·1	−0·6	72·9	−0·6	71·8	−0·8
17	58·3	−0·5	61·7	−0·2	60·6	−0·3	63·5	−0·5	65·2	−0·6	68·0	−0·7	70·7	−0·6	74·2	−0·6	73·1	−0·6	72·6	−0·4
18	59·5	−0·5	55·6	−0·5	62·0	−0·6	64·3	−0·5	65·0	−0·6	66·5	−0·4	71·4	−0·5	73·0	−0·6	73·4	−0·4	74·3	−0·9
19	58·2	−0·6	63·0	−0·5	63·2	−0·5	60·4	−0·4	66·0	−0·6	68·8	−0·4	71·5	−0·5	72·5	−0·7	73·4	−0·5	76·1	−1·6
20	53·6	−0·2	59·8	−0·1	59·0	−0·6	65·7	−0·3	63·8	−0·4	68·4	−0·6	70·7	−0·3	72·6	−0·2	71·8	−0·7	76·0	−0·9
21	61·5	−0·4	63·0	+1·0	61·0	−0·2	62·8	−0·3	59·0	−0·6	70·4	−0·5	68·0	−0·6	71·7	−0·2	73·2	−0·7	75·3	−0·7
22	57·0	−0·5	62·0	−0·7	63·9	−0·3	64·6	−0·3	58·2	−0·7	66·3	−0·6	68·1	−0·7	71·7	−0·3	65·8	−0·8	73·7	−0·8
23	60·6	−0·4	62·4	−0·3	66·1	−0·4	62·0	0·0	59·0	−0·4	71·0	−0·8	70·3	−0·6	71·0	−0·6	72·0	−0·7	73·0	−0·8
24	61·1	−0·4	58·5	−0·2	64·2	−0·6	57·5	−0·4	61·6	−0·7	69·4	−0·6	72·5	−0·7	71·9	−0·6	73·4	−0·4	74·5	−0·4
25	56·4	−0·3	61·5	−0·3	61·1	−0·5	59·2	−0·7	63·0	−0·7	66·5	−0·5	70·2	−0·7	77·4	−0·2	75·0	−0·8	72·0	−0·9
26	57·2	−0·5	56·5	−0·4	63·0	−0·6	59·3	−0·4	64·5	−0·4	68·2	−0·8	71·8	−0·5	72·0	+0·1	73·0	−0·9	71·7	−0·9
27	59·7	−0·4	61·0	−0·2	62·1	−0·7	53·3	−0·5	66·5	−0·6	66·6	−1·1	69·0	−1·0	74·0	−1·0	74·8	−0·8	72·4	−1·0
28	52·7	−0·1	59·4	−0·4	62·8	−0·4	59·8	−0·4	63·0	−0·5	68·5	−0·5	70·2	−0·7	71·0	−0·6	74·2	−0·8	70·3	−1·1
29	50·4	−0·4	61·7	−0·1	59·8	−0·2	59·1	−0·7	59·7	−0·7	67·6	−0·7	67·2	−0·8	69·8	−0·7			72·5	−1·1
30	51·3	−0·5	55·7	−0·2	59·0	−0·5	59·3	−0·7	64·8	−0·4	69·0	−0·8	70·0	−0·2	73·3	−0·4			71·8	−0·8
31			57·5	−0·4	64·7	−0·2			62·7	−0·3			69·4	−0·5	73·8	−0·5			70·0	−0·7

READINGS of MINIMUM THERMOMETER (Casella No. 115511) in the THERMOGRAPH SCREEN—*continued.*

Day of the Month.	1901. April. Reading.	April. Excess above Thermogram.	May. Reading.	May. Excess above Thermogram.	June. Reading.	June. Excess above Thermogram.	July. Reading.	July. Excess above Thermogram.	August. Reading.	August. Excess above Thermogram.	September. Reading.	September. Excess above Thermogram.	October. Reading.	October. Excess above Thermogram.	November. Reading.	November. Excess above Thermogram.	December. Reading.	December. Excess above Thermogram.
1	70°·4	−1°·0	66°·8	−2°·2	62°·4	−1°·9	65°·7	−1°·1	58°·3	−1°·2	58°·4	−1°·4	58°·6	−1°·2	65°·5	−1°·3	69°·9	−1°·3
2	68·7	−1·0	71·2	−2·5	58·6	−1·2	65·5	−1·5	62·6	−1·3	60·1	−1·5	60·0	−1·0	67·0	−1·1	71·0	−1·4
3	70·9	−0·9	72·9	−2·2	66·6	−3·4	66·7	−1·1	60·7	−1·5	61·0	−1·3	66·7	−1·7	62·7	−1·3	73·0	−1·5
4	74·1	−0·8	74·2	−1·1	68·9	−1·9	68·0	−1·1	62·8	−1·0	61·2	−1·4	65·9	−0·9	61·4	−1·3	70·7	−1·3
5	73·7	−0·7	69·0	−1·9	64·3	−1·8	66·3	−1·3	63·0	−1·1	61·2	−1·5	62·5	−1·4	66·6	−1·2	71·0	−0·9
6	70·6	−1·0	70·4	−1·7	66·6	−2·1	66·7	−1·2	62·9	−1·2	56·8	−1·5	64·8	−0·9	65·5	−1·5	73·0	−1·5
7	72·0	−0·8	61·9	−0·8	66·4	−2·0	62·9	−1·1	66·0	−1·3	60·6	−1·3	64·5	−1·1	64·0	−1·5	65·2	−1·5
8	69·0	−0·8	65·9	−2·0	65·0	−1·8	58·1	−1·5	65·3	−0·8	57·5	−1·3	58·0	−1·2	65·6	−1·3	66·0	−1·4
9	69·5	−0·9	64·4	−1·9	64·7	−1·3	59·8	−1·6	59·0	−1·0	64·3	−1·3	59·5	−1·2	62·0	−1·3	66·0	−1·9
10	69·5	−1·1	67·9	−2·6	63·5	−1·3	58·0	−1·3	56·0	−1·1	63·3	−1·2	57·5	−0·8	69·5	−1·4	67·3	−1·2
11	72·5	−1·0	66·3	−1·9	60·2	−1·5	59·8	−1·3	55·0	−1·7	63·8	−1·2	60·8	−1·2	66·5	−1·2	71·8	−1·4
12	73·0	−0·9	65·6	−2·1	57·0	−3·8	60·7	−1·3	56·4	−1·3	63·2	−1·5	66·5	−1·7	67·4	−1·7	72·2	−1·3
13	71·0	−1·3	67·9	−2·1	58·8	−0·8	55·7	−1·4	57·0	−1·6	63·2	−1·1	68·0	−1·2	65·3	−1·4	71·0	−1·2
14	70·8	−0·9	66·1	−1·9	56·6	−1·8	63·2	−1·4	60·1	−0·2	61·8	−1·1	69·6	−1·0	64·6	−1·3	70·4	−1·4
15	66·6	−1·2	68·6	−2·0	62·0	−1·5	62·5	−1·3	61·3	−1·3	62·1	−1·3	67·9	−0·9	62·9	−1·4	69·0	−1·2
16	68·2	−0·9	65·1	−2·1	61·0	−1·5	54·2	−1·7	61·0	−1·4	57·8	−1·5	67·3	−1·3	66·6	−1·3	70·0	−1·3
17	61·5	−1·1	63·3	−2·0	60·9	−1·2	59·0	−1·2	62·5	−1·2	56·0	−1·1	66·9	−1·2	67·4	..	69·2	−1·4
18	60·2	−1·0	63·4	−1·5	62·4	−1·6	59·3	−1·5	60·8	−1·1	63·8	−0·7	66·8	−1·1	65·8	..	67·0	−1·4
19	63·8	−0·8	70·2	−2·5	57·0	−1·6	62·5	−1·3	57·6	−1·1	56·8	−1·2	62·3	−1·3	67·7	−1·6	70·5	−1·3
20	69·6	−1·0	70·5	−1·4	57·7	−1·5	62·1	−1·4	63·3	−1·2	57·0	−1·3	63·0	−1·3	66·5	−1·4	73·1	−1·0
21	69·7	−0·9	69·9	−1·5	62·4	−1·2	59·0	−1·9	63·6	−1·3	62·0	−1·4	65·3	−1·4	67·2	−1·4	71·0	−0·9
22	70·1	−1·9	65·4	−2·1	59·0	−1·2	61·6	−1·4	62·7	−1·5	58·4	−1·1	67·1	−1·3	66·8	−1·4	69·4	−1·1
23	70·7	−1·7	64·7	−2·0	58·0	−1·5	63·4	−1·0	60·7	−1·1	65·2	−1·8	69·0	−1·3	68·0	−1·7	70·0	−1·0
24	65·6	−2·1	69·0	−2·0	61·0	−1·0	56·9	−1·6	59·6	−1·4	62·7	−0·8	65·7	−1·1	65·6	−1·4	69·0	−1·2
25	64·6	−2·1	65·8	−2·0	59·8	−1·0	57·9	−1·2	59·8	−1·4	64·4	−1·3	60·0	−1·3	61·8	−2·5	68·1	−1·0
26	64·7	−1·8	65·0	−1·9	58·9	−1·1	61·5	−1·3	62·0	−1·5	63·7	−1·1	66·2	−1·3	68·6	−1·3	69·5	−1·1
27	66·0	−1·9	56·0	−1·2	62·8	−1·3	63·9	−1·2	62·0	−1·2	61·4	−1·2	67·2	−1·4	67·7	−1·3	70·9	−0·9
28	69·2	−2·0	63·2	−2·1	65·3	−1·3	62·8	−1·2	60·2	−1·4	53·8	−1·1	67·5	−1·1	63·4	−1·4	70·1	−1·0
29	64·9	−0·6	62·3	−1·9	67·7	−1·1	60·9	−1·3	62·3	−1·4	55·2	−1·1	61·2	−1·4	63·3	−1·3	69·3	−1·1
30	67·5	−2·1	67·0	−1·0	67·0	−1·7	59·9	−1·2	62·0	−1·4	56·0	−1·2	66·6	−1·1	67·4	−1·2	71·8	−0·7
31			61·8	−2·1			62·2	−1·3	60·1	−1·2			67·0	−1·3			72·5	−1·0

MONTHLY SUMMARY.

Month.	Mean Excess above Thermograph.	Residuals. Mean.	Residuals. Maximum.
MAXIMUM THERMOMETER No. 15447.			
1900.	°	°	°
June - -	+0·71	±0·15	0·3
July - -	+0·76	±0·23	0·6
August - -	+0·77	±0·17	0·5
September -	+0·73	±0·24	0·7
October 1–20 -	+0·77	±0·17	0·7
MAXIMUM THERMOMETER No. 52401.			
1900.			
October 22–31 -	+0·94	±0·11	0·2
November -	+1·05	±0·13	0·4
December - -	+1·02	±0·17	0·6
1901.			
January -	+1·09	±0·14	0·6
February - -	+1·07	±0·12	0·6
March - -	+0·98	±0·13	0·4
April - -	+0·98	±0·09	0·4
May - -	+0·93	±0·14	0·4
June - -	+0·85	±0·13	0·5
July - -	+0·87	±0·12	0·3
August 1–16 -	+0·94	±0·24	0·8
MAXIMUM THERMOMETER No. 122504.			
1901.			
August 17–31 -	+0·03	±0·19	0·5
September -	+0·28	±0·16	0·6
October -	+0·26	±0·20	0·5
November -	+0·10	±0·22	0·5
December -	−0·04	±0·19	0·6

Month.	Mean Excess above Thermograph.	Residuals. Mean.	Residuals. Maximum.
MINIMUM THERMOMETER No. 115511.			
1900.	°	°	°
June - -	−0·42	±0·10	0·3
July - -	−0·23	±0·20	1·2
August - -	−0·42	±0·11	0·3
September -	−0·42	±0·16	0·7
October - -	−0·54	±0·15	0·4
November -	−0·62	±0·18	0·6
December -	−0·67	±0·16	0·5
1901.			
January -	−0·47	±0·20	0·8
February - -	−0·57	±0·26	1·3
March - -	−0·78	±0·20	1·0
April - -	−1·21	±0·40	0·9
May - -	−1·88	±0·30	1·1
June - -	−1·60	±0·42	2·2
July - -	−1·33	±0·14	0·4
August - -	−1·24	±0·19	1·0
September -	−1·26	±0·16	0·6
October -	−1·21	±0·15	0·5
November -	−1·37	±0·10	0·3
December - -	−1·22	±0·19	0·7

What may be termed the true working error of maximum thermometer No. 15447 varied from + 0°·71 to + 0°·77 during the period 1900 June to October; while comparisons with the Observatory Standard, at an angle of about 30° with the horizon, gave + 0°·27 as the error on 1900 June 12, and + 0°·42 on 1900 December 13.

The true working error of maximum thermometer No. 52401 varied from + 0°·85 to + 1°·09 during the period 1900 October to 1901 August; while comparisons with the Observatory Standard gave + 0°·16, + 0°·29, and + 0°·30, as the errors on 1900 December 13, 1901 June 8, and 1901 December 17, respectively.

The true working error of maximum thermometer No. 122504 varied from + 0°·28 to − 0°·04 during the period 1901 August to December; while comparisons with the Observatory Standard gave − 0°·74 as the error on 1901 December 17.

The true working error of minimum thermometer No. 115511 varied from $-0^\circ\cdot23$ to $-1^\circ\cdot88$ during the period 1900 June to 1901 December; while comparisons with the Observatory Standard gave $-0^\circ\cdot06$, $-0^\circ\cdot05$, $-1^\circ\cdot29$, and $-0^\circ\cdot83$, as the errors on 1900 June 11, 1900 December 13, 1901 June 8, and 1901 December 17.

The investigation points to the following conclusions:—

(*a*) Given the error of a well-constructed Phillips's maximum thermometer in a horizontal position, its indications are reliable to within a few tenths of a degree Fahrenheit.

(*b*) Maximum thermometers read higher in a horizontal position than when inclined to the horizon. The excess may amount to $1^\circ\cdot0$ Fahrenheit.

(*c*) The indications of spirit minimum thermometers are unreliable, their errors varying occasionally two and three degrees, Fahrenheit, from day to day, owing to evaporation of the spirit, and possibly to other causes. They should be used in conjunction with an ordinary mercurial thermometer, and their errors determined from simultaneous readings near the time of minimum temperature.

There is no reason to suppose that the minimum thermometer used in the investigation is not a fair specimen of its class. It is by Casella, and when examined at the Kew Observatory in 1899 April, had an error of $-0^\circ\cdot1$ at 12° and no error between 22° and 72°, Fahrenheit.

T. F. CLAXTON.

ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

MAGNETICAL OBSERVATIONS.

1901.

TABLE I.—DETERMINATIONS of ABSOLUTE MAGNETIC DECLINATION in the YEAR 1901.

Mauritius Civil Time, 1901.	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).
		° ′	′	′	° ′	° ′	° ′	′	° ′	° ′	° ′	′	° ′
Jan. d h m 9. 8.36	W.	76.39·58	+16·73	0·00	76.56·31	86.24·71	9.28·40	−8·00	9.20·40				
9.15.12	W.	76.48·54	+16·34	0·00	77. 4·88	86.24·71	9.19·83	0·00	9.19·83	9.21·56	9.21·49	3·79	9.25·28
24. 8.33	F.	76.37·08	+15·83	+0·59	76.53·50	86.27·15	9.33·65	−9·00	9.24·65				
24.15. 8	F.	76.50·67	+14·33	+0·39	77. 5·39	86.27·15	9.21·76	−0·40	9.21·36				
Feb. 8. 8.33	O.	76.41·75	+15·88	+1·88	76.59·51	86.27·55	9.28·04	−6·80	9.21·24				
8.15.39	O.	76.49·08	+16·36	+0·09	77. 5·53	86.27·55	9.22·02	+0·60	9.22·62				
11. 9.29	O.	76.40·00	+18·88	+0·98	76.59·86	86.27·46	9.27·60	−3·10	9.24·50				
11.16. 9	O.	76.48·33	+16·05	+0·71	77. 5·09	86.27·46	9.22·37	0·00	9.22·37	9.22·16	9.22·00	2·53	9.24·53
25. 9.19	W.	76.43·92	+15·36	+1·10	77. 0·38	86.27·83	9.27·45	−5·80	9.21·65				
26.10.13	W.	76.48·12	+16·04	0·00	77. 4·16	86.27·89	9.23·73	−2·70	9.21·03				
26.14.44	W.	76.53·92	+15·52	−0·34	77. 9·10	86.27·89	9.18·79	+2·90	9.21·69				
March 7. 8.58	F.	76.43·67	+14·83	+0·37	76.58·87	86.26·84	9.27·97	−5·10	9.22·87				
7.15.10	F.	76.51·00	+15·75	+0·23	77. 6·98	86.26·84	9.19·86	+2·60	9.22·46	9.22·70	9.21·68	1·64	9.23·32
27. 8.55	F.	76.42·17	+15·81	+0·55	76.58·53	86.27·21	9.28·68	−5·90	9.22·78				
April 11. 9.25	O.	76.56·83	+15·75	+0·69	77.13·27	86.39·32	9.26·05	−6·00	9.20·05				
11.14.29	O.	77. 0·67	+16·52	+0·60	77.17·79	86.39·32	9.21·53	−0·60	9.20·93	9.19·56	9.20·86	2·75	9.23·61
24. 8.41	O.	77. 1·33	+16·10	−1·08	77.16·35	86.39·39	9.23·04	−3·90	9.19·14				
24.15.39	O.	77. 4·67	+16·82	−0·33	77.21·16	86.39·39	9.18·23	−0·10	9.18·13				
May 8. 8.56	F.	76.55·83	+18·90	−0·49	77.14·24	86.38·34	9.24·10	−4·10	9.20·00				
8.15.14	F.	77. 2·88	+16·04	−0·36	77.18·56	86.38·34	9.19·78	0·00	9.19·78	9.21·15	9.20·67	1·63	9.22·30
29. 8.50	F.	76.57·33	+17·02	−0·23	77.14·12	86.38·70	9.24·58	−1·00	9.23·58				
29.15.36	F.	77. 2·00	+15·07	+0·69	77.17·76	86.38·70	9.20·94	+0·30	9.21·24				
June 14.10.23	W.	77. 3·46	+14·18	−0·23	77.17·41	86.38·07	9.20·66	−1·00	9.19·66				
14.13.48	W.	77. 0·67	+16·49	+0·56	77.17·72	86.38·07	9.20·35	0·00	9.20·35				
18. 8.46	W.	77. 1·79	+15·66	0·00	77.17·45	86.38·37	9.20·92	−0·30	9.20·62	9.20·69	9.20·81	0·57	9.21·38
25. 8.50	O.	77. 3·33	+14·77	−1·94	77.16·16	86.38·42	9.22·26	−0·90	9.21·36				
25.16. 9	O.	77. 0·67	+17·15	−0·38	77.17·44	86.38·42	9.20·98	+0·50	9.21·48				

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

TABLE I.—*continued*—DETERMINATIONS of ABSOLUTE MAGNETIC DECLINATION in the YEAR 1901.

Mauritius Civil Time, 1901.	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		° ′	′	′	° ′	° ′	° ′	′	° ′	° ′	° ′	′	° ′
July	No determinations of Absolute Magnetic Declination were made in July.										9.20·81	0·88	9.21·69
Aug. 12. 9.38	W.	76.57·58	+16·82	+0·54	77.14·94	86.37·79	9.22·85	−2·00	9.20·85				
12.13.24	W.	77. 0·83	+16·46	−0·13	77.17·16	86.37·79	9.20·63	−0·20	9.20·43				
28. 9. 6	O.	77. 1·75	+15·96	+0·13	77.17·84	86.40·80	9.22·96	−1·20	9.21·76	9.20·93	9.20·79	0·17	9.20·96
28.13.31	O.	77. 4·50	+16·25	+0·35	77.21·10	86.40·80	9.19·70	+1·00	9.20·70				
Sept. 9.10.38	W.	77. 1·46	+15·12	−0·16	77.16·42	86.40·20	9.23·78	−2·80	9.20·98				
9.13.35	W.	77. 3·25	+16·02	−0·52	77.18·75	86.40·20	9.21·45	−1·00	9.20·45				
24.10.53	W.	77. 1·97	+15·43	+0·51	77.17·91	86.40·53	9.22·62	−2·00	9.20·62	9.20·56	9.20·58	−0·29	9.20·29
24.13.41	W.	77. 4·38	+15·46	0·00	77.19·84	86.40·53	9.20·69	−0·50	9.20·19				
Oct. 10.10.44	W.	77. 2·46	+16·24	0·00	77.18·70	86.40·27	9.21·57	−0·70	9.20·87				
10.14.42	W.	77.10·58	+15·40	−0·28	77.25·70	86.40·27	9.14·57	+4·80	9.19·37				
26.10. 0	W.	77. 3·37	+15·60	0·00	77.18·97	86.40·31	9.21·34	−0·10	9.21·24	9.20·33	9.20·45	−1·11	9.19·34
26.13.52	W.	77. 7·67	+15·70	0·00	77.23·37	86.40·31	9.16·94	+2·90	9.19·84				
Nov. 25.13. 8	W.	77·10·29	+15 58	0·00	77.25·87	86.41·79	9.15·92	+7·00	9.22·92				
27.10. 4	W.	77. 3·58	+15·88	0·00	77.19·46	86.41·99	9.22·53	+0·80	9.23·33				
28.11.50	W.	77. 8·13	+16·09	0·00	77.24·22	86.41·60	9.17·38	+5·80	9.23 18	9.22·78	9.20·45	−1·80	9.18·65
29.10. 4	W.	77. 3·54	+16·05	−0·28	77.19·31	86.41·09	9.21·78	−0·10	9.21·68				
Dec. 16.10. 9	W.	77. 5·06	+15·74	+0·26	77.21·06	86.42·19	9.21·13	+0·60	9.21·73				
16.15.30	W.	77. 8·92	+15·93	0·00	77.24·85	86.42·19	9.17·34	+5·50	9.22·84				
30. 9.39	W.	77. 3·50	+15·90	+0·39	77.19·79	86.41·60	9.21·81	+0·50	9.22·31	9.22·31	9.20·24	−2·36	9.17·88
30.14.33	W.	77.10·92	+15·13	−0·13	77.25·92	86.41·60	9.15·68	+6·70	9.22·38				
Mean	..	..	..	..	..	..	..	..	..	..	..	..	9.21·60

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

TABLE II.—DETERMINATIONS of the ABSOLUTE VALUE of HORIZONTAL MAGNETIC FORCE in the YEAR 1901.

Mauritius Civil Time, 1901.		Deflecting Magnet.				Observed Deflection.		Temperature Centigrade.	Observer.
		Observed Time of one Vibration.	Effect of 90° Torsion.	Temperature Centigrade.	Corrected Time of one Vibration.	Distance. 1·0 Foot.	Distance. 1·3 Foot.		
	d h	Secs.	′	°	Secs.	° ′ ″	° ′ ″	°	
January	9.12	3·7381	4·40	30·6	3·7224	13.38.37·5	6.10.35·0	29·9	W.
	9.14	3·7396	4·40	31·7	3·7231	13.38.25·0	6.10.21·2	30·8	W.
	24.11	3·7408	3·22	29·0	3·7258	13.39.45·0	6.11. 0·0	28·6	F.
	24.14	3·7399	3·22	29·8	3·7244	13.39.35·0	6.10.50·0	29·6	F.
February	8.11	3·7366	3·31	28·0	3·7224	13.38.50·0	6.10.42·5	27·9	O.
	8.14	3·7380	3·19	28·9	3·7231	13.38.50·0	6.10.37·5	28·9	O.
	25.12	3·7385	3·22	30·2	3·7227	13.38.10·0	6.10.28·7	29·7	W.
	25.15	3·7402	3·22	29·3	3·7249	13.39.55·0	6.11. 0·0	28·7	W.
March	7.12	3·7391	3·42	30·2	3·7233	13.38.57·5	6.11. 2·5	30·2	F.
	7.14	3·7394	3·24	30·0	3·7237	13.38.32·5	6.10.40·0	29·8	F.
	28.12	3·7375	3·18	24·2	3·7259	13.40.42·5	6.12.15·0	24·2	F.
	28.14	3·7388	3·05	25·0	3·7267	13.40.47·5	6.11.32·5	25·0	F.
April	10.13	3·7392	3·33	28·8	3·7244	13.39.45·0	6.11.13·7	28·9	O.
	10.16	3·7393	3·18	29·0	3·7243	13.40.12·5	6.10.57·5	29·5	O.
	24 12	3·7384	3·70	25·7	3·7261	13.41. 5·0	6.11.40·0	25·7	O.
	24.15	3·7390	2·78	26·7	3·7256	13.41.17·5	6.11. 5·0	26·7	O.
May	8.12	3·7366	4·25	24·6	3·7253	13.40.30·0	6.11.57·5	24·6	F.
	8.14	3·7380	4·25	25·0	3·7263	13.41.13·7	6.11.43·7	25·1	F.
	29.12	3·7366	3·74	24·2	3·7254	13.40.53·7	6.12. 1·2	24·6	F.
	29.14	3·7365	3·88	24·2	3·7254	13.40.40·0	6.11.31·2	24·3	F.
June	14.12	3·7380	4·24	23·8	3·7272	13.43.51·2	6.12.35·7	22·6	W.
	18.12	3·7369	3·87	24·4	3·7255	13.41.32·5	6.12. 1·2	23·4	W.
	25.13	3·7325	1·85	23·4	3·7212	13.42. 2·5	6.12. 1·2	23·0	O.
	28.12	3·7345	1·80	24·1	3·7225	13.40.40·0	6.11.37·5	24·0	F.
July	16.12	3·7332	2·03	21·1	3·7236	13.41.40·0	6.12. 7·5	20·6	F.
	16.14	3·7366	2·03	21·4	3·7266	13.41.42·5	6.11.38·7	21·2	F.
	31.10	3·7360	1·99	21·4	3·7261	13.42.28·7	6.12.25·0	21·2	O.
	31.14	3·7368	2·03	23·7	3·7253	13.41. 0·0	6.11.40·0	23·6	O.
August	13.12	3·7368	2·28	22·1	3·7265	13.42. 7·5	6.12.20·0	21·2	W.
	13.14	3·7367	2·28	23·1	3·7256	13.41.23·7	6.12.18·7	22·1	W.
	26.13	3·7372	1·76	23·2	3·7260	13.41.57·5	6.11.32·5	22·9	O.
	26.15	3·7382	2·17	23·5	3·7267	13.41.17·5	6.11.32·5	23·5	O.
September	12.12	3·7398	1·85	25·4	3·7270	13.40.51·2	6.11.38·7	24·6	W.
	12.15	3·7420	2·16	26·1	3·7289	13.41.15·0	6.11.50·0	25·3	W.
	25.12	3·7383	2·18	24·7	3·7261	13.40.37·5	6.11.33·7	24·1	W.
	25.15	3·7406	2·18	25·5	3·7279	13.41. 8·7	6.11.32·5	24·7	W.
October	14.12	3·7425	2·22	27·2	3·7285	13.40.23·7	6.10.56·2	26·9	W.
	14.14	3·7438	2·22	28·5	3·7288	13.40.15·0	6.11. 6·2	27·8	W.
	28.13	3·7409	2·26	26·6	3·7274	13.40.23·7	6.11.22·5	25·7	W.
	28·15	3·7410	2·25	26·7	3·7274	13.39.56·2	6.11.31·2	26·2	W.
November	26.12	3·7416	2·31	28·6	3·7267	13.39.42·5	6.10.47·5	26·8	W.
	27.13	3·7410	2·31	28·1	3·7264	13.39.12·5	6.10.40·0	27·0	W.
	29.15	3·7436	2·18	28·0	3·7290	13.40.17·5	6.11.18·7	27·3	W.
December	17.12	3·7424	2·29	27·7	3·7280	13.39.21·2	6.10.52·5	26·8	W.
	17.16	3·7438	2·29	28·2	3·7291	13.39.53·7	6.11. 3·7	27·2	W.
	31.10	3·7462	2·05	28·3	3·7313	13.39. 1·2	6.11.20·0	27·4	W.
	31.15	3·7469	2·05	29·4	3·7312	13.40. 3·7	6.11.15·0	29·0	W.

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

TABLE II.—*continued*—DETERMINATIONS of the ABSOLUTE VALUE of HORIZONTAL MAGNETIC FORCE in the YEAR 1901.

Mauritius Civil Time, 1901.	In Metric Measure (C.G.S. Unit).											In English Measure (F.G.S. Unit).
	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.	Adopted Monthly Value of the Base Line.	Mean Ordinate for the Month.	Value of Horizontal Force *X*.	Value of Horizontal Force *X*.
Jan. d h 9.12	0·00083	−4·35		809·4	0·23842	0·00092	0·23750					
9.14	0·00066	−3·46		809·3	0·23838	0·00094	0·23744	0·23748	0·23747	0·00084	0·23831	5·1685
24.11	0·00073	−3·82		809·0	0·23812	0·00067	0·23745					
24.14	0·00062	−3·25		809·3	0·23820	0·00065	0·23755					
Feb. 8.11	0·00086	−4·51		809·2	0·23848	0·00098	0·23750					
8.14	0·00077	−4·03		809·2	0·23841	0·00083	0·23758	0·23748	0·23748	0·00074	0·23822	5·1665
25.12	0·00095	−4·98		809·2	0·23846	0·00097	0·23749					
25.15	0·00065	−3·41		809·2	0·23816	0·00079	0·23737					
March 7.12	0·00120	−6·29		809·6	0·23825	0·00070	0·23755					
7.14	0·00096	−5·03		809·2	0·23833	0·00078	0·23755	0·23749	0·23751	0·00066	0·23817	5·1654
28.12	0·00168	−8·80		809·0	0·23807	0·00068	0·23739					
28.14	0·00082	−4·30		808·6	0·23808	0·00059	0·23749					
April 10.13	0·00099	−5·19		809·4	0·23816	0·00063	0·23753					
10.16	0·00045	−2·36		809·5	0·23814	0·00055	0·23759	0·23758	0·23757	0·00054	0·23811	5·1641
24.12	0·00081	−4·24		809·0	0·23805	0·00056	0·23749					
24.15	0·00002	−0·10		809·0	0·23811	0·00040	0·23771					
May 8.12	0·00145	−7·60		809·0	0·23815	0·00041	0·23774					
8.14	0·00082	−4·30		809·0	0·23803	0·00027	0·23776	0·23765	0·23765	0·00040	0·23805	5·1628
29.12	0·00131	−6·86		809·1	0·23810	0·00062	0·23748					
29.14	0·00086	−4·51		808·8	0·23821	0·00059	0·23762					
June 14.12	0·00045	−2·36		809·4	0·23778	0·00021	0·23757					
18.12	0·00099	−5·19		809·0	0·23810	0·00049	0·23761	0·23773	0·23769	0·00045	0·23814	5·1648
25.13	0·00072	−3·77		810·0	0·23836	0·00052	0·23784					
28.12	0·00098	−5·13	−4·40	809·3	0·23839	0·00050	0·23789					
July 16.12	0·00104	−5·45		809·0	0·23834	0·00058	0·23776					
16.14	0·00046	−2·41		808·2	0·23818	0·00059	0·23759	0·23765	0·23766	0·00044	0·23810	5·1639
31.10	0·00095	−4·98		808·9	0·23804	0·00048	0·23756					
31.14	0·00085	−4·45		808·8	0·23821	0·00051	0·23770					
August 13.12	0·00104	−5·45		808·7	0·23805	0·00042	0·23763					
13.14	0·00140	−7·34		808·9	0·23812	0·00054	0·23758	0·23763	0·23763	0·00041	0·23804	5·1626
26.13	0·00021	−1·10		808·7	0·23814	0·00046	0·23768					
26.15	0·00057	−2·99		808·4	0·23811	0·00048	0·23763					
Sept. 12.12	0·00090	−4·72		808·5	0·23806	0·00045	0·23761					
12.15	0·00092	−4·82		808·4	0·23785	0·00019	0·23766	0·23760	0·23760	0·00038	0·23798	5·1613
25.12	0·00093	−4·87		808·5	0·23817	0·00059	0·23758					
25.15	0·00063	−3·30		808·4	0·23800	0·00043	0·23757					
Oct. 14.12	0·00031	−1·62		808·2	0·23799	0·00038	0·23761					
14.14	0·00060	−3·14		808·3	0·23792	0·00033	0·23759	0·23755	0·23757	0·00042	0·23799	5·1616
28.13	0·00083	−4·35		808·4	0·23806	0·00053	0·23753					
28.15	0·00123	−6·44		808·9	0·23790	0·00044	0·23746					
Nov. 26.12	0·00050	−2·62		808·3	0·23820	0·00058	0·23762					
27.13	0·00062	−3·25		808·2	0·23826	0·00064	0·23762	0·23758	0·23755	0·00045	0·23800	5·1618
29.15	0·00081	−4·24		808·3	0·23790	0·00040	0·23750					
Dec. 17.12	0·00080	−4·19		808·0	0·23812	0·00051	0·23761					
17.16	0·00072	−3·77		808·0	0·23796	0·00039	0·23757	0·23753	0·23751	0·00042	0·23793	5·1602
31.10	0·00150	−7·86		807·5	0·23783	0·00032	0·23751					
31.15	0·00084	−4·40		808·1	0·23769	0·00027	0·23742					
Means	..	..	..	..	..	..	..	..	..	..	0·23809	5·1636

TABLE III.—RESULTS of OBSERVATIONS of MAGNETIC DIP made in the MAGNETIC PAVILION in the YEAR 1901.

NEEDLE No. 1.

Mauritius Civil Time, 1901.		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.	Means.	Observer.
	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	4.12	54.53·0	52. 9·8	54.46·3	52.10·2	53.15·2	56. 9·2	53.35·4	55.59·3	54. 7·3	F.
	31.16	54.58·3	52. 9·2	54.49·0	52.13·3	53.18·0	56.24·7	53.40·5	56. 4·0	54.12·1	O.
February	2. 7	54.44·5	52.19·2	55. 3·2	51.58·0	53.15·0	56.30·5	53.44·0	56. 8·2	54 12·8	O.
	28.13	54.41·3	52.11·7	55. 0·5	51.47·2	53.19·0	56.10·0	53.41·0	55.56·7	54. 5·9	O.
March	2.10	54.51·7	52.12·8	54.57·3	52. 4·8	53.18·5	56.23·7	53.40·0	56.10·3	54.12·4	F.
	30.10	54.47·5	52.19·6	54.55·9	52.11·8	53.26·0	56. 2·6	53.38·1	55.54·9	54. 9·5	F.
April	3.16	54.29·2	52.35·0	54.48·8	52.14·7	53.27·5	55.53·5	53.44·0	55.37·7	54. 6·3	O.
	29.10	54.55·2	51.53·0	54.55·0	52. 9·0	53.24·5	56.11·0	53.43·3	55.56·5	54. 8·4	F.
May	2.12	54.55·3	52.18·8	54.48·5	52.10·8	53.26·0	56. 9·3	53.42·8	55.49·9	54.10·2	F.
	30.12	54.51·5	52.12·7	54.48·5	52.10·0	53.21·8	55.54·7	53.30·7	55.51·2	54. 5·1	F.
June	3.12	54.44·3	52.32·8	54.53·7	52.31·2	53.15·8	55.49·3	53.37·0	55.46·0	54. 8·8	F.
	28.14	54.45·0	52.15·0	54·51·0	52. 8·3	53. 8·4	56. 4·8	53.20·0	56. 5·2	54. 4·7	F.
July	3. 9	54.37·5	52. 2·7	54.46·5	51.42·3	53.24·2	56.17·8	53.42·0	55.47·5	54. 2·6	O.
	29.10	54.47·5	52.22·8	54.48·7	52 18·8	53.21·8	56. 3·5	53.33·9	55.53·3	54. 8·8	F.
August	3.15	54.44·7	52.21·7	54.56·9	52.10·0	53.19·7	56. 3·7	53.34·7	56.11·7	54.10·4	O.
	30.14	54.53·8	52.11·5	54.56·1	52. 4·5	53.13·8	56. 3·4	53.32·5	55.50·8	54. 5·8	F.
September	2.12	54.47·5	52.15·2	54.51·8	52.12 3	53.19·3	55.54·7	53.28·3	55.48·2	54. 4·7	F.
	28.12	54.47·2	52.18·7	55. 7·0	51.55·0	53.23·7	56.18·0	53.36·0	55.50·3	54. 9·5	O.
October	2.13	54.50·3	52.33·8	54.54·0	52.17·3	53.16·5	56. 4·3	53.28·2	55.54·5	54. 9·9	F.
	29.10	54 47·7	52.10·8	54.49·2	52. 5·8	53.19·8	56.10·5	53.28·3	55.54·7	54. 5·9	F.
November	2.12	54.41·5	52.15·0	54.48·1	52. 7·0	53.22·2	56. 0·4	53.25·6	55.52·4	54. 4·0	F.
	30. 8	54.57·5	52.23·7	54.59·5	52.11·7	53.30·5	56.17·0	53.31·0	54.55·0	54. 5·7	O.
December	2.12	54.38·5	52.12·0	54.46·2	52.12·1	53.24·3	55.49·8	53.33 3	55.55·8	54. 4·0	F.
	28.11	54.49·2	52.17·5	54.51·2	52.12·6	53.28·9	56. 1·1	53.45·1	55.47·5	54. 9·1	F.

NEEDLE No. 2.

	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	7.14	53.59·3	54.24·8	54.12·8	54.10·9	54. 7·3	54. 5·7	54.19·2	53.59·5	54. 9·9	F.
	29.16	54. 2·7	54.50 5	54.17·5	54. 0·2	53.56·5	54.11·2	54.19·0	53.55·0	54.11·6	O.
February	6.12	53.59·3	54.37·8	54.14·8	54·22·5	54. 0·0	54.12·5	54.14·5	54. 3·0	54.13·0	F.
	26.12	54. 8·8	54.25·3	54.25·8	54. 6·8	54. 7·5	54. 2·2	54.22·2	53.58·5	54.12·1	W.
March	6.10	54. 7·5	54.25·0	54.15·3	54. 8·8	54. 4·8	54.12·3	54. 8·9	54. 1·0	54.10·4	F.
	25.12	54.10·0	54.17·7	54.13·8	54.10·7	54. 6·5	54. 1·5	54.14·2	53.59·1	54. 9·2	F.
April	6.13	54. 2·5	54.11·3	54.19·0	54. 3·0	54. 1·5	54.17·5	54.14·0	54. 1·0	54. 8·7	O.
	26.14	54. 4·5	54.16·7	54.18·0	54. 5·3	54. 8·7	53.58·0	54. 1·0	53.59·7	54. 6·5	F.
May	6.14	54. 4·7	54.14·2	54.21·0	53.56·7	54. 6·5	53.46·8	54.16·5	53.52·5	54. 4·9	O.
	24.13	54. 2·3	54.24·5	54.10·8	54. 9·5	54. 4·3	54.10·2	54. 9·0	54. 5·3	54. 9·4	F.
June	7.12	54. 7·7	54.28·8	54.11·3	54. 9·7	54. 6·5	54. 0·0	54.16·6	53.55·0	54. 9·4	F.
	24.14	53.53·0	54.33·2	54. 5·2	54.15·8	53.56·3	54.15·0	54.10·7	53.52·0	54. 7·6	O.
July	6.12	53.57·0	54.28·6	54.14·2	53.58·2	53.47·2	54.13·1	54. 6·7	54. 2·0	54. 5·9	O.
	24.13	54. 0·5	54.14·8	54.11·5	54.14·0	54. 3·7	54. 2·5	54. 5·5	54. 1·3	54. 6·7	F.
August	6.13	54. 1·5	54.22·0	54.11·0	54.17·3	54. 3·2	54. 6·5	53.58·5	54. 0·2	54. 7·5	F.
	27.12	53 59·7	54.18·8	54. 5·2	54.14·7	54. 6·8	54. 2·7	54. 8·0	53.52·8	54. 6·1	F.
September	7.13	53.59·0	54.15·7	54.12·7	54. 9·3	53.57·2	54.11·5	54. 9·2	53.55·0	54. 6·2	O.
	25.16	54. 5·7	54.27·0	53.34·5	54.41·8	53.55·2	53.54·0	53.57·5	54. 2·7	54. 4·8	O.
October	7.14	54. 2·0	54. 9·5	54.13·0	53.56·5	53.56·5	54.12·0	54. 6·8	53.53·3	54. 3·7	O.
	24.13	54. 3·0	54.12·5	54.16·0	53.55·5	53.52·0	54.12·0	54. 3·1	53.55·5	54. 3·7	O.
November	7. 9	54. 0·3	54.19·3	54.14·2	54. 7·7	53.54·3	54.10·8	53.59·0	54. 3 5	54. 6·1	O.
	28. 9	54. 1·3	54.15·3	54. 8 0	54.11·0	54. 4·3	54. 2·2	54. 7·7	53.58·0	54. 6·0	F.
December	6. 9	54. 2·5	54.10·7	54.15·0	54.12·3	54. 4·0	54. 1·0	54. 6·4	53.58·1	54. 6·2	F.
	24.12	54. 2·7	54.13·7	54. 5·2	54. 8·3	54. 4·0	54. 6·2	54. 9·0	54. 0·1	54. 6·1	F.

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

TABLE III.—(*continued*)—RESULTS of OBSERVATIONS of MAGNETIC DIP made in the MAGNETIC PAVILION in the YEAR 1901.

NEEDLE No. 3.

Mauritius Civil Time, 1901.		Poles Direct (A dipping).				Poles Reversed (B dipping).				Means.	Observer.
		Face of Needle to Face of Instrument.		Face of Needle to Back of Instrument.		Face of Needle to Face of Instrument.		Face of Needle to Back of Instrument.			
		Face of Instrument.		Face of Instrument.		Face of Instrument.		Face of Instrument.			
		East.	West.	West.	East.	East.	West.	West.	East.		
	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	14.12	54. 5·9	54. 0·3	54. 5·5	54. 1·3	54.18·2	54.14·2	54.21·3	54. 9·5	54. 9·5	F.
	24.12	53.56·0	54.14·8	54. 5·0	54. 3·5	54. 5·7	54.23·3	54.25·7	54.15·5	54.11·1	W.
February	12.12	54. 2·2	53.59·7	53.59·7	53.55·5	54.13·5	54.16·0	54.14·7	54.16·5	54. 7·2	F.
	22.12	53.56·7	54.15·5	54. 4·5	53.53·0	54.12·7	54.14·5	54.19·7	54.11·7	54. 8·5	O.
March	12.15	53.51·8	54.14·0	54. 0·5	54.10·7	54.20·0	54.16·8	54.25·5	54. 9·3	54.11·1	W.
	21.12	53.54·2	54. 3·6	54. 3·8	53.59·0	54.15·3	54.11·7	54.22·5	54. 9·6	54. 7·5	F.
April	13. 9	53.53·8	54.16·0	54. 8·8	54. 0·0	54. 8·0	54.25·2	54.15·2	54.21·0	54.11·0	O.
	20.12	53.53·3	53.59·3	53.54·8	54. 1·0	54.28·7	54.18·2	54.24·8	54.14·3	54. 9·3	F.
May	10.10	54. 0·0	54. 0·5	53.58·5	53.46·8	54.23·7	54.26·5	54. 8·7	54.20·5	54. 8·1	O.
	20.12	53.54·7	54. 6·7	53.59·0	54. 1·7	54.12·3	54.16·0	54.22·0	54.13·0	54. 8·1	F.
June	12.12	54. 1·3	54. 5·4	53.58·5	53.59·8	54.10·3	54.15·2	54.19·6	54.11·7	54. 7·7	F.
	22.13	53.49·8	54. 4·7	53.58·0	54. 5·0	53.58·0	54.34·8	54.25·0	54.16·0	54. 8·9	O.
July	10.12	53.50·0	54. 3·0	53.59·5	54. 1·5	54. 6·0	54.22·2	54.13·2	54.17·5	54. 6·6	O.
	20. 9	53.48·8	54.15·8	53.57·0	54. 0·0	54. 4·0	54.31·5	54.17·5	54.13·0	54. 8·5	O.
August	12. 9	53.52·7	53.57·4	53.54·3	54. 1·3	54.13·0	54.14·8	54.19·3	54. 9·5	54. 5·3	F.
	20.12	53.54·5	54. 0·8	53.57·0	54. 2·6	54.12·3	54.13·0	54.20·5	54. 9·3	54. 6·3	F.
September	11.15	53.55·0	54. 0·8	53.58·7	54.10·8	54.15·7	54.14·3	54·19·2	54.10·7	54. 8·1	F.
	17.12	53.52·7	53.56·9	53.58·3	54. 1·3	54.13·2	54.14·2	54.22·3	54. 7·8	54. 5·8	F.
October	11.16	53.54·7	54. 3·3	54. 1·0	54. 2·0	54. 1·5	54.30·0	54.14·5	54. 5·0	54. 6·5	O.
	21.15	53.55·2	53.57·7	53.59·0	53.59·7	54. 4·2	54.21·5	54.15·2	54.20·7	54. 6·7	O.
November	23.14	53.49·7	54. 2·5	53.55·2	54. 5·0	54. 7·5	54.15·0	54.12·5	54. 8·3	54. 4·5	F.
	27. 7	53.52·0	54. 4·5	54. 4·3	53.58·5	54. 0·0	54.27·8	54.15·0	54.23·2	54. 8·2	O.
December	9.12	54. 0·5	53.52·0	54. 1·7	53.56·3	54. 6·7	54. 8·8	54.14·5	54. 7·2	54. 3·5	F.
	19.12	53.54·8	53.52·0	53.59·3	54. 0·8	54.10·8	54.15·2	54.16·6	54.13·8	54. 5·4	F.

NEEDLE No. 4.

	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	17.14	53.46·6	52.58·7	54. 3·1	52.39·0	54.22·0	55.31·3	54.38·0	55.16·7	54. 9·4	O.
	19.15	53.51·5	52.57·0	53.57·3	52.28·5	54.21·0	55.25·8	54.34·0	55.16·5	54. 6·5	O.
February	14.14	53.45·0	53. 5·0	54. 2·0	53. 2·0	54.13·0	55.28·5	54.31·5	55.14·5	54.10·2	O.
	16.10	53.47·0	52.53·8	53.50·3	52.48·7	54.16·2	55.25·8	54.23·0	55.24·6	54. 6·2	F.
March	14.12	53.41·3	52.54·2	53.55·7	52.55·7	54.12·1	55.28·5	54.24·2	55.19·8	54. 6·4	F.
	18.12	53.35·8	53. 4·6	53.47·2	52.53·0	54.25·5	55.20·8	54.33·7	55.23·2	54. 8·0	F.
April	15.15	53.39·3	53. 7·5	54. 1·3	52.49·0	54.12·5	55.38·3	54.33·0	55.17·0	54. 9·7	O.
	17.16	53.37·1	52.50·0	54. 2·0	52.46·2	54.17·8	55.35·5	54.39·5	55.17·0	54. 8·1	O.
May	14. 9	53.52·1	52.47·8	54. 8·3	52.49·7	54.24·3	55.22·0	54.39·0	55.17·2	54.10·1	O.
	16.15	53.59·0	52.47·7	54. 4·2	52.49·0	54.29·0	55.22·5	54.34·0	55.17·3	54.10·3	O.
June	15.14	53.49·6	52.54·2	53.57·6	52.38·7	54.23·5	55.29·8	54.28·0	55.23.2	54. 8·1	F.
	20.16	53.46·5	52.43·7	54. 2·8	52.35·5	54.23·2	55.18·5	54.37·2	55.23·5	54. 6·4	O.
July	13.12	53.36·2	53. 2·2	53.55·8	52.50·5	55.13·5	54.43·0	55.21·4	54.31·7	54. 9·3	O.
	16. 9	53.49·0	52.54·7	53.53·0	52.57·5	54.25·2	55.22·5	54.27·2	55.23·5	54. 9·1	O.
August	15.13	53.42·2	52.42·0	53.59·3	52.47·8	54.20·2	55.32·0	54.26·7	55.30·0	54. 7·5	F.
	17.12	53.35·8	52.52·5	53.52·8	52.50·7	54.25·7	55.23·0	54.37·7	55.22·3	54. 7 6	F.
September	14.12	53.44·0	52.47·3	53.45·7	52.44·2	54.16·7	55.39·7	54.22·3	55.30·2	54. 6·3	F.
	21.12	53.45·8	52.44·3	53.53·0	52.48·0	54.19·2	55.29·5	54.20·8	55.24·0	54. 5·6	F.
October	15.15	53.51·7	52.46·4	53.55·5	52.45·3	54.26·5	55.29·5	54.31·8	55.22·5	54. 8·6	F.
	17.12	53.41·3	52.48·9	53.45·0	52.48·3	54.22·7	55.29·0	54.27·5	55.25·9	54. 6·1	F.
November	25.16	52.50·0	53.59·4	53.47·7	53. 3·0	53.59·5	55.32·2	55. 5·7	55. 9·0	54.10·8	O.
	26. 9	53.31·8	53. 1·1	53.57·7	52.28·2	54. 8·2	55.23·5	54.26·2	54.48·7	53.58·2	F.
December	11.12	53.42·7	52.48·5	53.36·5	52.49·8	54.24·0	55.27·2	54.27·0	55.20·3	54. 4·5	F.
	15.12	53.41·3	52.44·5	53.47·9	52.44·7	54.32·5	55.21·0	54.33·0	55.16·1	54. 5·1	F.

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

TABLE IV.—MEAN MONTHLY VALUES of MAGNETIC DIP (SOUTH) in the YEAR 1901.

Month, 1901.	Needle No. 1.	Needle No. 2.	Needle No. 3.	Needle No. 4.	Mean Monthly Dip from all Needles.
	° ′	° ′	° ′	° ′	° ′
January	54. 9·7	54.10·7	54.10·3	54. 8·0	54.9·7
February	54. 9·4	54.12·6	54. 7·8	54. 8·2	54.9·5
March	54.11·0	54. 9·8	54. 9·3	54. 7·2	54.9·3
April	54. 7·3	54. 7·6	54.10·2	54. 8·9	54.8·5
May	54. 7·6	54. 7·1	54. 8·1	54.10·2	54.8·2
June	54. 6·7	54. 8·5	54. 8·3	54. 7·3	54.7·7
July	54. 5·7	54. 6·3	54. 7·5	54. 9·2	54.7·2
August	54. 8·1	54. 6·8	54. 5·8	54. 7·5	54.7·1
September	54. 7·1	54. 5·5	54. 7·0	54. 6·0	54.6·4
October	54. 7·9	54. 3·7	54. 6·6	54. 7·3	54.6·4
November	54. 4·8	54. 6·0	54. 6·3	54. 4·5	54.5·4
December	54. 6·6	54. 6·0	54. 4·4	54. 4·8	54·5·4
For the Year	54. 7·7	54. 7·6	54. 7·6	54. 7·4	54.7·6
Column	1	2	3	4	5

TABLE V.—MEAN MONTHLY VALUES of MAGNETIC DECLINATION, HORIZONTAL FORCE, VERTICAL FORCE, and TOTAL FORCE in the Year 1901.

Month, 1901.	Declination (West).	In Metric Measure (C.G.S. Unit).			In English Measure (F.G.S. Unit).		
		Horizontal Force.	Vertical Force.	Total Force.	Horizontal Force.	Vertical Force.	Total Force.
	°						
January	9.25·28	0·23831	0·32996	0·40702	5·1685	7·1562	8·8274
February	9.24·53	0·23822	0·32979	0·40683	5·1665	7·1526	8·8234
March	9.23·32	0·23817	0·32968	0·40671	5·1654	7·1502	8·8208
April	9.23·61	0·23811	0·32944	0·40648	5·1641	7·1449	8·8158
May	9.22·30	0·23805	0·32930	0·40633	5·1628	7·1418	8·8125
June	9.21·38	0·23814	0·32932	0·40640	5·1648	7·1423	8·8140
July	9.21·69	0·23810	0·32916	0·40625	5·1639	7·1389	8·8108
August	9.20·96	0·23804	0·32906	0·40613	5·1626	7·1367	8·8082
September	9.20·29	0·23798	0·32884	0·40592	5·1613	7·1318	8·8035
October	9.19·34	0·23799	0·32885	0·40593	5·1616	7·1321	8·8039
November	9.18·65	0·23800	0·32866	0·40579	5·1618	7·1281	8·8007
December	9.17·88	0·23793	0·32857	0·40567	5·1602	7·1260	8·7984
For the Year	9.21·60	0·23809	0·32922	0·40629	5·1636	7·1401	8·8116
Column	1	2	3	4	5	6	7

TABLE VI.—MEAN MAGNETIC DECLINATION WEST for each CIVIL DAY as derived from the HOURLY MEASURES of the MAGNETOGRAMS.

1901.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	9.25·1	9.24·9	9.23·7	9.22·8	9.23·1	9.21·6	..	9.21·4	9.20·3	9.19·6	9.19·7	9.18·0
2	26·0	25·1	23·5	23·1	23·1	21·4	..	21·2	20·3	19·8	19·4	17·5
3	24·9	25·0	23·6	24·5	22·8	21·5	..	21·4	20·8	19·3	19·1	17·5
4	25·6	25·1	23·6	24·5	23·0	21·8	..	21·2	20·7	19·1	18·3	17·7
5	25·4	24·9	23·6	24·2	22·9	21·8	..	21·1	20·5	18·9	19·1	17·6
6	25·4	25·2	23·7	24·1	23·4	21·3	..	21·3	20·7	19·3	18·6	17·7
7	25·6	25·0	23·6	24·6	22·6	21·6	..	21·4	21·1	19·2	19·1	17·3
8	25·4	24·7	23·6	24·4	22·8	21·5	..	21·2	20·0	19·1	19·6	18·2
9	25·7	24·4	23·3	24·3	22·3	21·3	..	21·2	20·1	19·2	19·1	18·1
10	25·3	24·7	23·7	23·9	22·9	21·5	..	20·7	20·3	19·3	18·7	18·3
11	25·4	24·2	24·1	24·0	22·7	21·4	..	21·0	20·7	19·4	18·4	18·0
12	25·3	24·7	23·1	24·2	22·5	21·8	9.21·9	21·1	19·9	19·6	18·8	18·2
13	25·4	24·4	23·9	23·7	22·4	21·7	21·5	20·6	19·4	19·3	19·0	17·4
14	25·5	24·5	23·3	24·0	22·5	21·3	21·9	20·9	20·1	19·5	18·6	18·7
15	25·1	25·0	23·6	24·1	22·5	21·7	22·1	20·8	20·1	19·4	19·1	17·4
16	25·6	24·0	23·5	23·6	22·4	21·3	21·9	21·0	19·9	19·7	18·4	18·0
17	24·8	24·6	23·1	23·9	22·3	21·4	22·0	20·8	19·8	19·7	18·6	19·2
18	25·6	24·5	22·8	23·2	21·8	21·4	21·8	20·6	20·2	19·3	18·7	18·2
19	25·7	24·6	23·1	23·4	22·2	21·4	21·7	21·2	19·9	19·7	18·5	17·8
20	25·4	24·2	23·2	23·4	22·1	21·1	21·8	20·8	20·3	19·5	18·2	18·5
21	25·7	24·5	23·1	23·5	21·6	21·9	22·0	21·0	19·9	19·6	18·7	18·4
22	25·5	24·5	23·1	23·6	21·8	21·2	22·0	20·5	20·6	19·6	18·2	18·4
23	25·1	24·4	23·2	23·1	21·7	21·3	21·3	20·8	20·4	19·4	18·0	18·1
24	25·1	23·8	22·6	22·7	21·8	21·1	21·4	20·8	20·7	19·3	18·4	18·0
25	24·4	24·0	23·3	22·9	21·9	21·3	21·6	20·3	20·2	18·9	18·0	17·2
26	24·7	23·3	22·8	22·4	22·0	20·8	21·6	21·0	20·2	19·2	18·1	17·0
27	24·7	24·6	23·7	22·9	21·7	20·7	21·6	20·6	20·6	19·2	18·5	17·7
28	25·5	24·0	22·9	22·8	21·6	20·9	21·6	20·6	20·3	18·8	17·9	17·8
29	24·9		23·0	22·9	21·8	21·8	21·5	21·0	20·3	18·7	18·6	17·2
30	24·8		23·1	23·6	21·6	20·5	21·3	21·2	20·3	19·5	18·0	17·3
31	25·1		22·6		21·5		21·3	21·0		19·4		18·0

TABLE VII.—MONTHLY MEAN DIURNAL INEQUALITY of MAGNETIC DECLINATION WEST.

(The results in each month are diminished by the smallest hourly value.)

1901.

Hour, Mauritius Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	′	′	′	′	′	′	′	′	′	′	′	′	
Midn.	2·9	2·9	3·6	1·7	1·8	1·3	1·9	2·3	1·9	2·9	3·3	3·0	2·28
1h	3·1	3·1	3·8	1·8	1·8	1·2	1·9	2·4	2·1	2·9	3·4	3·2	2·38
2	3·2	3·2	3·9	1·8	1·7	1·2	1·8	2·3	2·1	3·0	3·4	3·1	2·38
3	3·5	3·5	3·8	1·9	1·8	1·2	1·8	2·2	2·1	3·2	3·6	3·4	2·49
4	3·7	3·6	3·8	2·0	1·8	1·2	1·6	2·2	2·0	3·2	3·7	3·6	2·52
5	4·0	3·9	3·9	2·2	1·9	1·2	1·6	2·1	2·0	3·4	4·0	4·0	2·67
6	4·9	4·3	4·1	2·2	1·7	1·0	1·5	1·8	1·5	3·0	4·5	4·6	2·74
7	6·1	5·6	4·8	2·3	1·2	0·3	0·9	1·2	1·2	3·8	5·6	6·0	3·07
8	6·0	6·1	6·3	3·6	2·1	0·6	1·0	1·9	2·3	4·8	5·8	6·0	3·70
9	4·7	5·9	6·9	4·6	3·4	1·6	2·2	3·4	3·9	5·7	5·3	5·3	4·23
10	3·4	4·6	6·3	4·5	4·0	2·0	3·2	4·4	5·1	5·7	4·4	4·2	4·14
11	1·9	2·7	4·8	3·0	3·3	2·1	3·5	4·7	5·4	5·2	3·3	2·8	3·38
Noon	0·6	1·2	2·6	0·8	2·2	1·7	3·0	3·8	4·4	3·4	1·7	1·2	2·04
13h	0·1	0·3	0·7	0·1	1·3	1·3	1·9	2·8	2·9	1·4	0·4	0·3	0·94
14	0·0	0·0	0·0	0·0	0·4	0·4	0·7	1·2	1·1	0·0	0·0	0·0	0·14
15	0·5	0·3	0·1	0·0	0·0	0·0	0·0	0·1	0·2	0·1	0·5	0·4	0·00
16	1·2	1·1	1·2	0·6	0·3	0·3	0·3	0·0	0·0	1·2	1·6	1·0	0·55
17	1·9	2·2	2·5	1·3	1·4	1·4	1·6	1·3	1·0	2·2	2·7	1·8	1·60
18	2·4	2·7	3·2	1·9	2·1	2·0	2·5	2·6	2·1	2·8	3·2	2·5	2·32
19	2·7	2·9	3·4	2·0	2·3	2·1	2·6	2·9	2·4	3·0	3·3	2·9	2·53
20	2·7	2·9	3·5	2·0	2·2	1·9	2·5	2·8	2·3	2·9	3·2	2·8	2·46
21	2·8	2·9	3·6	2·0	2·1	1·9	2·4	2·8	2·3	2·9	3·2	2·9	2·47
22	2·8	2·9	3·4	1·8	1·9	1·7	2·1	2·6	2·1	2·8	3·2	2·8	2·33
23	2·9	2·9	3·6	1·7	1·8	1·6	2·0	2·5	2·0	2·9	3·3	2·9	2·33
Means	2·83	2·99	3·49	1·91	1·85	1·30	1·85	2·35	2·27	3·02	3·19	2·95	2·32

TABLE VIII.—MEAN HORIZONTAL MAGNETIC FORCE for each CIVIL DAY, as derived from the HOURLY MEASURES of the MAGNETOGRAMS.

(The values are expressed in terms of the Centimètre-Gramme-Second Unit, and are corrected for temperature.)

1901.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	·23845	·23823	·23830	·23813	·23797	·23822	·23808	·23809	·23800	·23795	·23803	..
2	847	..	827	801	796	808	813	812	802	798	810	..
3	843	821	824	803	799	807	823	813	807	801	811	·23788
4	833	821	833	806	799	809	825	809	801	802	..	791
5	835	819	823	811	800	814	818	804	804	798	796	795
6	827	825	823	811	804	819	816	809	804	803	808	785
7	828	826	814	824	805	829	809	817	803	803	801	789
8	828	829	815	809	803	810	816	809	803	798	799	794
9	831	831	819	812	805	812	818	806	810	..	809	795
10	833	823	827	813	..	818	817	807	..	786	800	788
11	831	824	823	819	..	811	817	810	787	789	806	791
12	820	828	824	814	802	816	804	813	787	794	800	792
13	826	817	817	821	796	816	801	807	789	804	804	..
14	838	820	813	812	796	806	808	..	791	794	806	..
15	846	824	814	804	797	803	810	..	791	797	804	792
16	835	825	823	809	802	803	809	791	806	801	808	792
17	843	827	821	806	808	810	801	794	794	794	805	795
18	834	823	819	812	808	813	808	793	795	801	798	796
19	835	826	810	817	809	821	811	799	794	809	795	797
20	835	813	812	813	808	820	808	803	792	813	791	793
21	829	808	817	813	810	818	802	797	796	803	794	795
22	835	815	821	813	810	810	802	798	798	798	795	796
23	820	812	818	801	813	810	804	795	800	796	798	797
24	816	815	..	800	807	809	808	801	795	807	794	798
25	815	824	..	813	808	814	809	799	800	..	792	795
26	818	824	791	817	811	815	808	803	798	791	796	..
27	829	819	802	814	809	815	805	797	801	800	798	795
28	826	828	808	809	809	816	809	798	796	805	793	..
29	840		814	810	811	817	805	805	792	803	798	793
30	818		811	805	814	817	807	804	798	797	798	792
31	822		810		814		814	807		803		795

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

(The results are diminished by the smallest hourly value in each month, and for the year, the unit in the table being ·000001 of the Centimètre-Gramme-Second Unit. No correction for temperature has been applied.)

1901.

Hour, Mauritius Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	40	5	7	4	16	6	7	16	15	19	23	17	8·8
1h	55	16	16	18	22	12	12	22	25	28	40	33	19·2
2	71	30	26	30	36	11	22	26	44	34	45	42	29·0
3	71	36	36	45	37	17	31	39	52	40	48	43	35·0
4	71	48	42	57	41	28	47	51	53	45	49	43	42·2
5	67	50	46	64	54	39	60	63	56	46	46	38	46·7
6	89	56	51	70	66	49	74	82	68	40	45	49	55·8
7	121	79	49	81	96	75	100	108	79	33	32	69	71·1
8	148	88	44	95	114	85	123	120	94	40	53	88	85·2
9	172	109	60	114	124	101	125	118	102	67	89	105	101·4
10	212	139	110	116	127	115	116	98	99	115	144	149	122·6
11	203	148	163	156	145	123	116	88	124	144	176	143	138·3
Noon	149	142	180	196	139	116	138	92	141	147	178	116	138·7
13h	104	116	153	167	107	105	142	90	120	138	171	95	119·9
14	81	76	110	107	58	81	105	79	61	106	140	66	83·4
15	35	42	66	53	20	34	53	46	22	63	99	30	41·2
16	0	23	38	31	0	4	13	9	9	36	64	0	13·2
17	20	13	17	20	2	7	14	0	3	16	32	6	6·7
18	37	6	8	18	25	24	20	19	8	4	15	5	10·0
19	35	9	10	12	20	12	10	18	7	0	8	7	6·6
20	22	9	5	7	16	9	2	13	3	1	2	9	2·4
21	20	0	0	1	14	4	0	15	0	2	0	13	0·0
22	20	3	1	4	14	2	5	15	5	8	12	13	2·7
23	32	1	6	0	12	0	5	12	7	13	19	14	4·3
Means	78·1	51·8	51·8	61·1	54·4	44·1	55·8	51·6	49·9	49·4	63·7	49·7	49·3

TABLE X.—MEAN TEMPERATURE for each CIVIL DAY within the glass shade covering the HORIZONTAL FORCE MAGNET.

Day of Month.	1901.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
d 1	82·0	82·3	82·9	82·6	80·4	79·0	76·2	75·3	74·0	75·0	77·7	79·1
2	82·2	82·4	82·9	82·6	80·6	78·7	76·1	75·1	74·0	75·2	77·8	79·4
3	82·4	82·3	83·0	82·6	80·9	78·6	76·4	75·2	73·9	75·7	77·9	79·6
4	82·3	82·4	83·4	82·6	81·0	78·6	76·4	75·2	74·1	75·5	77·8	79·6
5	82·2	82·6	83·3	82·8	81·2	78·9	76·5	75·2	74·1	75·4	77·7	79·7
6	82·3	82·4	83·4	82·8	81·2	78·6	76·4	75·2	74·1	75·8	77·8	79·7
7	82·3	82·4	83·4	82·9	80·7	79·2	76·4	75·2	74·1	75·6	77·8	79·6
8	82·4	82·3	83·6	82·9	80·4	77·8	76·4	75·2	74·3	75·6	77·9	79·4
9	82·5	82·2	83·6	83·1	80·0	77·8	76·2	75·2	74·4	75·8	78·5	79·4
10	82·6	82·0	83·5	83·1	79·8	77·8	76·3	75·1	74·4	75·9	78·6	79·4
11	82·9	82·0	83·5	83·2	79·8	77·4	76·0	74·9	74·7	76·2	78·9	79·6
12	82·9	82·1	83·5	83·2	79·8	77·3	76·0	74·8	74·7	76·4	78·8	79·9
13	82·6	82·2	83·5	83·1	79·7	77·1	75·9	74·3	74·6	76·8	78·9	80·0
14	83·1	82·2	83·6	82·9	79·8	77·1	75·6	74·1	74·7	77·0	78·8	79·8
15	82·8	82·4	83·5	82·8	79·6	76·9	75·2	74·0	74·5	77·1	78·9	79·5
16	82·6	82·3	83·6	82·6	79·7	76·9	75·3	74·2	74·3	77·1	79·1	79·9
17	82·4	82·5	83·7	82·0	79·9	77·0	75·0	74·3	74·3	77·1	78·8	79·5
18	82·4	82·4	83·7	81·6	79·5	77·1	75·2	74·1	74·4	77·1	78·4	79·6
19	82·4	82·6	83·8	81·4	80·0	76·9	75·0	74·4	74·4	77·1	78·7	79·6
20	82·3	82·7	83·8	81·1	80·0	76·9	75·0	74·5	74·4	77·2	78·9	80·0
21	82·2	82·8	83·8	81·0	80·4	76·5	75·0	74·9	74·6	77·1	78·4	80·3
22	82·2	82·6	83·8	81·2	80·4	76·2	75·0	74·9	74·9	77·2	78·5	80·4
23	82·3	82·6	83·8	81·0	80·5	76·2	75·0	74·4	74·8	77·3	78·6	80·4
24	82·2	82·7	83·8	81·0	80·4	75·9	75·0	74·3	75·1	77·4	78·4	80·2
25	82·3	83·0	83·5	80·9	79·7	76·0	75·2	74·0	75·3	77·7	78·2	80·2
26	82·4	83·1	83·2	80·8	79·2	75·9	75·4	73·9	75·1	77·4	78·4	80·2
27	82·2	82·9	83·0	80·7	79·1	75·8	75·4	74·1	75·0	77·7	78·8	80·4
28	82·2	83·0	83·0	80·6	79·0	76·1	75·5	74·2	75·0	77·8	79·1	80·4
29	82·2		82·8	80·4	78·8	76·4	75·2	74·0	74·8	77·6	78·9	80·8
30	82·1		82·6	80·4	79·1	76·4	75·1	73·9	75·1	77·6	78·9	80·8
31	82·2		82·5		79·0		75·4	73·9		77·6		81·2
Means	82·4	82·5	83·4	82·0	80·0	77·2	75·6	74·6	74·5	76·7	78·5	79·9

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

(The results are diminished by the smallest hourly value in each month and for the year, the unit in the table being ·000001 of the Centimètre-Gramme-Second Unit. No correction for temperature has been applied).

Hour, Mauritius Civil Time.	1901.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midn.	86	134	144	87	93	81	141	139	143	128	112	72	105·9
1h	84	129	143	82	90	82	140	142	144	128	111	72	104·8
2	85	128	140	77	87	81	138	137	140	127	108	72	102·6
3	83	126	134	77	89	80	139	140	140	128	107	70	102·0
4	84	125	137	78	89	83	137	139	141	130	113	71	103·2
5	86	127	137	81	93	85	144	144	144	133	118	74	106·4
6	103	136	145	86	96	89	145	144	142	133	126	88	112·0
7	108	153	163	91	91	81	145	146	153	155	151	104	121·0
8	80	146	183	120	113	95	153	165	181	179	147	102	131·2
9	69	141	192	154	146	123	188	192	214	199	144	100	147·7
10	49	95	155	133	132	125	205	199	222	183	119	78	133·8
11	14	42	97	66	85	105	181	172	194	144	91	44	95·5
Noon	0	10	32	12	47	66	127	124	137	88	60	21	52·9
13h	7	0	0	0	15	27	41	65	72	26	15	4	15·2
14	14	12	12	8	0	5	1	18	19	0	0	0	0·0
15	31	28	42	19	1	0	0	0	0	18	23	10	6·9
16	44	59	82	44	21	26	42	29	19	52	55	27	34·2
17	52	81	115	67	61	59	97	78	59	71	75	37	63·6
18	62	94	130	82	84	80	127	122	106	93	92	47	85·8
19	68	104	135	89	90	87	136	132	118	103	93	55	93·4
20	74	114	139	92	93	89	136	137	129	112	104	60	99·2
21	79	121	144	96	94	90	142	142	137	119	108	64	103·9
22	85	130	148	97	93	87	144	144	141	127	113	68	107·3
23	88	131	146	93	93	86	146	144	143	128	113	71	107·7
Means	64·0	98·6	120·6	76·3	79·0	75·5	124·8	124·7	126·6	112·7	95·8	58·8	89·0

TABLE XII.—DIURNAL RANGE of MAGNETIC DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE on each CIVIL DAY as derived from the HOURLY MEASURES of the MAGNETOGRAMS.

(The Declination is expressed in minutes of arc; the unit for Horizontal Force and Vertical Force is ·000001 of the Centimètre-Gramme-Second Unit.)

Day of Month.	1901.																	
	January.			February.			March.			April.			May.			June.		
	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.
d	′			′			′			′			′			′		
1	2·6	235	77	6·2	413	99	5·6	359	172	5·6	408	257	5·1	192	146	3·0	275	141
2	4·2	403	105	7·7	896	149	6·1	256	289	4·3	300	179	4·4	140	262	2·8	194	133
3	7·0	352	147	7·7	276	156	7·3	393	195	7·4	165	281	4·1	135	169	2·8	243	178
4	5·7	240	210	7·3	159	209	9·0	228	273	7·3	238	203	5·6	114	285	1·9	119	148
5	9·6	393	189	4·0	97	151	9·8	245	328	7·6	317	265	5·1	101	139	3·2	132	259
6	9·3	143	161	7·1	265	238	7·0	154	312	9·1	238	234	7·8	161	216	2·8	130	96
7	8·1	224	140	5·9	205	209	8·1	220	328	7·3	494	250	6·0	133	216	2·3	373	148
8	9·5	291	77	8·5	259	248	9·2	122	242	4·5	299	86	4·9	182	370	1·9	216	148
9	8·3	281	182	5·1	238	190	11·9	215	257	5·1	183	125	5·9	198	167	3·0	240	118
10	5·7	291	224	6·3	216	117	11·4	197	273	5·6	73	179	4·7	..	106	3·7	281	95
11	5·7	229	196	3·4	211	67	8·1	249	226	6·5	260	94	5·2	..	213	3·8	157	139
12	5·8	182	147	7·3	513	244	6·2	336	133	7·2	192	234	3·0	174	106	3·2	186	131
13	3·0	187	126	6·1	275	163	9·1	278	187	5·8	285	234	3·8	213	160	3·1	213	226
14	4·2	244	77	5·5	225	200	8·3	296	156	4·0	322	156	4·2	200	258	3·1	440	95
15	7·5	447	126	6·8	143	207	10·2	128	335	3·8	353	187	3·9	343	182	1·7	189	80
16	5·7	302	63	8·6	171	180	8·9	168	148	2·7	265	179	3·6	231	190	3·8	211	117
17	9·7	369	133	6·2	148	225	7·2	100	203	3·8	262	203	5·2	133	304	2·8	148	182
18	4·9	302	140	8·8	182	420	6·4	372	257	4·7	358	273	6·6	216	236	3·0	173	241
19	5·6	217	114	9·2	676	262	4·2	319	179	4·9	162	140	5·1	213	205	2·8	324	182
20	8·8	281	241	9·9	270	296	5·0	266	226	5·8	117	226	4·5	213	304	4·1	213	204
21	6·1	307	114	6·9	129	182	6·1	301	179	6·9	257	172	3·5	315	198	3·2	402	139
22	8·6	694	213	8·8	280	350	5·2	330	187	4·0	211	140	4·8	226	157	2·7	235	72
23	13·6	276	277	9·6	347	312	5·5	266	172	3·3	363	226	4·8	156	188	2·5	89	86
24	10·3	260	177	8·1	112	185	7·7	..	312	4·0	389	101	3·3	208	157	3·6	108	122
25	8·9	132	185	7·6	364	246	6·4	..	109	4·9	275	133	3·9	309	352	3·7	205	158
26	9·0	244	277	6·0	185	162	7·6	120	226	6·4	194	148	5·0	265	203	2·1	167	72
27	7·0	387	92	6·9	108	250	6·9	310	179	4·6	374	162	4·1	177	165	3·1	157	137
28	5·0	329	142	5·8	194	242	5·2	198	156	4·1	211	85	4·5	174	165	3·9	130	..
29	6·9	472	163				4·7	252	203	3·4	338	154	2·2	231	180	4·7	119	266
30	5·6	488	92				3·2	510	94	4·8	283	162	2·9	278	292	2·7	302	94
31	5·4	233	78				5·2	366	234				3·3	320	237			
Mean	7·01	304·4	151·1	7·05	269·9	212·9	7·18	260·6	218·4	5·31	272·9	182·3	4·55	205·2	210·6	3·03	212·4	145·1

TABLE XIII.—MONTHLY MEAN TEMPERATURE at 8^h, 10^h, 13^h, and 16^h within the glass shades covering the HORIZONTAL FORCE and VERTICAL FORCE MAGNETS.

Mauritius Civil Time.	1901.											
	January.		February.		March.		April.		May.		June.	
	H.F.	V.F.	H.F.	V.F.	H.F.	V.F.	H.F.	V.F.	H.F.	V.F.	H.F.	V.F.
8^h	82°·41	82°·38	82°·47	82°·51	83°·36	83°·46	81°·98	82°·00	79°·96	79°·94	77°·19	77°·18
10	82·41	82·38	82·45	82·46	83·34	83·40	81·97	81·98	79·98	79·98	77·17	77·15
13	82·35	82·33	82·47	82·48	83·39	83·43	81·98	82·01	79·99	79·99	77·19	77·15
16	82·39	82·36	82·49	82·52	83·39	83·41	81·98	82·00	79·97	79·96	77·17	77·15

TABLE XII.—DIURNAL RANGE of MAGNETIC DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE on each CIVIL DAY as derived from the HOURLY MEASURES of the MAGNETOGRAMS—*continued.*

1901.																		Day of Month.
July.			August.			September.			October.			November.			December.			
Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	Dec.	H.F.	V.F.	
′			′			′			′			′			′			
5·3	200	252	3·9	192	245	5·4	167	425	6·2	275	266	5·3	219	135	5·2	..	260	1
..	224	..	6·3	205	302	5·9	165	259	10·9	240	223	4·2	383	177	8·6	..	87	2
..	167	..	4·4	381	288	4·9	343	310	8·6	224	302	4·8	240	135	3·2	238	198	3
..	270	252	4·9	351	202	5·1	300	180	6·2	267	194	3·8	..	199	5·4	246	218	4
..	354	..	2·3	224	158	6·2	208	245	6·1	197	173	6·5	238	192	5·1	386	166	5
3·1	335	213	5·1	213	266	7·1	219	317	6·0	216	144	4·8	324	199	3·5	111	151	6
4·9	297	177	5·9	221	202	4·7	170	209	7·8	124	223	3·6	316	163	7·1	294	104	7
3·8	184	121	4·1	402	209	4·9	151	158	8·2	251	346	3·3	284	241	6·4	157	114	8
..	200	334	4·2	316	130	6·5	184	266	7·1	..	245	5·4	578	185	11·2	300	161	9
..	184	206	5·6	227	209	7·1	..	259	5·9	151	259	7·1	170	263	6·0	313	192	10
..	178	305	3·9	181	122	5·2	227	194	5·4	138	180	6·2	643	142	8·0	216	125	11
3·5	489	78	4·8	240	180	3·8	329	137	4·7	251	216	7·4	243	256	10·7	167	276	12
2·7	262	220	3·6	140	216	5·1	167	295	6·9	489	245	6·9	197	128	8·6	..	90	13
2·6	270	241	5·5	..	288	6·3	176	274	3·9	159	194	9·8	256	220	6·5	..	101	14
3·0	262	..	3·0	..	101	7·0	157	454	6·4	213	230	6·8	108	..	10·3	170	207	15
3·4	270	..	3·1	221	158	5·9	240	180	7·0	262	199	8·4	97	..	8·5	113	196	16
3·0	405	206	4·7	167	252	5·9	265	295	4·8	73	241	4·1	173	..	6·1	189	90	17
2·0	462	206	6·2	219	216	4·9	235	187	4·9	221	156	7·5	148	..	6·4	170	58	18
2·7	219	128	6·1	130	288	5·6	194	259	6·6	321	206	5·5	572	..	3·5	175	90	19
3·9	229	284	5·8	378	252	6·2	135	173	5·7	332	149	7·4	132	..	3·5	324	85	20
5·1	124	223	4·1	243	158	6·8	186	230	5·0	273	206	3·6	213	90	4·9	127	148	21
3·7	289	194	5·2	121	144	6·0	143	187	6·1	146	270	4·8	273	..	5·3	246	162	22
4·9	283	266	5·9	113	209	5·9	246	144	6·1	108	291	7·9	202	..	5·6	265	92	23
3·5	197	151	4·8	111	180	4·2	189	230	7·6	292	206	9·0	265	190	6·9	216	108	24
4·3	251	202	8·1	197	281	4·1	243	216	7·3	..	220	9·1	211	250	7·9	340	135	25
3·0	219	137	5·9	138	288	5·7	151	187	3·4	154	92	7·9	286	205	9·4	..	..	26
4·1	184	266	4·3	186	223	6·0	224	331	5·8	127	234	7·2	327	280	7·8	246	65	27
6·9	219	223	5·1	108	281	7·7	173	310	5·9	262	121	7·6	262	140	8·5	..	81	28
5·6	176	353	6·2	213	223	8·8	194	374	7·8	283	149	5·2	343	170	9·1	223	184	29
6·0	162	410	7·6	162	396	8·2	302	223	6·0	143	185	7·1	270	..	6·0	200	..	30
7·9	124	454	7·1	132	245				7·0	192	291				7·4	246	211	31
4·12	248·0	234·7	5·09	211·4	223·0	5·90	209·8	250·3	6·36	220·1	214·7	6·27	274·9	188·6	6·86	227·1	143·3	Mean

TABLE XIII.—MONTHLY MEAN TEMPERATURE at 8^h, 10^h, 13^h, and 16^h, within the glass shades covering the HORIZONTAL FORCE and VERTICAL FORCE MAGNETS—*continued.*

1901.												Mauritius Civil Time.
July.		August.		September.		October.		November.		December.		
H.F.	V.F.	H.F.	V.F.	H.F.	V.F.	H.F.	V.F.	H.F.	V.F.	H.F.	V.F.	
°	°	°	°	°	°	°	°	°	°	°	°	
75·64	75·59	74·57	74·51	74·50	74·50	76·67	76·66	78·47	78·49	79·90	79·96	8^h
75·61	75·57	74·54	74·50	74·51	74·53	76·64	76·63	78·39	78·44	79·89	79·92	10
75·60	75·57	74·57	74·52	74·53	74·56	76·68	76·64	78·45	78·49	79·91	79·93	13
75·61	75·56	74·57	74·54	74·54	74·56	76·69	76·65	78·46	78·50	79·90	79·94	16

TABLE XIV.—HOURLY VARIATIONS of the HORIZONTAL MAGNETIC FORCE, above or below the Mean, on DAYS of MAGNETIC DISTURBANCE during the YEAR 1901.

(The unit is ·000001 of the Centimètre-Gramme-Second Unit. No correction for temperature has been applied.)

Mauritius Civil Time, 1901.	January.		February.				March.			May.			June.			
	22d	23d	2d	19d	22d	23d	23d	24d	25d	23d	24d	31d	1d	13d	14d	21d
Midnight	+ 16	−238	+ 64	− 17	−106	−263	−100	− 53	−979	− 49	− 21	+112	−132	+ 13	− 46	+ 70
1h	+ 21	−148	+ 95	− 22	−112	−297	− 65	+ 159	−979	− 26	− 23	+112	− 78	+ 16	+ 3	+ 89
2	+ 26	−154	+138	+ 17	−101	− 62	− 53	+ 41	−796	− 21	+ 3	+117	−130	+ 32	− 51	+ 62
3	+ 26	− 64	+148	− 5	−101	−106	− 53	− 6	−596	0	− 21	+112	−127	+ 19	− 11	+ 57
4	+ 32	− 21	+164	+ 17	− 56	−151	− 24	0	−578	+ 3	0	+120	−178	+ 35	+ 62	+ 8
5	+ 32	+ 32	+138	+ 17	− 67	−118	− 30	+ 41	−460	+ 23	0	+133	−146	+ 38	+165	− 38
6	+ 21	− 16	+111	+ 38	− 78	−112	0	+ 47	−543	+ 36	− 16	+151	−100	+ 41	+200	+121
7	− 37	+ 21	+111	+116	−101	−101	− 18	− 30	−513	+ 83	+ 83	+187	−100	+ 35	+151	+113
8	+ 21	− 53	+233	+192	−112	−101	− 18	− 18	−454	+107	+ 81	+231	+ 3	+ 8	−119	+184
9	+122	− 37	+339	+401	−157	−196	+ 24	+ 12	−372	+ 94	+ 70	+234	− 27	− 22	−119	+273
10	+318	− 21	+376	+402	−162	−134	+100	+ 65	−283	+ 78	+ 49	+255	− 73	+ 19	−100	+281
11	+382	−127	+344	+434	−123	−106	+130	+ 59	−224	+ 62	− 3	+317	− 73	+ 38	−121	+329
Noon	+350	− 74	+201	+424	− 17	− 50	+142	+ 71	−159	+ 49	− 86	+341	− 22	+ 3	−202	+273
13h	+297	+ 5	+127	+335	+ 62	− 39	+112	+ 77	−206	− 16	− 81	+419	− 13	− 49	−257	+251
14	+307	− 69	+ 69	+176	+112	0	+ 77	+ 47	−266	− 23	− 8	+276	− 49	− 65	−202	+351
15	+228	−111	− 11	− 33	+118	0	+ 24	− 6	−277	− 34	−122	+101	− 84	− 73	−159	+224
16	+122	−244	−101	−110	+ 45	0	− 12	− 136	−283	− 44	−120	+107	−151	+ 59	−178	+138
17	+ 90	−223	− 80	−214	− 6	+ 28	− 53	− 224	−319	+ 81	−125	+ 57	−181	+138	−157	+ 65
18	+ 74	−201	− 90	−220	− 67	− 39	− 71	− 342	−313	+133	− 96	+ 49	−127	+111	−132	+ 54
19	+ 16	−170	−366	−214	− 62	− 50	− 83	− 637	−301	+104	−104	+ 60	−157	+ 67	−108	+ 35
20	− 5	−154	−514	−148	+ 56	− 56	−106	− 761	−301	+ 29	− 91	+133	−132	+ 67	−105	+ 8
21	−292	−154	−281	−226	−106	− 62	−124	− 832	−319	+ 8	− 75	+140	−132	+ 40	− 67	− 40
22	−313	−111	−175	−258	−134	0	−124	− 950	−301	+ 29	− 3	+159	−138	+ 86	− 51	− 70
23	−292	−148	−191	−165	−162	− 67	− 65	−1032	−301	− 49	− 31	+177	−130	+ 19	− 62	− 54
24	−238	−127	−127	−126	−263	− 84	− 59	− 979	−295	− 21	− 57	+205	−138	− 46	− 67	− 22
Daily Range	700	403	912	715	442	381	254	1204	873	244	255	450	289	211	457	459

Mauritius Civil Time, 1901.	July.	October.					November.						Dec.
	12d	8d	9d	13d	25d	28d	4d	5d	6d	9d	11d	19d	9d
Midnight	+ 70	+121	+ 89	− 76	− 41	−105	+146	−105	+ 81	+ 14	− 73	− 92	+ 19
1h	+119	+124	+170	− 22	− 40	− 76	+189	− 24	+192	+ 22	− 27	− 94	+ 38
2	+127	+124	+103	− 22	− 27	− 49	+232	− 49	+200	+ 3	− 22	− 78	+ 65
3	+208	+119	+ 3	− 22	− 35	− 24	+294	− 54	+138	0	− 11	− 51	+ 89
4	+119	+143	+103	− 22	− 35	+ 3	+286	− 51	+108	− 3	− 8	− 40	+116
5	+ 38	+143	+ 3	− 22	− 46	− 24	+243	− 27	+111	+ 35	+ 5	− 38	+ 92
6	+ 38	+167	− 24	− 22	− 43	− 49	+124	− 27	+216	+ 57	− 22	− 54	+103
7	+ 8	+165	− 22	+ 11	− 46	− 70	+111	− 24	+216	+ 59	0	− 51	+ 59
8	+ 81	+119	− 14	+ 65	− 40	− 30	+ 81	+ 3	+194	+130	+ 40	+ 40	+ 62
9	− 16	+ 59	−130	+146	+ 62	+ 5	− 51	+ 57	+219	+227	+ 49	+113	+ 35
10	−205	+197	−219	+221	+116	− 8	−113	+ 86	+273	+381	+ 54	+227	+116
11	−178	+197	−297	+356	+159	− 24	−148	+ 97	+313	+394	+178	+240	+197
Noon	− 70	+146	−348	+297	+178	− 13	−189	+108	+265	+359	+356	+ 16	+224
13h	− 16	+ 86	−292	+254	+332	− 13	−240	+130	+200	+286	+402	− 40	+189
14	−170	+ 62	−273	+154	+281	+ 8	−281	+ 43	+189	+246	+316	− 30	+ 92
15	−305	+ 16	−427	+ 59	+ 86	+ 13	−319	+ 3	+165	+186	+216	− 76	− 73
16	−302	− 22	−216	+ 11	− 51	− 30	−267	+ 59	+130	+ 3	+ 57	− 73	− 76
17	−270	− 49	−157	− 8	−184	−103	−213	+ 30	+ 76	− 57	− 19	−111	− 51
18	−262	+ 3	−111	− 81	−283	−208	−159	+ 8	+ 5	−184	−178	−111	− 59
19	−286	+ 59	−111	− 73	−262	−248	−127	− 22	− 11	−159	−181	−113	− 49
20	−311	+113	−103	−121	−313	−167	−132	+ 32	+ 8	−167	−194	−297	− 43
21	−364	+ 40	− 84	−132	−265	−105	−105	− 22	+ 3	− 76	−240	−329	+ 35
22	−319	+ 84	− 78	−105	−221	−103	−151	+113	+ 11	− 32	−130	−310	+ 30
23	−302	+ 86	− 73	−100	−238	− 76	−103	+132	+ 22	− 22	−186	−251	+ 32
24	−235	+ 89	− 54	− 89	−238	− 78	−105	+ 81	+ 51	− 22	−135	−197	+ 27
Daily Range	581	273	686	537	670	289	672	265	351	605	678	632	421

MAGNETIC DISTURBANCES in DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE, recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1901.

The following is a brief description of the principal magnetic disturbances recorded in the year 1901. In Horizontal Force and Vertical Force the unit of measurement is ·00001 of the Millimètre-Milligramme-Second Unit, or ·000001 of the Centimètre-Gramme-Second Unit. When any one of the three elements is not mentioned it is to be understood that the movement in that element, if any, was insignificant. The hourly variation of the disturbed element above or below the mean value for the month is given numerically in Table XIV.

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; "two successive waves," consecutive wave movements in the same direction; "fluctuations," a number of movements in both directions. The extent and direction of the movement are indicated in brackets, + denoting an increase, and — a decrease of the magnetic element. In the case of "fluctuations" the sign ± denotes positive and negative movements of generally equal extent.

Curves which do not admit of brief description in this way are reproduced on Plate I.

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

1901.

January 22^d–23^d Increase of H.F. (+440) from $22^d.7\frac{1}{4}^h$ to $10\frac{1}{2}^h$, followed by a gradual and somewhat irregular decrease (—673) until 21^h, with small fluctuations from 11^h to 14^h. Increase (+371) from $23^d.0^h$ to $4\frac{1}{4}^h$, with small superposed fluctuations. Wave in Dec. (+2′·0) from $23^d.3\frac{1}{2}^h$ to $4\frac{1}{2}^h$.

February 2^d Decrease of H.F. (—912) from 10^h to $19\frac{1}{2}^h$, with wave (+302) from 16^h to $19\frac{1}{2}^h$.

19^d Increase of H.F. (+363) from 6^h to 9^h, followed by a decrease (—715) from 11^h to $17\frac{1}{2}^h$.

22^d–23^d Fluctuations in H.F. (±110) from $22^d.19\frac{3}{4}^h$ to $23\frac{3}{4}^h$, followed by a wave (+209) from $23^d.1\frac{3}{4}^h$ to $2\frac{3}{4}^h$. Double wave in Dec. (+1′·0 to —1′·2) from $23^d.1\frac{1}{4}^h$ to $2\frac{1}{2}^h$.

March 23^d–25^d Sharp increase of H.F. (+150) at $23^d.22\frac{1}{2}^h$, followed by a wave (+222) from $24^d.0\frac{1}{4}^h$ to $1\frac{1}{2}^h$. Long wave in H.F. (—1026) from $24^d.15^h$ to $25^d.12\frac{1}{2}^h$, with superposed fluctuations (±90) from $25^d.1^h$ to 3^h. Small though sharp wave in V.F. (+90) from $23^d.22\frac{1}{2}^h$ to $22\frac{3}{4}^h$, and a shallow wave (+328) from $24^d.13^h$ to $25^d.3^h$.

May 10^d–11^d See Plate I.

23^d–24^d Sharp increase of H.F. (+130) at $23^d.16\frac{3}{4}^h$, followed by a gradual decrease (—182) until $23\frac{1}{2}^h$, with wave (+104) from $22\frac{3}{4}^h$ to 23^h. Wave (+101) from $24^d.10\frac{1}{4}^h$ to $15\frac{1}{2}^h$, with small superposed fluctuations.

31^d–June 1^d Sudden increase of H.F. (+148) at $31^d.12\frac{1}{4}^h$, followed by occasional small fluctuations until $1^d.8^h$. Slight increase of V.F. and Dec. at $31^d.12\frac{1}{4}^h$.

June 13^d–14^d Sharp increase of H.F. (+113) at $13^d.15\frac{1}{2}^h$, with small wave in V.F. (+30) and in Dec. (+0′·3). Decrease of H.F. (—221) from $13^d.17^h$ to $14^d.2\frac{1}{2}^h$, with small superposed fluctuations, followed by a wave (+256) from $2\frac{1}{2}^h$ to $8\frac{1}{2}^h$.

21^d Double wave in H.F. (—81 to +94) from $4\frac{1}{2}^h$ to $6\frac{1}{2}^h$. Decrease of H.F. (—459) from 14^h to $22\frac{1}{2}^h$, with small fluctuations from 11^h to 17^h.

July 12^d Fluctuations in H.F. (±67) from 0^h to 8^h, followed by a long double wave (—151 to +202) until 15^h.

17^d Small fluctuations in H.F. occasionally from 0^h to 24^h.

August 14^d–15^d See Plate I.

Sept. 10^d–11^d See Plate I.

October 8^d–9^d Wave in H.F. (—265) from $8^d.11^h$ to $23\frac{1}{2}^h$, with small rapid fluctuations from 18^h to 24^h. Wave (—162) from $9^d.0^h$ to 1^h, followed by a gradual decrease of H.F. (—680) until $14\frac{3}{4}^h$, with waves (—108) from 2^h to $3\frac{1}{2}^h$, and (+154) from 12^h to $14\frac{3}{4}^h$. Occasional small fluctuations in V.F. from $8^d.18^h$ to $9^d.2^h$.

MAGNETIC DISTURBANCES in DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE, recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1901—*continued.*

October 13^d Sharp increase of H.F. (+81) from $0\frac{1}{4}^h$ to $0\frac{1}{2}^h$. Irregular wave (+486) from 6^h to $17\frac{1}{2}^h$ followed by small fluctuations until $23\frac{1}{2}^h$.

25^d Sharp increase of H.F. (+135) from $12\frac{1}{2}^h$ to $12\frac{3}{4}^h$, followed by a decrease (−648) from 14^h to 18^h. Small fluctuations between 20^h and 24^h.

28^d Wave in H.F. (−243) from 15^h to 21^h, with very small superposed fluctuations.

November 4^d Decrease of H.F. (−664) from 4^h to $14\frac{1}{2}^h$, followed by an increase (+294) until $21\frac{1}{4}^h$. Small fluctuations from 1^h to 7^h in H.F. and Dec.

5^d–6^d Increase of H.F. (+337) from $5^d.21^h$ to $6^d.11^h$ with two successive waves (−170 and −175) from $5^d.23\frac{1}{2}^h$ to $6^d.1\frac{1}{4}^h$, and $6^d.1\frac{1}{4}^h$ to $6\frac{1}{2}^h$.

7^d Fluctuations in H.F. (±55) from 19^h to 21^h.

9^d Wave in H.F. (+486) from $4\frac{3}{4}^h$ to 18^h, with small superposed fluctuations. Wave in Dec. (+1′·5) from $17\frac{1}{2}^h$ to $18\frac{1}{2}^h$.

11^d Wave in H.F. (+459) from 10^h to 18^h, with small superposed fluctuations.

19^d Waves in H.F. (+310) from 7^h to $12\frac{1}{2}^h$, and (−243) from $18\frac{1}{2}^h$ to 24^h.

December 1^d–2^d See Plate I.

9^d Wave in H.F. (+337) from 8^h to $15\frac{1}{2}^h$. Occasional small fluctuations throughout the day.

27^d–28^d See Plate I.

TREMORS.

On 1901 April 30 the sensibility of the Horizontal Force Magnetometer was increased, in order to register with a more open scale the possible effect of the Solar Eclipse of 1901 May 18 on that element.

The Vertical Force Magnetometer was not altered, as the instrument does not work well at a high sensibility.

The increased sensibility of the Horizontal Force Magnetometer has revealed the daily occurrence of tremors which, formerly, were only occasionally visible on the photographs; and as upon closer inspection more tremors have been detected prior to 1901 April 30, it is to be presumed that they were always of daily occurrence, and would have been visible with greater magnification of the magnet's movement.

The tremors occur only at night and in early morning; commencing usually at about 22^h or 23^h, and lasting from a few minutes to one or two hours; sometimes continuously, and sometimes spasmodically for 10 to 20 or 30 minutes at a time, with intervening calm intervals. They occur occasionally as early as 20^h and as late as 7^h, but are then usually smaller than those occurring between 22^h and 2^h. Their amplitude and period vary from the smallest measurable quantity to ·00005 C.G.S. units and 5 minutes respectively.

Tremors are only occasionally visible in the Vertical Force registers, and very seldom in Declination.

ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1901.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation = 100). Mean.	Degree of Humidity (Saturation = 100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
Jan. 1	29·791	+·013	90·4	72·8	17·6	80·0	+1·3	71·6	65·9	−3·4	62	−11	·637	146·9	68·1	0·000	..	0·6
2	29·799	+·023	88·9	73·4	15·5	79·7	+1·0	72·6	67·8	−1·5	67	− 6	·680	150·0	68·0	0·405	160	0·4
3	29·818	+·044	87·8	72·7	15·1	79·4	+0·7	73·8	69·9	+0·5	72	− 1	·731	148·7	70·3	0·460	135	0·0
4	29·833	+·061	89·7	72·0	17·7	79·9	+1·2	73·0	68·3	−1·2	68	− 6	·692	149·9	68·0	0·000	..	0·0
5	29·811	+·041	88·9	70·8	18·1	79·4	+0·6	71·3	65·7	−3·9	63	−11	·633	147·4	65·5	0·000	..	1·9
6	29·764	−·005	88·0	71·6	16·4	79·4	+0·6	71·6	66·2	−3·4	64	−10	·644	147·6	65·7	0·325	65	2·4
7	29·733	−·034	88·5	71·6	16·9	79·2	+0·4	72·0	67·0	−2·7	66	− 8	·661	146·9	67·2	0·090	30	2·9
8	29·721	−·044	89·6	70·2	19·4	78·9	+0·1	72·6	68·3	−1·5	70	− 4	·692	147·4	65·8	0·065	50	2·2
9	29·737	−·026	89·5	70·6	18·9	80·6	+1·8	72·1	66·3	−3·5	62	−13	·646	145·8	65·8	0·000	..	2·2
10	29·651	−·110	89·0	77·7	11·3	82·1	+3·2	75·7	71·4	+1·5	70	− 5	·769	147·1	73·1	0·010	10	2·2
11	29·558	−·201	85·9	77·8	8·1	81·0	+2·1	75·3	71·4	+1·4	73	− 2	·769	146·7	74·5	0·155	67	2·6
12	29·407	−·350	78·9	72·6	6·3	76·0	−2·9	73·6	71·9	+1·9	87	+12	·782	78·9	72·6	5·785	1125	2·4
13	29·542	−·213	77·6	71·3	6·3	74·6	−4·3	73·2	72·2	+2·1	92	+17	·790	77·6	71·3	6·880	805	2·9
14	29·745	−·008	82·8	75·9	6·9	78·2	−0·7	75·2	73·1	+3·0	84	+ 9	·815	134·1	73·9	0·030	45	3·8
15	29·783	+·032	82·2	76·0	6·2	78·1	−0·8	75·6	73·9	+3·7	87	+12	·837	118·6	74·1	0·145	165	3·7
16	29·797	+·048	84·8	75·7	9·1	78·6	−0·3	75·8	73·9	+3·7	86	+11	·837	150·4	73·5	0·005	8	3·2
17	29·845	+·098	87·5	74·8	12·7	80·0	+1·1	75·5	72·4	+2·1	78	+ 2	·796	151·0	72·2	0·000	..	3·0
18	29·873	+·128	89·7	73·6	16·1	80·7	+1·7	75·2	71·5	+1·2	74	− 2	·772	154·6	69·5	0·000	..	3·0
19	29·874	+·13[illegible]	86·8	73·2	13·6	78·9	−0·1	73·9	70·5	+0·1	76	0	·746	134·5	67·9	0·000	..	2·4
20	29·872	+·131	86·9	72·8	14·1	80·0	+1·0	73·3	68·7	−1·7	69	− 7	·701	145·4	67·8	0·000	..	1·0
21	29·853	+·113	86·7	71·9	14·8	79·4	+0·4	73·6	69·6	−0·9	72	− 4	·723	144·1	69·0	0·115	40	0·2
22	29·826	+·088	87·4	72·0	15·4	79·7	+0·8	73·7	69·6	−0·9	71	− 5	·723	145·8	67·7	0·000	..	0·3
23	29·860	+·123	88·9	71·6	17·3	79·6	+0·7	73·6	69·5	−1·0	71	− 5	·721	151·0	66·7	0·000	..	0·2
24	29·830	+·095	85·9	72·5	13·4	79·9	+1·0	74·0	70·0	−0·6	72	− 4	·733	131·9	67·8	0·035	17	2·5
25	29·696	−·038	78·8	71·9	6·9	76·3	−2·6	73·6	71·7	+1·1	86	+10	·777	88·6	74·8	3·040	718	3·7
26	29·831	+·098	81·8	75·5	6·3	78·2	−0·7	74·8	72·5	+1·9	83	+ 7	·799	129·5	69·2	0·000	..	1·9
27	29·894	+·162	84·3	72·9	11·9	78·3	−0·6	74·3	71·5	+0·8	80	+ 4	·772	147·0	72·2	0·000	..	2·3
28	29·941	+·210	84·9	71·6	13·3	78·6	−0·3	74·2	71·2	+0·5	78	+ 2	·764	147·7	66·5	0·000	..	3·3
29	29·898	+·168	85·6	70·5	15·1	78·7	−0·2	72·7	68·6	−2·1	71	− 5	·699	145·0	65·1	0·000	..	3·5
30	29·826	+·097	86·4	73·7	12·7	79·7	+0·8	73·9	70·0	−0·7	72	− 4	·733	146·9	69·9	0·000	..	3·2
31	29·829	+·101	85·9	74·3	11·6	79·5	+0·6	74·0	70·2	−0·5	73	− 3	·738	146·5	70·0	0·000	..	3·3
Mean	29·782	+·032	86·1	73·1	13·0	79·1	+0·2	73·7	70·0	−0·2	74·2	−0·9	·736	138·5	69·5	Sum 17·545	Sum 3440	2·2
Average	29·750	..	86·4	72·9	13·5	78·9	..	73·8	70·2	..	75·1	..	·737	147·3	69·0	8·187	2195	3·4
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

From January 4d. 1h to 8d. 13h the barometer fell steadily from 29·853 ins. to 29·700 ins., and the mean temperature fell from 79°·9 to 78°·9. The wind veered from E. by N. on the 4th to E. on the 6th, and then backed to E.N.E. on the 8th. The weather was generally fine during the daytime, though 0·48 in. of rain fell from the 6th to the 8th. This disturbance was probably produced by a cyclone 900 miles to the north-eastward of Mauritius.

During the passage of a cyclone from N.N.E. to W. and S.W. of Mauritius the barometer fell from 29·775 ins. at 4h on January 9th to 29·216 ins. on the 12th, and rose to 29·900 ins. by 13h on the 18th. The mean temperature fell from 82°·1 on the 10th to 74°·6 on the 13th, and rose to 80°·7 on the 18th. The mean vapour tension increased from 0·646 in. on the 9th to 0·837 in. on the 15th and 16th, and decreased to 0·701 in. on the 20th. The wind backed from E.S.E. on the 10th to N. by W. on the 16th, and veered to E. on the 20th; its maximum velocity for one hour was 72·0 miles at 23h on the 12th.

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Jan. 1	2·5	9·7	73	+ 0·4	+ 8·9	93	8·9	+ 2	+ 0·4	9·5	79·5	77·15	b. : c.f.
2	4·9	10·1	76	− 0·5	+ 9·2	87	9·2	− 3	+ 0·7	10·1	79·5	77·15	b. : c.f. : c.p.
3	4·6	11·3	85	+ 1·2	+ 8·1	98	8·2	+ 8	− 0·3	8·8	79·7	77·20	c.r. : c.f.
4	4·9	11·0	83	+ 1·6	+ 7·3	102	7·5	+ 12	− 1·0	7·6	79·7	77·20	c.f.
5	2·5	11·9	90	+ 0·1	+ 8·6	91	8·6	+ 2	+ 0·1	9·1	79·8	77·20	b. : c.f.
6	3·0	10·9	83	0·0	+ 9·5	90	9·5	+ 1	+ 1·0	9·9	79·8	77·20	c.p. : c.f. : c.p.
7	4·9	11·1	84	+ 1·3	+ 8·6	99	8·7	+ 10	+ 0·2	9·6	79·9	77·20	c.f. : c.p.
8	5·1	9·6	73	+ 3·6	+ 6·9	118	7·8	+ 29	− 0·7	8·8	80·0	77·25	c. : c.p. : c.f.
9	2·0	12·3	93	− 3·3	+ 9·5	71	10·1	− 17	+ 1·6	10·9	80·1	77·25	b. : c.f. : b.
10	5·5	10·2	77	− 9·0	+23·1	69	24·8	− 19	+16·3	25·0	80·2	77·25	c.f. p. : o.
11	9·6	1·8	14	+ 6·7	+30·6	102	31·4	+ 14	+22·9	31·8	80·2	77·25	c.p.q.
12	10·0	0·0	0	+20·7	+36·0	120	41·5	+ 33	+33·1	42·1	80·3	77·25	o.q.r.
13	10·0	0·0	0	+39·7	+22·4	151	45·4	+ 64	+37·0	46·1	81·3	78·80	o.q.r. : o.q.
14	9·9	0·5	3	+23·0	+12·5	151	26·1	+ 64	+17·7	26·5	81·7	79·40	o.q. : c. : c.q.p. : o.p.
15	9·8	0·6	5	+15·1	+ 2·2	172	15·3	+ 86	+ 6·9	15·8	81·4	78·80	p. : c.q. : p.c.
16	9·5	2·6	20	+ 9·9	− 1·3	187	10·0	+ 101	+ 1·6	10·4	81·2	78·50	p.o. : c.
17	8·6	2·7	21	+ 4·6	+ 3·2	145	5·6	+ 59	− 2·8	6·9	81·0	78·20	c.
18	7·4	8·7	67	+ 5·5	+ 3·7	146	6·7	+ 60	− 1·7	8·0	80·9	78·10	c. : c.f.
19	7·4	6·2	47	+ 1·6	+ 1·8	132	2·4	+ 46	− 6·0	6·5	80·8	78·00	c.f. : c.
20	4·7	11·6	89	− 0·5	+ 8·1	86	8·1	+ 1	− 0·3	8·6	80·7	77·90	c.f.
21	4·1	12·0	92	+ 0·2	+ 8·4	91	8·4	+ 6	0·0	8·8	80·6	77·80	p. c.f.
22	4·4	12·1	92	+ 1·2	+ 6·9	100	7·0	+ 15	− 1·4	7·4	80·5	77·75	c.f.
23	4·1	10·2	78	+ 0·9	+ 7·1	97	7·1	+ 12	− 1·3	7·7	80·5	77·70	c.f.
24	8·5	5·2	39	− 6·0	+ 9·0	56	10·8	− 28	+ 2·4	11·1	80·4	77·70	c.p. : c.
25	9·9	0·0	0	− 2·6	+24·5	84	24·6	0	+16·3	26·3	80·4	77·70	c.q. : o.q.p. l.t.
26	9·4	0·4	3	+ 5·3	+12·2	114	13·3	+ 30	+ 5·0	13·5	80·7	77·80	c. : o.
27	7·3	6·9	53	+ 2·1	+ 9·0	103	9·2	+ 19	+ 0·9	9·5	80·7	77·80	c.
28	4·9	10·1	78	+ 0·8	+ 9·8	95	9·8	+ 11	+ 1·5	10·0	80·6	77·70	b. : c.f. : c.
29	2·9	12·2	94	− 3·3	+10·2	72	10·7	− 11	+ 2·4	10·8	80·5	77·70	b. : c.f.
30	4·0	11·0	84	− 1·1	+11·9	85	11·9	+ 2	+ 3·6	12·1	80·4	77·70	c.f.
31	4·2	11·2	86	− 1·7	+11·6	82	11·7	− 1	+ 3·4	11·9	80·4	77·75	c.f.
Mean	6·1	7·55	57·4	+ 3·79	+10·95	109·5	11·59	+23·1	+ 3·17	14·23	80·43	77·72	..
Average	6·4	7·69	58·6	− 0·52	+ 8·40	86·4	8·42	..	..	11·07	79·92	77·12	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

During the passage of a cyclone to N. and N.W. of Mauritius the barometer fell from 29·900 ins. at 13h on the 18th to 29·643 ins. at 16h on the 25th (with a slight break on the 23rd), and rose to 29·965 ins. by 13h on the 28th. The mean temperature oscillated between 79°·4 and 80°·7 from the 18th to 24th, and fell to 76°·3 on the 25th; then rose to 79°·7 on the 30th. The vapour tension increased from 0·701 in. on the 20th to 0·799 in. on the 26th, and then decreased to 0·699 in. on the 29th. The wind veered from E. by N. on the 22nd to S.E. by E. on the 24th, backed to E.N.E. on the 26th, and veered to E.S.E. on the 29th; its maximum velocity for one hour was 38·0 miles at 16h on the 25th. From the 21st to the 25th, 3·19 ins. of rain fell.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation = 100). Mean.	Degree of Humidity (Saturation = 100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
Feb. 1	29·836	+·109	85·2	73·5	11·7	78·9	0·0	72·8	68·6	−2·2	71	− 5	·699	145·2	68·7	0·045	20	3·2
2	29·812	+·086	86·3	72·3	14·0	79·2	+0·4	72·7	68·2	−2·6	69	− 7	·689	143·4	67·4	0·000	..	3·3
3	29·803	+·077	87·3	74·0	13·3	78·2	−0·6	73·4	70·1	−0·7	76	0	·736	148·4	69·0	0·210	75	3·8
4	29·802	+·076	86·6	72·9	13·7	77·8	−1·0	73·5	70·5	−0·3	78	+ 1	·746	148·6	68·5	0·720	95	4·0
5	29·771	+·046	85·1	70·2	14·9	76·3	−2·5	72·4	69·6	−1·3	80	+ 3	·723	145·7	65·8	0·020	20	3·4
6	29·799	+·074	86·1	69·7	16·4	76·7	−2·1	72·7	69·9	−1·0	80	+ 3	·731	153·1	65·0	0·000	..	3·0
7	29·788	+·063	86·5	69·9	16·6	78·3	−0·4	72·0	67·7	−3·2	70	− 7	·678	148·6	63·9	0·000	..	3·0
8	29·749	+·024	83·4	69·3	14·1	75·2	−3·5	70·0	66·3	−4·6	74	− 3	·646	147·4	63·0	0·000	..	3·0
9	29·744	+·019	85·5	65·4	20·1	75·4	−3·3	69·4	65·1	−5·8	70	− 7	·620	152·9	58·9	0·000	..	1·7
10	29·737	+·011	85·6	63·8	21·8	76·0	−2·7	69·9	65·6	−5·3	70	− 7	·630	150·7	57·0	0·000	..	0·4
11	29·736	+·010	83·7	69·3	14·4	77·5	−1·1	72·8	69·5	−1·4	76	− 1	·721	150·5	63·9	0·020	17	2·2
12	29·754	+·027	88·0	73·1	14·9	80·0	+1·4	75·1	71·8	+0·8	76	− 1	·779	149·7	69·5	0·035	55	1·3
13	29·744	+·017	86·7	73·4	13·3	79·4	+0·8	74·8	71·6	+0·6	77	0	·774	151·6	68·5	0·040	30	0·0
14	29·725	−·002	85·9	71·8	14·1	78·2	−0·3	73·6	70·4	−0·6	77	0	·744	150·0	66·4	0·185	50	0·0
15	29·760	+·032	86·9	71·5	15·4	79·1	+0·6	73·9	70·3	−0·7	75	− 2	·741	148·9	66·0	0·000	..	0·3
16	29·787	+·058	83·7	73·5	10·2	77·5	−1·0	74·4	72·2	+1·2	84	+ 6	·790	145·1	68·7	0·785	257	3·3
17	29·773	+·043	85·1	73·7	11·4	77·4	−1·1	73·9	71·4	+0·4	82	+ 4	·769	156·2	70·7	0·080	90	4·7
18	29·793	+·062	85·2	73·8	11·4	79·7	+1·2	74·9	71·6	+0·6	76	− 2	·774	145·0	68·6	0·000	..	4·2
19	29·869	+·137	88·4	73·9	14·5	80·2	+1·8	75·7	72·6	+1·6	78	0	·802	155·4	69·3	0·000	..	2·8
20	29·880	+·147	87·6	72·5	15·1	80·0	+1·6	75·0	71·6	+0·6	76	− 3	·774	148·7	67·6	0·000	..	2·6
21	29·798	+·064	85·5	69·3	16·2	75·8	−2·5	72·0	69·3	−1·7	80	+ 1	·716	147·1	69·0	1·075	225	3·6
22	29·760	+·025	83·1	66·6	16·5	74·6	−3·7	71·2	68·8	−2·2	82	+ 3	·704	146·1	61·0	0·115	75	3·7
23	29·826	+·090	84·6	72·7	11·9	78·9	+0·6	75·4	73·0	+2·0	82	+ 3	·812	146·0	68·5	0·050	8	1·3
24	29·833	+·096	85·6	73·8	11·8	79·4	+1·2	75·8	73·3	+2·3	82	+ 3	·820	149·9	69·0	0·000	..	0·6
25	29·801	+·063	86·1	74·8	11·3	79·5	+1·3	75·9	73·4	+2·5	82	+ 3	·823	141·6	72·1	0·040	30	1·0
26	29·815	+·076	87·4	73·9	13·5	79·0	+0·9	75·8	73·6	+2·7	84	+ 5	·829	149·4	68·9	0·030	30	1·0
27	29·827	+·087	87·3	75·6	11·7	79·8	+1·7	75·9	73·2	+2·3	81	+ 2	·818	156·4	71·9	0·000	..	1·7
28	29·825	+·084	86·7	75·0	11·7	79·9	+1·8	75·2	72·0	+1·1	77	− 2	·785	148·7	69·9	0·000	..	2·0
Mean	29·791	+·060	85·9	71·8	14·1	78·1	−0·4	73·6	70·4	−0·5	77·3	−0·4	·745	148·9	67·0	Sum 3·450	Sum 1077	2·3
Average	29·731	..	85·7	72·9	12·8	78·5	..	74·1	70·9	..	77·7	..	·757	147·9	68·7	7·585	2032	3·2
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

During the month of February the pressure oscillations were small; there was a general decrease of pressure from 29·859 ins. at 13h on the 1st to 29·708 ins. at 14h on the 10th, a gradual increase from 29·712 ins. at 0h on the 14th to 29·905 ins. at 8h on the 20th, and a more rapid decrease to 29·720 ins. at 1h on the 22nd, increasing again to 29·851 ins. by 4h on the 24th. The curves of mean temperature, vapour tension, and wind velocity followed generally the pressure curve, the coincidence of minima in each of the curves being particularly marked. Heavy rain fell

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Feb. 1	3·9	11·2	86	−1·4	+11·0	83	11·1	0	+ 2·8	11·5	80·4	77·80	c.p. : c.f.
2	2·9	11·9	92	−4·1	+ 8·7	65	9·6	− 18	+ 1·3	9·8	80·4	77·80	b. : c.f.
3	5·1	6·8	53	−3·0	+ 7·7	69	8·2	− 14	− 0·1	9·5	80·4	77·80	c.f. : c.p.
4	6·5	5·9	46	−2·7	+ 4·1	57	4·9	− 25	− 3·3	6·4	80·5	77·90	b. : c.f. : o.r.t. : c.f.
5	5·7	5·1	39	−3·2	+ 0·8	14	3·3	− 68	− 4·9	5·1	80·6	77·95	b. : c.f. : c.p. : c.f.
6	5·5	7·5	58	−1·6	+ 2·2	54	2·7	− 28	− 5·5	6·2	80·7	78·00	b. : c.f. : c. : c.f.
7	2·2	10·7	83	−3·1	+ 1·5	26	3·5	− 56	− 4·7	7·1	80·7	78·00	b. : c. : c.f.
8	6·5	2·9	23	−3·3	+ 2·3	45	4·0	− 37	− 4·2	6·1	80·7	78·00	b. : c. : c.f.
9	3·7	8·8	68	−1·7	+ 0·7	22	1·8	− 60	− 6·4	5·2	80·7	78·00	b. : c.
10	2·2	11·3	88	−1·4	− 0·2	352	1·4	+ 270	− 6·8	5·6	80·7	78·00	b. : c.f.
11	8·4	2·6	20	−3·2	+ 4·0	51	5·1	− 31	− 3·1	6·8	80·7	78·00	c.p. : c.f.
12	6·6	7·6	59	−0·2	+ 2·5	85	2·5	+ 4	− 5·6	6·0	80·8	78·00	c.p. : c.f.
13	5·2	9·6	76	−1·1	+ 0·3	15	1·2	− 66	− 6·9	6·1	80·9	78·10	c.f. : c.p.
14	6·5	8·0	63	−1·7	+ 0·9	28	2·0	− 53	− 6·1	5·0	80·8	78·10	c.f. : c.p.l.
15	4·1	11·0	87	+0·1	+ 8·2	91	8·2	+ 10	+ 0·1	8·5	80·8	78·15	b. : c.f.
16	8·6	4·4	34	−2·7	+ 8·5	72	8·9	− 9	+ 0·8	9·8	80·9	78·20	c.p. : c. : c.p.
17	9·5	3·5	28	−1·8	+ 9·2	79	9·4	− 2	+ 1·3	10·1	80·9	78·25	c.p. : c.
18	3·4	10·7	85	−0·1	+ 7·9	89	7·9	+ 8	− 0·2	8·6	80·9	78·25	c.f. t.
19	5·0	8·8	70	−0·3	+ 5·7	87	5·7	+ 6	− 2·4	7·2	80·9	78·25	b. : c.f.
20	5·7	7·7	61	−2·6	+ 1·9	36	3·2	− 45	− 4·9	6·5	80·9	78·25	b. : c.f. l.t.
21	8·7	6·0	47	−2·0	+ 3·2	58	3·8	− 23	− 4·2	6·2	80·9	78·25	c. : o.r.t.l.
22	7·2	4·6	37	−1·4	+ 5·1	75	5·3	− 5	− 2·7	6·1	80·9	78·25	l. c.f. : c.p. : c.f.
23	3·5	9·7	77	0·0	+ 8·1	90	8·1	+ 10	+ 0·1	8·8	80·9	78·25	b. : c.f. : p : c.f.
24	7·7	7·4	59	−0·5	+ 7·1	86	7·1	+ 6	− 0·9	7·3	80·9	78·25	c. : c.t.l.
25	7·6	4·9	39	+0·2	+ 5·3	92	5·3	+ 12	− 2·7	5·9	81·0	78·25	c. : c.p.t-sm.
26	7·5	4·8	39	+2·0	+ 2·5	129	3·2	+ 49	− 4·8	6·4	81·1	78·25	p.c. : c.t.l.
27	9·4	3·7	30	+1·4	+ 5·8	104	6·0	+ 24	− 2·0	6·6	81·2	78·25	o. : c. : c.p.t.
28	5·6	8·7	70	+1·0	+ 6·7	98	6·8	+ 18	− 1·2	6·8	81·2	78·25	c. : c.f. : c.f.t.l. : c.f.
Mean	5·9	7·35	57·8	−1·37	+ 4·70	73·8	4·90	− 7·4	− 3·23	7·19	80·80	78·10	..
Average	6·3	7·21	56·7	−1·24	+ 8·03	81·2	8·13	..	..	10·99	80·74	77·64	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

with a high, steady barometer on the 3rd and 4th, with a high, rising barometer on the 16th, and with a high, falling barometer on the 21st. The wind during the month was variable and light, particularly from the 4th to the 15th, the 19th to the 22nd, and on the 26th.

At the time of the principal barometric minimum the *S.S. Aldgate* experienced a strong S.E. gale while sailing from latitude 27° S. and longitude 40° E. on the 12th, to latitude 26° S. and longitude 46° E. on the 15th.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation=100). Mean.	Degree of Humidity (Saturation=100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
March 1	29·792	+·048	87·5	71·6	15·9	78·2	+0·2	74·3	71·6	+0·7	80	+ 1	·774	145·0	64·9	0·320	35	2·0
2	29·768	+·023	86·6	71·6	15·0	78·9	+0·9	74·9	72·1	+1·2	80	+ 1	·788	148·0	66·0	0·000	..	0·7
3	29·756	+·009	86·7	72·8	13·9	79·6	+1·7	74·9	71·7	+0·8	77	− 2	·777	139·7	67·7	0·000	..	0·0
4	29·712	−·036	86·7	72·5	14·2	78·1	+0·2	75·0	72·9	+2·0	84	+ 5	·810	149·6	67·4	0·200	100	2·2
5	29·716	−·033	83·3	74·8	8·5	78·4	+0·6	73·6	70·3	−0·6	76	− 4	·741	147·1	70·0	0·000	..	3·5
6	29·767	+·017	87·1	74·2	12·9	79·3	+1·5	75·0	72·0	+1·2	78	− 2	·785	148·7	67·3	0·480	100	3·2
7	29·815	+·063	87·1	73·8	13·3	79·6	+1·8	75·3	72·4	+1·6	79	− 1	·796	156·4	67·9	0·180	45	3·9
8	29·824	+·071	87·1	75·1	12·0	80·6	+2·9	75·5	72·0	+1·2	75	− 5	·785	151·6	68·4	0·030	25	3·3
9	29·816	+·061	86·6	74·4	12·2	79·2	+1·5	75·1	72·3	+1·5	80	0	·793	154·3	68·1	0·015	40	1·5
10	29·786	+·030	86·7	71·8	14·9	79·1	+1·5	74·8	71·8	+1·0	78	− 2	·779	148·7	65·0	0·000	..	2·3
11	29·733	−·025	85·8	71·8	14·0	79·1	+1·5	74·9	72·0	+1·3	79	− 1	·785	146·0	69·2	0·657	195	2·4
12	29·693	−·066	86·4	69·8	16·6	77·4	−0·1	73·6	70·9	+0·2	80	0	·756	155·0	64·0	0·000	..	1·0
13	29·699	−·062	87·1	69·8	17·3	78·5	+1·0	74·6	71·9	+1·2	80	0	·782	144·1	63·0	0·000	..	0·8
14	29·731	−·031	85·7	71·6	14·1	78·1	+0·7	74·3	71·7	+1·0	81	+ 1	·777	144·3	64·2	0·000	..	0·4
15	29·745	−·019	87·9	69·9	18·0	78·8	+1·5	74·9	72·2	+1·5	80	0	·790	151·8	62·2	0·020	10	0·0
16	29·742	−·024	88·2	72·6	15·6	79·7	+2·4	75·5	72·6	+2·0	79	− 1	·801	147·1	64·8	0·000	..	0·0
17	29·711	−·056	86·9	73·0	13·9	79·6	+2·4	75·5	72·7	+2·1	80	0	·804	147·8	65·7	0·000	..	1·9
18	29·678	−·091	86·6	75·7	10·9	79·7	+2·5	75·9	73·3	+2·7	81	+ 1	·820	143·0	67·2	0·075	120	3·6
19	29·672	−·098	83·6	77·7	5·9	79·7	+2·6	77·0	75·2	+4·7	86	+ 6	·874	136·0	73·1	0·260	142	3·4
20	29·717	−·055	83·3	76·1	7·2	78·0	+0·9	76·5	75·5	+5·0	92	+ 12	·883	136·9	73·0	0·660	360	3·0
21	29·737	−·037	84·7	74·5	10·2	78·9	+1·9	76·6	75·0	+4·6	88	+ 8	·868	141·4	72·4	0·855	305	3·0
22	29·768	−·007	83·3	73·8	9·5	77·6	+0·6	75·8	74·6	+4·2	91	+ 10	·857	130·9	70·0	0·040	80	2·4
23	29·750	−·027	86·5	73·8	12·7	79·6	+2·7	76·5	74·4	+4·0	84	+ 3	·851	150·1	68·9	0·000	..	2·6
24	29·741	−·038	81·6	74·9	6·7	77·3	+0·4	74·1	71·9	+1·6	83	+ 2	·782	134·3	70·0	0·055	40	4·8
25	29·719	−·062	82·3	72·9	9·4	77·3	+0·5	71·8	68·0	−2·3	73	− 8	·684	146·9	67·3	0·000	..	5·4
26	29·705	−·078	83·0	72·6	10·4	76·6	−0·1	71·3	67·6	−2·6	74	− 7	·675	155·2	66·1	0·000	..	5·3
27	29·712	−·072	81·0	71·4	9·6	75·0	−1·7	72·5	70·7	+0·5	86	+ 5	·751	132·1	65·2	1·590	415	5·8
28	29·732	−·054	76·7	71·4	5·3	74·1	−2·5	72·9	72·0	+1·9	93	+ 12	·785	93·8	66·7	1·660	650	3·6
29	29·767	−·021	75·8	72·6	3·2	74·2	−2·4	73·1	72·3	+2·2	94	+ 13	·793	78·6	68·0	2·170	565	2·0
30	29·749	−·041	84·6	71·6	13·0	76·7	+0·2	74·1	72·3	+2·3	86	+ 5	·793	146·0	67·4	0·070	80	2·6
31	29·747	−·045	86·4	70·7	15·7	78·1	+1·6	74·0	71·2	+1·2	80	− 1	·764	146·2	63·5	0·000	..	2·4
Mean	29·742	−·024	84·9	72·9	12·0	78·2	+0·9	74·6	72·2	+1·7	81·9	+1·9	·790	141·8	67·2	Sum 9·337	Sum 3307	2·5
Average	29·766	..	84·2	72·0	12·2	77·3	..	73·3	70·5	..	80·0	..	·747	145·5	68·0	9·763	2823	3·8
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

During the month of March there were five barometric minima and four maxima. The fall from 29·842 ins. at 18h on the 26th of February to 29·692 ins. at 22h on the 4th of March was characterised by much lightning and thunder, with temperature and vapour tension above the average, and light variable winds; heavy rain fell on the 1st, 4th, 6th, and 7th. The barometric depression which culminated at 3h on the 19th was produced by the passage of a small cyclone to the North of Mauritius travelling westward. The wind veered from E. by N. on

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
March 1	4·5	8·3	67	– 2·1	+ 2·4	49	3·2	– 31	– 4·8	5·9	81·2	78·25	c.f. : c.p.t.l.
2	4·6	9·6	78	+ 1·4	+ 1·7	130	2·1	+ 50	– 5·9	4·7	81·1	78·25	b. : c.f.t.l.
3	2·7	11·1	90	+ 1·3	– 2·7	244	3·0	+ 164	– 5·0	4·9	81·1	78·25	b. : c.f.t.
4	7·2	6·2	50	– 1·7	– 0·5	344	1·8	+ 264	– 6·2	6·2	81·3	78·25	p.c. : c.f. : c.t.r. : p.c.
5	7·1	7·8	63	– 7·6	+ 9·7	52	12·3	– 28	+ 4·3	12·5	81·3	78·25	c.f.
6	6·2	7·8	63	– 4·7	+ 6·4	54	7·9	– 25	– 0·1	8·8	81·3	78·25	c.f. : c.r. : c.
7	4·9	5·9	48	– 4·0	+ 3·1	38	5·0	– 41	– 3·0	6·6	81·3	78·25	b. : c.f. : c.p. : c.f.
8	3·0	10·2	83	– 4·1	+ 8·4	64	9·4	– 15	+ 1·4	9·9	81·3	78·30	b. : c.f. : c.p.
9	5·2	10·1	82	– 0·3	+ 8·6	88	8·6	+ 9	+ 0·6	8·9	81·3	78·30	c.p. : c.f.
10	5·1	8·1	66	– 2·7	+ 2·8	46	3·9	– 33	– 4·1	5·3	81·3	78·20	c.f. : c.
11	4·9	8·2	67	– 0·1	+ 7·1	89	7·1	+ 10	– 0·9	7·6	81·3	78·20	c.r. : c.f.
12	4·7	9·0	73	+ 1·6	+ 2·2	126	2·7	+ 47	– 5·3	5·6	81·2	78·20	b. : c. : c.f.
13	5·0	10·6	87	+ 1·3	+ 0·3	167	1·4	+ 88	– 6·6	5·4	81·2	78·25	c.f. l.t.
14	5·6	10·3	84	+ 3·0	– 2·4	219	3·8	+ 140	– 4·2	5·2	81·1	78·25	l. c.f.
15	4·2	9·9	81	+ 1·3	+ 4·0	108	4·2	+ 29	– 3·8	6·6	81·1	78·30	b. : c.f. : c.p.
16	3·6	9·7	80	– 1·0	+ 2·5	68	2·7	– 10	– 5·4	5·5	81·1	78·30	b. : c.f.
17	7·9	9·1	74	– 1·2	+ 7·4	81	7·5	+ 3	– 0·6	8·1	81·3	78·35	
18	5·7	7·6	63	– 2·7	+ 11·6	77	11·9	– 1	+ 3·8	12·3	81·4	78·40	c.f. : c.p. c.
19	9·7	2·3	19	0·0	+ 14·9	90	14·9	+ 12	– 6·8	15·2	81·5	78·40	c.p.
20	9·7	0·1	1	+ 1·4	+ 9·6	98	9·7	+ 20	+ 1·6	10·1	81·6	78·45	o.r.
21	9·7	4·5	37	+ 4·0	+ 4·4	132	6·0	+ 55	– 2·1	7·8	81·5	78·50	c.p.
22	9·7	0·9	7	+ 1·7	+ 1·0	150	2·0	+ 73	– 6·1	4·5	81·5	78·50	c.p. : o.
23	6·0	9·5	79	+ 0·2	– 1·3	261	1·3	+ 184	– 6·9	5·1	81·5	78·45	c. : c.f.
24	9·7	0·1	1	– 2·9	+ 8·5	71	9·0	– 5	+ 0·8	9·3	81·5	78·45	c.p. : c. : c.p.
25	8·6	7·4	62	– 4·7	+ 9·3	63	10·4	– 13	+ 2·2	10·6	81·5	78·45	c.f.
26	9·5	3·0	25	– 2·8	+ 9·2	73	9·6	– 3	+ 1·3	9·8	81·5	78·50	c.
27	9·0	0·4	3	– 2·6	+ 7·3	70	7·8	– 6	– 0·5	8·7	81·5	78·55	c. : c.r.
28	10·0	0·0	0	+ 1·6	+ 4·8	108	5·1	+ 33	– 3·2	6·6	81·7	78·70	o.r. : o.p. : o.
29	10·0	0·0	0	– 1·0	+ 3·1	72	2·3	– 3	– 6·0	5·3	81·8	78·80	o.r.t–sm. : t.l.o.
30	7·5	8·0	67	+ 1·7	+ 4·3	112	4·7	+ 37	– 3·6	7·7	82·1	78·70	t. c.f. l.
31	2·2	11·1	94	– 2·1	+ 2·3	48	3·1	– 27	– 5·2	5·4	81·8	78·40	b. : t.c.f.
Mean -	6·6	6·66	54·8	– 0·90	+ 4·84	79·5	4·92	+ 1·7	– 3·16	7·62	81·39	78·38	..
Average	6·4	6·72	55·3	– 1·70	+ 7·90	77·8	8·08	..	..	10·42	81·15	78·06	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

the 17th to E.S.E. on the 18th, then backed to N. on the 21st; its greatest velocity for one hour was 21 miles from 11^h to 12^h on the 20th. During the increase of pressure from 29·672 ins. at 4^h on the 26th, to 29·811 ins. at 12^h on the 29th, 5·42 ins. of rain fell, the vapour tension increased from 0·675 in. to 0·793 in., and the mean temperature fell from 77°·3 to 74°·1. On the 29th 1·38 in. of rain fell during a thunderstorm from 10^h to 13^h.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation=100). Mean.	Degree of Humidity (Saturation=100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
April 1	29·776	−·018	85·4	71·4	14·0	76·8	+0·4	73·7	71·5	+1·6	84	+ 3	·772	149·7	62·4	0·600	80	2·0
2	29·757	−·039	85·1	69·7	15·4	77·2	+0·9	73·9	71·6	+1·8	83	+ 2	·774	136·1	62·1	0·000	..	0·7
3	29·763	−·035	84·6	71·8	12·8	77·3	+1·0	74·9	73·2	+3·4	87	+ 6	·818	143·9	65·1	0·120	20	0·9
4	29·759	−·041	85·0	74·8	10·2	78·8	+2·6	75·7	73·6	+3·9	84	+ 3	·829	150·5	69·1	0·005	15	2·2
5	29·762	−·040	84·6	74·4	10·2	78·4	+2·3	75·6	73·7	+4·0	86	+ 5	·832	146·3	67·4	0·000	..	2·8
6	29·722	−·082	85·6	71·6	14·0	77·9	+1·8	75·0	73·0	+3·4	85	+ 4	·812	142·8	64·1	0·000	..	1·7
7	29·644	−·162	85·7	69·8	15·9	77·6	+1·6	74·6	72·5	+3·0	84	+ 3	·799	143·9	65·0	0·550	165	3·5
8	29·686	−·122	84·0	71·1	12·9	76·6	+0·7	74·0	72·2	+2·7	86	+ 5	·790	138·5	64·5	0·940	335	3·8
9	29·768	−·042	85·0	70·4	14·6	77·4	+1·5	73·9	71·5	+2·1	82	+ 1	·772	147·1	63·0	0·005	15	3·6
10	29·793	−·018	83·9	70·6	13·3	77·3	+1·5	73·7	71·2	+1·9	81	0	·764	146·4	62·2	0·000	..	4·0
11	29·806	−·007	84·8	73·5	11·3	78·3	+2·5	75·1	72·9	+3·6	84	+ 3	·810	145·5	65·3	0·000	..	4·0
12	29·795	−·020	83·6	73·9	9·7	78·0	+2·3	74·4	71·9	+2·7	82	+ 1	·782	143·2	68·0	0·070	88	4·0
13	29·790	−·027	83·6	72·3	11·3	77·6	+2·0	73·7	71·0	+1·9	80	− 1	·759	141·7	65·9	0·020	10	4·6
14	29·757	−·062	83·0	68·8	14·2	76·1	+0·6	72·0	69·1	+0·1	79	− 2	·711	142·0	65·8	0·000	..	3·5
15	29·723	−·097	82·9	67·8	15·1	74·5	−0·9	70·9	68·3	−0·6	81	0	·692	146·0	62·0	0·580	92	4·0
16	29·757	−·065	79·1	63·6	15·5	72·6	−2·8	67·2	63·2	−5·6	72	− 9	·580	135·5	62·2	0·000	..	5·6
17	29·824	·000	77·4	62·6	14·8	70·5	−4·8	64·7	60·3	−8·5	70	− 11	·524	144·1	56·7	0·000	..	5·7
18	29·850	+·024	78·0	61·2	16·8	70·1	−5·1	65·3	61·6	−7·1	74	− 7	·548	141·1	54·4	0·000	..	6·5
19	29·810	−·018	78·8	64·6	14·2	71·7	−3·4	67·3	64·0	−4·6	77	− 4	·596	141·9	57·3	0·000	..	7·0
20	29·770	−·061	77·6	70·6	7·0	73·5	−1·5	70·1	67·6	−0·9	82	+ 1	·675	117·0	64·6	0·090	60	6·3
21	29·797	−·036	79·7	71·6	8·1	74·5	−0·4	71·6	69·5	+1·1	84	+ 3	·721	135·0	68·0	0.190	80	6·0
22	29·854	+·019	76·7	73·2	3·5	74·6	−0·2	71·9	70·0	+1·7	85	+ 4	·733	99·6	69·5	0·060	75	6·0
23	29·905	+·068	78·8	70·0	8·8	74·3	−0·4	68·6	64·4	−3·8	71	− 10	·605	131·1	68·4	0·005	10	5·4
24	29·829	−·010	78·7	67·7	11·0	72·6	−2·0	67·3	63·4	−4·7	73	− 8	·584	139·5	59·7	0·000	..	5·0
25	29·789	−·053	77·7	66·7	11·0	71·9	−2·6	69·0	66·8	−1·2	84	+ 3	·657	133·8	59·1	0·000	..	5·6
26	29·834	−·010	79·1	66·5	12·6	73·1	−1·3	68·0	64·2	−3·7	74	− 7	·601	131·9	60·0	0·000	..	3·9
27	29·890	+·044	81·3	67·9	13·4	73·9	−0·4	69·7	66·6	−1·2	78	− 2	·652	142·0	60·9	0·030	15	4·3
28	29·884	+·036	79·8	68·7	11·1	74·1	−0·1	69·5	66·1	−1·6	76	− 4	·641	134·5	66·5	0·005	15	5·8
29	29·872	+·022	78·7	65·5	13·2	73·1	−1·0	67·8	63·9	−3·7	73	− 7	·594	134·4	57·9	0·000	..	6·0
30	29·843	−·010	80·2	69·0	11·2	74·0	0·0	68·9	65·2	−2·2	74	− 6	·622	139·7	62·5	0·000	..	4·8
Mean	29·794	−·028	81·6	69·4	12·2	75·1	−0·2	71·3	68·4	−0·4	79·8	−1·1	·702	138·8	63·3	Sum 3·270	Sum 1075	4·3
Average	29·822	..	82·2	70·2	12·0	75·3	..	71·4	68·8	..	80·9	..	·704	141·3	65·6	5·030	1718	4·4
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The pressure was below normal from the 11th of March to the 16th of April, and the temperature above from the 13th of March to the 14th of April, except on the 26th to the 29th of March, while the vapour tension was above from the 6th of March to the 14th of April, except on the 25th and 26th of March. The latter portion of this long negative wave of pressure was accentuated by a further depression, the barometer falling from 29·795 ins. at 14h on the 1st to 29·617 ins. at 9h on the 7th, from which it rose to 29·820 ins. at 20h on the 11th. The

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
April 1	4·2	8·0	67	– 2·5	+ 4·5	61	5·2	– 13	– 3·2	6·1	81·8	78·40	b. : c.t-sm.r. : c.
2	2·5	11·3	95	+ 0·9	– 0·6	214	1·1	+ 140	– 7·3	4·6	81·7	78·35	b. : c.f.
3	8·2	7·5	64	+ 3·4	+ 1·6	155	3·8	+ 81	– 4·6	5·7	81·6	78·30	l.t. c.f. l.t.
4	7·6	8·4	72	– 0·2	+ 6·1	88	6·1	+ 15	– 2·3	6·7	81·6	78·25	p. c.f. : c.f.t.
5	7·6	7·8	66	+ 0·1	+ 7·1	91	7·1	+ 18	– 1·3	8·2	81·5	78·25	c.f. : c.l.
6	4·5	8·9	76	+ 3·8	+ 3·2	140	5·0	+ 67	– 3·5	6·6	81·4	78·25	l. c.f.
7	8·2	4·7	40	+ 5·3	+ 1·9	160	5·7	+ 88	– 2·8	8·8	81·4	78·25	c.f. : c. : o. : c.t-sm.r.
8	7·4	8·1	69	+ 0·5	– 1·7	254	1·8	+ 182	– 6·7	5·7	81·4	78·25	o.r. : c.f. : c.p.l.
9	3·1	9·8	84	– 2·2	+ 1·5	34	2·6	– 38	– 5·9	5·3	81·4	78·35	p.c. : b. : c.f. l.
10	5·0	8·7	75	– 4·1	+ 5·4	53	6·8	– 19	– 1·7	7·1	81·4	78·45	b. : c.f.
11	4·2	7·7	66	– 1·3	+ 6·6	79	6·7	+ 8	– 1·9	7·3	81·4	78·55	c.f. : c.f.t.l.
12	5·1	10·1	86	– 4·6	+ 8·8	62	9·9	– 9	+ 1·3	10·1	81·4	78·55	c.p. : c.f. : c.p.
13	4·0	10·9	94	– 5·1	+ 8·5	59	9·9	– 12	+ 1·3	10·0	81·4	78·60	p. c.f.
14	2·5	9·9	85	– 3·3	+ 7·8	67	8·5	– 4	– 0·1	8·7	81·4	78·60	c.f.
15	5·5	8·6	74	– 5·0	+ 4·0	39	6·4	– 31	– 2·2	6·8	81·3	78·55	c.f. : c.p.
16	3·7	9·5	82	–10·2	+ 4·2	22	11·0	– 48	+ 2·4	11·8	81·3	78·50	c.f.
17	5·1	7·0	60	– 7·3	+ 8·5	49	11·2	– 21	+ 2·6	11·4	81·3	78·45	c.f.
18	4·9	6·7	58	– 5·0	+ 8·2	59	9·6	– 11	+ 1·0	9·9	81·3	78·45	c.f. : c.
19	7·0	5·5	48	– 2·9	+ 8·1	70	8·6	+ 1	0·0	8·7	81·3	78·45	c.f. : c.
20	9·7	0·6	5	– 4·6	+12·5	70	13·3	+ 1	+ 4·7	13·7	81·3	78·45	c. : o.p.
21	9·4	2·3	20	– 3·1	+11·4	75	11·8	+ 6	+ 3·2	12·1	81·3	78·45	c.p.
22	10·0	0·0	0	– 7·5	+14·1	62	16·0	– 7	+ 7·4	16·1	81·2	78·40	o.p.
23	3·5	10·0	87	– 8·3	+15·8	62	17·8	– 7	+ 9·2	18·0	81·1	78·40	p. c.f.
24	2·7	10·4	90	– 4·5	+ 9·3	64	10·4	– 4	+ 1·8	10·5	81·0	78·40	b. : c.f.
25	6·4	5·0	44	– 5·2	+ 8·4	58	9·9	– 10	+ 1·3	10·0	81·0	78·35	c.f. : o. : c.f.
26	1·2	10·7	94	– 5·3	+ 8·4	58	9·9	– 10	+ 1·2	10·0	81·0	78·30	c.f.
27	3·5	8·8	77	– 3·6	+ 7·2	63	8·0	– 5	– 0·7	8·2	80·9	78·25	b. : c.f. p.
28	1·6	10·8	95	– 5·5	+11·7	65	13·0	– 3	+ 4·3	13·1	80·9	78·25	p. c.f.
29	1·2	10·8	95	– 5·6	+ 9·3	59	10·8	– 8	+ 2·1	11·0	80·8	78·25	b. : c.f.
30	3·9	10·4	92	– 5·2	+ 9·4	61	10·7	– 6	+ 2·0	10·8	80·7	78·25	c.f.
Mean -	5·1	7·96	68·6	– 3·27	+ 7·04	65·1	7·76	– 5·3	– 0·80	9·43	81·28	78·38	..
Average	5·7	7·31	63·1	– 2·87	+ 8·06	70·4	8·56	..	..	10·51	80·82	78·31	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

mean temperature fell from 78°·8 on the 4th to 76°·6 on the 8th and rose to 78°·3 on the 11th. The vapour tension increased from 0·772 in. on the 1st to 0·832 in. on the 5th, and decreased to 0·764 in. on the 10th. A remarkable fall of temperature followed, reaching 70°·1 on the 18th; the barometer rose to 29·868 ins. at 6h on the 18th, and the vapour tension decreased to 0·524 in. on the 17th.

The principal rainfall occurred at the times of barometric minima.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation=100). Mean.	Degree of Humidity (Saturation=100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0–10.)
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
May 1	29·787	−·068	81·6	71·0	10·6	75·6	+1·7	72·1	69·6	+2·3	82	+ 2	·723	142·7	61·0	0·045	35	4·6
2	29·773	−·084	82·5	73·7	8·8	77·5	+3·7	73·8	71·2	+4·0	81	+ 1	·764	134·0	70·2	0·005	30	6·3
3	29·821	−·038	82·7	75·1	7·6	78·0	+4·3	74·2	71·6	+4·5	81	+ 1	·774	136·6	72·0	0·000	..	6·3
4	29·830	−·031	83·9	72·9	11·0	77·9	+4·3	73·8	71·0	+4·0	79	− 1	·759	143·9	70·8	0·000	..	4·8
5	29·759	−·105	82·0	70·9	11·1	76·1	+2·6	71·5	68·2	+1·3	77	− 3	·689	139·7	65·2	0·000	..	4·9
6	29·762	−·104	80·1	70·3	9·8	74·4	+1·0	69·1	65·2	−1·6	73	− 7	·622	137·2	68·2	0·000	..	5·8
7	29·911	+·043	78·9	62·7	16·2	71·6	−1·7	64·3	58·8	−7·9	64	− 16	·496	137·4	54·1	0·000	..	5·1
8	30·022	+·152	77·2	68·2	9·0	72·2	−1·0	64·6	58·9	−7·6	63	− 17	·498	129·8	62·8	0·000	..	4·8
9	30·001	+·129	78·2	66·3	11·9	73·0	−0·1	67·0	62·6	−3·8	70	− 10	·568	136·7	57·7	0·000	..	4·7
10	29·929	+·054	79·2	68·3	10·9	73·2	+0·3	67·9	64·0	−2·3	73	− 7	·596	134·0	66·2	0·020	15	4·8
11	29·859	−·018	80·1	68·2	11·9	73·2	+0·4	68·7	65·4	−0·7	76	− 4	·626	139·5	62·5	0·000	..	5·3
12	29·873	−·007	79·5	67·7	11·8	72·9	+0·2	69·1	66·3	+0·3	80	0	·646	136·8	61·4	0·050	30	5·8
13	29·890	+·008	79·8	68·0	11·8	73·7	+1·1	69·4	66·3	+0·4	78	− 2	·646	134·8	65·0	0·000	..	5·4
14	29·875	−·010	81·6	68·0	13·6	74·1	+1·7	69·5	66·1	+0·4	76	− 4	·641	141·7	60·7	0·000	..	5·0
15	29·907	+·020	80·1	70·6	9·5	74·4	+2·1	68·8	64·7	−0·9	72	− 8	·611	135·1	64·5	0·000	..	5·3
16	29·944	+·054	80·3	67·2	13·1	72·8	+0·6	67·9	64·3	−1·1	75	− 4	·603	137·7	58·2	0·045	30	5·2
17	29·919	+·027	79·2	65·3	13·9	72·0	0·0	66·4	62·2	−3·1	71	− 8	·560	138·5	58·0	0·020	25	5·6
18	29·852	−·042	79·1	64·9	14·2	72·9	+1·0	67·6	63·7	−1·4	73	− 6	·590	133·7	55·3	0·000	..	6·0
19	29·785	−·112	81·7	72·7	9·0	76·1	+4·4	72·7	70·3	+5·4	82	+ 3	·741	134·2	64·0	0·000	..	4·8
20	29·831	−·068	81·0	71·9	9·1	76·0	+4·4	73·4	71·6	+6·8	86	+ 7	·774	133·8	70·0	0·135	160	4·0
21	29·825	−·077	81·9	70·0	11·9	75·3	+3·8	72·1	69·8	+5·2	83	+ 4	·728	139·6	68·9	0·005	30	3·4
22	29·840	−·064	82·7	67·5	15·2	73·8	+2·5	70·9	68·8	+4·3	84	+ 5	·704	135·2	60·2	0·000	..	2·4
23	29·887	−·020	81·2	66·7	14·5	73·2	+2·0	70·5	68·5	+4·2	85	+ 6	·697	140·3	60·2	0·050	45	2·6
24	29·971	+·062	76·5	69·8	6·7	72·5	+1·5	67·0	62·9	−1·2	72	− 7	·574	135·7	66·4	0·010	20	4·2
25	30·018	+·107	75·7	66·9	8·8	71·3	+0·4	63·7	57·9	−6·1	63	− 15	·480	128·2	63·5	0·090	70	3·8
26	30·000	+·086	77·1	67·2	9·9	71·9	+1·1	65·2	60·2	−3·6	67	− 11	·522	126·8	63·2	0·025	25	3·6
27	29·968	+·052	78·6	65·9	12·7	71·6	+0·9	65·7	61·3	−2·4	70	− 8	·543	129·3	63·2	0·000	..	5·2
28	29·950	+·031	78·8	65·3	13·5	71·2	+0·7	66·4	62·8	−0·7	75	− 3	·572	129·6	57·2	0·015	20	5·4
29	29·916	−·005	75·8	64·2	11·6	70·0	−0·4	67·6	65·8	+2·4	87	+ 9	·635	117·2	56·9	1·570	315	5·3
30	29·891	−·033	78·7	65·9	12·8	72·4	+2·1	68·8	66·1	+2·9	80	+ 2	·641	130·9	65·8	0·030	30	4·0
31	29·887	−·039	80·6	63·9	16·7	69·9	−0·3	67·4	65·5	+2·5	86	+ 8	·628	136·3	57·8	0·520	50	3·6
Mean	29·887	−·003	79·9	68·3	11·6	73·6	+1·5	68·9	65·5	+0·2	76·3	−3·0	·634	135·1	62·9	Sum 2·635	Sum 930	4·8
Average	29·890	..	78·8	66·5	12·3	72·1	..	68·1	65·3	..	79·3	..	·625	135·5	60·8	3·259	1398	4·7
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

A southern anticyclone passed the Meridian of Mauritius on the 8th. The barometer rose from 29·728 ins. at 3h on the 6th, to 30·050 ins. at 13h on the 8th, and fell to 29·847 ins. at 17h on the 11th. From the 3rd to the 7th, the mean temperature fell from 78°·0 to 71°·6, and the vapour tension decreased from 0·774 in. to 0·496 in., the former increasing to 73°·2 on the 10th, and the latter to 0·646 in. on the 12th. The wind backed from S.E. by S. on the 5th to E. by S. on the 11th; its south component decreased from 11·8 miles per hour on the 6th, to 1·4 on the 11th, and its east component increased from 6·9 miles per hour on the 5th, to 14·1 on the 8th, decreasing to 7·5 miles on the 12th.

The barometric depression which culminated at 7h on the 19th was followed by a second southern anticyclone; the barometer fell from

Month and Day, 1901.	Mean Amount of Cloud (Scale 0-10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
May 1	7·7	6·2	55	− 6·5	+ 9·5	56	11·5	− 11	+ 2·8	12·0	80·6	78·25	c.f. p.
2	6·0	8·7	77	− 7·5	+15·0	63	16·7	− 4	+ 8·0	16·9	80·6	78·25	c.p. : c.f.q. : c.
3	5·5	10·1	90	− 7·3	+12·8	60	14·8	− 7	+ 6·1	15·0	80·5	78·20	c.f.q.
4	5·4	10·5	93	− 4·9	+ 8·2	59	9·5	− 8	+ 0·7	9·6	80·4	78·20	c.f.q.
5	4·5	10·3	91	−10·1	+ 6·9	34	12·3	− 32	+ 3·5	12·7	80·4	78·20	c.f. : b.
6	3·0	10·1	90	−11·8	+10·5	42	15·8	− 24	+ 7·0	16·0	80·4	78·20	b. : c.f.
7	3·2	9·2	81	− 8·9	+ 9·5	47	13·0	− 19	+ 4·2	13·3	80·4	78·20	b. : c.f.
8	7·4	8·4	75	− 8·3	+14·1	59	16·3	− 7	+ 7·5	16·5	80·3	78·20	c.f.
9	4·1	8·3	74	− 5·4	+13·7	68	14·7	+ 2	+ 5·9	14·9	80·3	78·20	b. : c.f.
10	7·5	8·3	74	− 4·3	+12·8	71	13·5	+ 5	+ 4·7	13·8	80·2	78·20	c.f.
11	5·1	9·3	83	− 1·4	+ 9·9	82	10·0	+ 17	+ 1·2	10·4	80·2	78·20	b. : c.f.
12	6·5	4·1	37	− 4·1	+ 7·5	61	8·6	− 4	− 0·2	8·8	80·1	78·20	c.p. : c.
13	4·4	10·4	93	− 3·8	+10·1	69	10·8	+ 4	+ 2·0	11·0	80·0	78·20	c.f.
14	4·5	8·7	78	− 3·2	+10·0	72	10·5	+ 7	+ 1·6	10·9	80·0	78·20	c.f.
15	2·1	10·3	92	− 3·4	+11·5	74	12·0	+ 9	+ 3·1	12·2	79·9	78·20	b. : c.f.
16	4·2	9·8	89	− 4·0	+ 9·6	67	10·4	+ 2	+ 1·5	10·6	79·8	78·20	b. : c.f. p.
17	5·4	10·0	90	− 8·1	+ 8·5	46	11·7	− 19	+ 2·8	12·1	79·8	78·20	c.p. : c.f.
18	2·2	8·5	76	−10·8	+ 9·5	41	14·4	− 23	+ 5·4	14·7	79·7	78·20	b. c.f.
19	6·6	9·6	87	− 8·6	+13·3	57	15·8	− 7	+ 6·8	16·0	79·7	78·20	c.f.
20	8·2	8·2	74	− 0·3	+ 8·8	88	8·8	+ 24	− 0·2	9·1	79·7	78·20	c.p. : c.f. : p.
21	4·7	9·6	86	0·0	+ 6·7	90	6·7	+ 26	− 2·4	7·3	79·6	78·20	p. : c.f.
22	4·5	10·3	93	+ 0·9	− 0·5	209	1·0	+ 145	− 8·1	5·2	79·6	78·30	b. : c.f. : c. : c.f.
23	6·0	5·3	48	+ 0·9	− 1·2	233	1·5	+ 169	− 7·6	5·0	79·6	78·30	c. : c.p. : c.
24	6·7	7·4	68	−11·0	+11·0	45	15·6	− 19	+ 6·4	16·1	79·5	78·25	p. c.f.
25	8·4	6·3	57	− 6·3	+18·4	71	19·4	+ 8	+10·2	19·7	79·5	78·35	o. : c.f. : c.p.
26	7·4	7·9	72	− 4·6	+16·2	74	16·8	+ 11	+ 7·5	17·1	79·5	78·35	o. : c. : c.p. : c.f.
27	3·6	9·0	82	− 1·6	+12·0	82	12·1	+ 19	+ 2·8	12·3	79·4	78·40	c.f.
28	3·7	9·9	90	− 1·1	+ 9·5	83	9·6	+ 20	+ 0·3	9·8	79·4	78·40	c.p. : c.f.
29	6·7	3·7	33	− 1·7	+ 7·3	77	7·5	+ 14	− 1·9	8·2	79·4	78·45	c.f. : o.r.
30	3·5	7·1	65	− 1·1	+ 7·1	81	7·2	+ 19	− 2·2	7·8	79·4	78·40	c.p. : c.f.
31	4·9	6·1	56	− 2·4	+ 2·9	50	3·7	− 12	− 5·8	5·4	79·4	78·40	b. : c.p. : c.f.
Mean	5·3	8·44	75·8	− 4·86	+ 9·71	63·4	10·87	− 1·3	+ 1·87	11·95	79·91	78·25	..
Average	5·1	7·37	66·4	− 3·85	+ 8·13	64·7	9·00	..	..	10·27	79·71	78·39	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

29·961 ins. at 17h on the 16th, to 29·769 ins. at 7h on the 19th, and rose to 30·039 ins. at 8h on the 25th. The mean temperature rose from 72°·0 on the 17th, to 76°·1 on the 19th, and fell to 71°·3 on the 25th. The vapour tension increased from 0·560 in. on the 17th, to 0·774 in. on the 20th, and decreased to 0·480 in. on the 25th. The wind veered from E. by S. on the 15th to S.E. on the 18th, and backed to N.W. on the 23rd; its south component increased from 3·4 miles per hour on the 15th to 10·8 on the 18th, and decreased to −0·9 miles on the 23rd; its east component increased from 8·5 miles per hour on the 17th to 13·3 on the 19th, and decreased to −1·2 miles on the 23rd.

From the 19th to the 23rd there was a heavy S.W. gale, backing to S.E., between latitude 29° −26° S. and longitude 34° −47° E.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation=100). Mean.	Degree of Humidity (Saturation=100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	in.	mins.	
June 1	29·896	−·033	78·7	61·8	16·9	69·8	−0·2	65·1	61·5	−1·3	75	− 3	·546	133·8	56·3	0·000	..	3·7
2	29·933	+·001	77·6	59·8	17·8	69·0	−0·9	64·8	61·5	−1·2	77	− 1	·546	130·0	52·7	0·000	..	3·2
3	29·955	+·020	79·6	70·0	9·6	74·4	+4·6	70·5	67·7	+5·2	80	+ 3	·678	138·1	63·4	0·000	..	3·6
4	29·909	−·029	80·1	66·6	13·5	73·2	+3·5	69·4	66·6	+4·2	80	+ 3	·652	138·5	(67·0)	0·000	..	3·4
5	29·902	−·038	77·4	66·1	11·3	71·1	+1·5	68·3	66·2	+4·0	85	+ 8	·644	121·8	60·0	0·080	110	3·6
6	29·901	−·042	72·7	68·4	4·3	70·1	+0·6	66·2	63·2	+1·1	79	+ 2	·580	102·4	65·4	0·080	110	4·3
7	29·923	−·023	74·8	68·3	6·5	70·4	+1·0	64·2	59·4	−2·5	68	− 9	·507	138·6	66·0	0·000	..	4·8
8	29·921	−·028	75·6	66·8	8·8	70·1	+0·8	62·9	57·4	−4·4	64	− 13	·472	116·8	62·3	0·000	..	5·6
9	29·923	−·029	76·6	65·7	10·9	69·9	+0·7	63·5	58·6	−3·1	67	− 10	·492	137·5	58·7	0·000	..	5·4
10	29·946	−·008	74·4	63·9	10·5	68·9	−0·2	63·0	58·4	−3·2	69	− 8	·489	133·6	57·5	0·000	..	5·0
11	29·957	·000	70·9	61·7	9·2	65·5	−3·5	58·3	52·4	−9·0	63	− 14	·394	125·9	58·9	0·065	60	4·4
12	29·906	−·053	73·3	60·8	12·5	65·6	−3·3	61·5	58·2	−3·1	77	+ 1	·485	126·0	50·3	0·110	135	4·0
13	29·854	−·108	74·6	59·6	15·0	66·7	−2·1	62·8	59·7	−1·5	78	+ 2	·512	132·6	52·0	0·010	25	3·7
14	29·899	−·066	76·5	58·4	18·1	66·9	−1·8	62·7	59·3	−1·8	77	+ 1	·505	136·0	51·0	0·000	..	4·4
15	30·012	+·045	73·5	63·6	9·9	67·6	−1·0	61·5	56·7	−4·3	68	− 8	·461	129·0	54·0	0·015	15	4·4
16	30·039	+·070	75·6	62·5	13·1	68·7	+0·2	61·6	56·1	−4·8	64	− 12	·451	138·6	57·0	0·000	..	3·4
17	29·996	+·024	74·7	62·1	12·6	68·5	+0·1	62·5	57·8	−3·0	69	− 7	·479	130·0	57·2	0·000	..	4·2
18	29·996	+·022	76·6	64·0	12·6	68·9	+0·5	64·0	60·2	−0·5	74	− 2	·522	137·1	55·1	0·020	20	3·5
19	30·016	+·040	76·9	58·6	18·3	67·1	−1·2	62·5	58·8	−1·8	75	− 1	·496	132·8	49·4	0·000	..	2·2
20	30·023	+·045	75·7	59·2	16·5	66·6	−1·6	63·4	60·8	+0·3	82	+ 6	·533	128·7	51·7	0·080	25	3·2
21	30·025	+·046	72·8	60·8	12·0	67·1	−1·1	62·2	58·3	−2·1	73	− 3	·487	123·8	57·1	0·000	..	4·3
22	30·019	+·038	73·5	60·2	13·3	66·4	−1·7	59·8	54·5	−5·8	66	− 10	·425	126·8	49·8	0·000	..	5·4
23	30·006	+·024	71·4	59·5	11·9	64·3	−3·8	61·6	59·4	−0·8	84	+ 8	·507	130·1	50·9	0·100	170	6·7
24	30·039	+·055	74·8	62·0	12·8	67·3	−0·7	63·2	60·3	+0·1	77	+ 1	·524	127·0	52·8	0·080	175	7·0
25	30·073	+·088	75·5	60·8	14·7	67·9	0·0	62·6	58·4	−1·7	72	− 4	·489	130·3	51·1	0·010	20	6·0
26	30·007	+·020	75·0	60·0	15·0	68·0	+0·1	63·6	60·1	+0·1	76	0	·520	136·3	53·0	0·130	170	5·2
27	29·918	−·070	75·5	64·1	11·4	69·2	+1·3	65·7	63·0	+3·1	81	+ 5	·576	129·8	56·9	0·010	10	5·6
28	29·914	−·076	75·9	66·6	9·3	70·8	+3·0	69·1	67·8	+7·9	90	+ 14	·680	128·0	59·9	0·550	360	6·4
29	29·986	−·005	74·1	68·8	5·3	70·4	+2·6	67·8	65·8	+6·0	85	+ 9	·635	134·0	67·0	0·090	85	5·8
30	30·022	+·029	73·8	67·7	6·1	70·0	+2·3	66·6	64·0	+4·2	81	+ 5	·596	122·0	65·0	0·000	..	5·2
Mean	29·964	−·001	75·3	63·3	12·0	68·7	0·0	64·0	60·4	−0·7	75·2	−1·2	·529	129·9	57·0	Sum 1·430	Sum 1490	4·6
Average	29·965	..	75·9	62·5	13·4	68·7	..	64·4	61·1	..	76·4	..	·538	131·9	56·4	1·961	1232	5·0
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Southern anticyclones passed the Meridian of Mauritius on the 11th, 16th, and 25th. The barometer rose from 29·884 ins. at 8h on the 5th to 29·968 ins. at 19h on the 11th, fell to 29·836 ins. at 15h on the 13th, and rose to 30·065 ins. at 8h on the 16th; after a series of small oscillations it rose from 29·989 ins. at 21h on the 22nd to 30·087 ins. at 1h on the 25th, falling to 29·894 ins. at 0h on the 28th. The mean temperature fell from 70°·4 on the 7th to 65°·5 on the 11th, rose to 68°·7 on the 16th, and fell to 64°·3 on the 23rd. The vapour tension showed minima 0·394 in., 0·451 in., 0·425 in., 0·489 in. on the 11th, 16th, 22nd, and 25th respectively.

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
June 1	1·1	10·1	92	− 4·9	+ 2·8	30	5·6	− 32	− 3·9	6·2	79·4	78·40	b.
2	3·2	9·7	89	− 4·6	+ 7·9	60	9·1	− 2	− 0·5	9·4	79·3	78·40	b. : c.f. : b.
3	5·9	8·4	77	− 1·6	+13·8	83	13·9	+ 22	+ 4·3	14·3	79·2	78·40	c.f.
4	5·4	9·1	84	+ 3·6	+ 9·3	111	10·0	+ 50	+ 0·3	10·4	79·1	78·40	c.f.
5	9·9	0·6	5	− 3·5	+ 4·2	50	5·5	− 11	− 4·2	6·0	79·0	78·35	c. p.
6	10·0	0·0	0	− 8·9	+ 1·7	11	9·1	− 50	− 0·7	9·6	78·9	78·30	p. o.
7	7·9	2·3	21	−15·8	+10·0	32	18·7	− 29	+ 8·9	19·3	78·8	78·25	c.
8	4·0	9·1	84	−12·1	+ 9·9	39	15·7	− 22	+ 5·8	15·9	78·8	78·25	b. : c.f.
9	5·9	5·1	47	− 9·2	+ 8·0	41	12·2	− 20	+ 2·3	12·4	78·7	78·30	c.f. : c.
10	3·0	9·4	86	−12·1	+ 2·8	13	12·4	− 48	+ 2·4	12·6	78·7	78·35	c.f.
11	7·7	5·9	54	−17·0	+ 4·6	15	17·6	− 45	+ 7·6	18·0	78·7	78·35	c.f. : c. p.
12	6·0	7·7	70	−10·0	+ 6·1	31	11·7	− 29	+ 1·6	12·0	78·7	78·40	c.p.
13	4·0	8·3	76	− 5·6	+ 4·5	39	7·2	− 21	− 2·9	7·6	78·7	78·40	p. : b. : c.f.
14	4·7	7·8	71	− 7·9	+ 2·3	16	8·2	− 44	− 2·0	8·7	78·6	78·35	b. : c.f : c.
15	6·7	8·5	78	− 9·0	+ 4·5	27	10·0	− 33	− 0·2	10·4	78·5	78·30	c.p. : c.f.
16	7·2	7·4	68	− 7·4	+ 6·3	40	9·7	− 20	− 0·6	10·2	78·4	78·30	c.f.
17	5·5	8·1	74	− 3·9	+ 7·7	63	8·7	+ 3	− 1·6	8·9	78·3	78·30	c.f.
18	6·2	7·7	71	− 4·6	+10·1	65	11·1	+ 5	+ 0·8	11·4	78·3	78·25	c.p. : c.f. : c. : c.f.
19	1·7	9·6	88	− 2·6	+ 5·5	65	6·1	+ 5	− 4·3	6·6	78·2	78·25	b. : c.f.
20	6·1	4·2	39	− 4·8	+ 4·7	44	6·7	− 16	− 3·7	7·4	78·1	78·20	b. : c. : c.p.
21	4·4	8·4	77	− 8·3	+ 9·7	49	12·7	− 11	+ 2·3	13·1	78·0	78·20	c.f.
22	3·0	9·6	89	− 7·5	+10·8	55	13·1	− 5	+ 2·7	13·4	77·9	78·20	b. : c.f.
23	7·6	4·5	41	− 4·3	+ 8·8	64	9·7	+ 3	− 0·8	10·1	77·8	78·20	c.p.
24	3·5	8·9	81	− 5·5	+12·1	66	13·3	+ 5	+ 2·8	15·4	77·8	78·20	c.f. : c.p.
25	2·7	9·8	90	− 5·2	+10·3	63	11·6	+ 2	+ 1·1	11·8	77·7	78·20	p. : b. : c.f.
26	6·2	9·2	84	− 3·0	+11·4	75	11·8	+ 14	+ 1·3	12·1	77·6	78·15	c.p. : c.f.
27	6·7	8·0	73	− 2·5	+ 9·5	75	9·8	+ 14	− 0·7	10·1	77·5	78·15	c. : c.p. : c.f.
28	9·5	1·5	13	− 0·6	+ 5·5	84	5·5	+ 23	− 5·1	6·3	77·4	78·15	c.p.
29	9·2	1·0	9	− 6·2	+ 8·7	55	10·7	− 7	+ 0·1	11·2	77·4	78·20	c.p. : c.
30	2·6	9·9	91	−11·3	+16·5	56	20·0	− 6	+ 9·4	20·1	77·4	78·20	c.f.
Mean	5·6	6·99	63·8	− 6·54	+ 7·67	49·6	10·08	−11·2	− 0·08	11·29	78·36	78·28	..
Average	4·9	7·43	68·3	− 4·96	+ 8·87	60·8	10·16	..	..	11·19	78·09	78·25	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

On the 11th the *S.S. Baroda* experienced a heavy S.S.W. gale in latitude 25° S. and longitude 57° E., backing to S.E. on the 13th, in latitude 22° S. and longitude 57° E.; the barometer rose from 30·08 ins. at noon on the 10th to 30·22 ins. at 0^h on the 13th and fell to 30·06 ins. at noon on the 14th.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation=100). Mean.	Degree of Humidity (Saturation=100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone* (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
July 1	30·017	+·023	74·6	66·8	7·8	69·5	+1·8	65·4	62·2	+2·5	78	+ 2	·560	130·9	63·5	0·065	100	5·0
2	29·943	−·052	74·6	67·0	7·6	69·8	+2·1	66·0	63·1	+3·4	79	+ 3	·578	122·1	64·0	0·000	..	5·0
3	29·938	−·058	74·5	67·8	6·7	70·2	+2·6	67·2	64·9	+5·3	83	+ 7	·615	135·8	65·3	0·115	120	5·0
4	29·982	−·015	77·1	68·6	8·5	71·4	+3·8	68·9	67·0	+7·4	86	+ 10	·661	133·5	66·5	0·110	227	5·6
5	30·003	+·006	77·1	67·6	9·5	71·7	+4·1	68·2	65·6	+6·0	81	+ 5	·630	129·1	65·0	0·000	..	6·0
6	30·018	+·020	76·3	65·4	10·9	70·0	+2·4	67·1	64·9	+5·3	84	+ 8	·615	127·8	65·3	0·195	160	6·0
7	30·047	+·048	74·7	62·8	11·9	67·9	+0·4	62·2	57·7	−1·8	70	− 6	·477	130·9	55·1	0·000	..	6·7
8	30·050	+·050	72·7	59·6	13·1	66·4	−1·1	62·3	59·0	−0·5	77	+ 1	·500	125·8	50·0	0·100	135	7·3
9	30·011	+·010	74·1	61·4	12·7	67·0	−0·5	61·9	57·8	−1·7	72	− 4	·479	125·5	53·1	0·010	60	4·7
10	30·012	+·011	75·3	59·3	16·0	67·8	+0·3	63·1	59·4	−0·1	75	− 1	·507	129·9	52·9	0·000	..	4·5
11	30·030	+·028	75·6	61·1	14·5	67·8	+0·4	63·7	60·5	+1·1	78	+ 2	·528	126·8	51·9	0·070	65	5·2
12	30·041	+·039	74·6	62·0	12·6	67·8	+0·4	63·6	60·3	+0·9	77	+ 1	·524	125·2	52·8	0·055	30	5·6
13	30·034	+·031	75·7	57·1	18·6	67·1	−0·3	63·2	60·4	+1·0	79	+ 3	·526	129·9	49·7	0·130	100	6·0
14	30·038	+·034	74·6	64·1	10·5	68·2	+0·8	63·6	60·0	+0·6	75	− 1	·518	130·5	59·4	0·050	60	6·0
15	30·037	+·033	72·7	62·3	10·4	66·8	−0·6	61·5	57·3	−2·1	72	− 4	·470	122·4	58·0	0·460	172	5·4
16	30·031	+·026	71·6	55·9	15·7	64·2	−3·2	60·3	57·1	−2·3	78	+ 2	·467	127·1	48·0	0·080	65	5·6
17	30·005	·000	73·5	60·2	13·3	67·4	0·0	63·5	60·4	+1·1	78	+ 2	·526	125·3	53·0	0·035	35	6·0
18	29·993	−·013	74·6	60·8	13·8	67·4	0·0	63·4	60·2	+0·9	78	+ 2	·522	127·8	52·4	0·000	..	6·0
19	29·984	−·023	74·6	63·6	11·0	68·2	+0·8	64·0	60·7	+1·4	77	+ 1	·531	131·1	57·2	0·065	55	6·7
20	30·016	+·009	74·8	64·6	10·2	68·2	+0·8	64·4	61·4	+2·1	79	+ 3	·545	129·1	55·1	0·095	48	5·4
21	30·073	+·066	75·5	60·9	14·6	68·6	+1·2	64·1	60·6	+1·3	76	0	·529	127·8	52·2	0·085	60	5·1
22	30·039	+·032	75·7	63·0	12·7	68·9	+1·6	64·7	61·4	+2·1	77	+ 1	·545	130·9	55·0	0·000	..	5·8
23	29·962	−·046	75·6	62·8	12·8	68·4	+1·0	64·7	61·8	+2·5	79	+ 3	·552	129·0	58·0	0·255	150	5·7
24	29·912	−·096	76·8	58·5	18·3	67·1	−0·3	63·5	60·6	+1·3	80	+ 5	·529	128·1	51·7	0·000	..	5·2
25	29·911	−·097	77·7	59·1	18·6	68·2	+0·8	64·5	61·6	+2·3	80	+ 5	·548	132·7	52·8	0·000	..	..
26	29·952	−·056	76·9	62·8	14·1	69·8	+2·4	66·0	63·1	+3·9	79	+ 4	·578	134·8	55·8	0·000	..	..
27	29·990	−·018	77·0	65·1	11·9	70·0	+2·6	65·4	61·9	+2·7	76	+ 1	·554	128·9	58·1	0·000	..	..
28	30·066	+·057	74·4	64·0	10·4	68·4	+1·0	64·7	61·8	+2·6	79	+ 4	·552	133·3	55·8	0·070	65	..
29	30·101	+·092	74·4	62·2	12·2	67·4	0·0	60·7	55·3	−3·9	65	− 10	·437	131·6	56·0	0·000	..	..
30	30·051	+·042	75·3	61·1	14·2	67·7	+0·3	62·3	58·0	−1·3	71	− 4	·482	126·8	54·5	0·000	..	..
31	30·016	+·006	75·5	61·9	13·6	67·8	+0·3	62·5	58·3	−1·0	72	− 3	·487	128·6	56·1	0·015	5	..
Mean	30·010	+·006	75·1	62·6	12·5	68·3	+0·8	64·1	60·8	+1·4	77·1	+1·4	·535	129·0	56·3	Sum 2·060	Sum 1712	5·6
Average	30·004	..	75·1	61·5	13·6	67·5	..	63·1	59·4	..	75·7	..	·507	131·1	55·8	2·333	1586	5·3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The oscillations of the barometer during the first half of July were small. Southern anticyclones passed the Meridian of Mauritius on the 21st and 29th. The barometer rose from 29·975 ins. at 0h on the 19th to 30·086 ins. at 7h on the 21st and fell to 29·894 ins. at 18h on the 24th, from which it rose to 30·114 ins. at 11h on the 29th and fell to 29·852 ins. at 14h on the 4th of August. The mean temperature rose from 64°·2 on the 16th to 68°·9 on the 22nd and fell to 67°·1 on the 24th, from which it rose to 70°·0 on the 27th and fell to 67°·4 on the 29th. The vapour tension increased from 0·467 in. on the 16th to 0·545 in. on the 20th and, after small oscillations, decreased from 0·578 in. on the 26th to 0·437 in. on the 29th. The south component of the wind decreased from 4·5 miles per hour on the 21st to 0·1 on the 24th, and increased to

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
July 1	5·9	8·7	80	– 8·6	+15·4	61	17·6	– 1	+ 7·0	17·7	77·3	78·20	c.p. : c.f.
2	8·6	0·5	5	– 8·3	+13·0	57	15·4	– 5	+ 4·8	15·5	77·2	78·20	c.f. : o.q.
3	8·0	2·1	19	– 8·3	+13·2	58	15·6	– 4	+ 4·9	15·8	77·1	78·15	c.f. : c. : c.p.
4	9·8	3·3	30	– 0·5	+10·2	87	10·2	+ 24	– 0·5	10·9	77·0	78·15	c.p. : c.f. : c.p.
5	4·1	9·0	82	– 3·2	+11·9	75	12·3	+ 12	+ 1·6	12·5	77·0	78·15	c.f.
6	6·4	8·4	77	– 2·8	+10·1	74	10·5	+ 11	– 0·2	10·7	76·9	78·15	c.p. : c.f.
7	3·5	10·0	92	– 5·2	+10·0	62	11·3	– 1	+ 0·6	11·5	76·9	78·15	b. : c.f.
8	6·5	6·6	61	– 5·4	+ 9·6	61	11·0	– 2	+ 0·2	11·1	76·8	78·10	c. : c.p.
9	6·0	6·8	62	– 4·0	+ 7·9	63	8·9	– 1	– 1·9	9·1	76·9	78·10	c.p. : c.f.
10	1·9	10·2	94	– 5·0	+ 7·8	57	9·3	– 7	– 1·5	9·6	76·8	78·10	b. : c.f. : b.
11	4·1	8·8	81	– 4·1	+ 9·1	66	10·0	+ 2	– 0·8	10·2	76·8	78·10	c.p. : c.f.
12	3·2	8·4	76	– 4·5	+ 9·2	64	10·2	0	– 0·6	10·3	76·8	78·05	c.f. : c.p. : c.f.
13	6·0	7·3	67	– 4·6	+10·6	67	11·6	+ 3	+ 0·8	11·9	76·7	78·05	c.p. : c.f. : c.p.
14	4·6	9·5	86	– 6·3	+10·4	59	12·1	– 5	+ 1·2	12·4	76·6	78·00	c.f. : c.p.
15	1·4	9·8	89	– 6·4	+14·5	66	15·8	+ 2	+ 4·9	16·0	76·5	78·00	c.p. : c.f. : b. : c.f.
16	7·1	5·6	51	– 3·4	+ 8·1	67	8·8	+ 2	– 2·1	9·2	76·4	78·00	c.f. : c.p. : c.
17	6·2	4·4	40	– 3·2	+ 9·3	71	9·8	+ 6	– 1·1	10·2	76·4	77·95	b. : c.f. : c. : c.p.
18	4·4	8·8	80	– 4·2	+ 9·0	65	9·9	0	– 1·0	10·0	76·4	77·95	b. : c.f.
19	4·6	9·1	83	– 4·9	+ 9·8	63	11·0	– 2	+ 0·1	11·2	76·4	77·90	c.f. p.
20	6·2	6·9	62	– 3·7	+11·1	72	11·7	+ 7	+ 0·8	12·1	76·4	77·85	o.p. : c.p. : c.f. : b.
21	2·2	9·5	87	– 4·5	+11·2	68	12·0	+ 3	+ 1·1	12·3	76·3	77·80	c.p. : c.f. : b.
22	4·4	9·7	88	– 3·1	+ 9·8	72	10·3	+ 7	– 0·7	10·5	76·3	77·80	c.f.
23	9·0	4·3	39	– 0·7	+ 8·2	85	8·2	+ 20	– 2·8	8·5	76·3	77·80	c.p. : c. : c.f.
24	4·6	7·4	66	– 0·1	+ 6·5	89	6·5	+ 24	– 4·5	6·6	76·2	77·80	b. : c.
25	7·0	5·8	53	– 1·5	+ 5·9	76	6·1	+ 10	– 4·9	6·4	76·1	77·80	c. : c.f. : c.
26	9·5	1·0	9	– 4·4	+ 5·5	51	7·0	– 15	– 4·0	7·1	76·1	77·80	c.
27	3·7	10·4	93	– 4·7	+ 9·0	62	10·2	– 4	– 0·8	10·3	76·1	77·80	b. : c.f.
28	5·2	8·2	74	– 4·9	+12·5	69	13·5	+ 3	+ 2·5	13·6	76·1	77·80	c.f. : c.p. : c.f.
29	5·2	9·8	88	– 5·2	+12·0	67	13·1	+ 1	+ 2·1	13·3	76·0	77·80	c. : c.f.q.
30	2·4	10·5	94	– 2·7	+11·7	77	12·0	+ 11	+ 0·9	12·3	75·9	77·75	c.f.q. : b.
31	4·1	10·1	90	– 3·5	+10·4	71	11·0	+ 5	– 0·1	11·1	75·9	77·75	c. : c.p. : c.f. : b.
Mean	5·4	7·45	67·7	– 4·25	+10·09	67·2	10·95	+2·8	+ 0·09	11·29	76·54	77·98	..
Average	5·1	7·65	69·5	– 4·69	+ 9·79	64·4	10·86	..	..	11·96	76·38	77·82	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

5·2 miles on the 29th, while the east component decreased from 11·2 miles per hour on the 21st to 5·5 on the 26th, and increased to 12·5 miles on the 28th.

The *Eva Lynch*, sailing from latitude 32° S. and longitude 55½° E. on the 23rd to 28° S. and 59° E. on the 26th, had fine weather with light variable winds in place of the stormy weather usually associated with the depression between two anticyclones.

* Stock of Ozone test papers exhausted on July 24.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation = 100). Mean.	Degree of Humidity (Saturation = 100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone* (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
Aug. 1	30·001	−·009	74·5	59·5	15·0	67·0	−0·5	61·6	57·3	−2·0	71	− 4	·470	127·5	52·0	0·000	..	..
2	29·958	−·052	74·8	63·9	10·9	67·8	+0·3	64·5	61·9	+2·6	81	+ 6	·554	133·0	60·0	0·480	315	..
3	29·913	−·098	73·5	62·2	11·3	67·4	−0·1	64·6	62·4	+3·1	84	+ 9	·564	127·8	55·0	0·660	233	..
4	29·877	−·134	77·6	64·1	13·5	69·4	+1·8	65·2	61·9	+2·6	77	+ 2	·554	136·2	61·6	0·050	50	..
5	29·879	−·132	72·7	64·9	7·8	67·8	+0·2	63·6	60·3	+1·0	77	+ 2	·524	122·5	58·2	0·010	65	..
6	29·890	−·121	75·6	64·1	11·5	68·6	+1·0	64·7	61·7	+2·4	79	+ 4	·550	134·3	58·4	0·040	25	..
7	29·919	−·092	74·7	67·3	7·4	70·2	+2·6	67·1	64·7	+5·4	83	+ 8	·611	139·8	63·2	0·025	55	..
8	29·931	−·080	76·7	62·4	14·3	69·8	+2·1	65·3	61·8	+2·5	76	+ 1	·552	136·9	(63·3)	0·000	..	..
9	29·898	−·113	76·9	60·0	16·9	67·8	+0·1	64·1	61·2	+1·9	80	+ 5	·541	137·1	54·0	0·025	15	..
10	29·967	−·044	71·6	57·1	14·5	64·4	−3·3	58·8	54·2	−5·1	70	− 5	·421	124·6	49·8	0·000	..	..
11	30·071	+·060	69·7	56·7	13·0	62·5	−5·2	56·5	51·3	−8·1	67	− 8	·378	131·1	47·5	0·020	10	..
12	30·080	+·069	71·6	57·7	13·9	64·1	−3·7	58·5	54·0	−5·4	70	− 5	·418	134·2	50·2	0·000	..	..
13	30·071	+·060	73·1	58·6	14·5	65·8	−2·0	60·0	55·3	−4·1	69	− 6	·437	127·4	50·0	0·065	65	..
14	30·063	+·052	74·6	60·3	14·3	66·8	−1·1	61·1	56·5	−2·9	70	− 5	·457	134·3	54·5	0·005	5	..
15	30·046	+·035	75·7	62·6	13·1	67·6	−0·3	63·1	59·5	+0·1	75	0	·509	129·2	57·7	0·240	350	..
16	30·027	+·016	74·8	62·4	12·4	67·8	−0·1	63·2	59·6	+0·2	75	0	·511	139·6	58·3	0·040	85	4·6
17	30·020	+·009	74·5	63·7	10·8	67·2	−0·8	63·7	60·9	+1·5	80	+ 5	·535	131·0	60·5	0·165	280	3·8
18	29·996	−·015	75·7	59·6	16·1	67·4	−0·6	61·6	57·0	−2·4	69	− 6	·465	133·4	54·8	0·005	30	3·6
19	29·937	−·073	76·5	58·7	17·8	67·5	−0·5	63·3	59·9	+0·4	77	+ 3	·516	138·3	53·1	0·000	..	1·8
20	29·891	−·119	77·5	64·5	13·0	69·4	+1·3	65·7	62·8	+3·3	80	+ 6	·572	129·8	59·9	0·020	40	3·0
21	29·950	−·060	77·6	64·9	12·7	70·1	+2·0	64·9	60·9	+1·4	73	− 1	·535	140·6	59·9	0·005	30	4·8
22	30·133	+·123	74·6	64·2	10·4	68·3	+0·1	61·6	56·3	−3·2	66	− 8	·454	135·2	57·3	0·000	..	2·8
23	30·213	+·203	72·6	61·4	11·2	66·0	−2·2	59·8	54·8	−4·7	67	− 7	·430	129·8	58·3	0·045	160	4·3
24	30·134	+·124	71·1	61·0	10·1	64·7	−3·5	60·8	57·6	−1·9	78	+ 4	·475	129·5	56·8	0·155	330	5·4
25	30·085	+·076	74·8	61·2	13·6	67·7	−0·6	61·9	57·3	−2·2	69	− 5	·470	136·3	56·0	0·020	25	3·8
26	30·087	+·078	75·6	63·5	12·1	68·1	−0·2	62·0	57·2	−2·4	68	− 6	·469	134·4	60·0	0·040	70	3·6
27	30·115	+·107	74·2	63·2	11·0	66·9	−1·5	62·0	58·1	−1·5	73	− 1	·483	132·3	60·2	0·210	120	4·6
28	30·096	+·088	74·6	61·6	13·0	67·5	−0·9	62·1	57·8	−1·8	71	− 3	·479	134·0	55·0	0·100	120	5·0
29	30·107	+·099	74·6	63·7	10·9	68·6	+0·1	61·9	56·7	−2·9	66	− 8	·461	128·5	59·4	0·025	80	4·4
30	30·110	+·103	75·4	62·2	13·2	68·6	+0·1	61·8	56·5	−3·2	65	− 8	·457	135·1	58·5	0·005	10	4·0
31	30·142	+·135	75·8	61·3	14·5	67·6	−1·0	62·5	58·5	−1·2	73	0	·491	139·5	59·5	0·080	200	5·2
Mean	30·020	+·010	74·6	61·9	12·7	67·4	−0·6	62·5	58·6	−0·8	73·5	−1·0	·495	133·0	56·9	Sum 2·535	Sum 2768	4·0
Average	30·010	..	75·5	62·1	13·4	68·0	..	63·2	59·4	..	74·5	..	·508	134·6	56·2	3·052	1890	5·3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Southern anticyclones passed the Meridian of Mauritius on the 12th and 23rd. The barometer rose from 29·882 ins. at 15h on the 9th to 30·099 ins. at 23h on the 12th and fell to 29·867 ins. at 11h on the 20th, from which it rose to 30·226 ins. at 9h on the 23rd and fell to 30·063 ins. at 22h on the 25th. The mean temperature fell from 70°·2 on the 7th to 62°·5 on the 11th and rose generally to 70°·1 on the 21st, from which it fell to 64°·7 on the 24th and rose to 68°·1 on the 26th. The vapour tension fell from 0·611 in. on the 7th to 0·378 in. on the 11th and rose generally to

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Aug. 1	4·6	9·5	85	– 3·7	+10·8	71	11·4	+ 5	+ 0·3	11·6	75·9	77·75	c.f.
2	7·4	6·3	56	+ 0·3	+ 9·4	92	9·4	+ 26	– 1·7	10·0	75·9	77·75	o.p. : c.p. : c.f.
3	9·2	0·8	8	+ 0·3	+ 3·7	95	3·7	+ 29	– 7·4	6·3	75·9	77·70	o. : o.p.
4	4·1	9·1	82	– 5·1	+ 1·0	11	5·2	– 56	– 5·9	7·3	75·8	77·65	o.p. : c.f. : c.
5	8·4	3·1	28	– 5·1	+ 6·9	54	8·6	– 13	– 2·5	9·0	75·7	77·60	c.p. : o. : c.
6	6·4	7·8	70	– 8·4	+ 8·8	46	12·2	– 21	+ 1·1	12·4	75·7	77·60	c. : c.p. : c.
7	8·7	1·7	15	– 6·4	+12·1	62	13·7	– 5	+ 2·6	13·8	75·6	77·60	c.p. : o. : o.q. : c.p.
8	4·2	4·4	39	– 4·1	+10·0	68	10·8	+ 1	– 0·3	11·2	75·6	77·60	b. : c.f.
9	5·6	6·8	60	– 3·3	0·0	0	3·3	– 67	– 7·9	6·1	75·6	77·55	c.f. : c.p. : c.
10	4·4	8·0	71	–12·1	+ 5·6	25	13·3	– 42	+ 2·1	13·8	75·6	77·55	c. : c.f.
11	7·4	9·0	79	– 7·2	+ 8·6	50	11·2	– 17	0·0	12·2	75·6	77·55	c. : c.p. : c.f.
12	3·7	9·3	82	– 6·3	+11·3	61	13·0	– 6	+ 1·8	13·3	75·6	77·50	c.f.
13	6·1	7·3	64	– 5·3	+10·3	63	11·6	– 4	+ 0·4	11·9	75·5	77·45	c.p. : c. : o.p.
14	4·4	9·6	85	– 5·6	+ 9·8	60	11·3	– 8	+ 0·1	11·5	75·5	77·45	c.p.:b.: c.f.
15	5·9	10·0	88	– 4·8	+11·7	68	12·6	0	+ 1·4	12·9	75·5	77·45	c.p. : c.f. : c.p.
16	5·6	7·5	66	– 3·1	+10·4	73	10·8	+ 5	– 0·4	11·4	75·4	77·40	c.p. : c.f. : c.p.
17	9·0	7·7	68	– 5·8	+12·9	66	14·2	– 2	+ 3·0	14·6	75·4	77·40	c.p. : c.f. : c. : c.p.
18	3·4	10·0	87	– 4·0	+ 9·1	66	9·9	– 2	– 1·3	10·6	75·4	77·40	c.p. : b.
19	5·9	6·5	57	– 0·4	+ 5·8	86	5·8	+ 18	– 5·4	6·5	75·4	77·40	b. : c.f. : c.
20	7·9	4·3	37	– 0·2	+ 2·5	85	2·5	+ 17	– 8·7	4·3	75·3	77·35	c.f. : c. : c.p.
21	9·0	1·4	12	– 4·7	+ 3·9	40	6·1	– 28	– 5·1	6·6	75·3	77·35	p. o. : c.f.
22	4·1	10·2	89	– 7·4	+14·8	63	16·5	– 5	+ 5·3	16·7	75·3	77·35	o. : c.f.q.
23	7·4	8·6	75	– 6·7	+16·1	67	17·4	– 1	+ 6·2	17·7	75·3	77·30	c.q.d. : c.p.
24	7·5	6·0	52	– 4·0	+16·8	77	17·3	+ 8	+ 6·1	17·5	75·2	77·25	c.p.q.
25	6·6	9·1	79	– 4·4	+13·2	72	13·9	+ 3	+ 2·7	14·2	75·2	77·25	c.f. : c.q. : c.f.:c.p.
26	5·5	7·4	64	– 5·6	+13·3	67	14·4	– 2	+ 3·2	14·6	75·2	77·25	o.p. : c.f. :c.p.
27	6·1	7·1	61	– 4·5	+13·7	72	14·4	+ 3	+ 3·2	14·7	75·3	77·20	c.p. : c.f.
28	7·1	6·5	56	– 3·9	+15·4	76	15·9	+ 7	+ 4·7	16·3	75·3	77·20	c.p. : c.q. : c.p.
29	2·6	10·6	91	+ 0·2	+18·2	91	18·2	+ 22	+ 7·0	18·5	75·2	77·15	c.p. : c.f.q. : c.p.
30	4·5	9·9	85	– 2·1	+13·6	81	13·7	+ 12	+ 2·5	13·9	75·2	77·15	c. : c.f.q. : c.p.
31	6·3	10·3	88	– 4·3	+11·4	69	12·2	0	+ 1·0	12·4	75·2	77·15	c.p. : c.f. : c.p.
Mean -	6·1	7·28	63·9	– 4·44	+10·04	66·1	10·98	– 1·6	– 0·20	12·06	75·47	77·43	..
Average	5·5	7·49	65·7	– 4·24	+10·35	67·7	11·18	..	..	12·34	75·28	77·25	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

0·572 on the 20th, from which it fell to 0·430 on the 23rd and rose to 0·483 on the 27th. The wind velocity showed well-marked maxima and minima at the times of maximum and minimum pressure, respectively.

* Stock of Ozone test papers exhausted on July 24.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation=100). Mean.	Degree of Humidity (Saturation=100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	in.	mins.	
Sept: 1	30·167	+·160	73·5	59·8	13·7	66·6	−2·0	61·3	57·1	−2·6	72	− 1	·467	135·7	51·8	0·160	280	4·8
2	30·160	+·154	74·9	61·6	13·3	67·4	−1·3	62·4	58·4	−1·4	73	0	·489	133·6	54·1	0·150	275	4·3
3	30·148	+·142	75·5	62·3	13·2	68·3	−0·4	62·2	57·4	−2·4	68	− 5	·472	134·0	56·7	0·015	10	3·6
4	30·141	+·136	75·6	62·6	13·0	68·7	−0·1	61·9	56·6	−3·2	66	− 7	·459	134·8	57·5	0·000	..	2·4
5	30·107	+·102	76·3	62·7	13·6	68·4	−0·5	62·4	57·7	−2·1	69	− 4	·477	136·5	56·3	0·000	..	4·4
6	30·041	+·037	76·6	58·3	18·3	67·7	−1·2	60·7	55·2	−4·7	64	− 9	·436	131·0	50·1	0·000	..	4·8
7	29·995	−·008	76·7	61·9	14·8	68·2	−0·8	62·8	58·5	−1·4	71	− 2	·491	140·7	55·0	0·000	..	2·8
8	30·001	−·001	78·5	58·8	19·7	67·1	−1·9	63·1	59·9	0·0	78	+ 5	·516	153·8	52·0	0·000	..	2·9
9	30·042	+·041	77·2	65·6	11·6	70·2	+1·1	65·0	61·0	+1·0	73	+ 1	·537	135·7	62·2	0·000	..	4·4
10	30·047	+·046	77·6	64·5	13·1	70·3	+1·2	64·6	60·2	+0·2	70	− 2	·522	134·0	60·4	0·000	..	4·4
11	30·032	+·032	78·2	65·0	13·2	70·4	+1·2	65·4	61·6	+1·6	74	+ 2	·548	135·1	58·9	0·000	..	3·4
12	30·035	+·036	78·2	64·7	13·5	70·0	+0·7	63·5	58·5	−1·6	67	− 5	·491	131·3	59·8	0·070	35	5·5
13	30·067	+·069	75·1	63·8	11·3	68·7	−0·7	63·0	58·6	−1·5	70	− 2	·492	134·6	61·1	0·315	225	4·5
14	30·075	+·078	74·7	62·9	11·8	67·9	−1·6	62·9	59·0	−1·1	73	+ 1	·500	136·0	60·4	0·115	130	2·4
15	30·049	+·053	74·1	63·4	10·7	67·4	−2·1	60·7	55·3	−4·9	65	− 7	·437	137·1	59·4	0·020	20	2·0
16	30·026	+·032	73·7	59·3	14·4	65·5	−4·1	59·0	53·7	−6·5	66	− 6	·413	136·1	52·0	0·010	10	2·6
17	30·019	+·026	75·6	57·1	18·5	66·8	−2·9	61·3	56·9	−3·3	71	− 1	·464	136·1	50·5	0·070	75	3·6
18	30·012	+·021	75·5	64·5	11·0	68·5	−1·2	62·5	57·8	−2·5	69	− 3	·479	138·3	60·2	0·000	..	2·8
19	29·986	−·004	77·4	58·0	19·4	68·1	−1·7	63·3	59·5	−0·8	74	+ 3	·509	137·9	51·9	0·000	..	2·6
20	29·975	−·014	80·3	58·3	22·0	68·9	−1·0	64·5	61·0	+0·7	76	+ 5	·537	139·0	51·2	0·000	..	3·6
21	29·955	−·033	78·1	63·4	14·7	69·5	−0·5	65·1	61·7	+1·3	76	+ 5	·550	137·4	56·3	0·000	..	5·2
22	29·949	−·038	78·3	59·5	18·8	69·6	−0·5	64·4	60·4	0·0	73	+ 2	·526	138·9	51·5	0·000	..	4·5
23	29·993	+·008	80·3	67·0	13·3	72·4	+2·3	67·2	63·3	+2·8	73	+ 2	·582	148·2	60·6	0·000	..	3·5
24	30·054	+·070	78·9	63·5	15·4	69·7	−0·5	65·1	61·6	+1·1	75	+ 4	·548	141·8	56·3	0·000	..	5·4
25	30·072	+·090	77·5	65·7	11·8	70·0	−0·2	64·2	59·7	−0·9	70	− 1	·512	140·2	59·4	0·045	145	3·0
26	30·062	+·081	76·8	64·8	12·0	69·6	−0·7	62·2	56·5	−4·1	63	− 8	·457	139·5	61·0	0·000	..	1·7
27	30·009	+·030	76·8	59·6	17·2	68·7	−1·7	61·4	55·7	−5·0	63	− 8	·444	134·4	55·1	0·000	..	2·6
28	29·941	−·037	78·8	54·9	23·9	66·5	−4·0	61·5	57·5	−3·2	73	+ 2	·473	146·3	48·0	0·000	..	1·7
29	29·944	−·032	80·2	56·3	23·9	68·5	−2·1	62·4	57·6	−3·1	68	− 3	·475	146·0	49·0	0·000	..	2·0
30	29·958	−·016	79·1	57·2	21·9	67·8	−2·8	62·7	58·7	−2·1	73	+ 2	·494	146·0	51·4	0·000	..	3·1
Mean	30·035	+·042	77·0	61·6	15·4	68·6	−1·0	63·0	58·6	−1·6	70·5	−1·4	·493	138·3	55·7	Sum 0·970	Sum 1205	3·5
Average	29·993	..	77·5	62·6	14·9	69·6	..	64·3	60·2	..	71·9	..	·522	139·1	57·1	1·279	963	4·8
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Southern anticyclones passed the Meridian of Mauritius on the 1st, 14th, and 25th. The barometer rose from 30·072 ins. at 15h on the 28th of August to 30·187 ins. at 11h on the 1st of September and fell to 29·978 ins. at 4h on the 8th, from which it rose generally to 30·089 ins., with a secondary minimum, 30·023 ins., at 7h on the 11th; fell to 29·937 ins. at 13h on the 21st and rose to 30·089 ins. at 19h on the 25th. The mean temperature fell from 68°·6 on the 30th of August to 66°·6 on the 1st of September, and rose to 68°·7 on the 4th, from which it fell

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Sept. 1	5·5	7·7	66	– 6·1	+11·4	62	13·0	– 7	+ 1·9	13·1	75·1	77·10	c.p. : c.p.q. : c.f.
2	6·5	6·5	56	– 3·2	+13·2	76	13·6	+ 6	+ 2·5	13·9	75·1	77·05	c.p. : c.f. : c.p.
3	4·1	10·3	88	– 4·8	+13·9	71	14·7	+ 1	+ 3·6	14·9	75·0	77·00	c.p. : c.f.q.
4	3·2	10·5	90	– 4·9	+13·0	69	13·9	– 1	+ 2·8	14·2	75·0	77·00	b. : c.f.q.
5	4·7	10·1	86	– 3·6	+13·0	74	13·5	+ 4	+ 2·4	13·8	75·0	77·00	b. : c.f.q.
6	3·4	8·1	69	– 2·1	+10·5	79	10·7	+ 9	– 0·4	11·3	75·0	77·00	b. : c.f.
7	7·9	3·7	31	– 2·0	+ 5·3	69	5·7	– 1	– 5·3	6·5	74·9	76·95	c.d. : c.f.
8	9·6	1·7	14	– 3·0	+ 5·9	63	6·6	– 7	– 4·4	7·6	74·9	76·95	c. : c.d. : c.
9	6·9	7·7	65	– 3·6	+13·0	74	13·5	+ 4	+ 2·5	13·6	75·0	76·95	c. : c.f.
10	2·6	9·8	83	– 4·1	+11·4	70	12·1	0	+ 1·1	12·2	75·0	76·95	b. : c.f.q.
11	3·6	10·5	89	– 5·1	+11·6	66	12·7	– 5	+ 1·8	12·8	75·0	76·90	c.f.q.
12	1·4	11·1	94	– 6·6	+13·9	65	15·4	– 6	+ 4·5	15·6	75·1	76·90	b. : b.q. : c.p.
13	1·4	10·5	89	– 5·3	+18·1	74	18·8	+ 3	+ 7·9	19·0	75·0	76·85	c.p. : c.f.q. : c.p.
14	5·0	7·4	62	– 6·1	+16·7	70	17·8	– 1	+ 7·0	17·9	75·0	76·85	c.p.q. : c.f.q.
15	5·9	10·1	85	– 6·9	+15·4	66	16·9	– 5	+ 6·1	17·0	75·0	76·85	c. : c.p. : c.q.
16	5·1	7·7	64	– 6·3	+12·3	63	13·8	– 9	+ 3·1	14·2	75·0	76·85	c.f.q. : c. : c.p.
17	6·0	9·2	77	– 7·0	+10·4	56	12·5	– 16	+ 1·8	12·7	75·1	76·85	c.p. : c. : c.f.q.
18	7·1	4·8	40	– 9·8	+ 9·7	45	13·8	– 27	+ 3·2	14·1	75·0	76·80	c.d. : c. : c.f.
19	5·5	7·0	59	– 2·9	+ 4·9	59	5·7	– 13	– 4·9	7·4	75·0	76·80	b. : c.f. : c.
20	3·9	10·6	88	+ 1·6	+ 6·5	104	6·7	+ 32	– 3·9	7·4	75·0	76·80	b. : c.f.
21	4·4	10·0	83	+ 0·2	+ 8·5	91	8·5	+ 19	– 2·0	8·6	75·1	76·80	b. : c.f.
22	3·7	10·2	84	– 1·2	+ 8·1	82	8·2	+ 10	– 2·3	8·4	75·0	76·80	b. : c.f.
23	5·1	7·5	62	– 2·1	+ 8·2	76	8·4	+ 3	– 2·0	8·8	75·1	76·75	b. : c.f. : c.
24	5·2	5·5	46	– 3·8	+ 5·8	57	6·9	– 16	– 3·5	8·7	75·1	76·75	c.f. : c.
25	4·4	10·4	86	–10·3	+16·6	58	19·6	– 15	+ 9·3	19·6	75·1	76·75	c.p. : c.f.q. : c.p.
26	4·4	10·7	88	– 8·4	+15·1	61	17·3	– 12	+ 7·0	17·4	75·1	76·70	b. : c.f.q. : c.
27	1·4	11·2	92	– 4·1	+12·3	72	13·0	– 1	+ 2·8	13·3	75·1	76·70	b. : c.f.q.
28	6·1	3·4	28	– 1·7	+ 3·6	65	3·9	– 9	– 6·3	6·2	75·1	76·65	b. : c.
29	3·0	10·9	89	+ 0·3	– 2·0	261	2·0	+ 187	– 8·2	5·9	75·1	76·65	b. : c.f.
30	7·0	5·1	42	+ 0·3	+ 1·1	105	1·2	+ 31	– 8·9	6·3	75·0	76·65	b. : c.
Mean -	4·8	8·33	69·8	– 4·09	+10·25	68·3	11·04	– 3·2	+ 0·35	12·08	75·03	76·85	..
Average	5·6	8·01	67·0	– 3·40	+10·14	71·5	10·69	..	..	12·02	75·14	76·69	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

generally to 65°·5 on the 16th and rose to 72°·4 on the 23rd, falling again to 66°·5 on the 28th. During the first anticyclone the variations of vapour tension were small and irregular; it increased from 0·436 in. on the 6th to 0·537 in. on the 9th, decreased from 0·500 in. on the 14th to 0·413 in. on the 16th, from which it increased generally to 0·582 in. on the 23rd and decreased to 0·444 in. on the 27th. The wind velocity showed well-marked maxima and minima at the times of maximum and minimum pressure, respectively.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity. (Saturation = 100). Mean.	Degree of Humidity. Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0 – 10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	in.	mins.	
Oct. 1	29·947	−·025	77·6	59·8	17·8	68·2	−2·5	64·0	60·7	−0·2	77	+ 6	·531	133·4	53·6	0·000	..	2·2
2	29·952	−·018	80·8	61·0	19·8	70·6	−0·2	65·2	61·1	+0·2	72	+ 1	·539	151·2	53·1	0·000	..	2·8
3	29·984	+·016	81·1	68·4	12·7	72·9	+2·0	67·5	63·5	+2·5	72	+ 1	·586	141·9	63·8	0·000	..	3·8
4	30·009	+·043	80·2	65·4	14·8	71·9	+0·9	64·5	59·0	−2·0	64	− 7	·500	138·7	60·4	0·015	20	4·0
5	30·036	+·072	78·7	63·9	14·8	70·5	−0·5	63·7	58·5	−2·6	66	− 5	·491	141·7	55·8	0·000	..	3·7
6	30·027	+·065	78·6	65·7	12·9	71·6	+0·5	64·4	59·0	−2·1	65	− 6	·500	138·3	62·0	0·040	160	3·2
7	29·988	+·028	79·3	62·6	16·7	71·1	−0·1	63·1	57·0	−4·2	61	− 10	·465	140·3	58·0	0·000	..	3·0
8	29·950	−·008	80·1	59·2	20·9	69·5	−1·8	63·5	58·8	−2·4	69	− 2	·496	145·0	51·5	0·000	..	3·0
9	29·927	−·029	80·8	60·7	20·1	70·4	−1·0	64·0	59·1	−2·2	67	− 4	·501	149·6	53·5	0·000	..	3·6
10	29·925	−·029	80·7	58·3	22·4	69·8	−1·7	63·9	59·4	−1·9	70	− 1	·507	140·6	50·2	0·000	..	4·0
11	29·941	−·011	79·3	62·0	17·3	69·6	−2·0	65·5	62·3	+0·9	78	+ 8	·562	142·0	54·3	0·015	20	4·0
12	29·884	−·066	81·2	68·3	12·9	74·0	+2·3	70·3	67·6	+6·1	80	+ 10	·675	146·7	63·0	0·050	180	1·8
13	29·897	−·051	85·3	69·2	16·1	76·0	+4·2	71·4	68·1	+6·6	77	+ 7	·687	152·7	63·1	0·035	80	2·7
14	29·979	+·033	82·8	70·2	12·6	74·7	+2·8	69·5	65·8	+4·2	74	+ 4	·635	146·4	68·0	0·050	125	4·6
15	30·014	+·070	78·6	68·8	9·8	71·8	−0·2	68·9	66·7	+5·0	84	+ 14	·655	135·4	67·0	0·260	330	5·0
16	29·972	+·030	80·7	68·6	12·1	72·5	+0·4	68·0	64·6	+2·9	76	+ 6	·609	147·3	66·0	0·035	30	4·4
17	29·961	+·021	79·5	68·1	11·4	71·6	−0·6	67·4	64·3	+2·5	78	+ 8	·603	144·3	65·2	0·075	160	4·6
18	29·979	+·041	80·8	66·2	14·6	72·9	+0·6	67·1	62·8	+1·0	71	+ 1	·572	144·3	63·3	0·000	..	1·9
19	29·965	+·029	82·3	63·6	18·7	72·4	0·0	66·4	61·9	0·0	70	0	·554	139·5	57·0	0·000	..	0·6
20	29·922	−·012	79·4	64·3	15·1	71·4	−1·1	66·7	63·1	+1·1	75	+ 5	·578	137·2	57·0	0·145	115	2·9
21	29·925	−·007	81·8	66·7	15·1	73·2	+0·6	68·0	64·2	+2·1	73	+ 3	·601	141·7	62·0	0·005	30	3·4
22	29·962	+·032	83·0	68·4	14·6	74·5	+1·8	68·9	64·8	+2·7	72	+ 2	·613	151·4	64·8	0·000	..	2·4
23	29·981	+·053	83·5	70·3	13·2	75·4	+2·6	70·3	66·6	+4·4	74	+ 4	·652	145·5	66·2	0·000	..	2·0
24	29·931	+·005	82·4	64·2	18·2	73·2	+0·3	67·4	63·1	+0·8	71	+ 1	·578	137·6	61·2	0·000	..	2·0
25	29·887	−·037	84·3	61·3	23·0	73·3	+0·3	67·3	62·9	+0·5	70	+ 1	·574	146·2	55·3	0·000	..	2·0
26	29·965	+·043	80·7	67·5	13·2	72·7	−0·5	67·8	64·2	+1·8	75	+ 6	·601	150·5	62·2	0·000	..	2·0
27	30·035	+·116	83·1	68·6	14·5	74·4	+1·1	67·3	62·1	−0·4	66	− 3	·558	148·8	63·3	0·015	35	2·6
28	29·987	+·070	80·3	66·2	14·1	72·3	−1·1	67·0	63·0	+0·4	73	+ 4	·576	144·8	66·2	0·080	130	3·6
29	29·961	+·046	81·3	62·6	18·7	72·5	−1·0	65·1	59·6	−3·1	64	− 5	·511	140·0	54·5	0·000	..	3·4
30	29·961	+·048	81·5	67·7	13·8	73·6	0·0	66·8	61·8	−0·9	67	− 2	·552	145·9	62·7	0·000	..	3·0
31	29·961	+·050	81·9	66·9	15·0	73·9	+0·2	66·6	61·3	−1·5	65	− 4	·543	142·6	63·9	0·035	50	1·7
Mean	29·962	+·020	81·0	65·3	15·7	72·3	+0·2	66·7	62·5	+0·7	71·5	+ 1·4	·568	143·6	60·3	Sum 0·855	Sum 1465	3·0
Average	29·942	..	81·1	64·6	16·5	72·1	..	66·2	61·8	..	70·1	..	·552	143·5	59·2	1·193	822	4·1
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Southern anticyclones passed the Meridian of Mauritius on the 6th, 15th, and 27th. The barometer rose from 29·928 ins. at 21h on the 1st to 30·050 ins. at 2h on the 6th, and fell generally to 29·856 ins. at 4h on the 13th, from which it rose to 30·031 ins. at 13h on the 15th, and fell generally to 29·907 ins. at 9h on the 21st, rose from 29·862 ins. at 5h on the 25th to 30·056 ins. at 14h on the 27th, and fell to 29·951 ins. at 6h on the 31st. The mean temperature fell from 72°·9 on the 3rd to 70°·5 on the 5th, and rose from 69°·6 on the 11th to 76°·0 on the 13th, falling to 71°·8 on the

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Oct. 1	7·5	4·3	35	– 2·2	+ 3·2	55	3·9	– 20	– 6·1	6·1	75·1	76·65	c.f. : c.
2	4·6	9·9	80	– 4·8	+ 8·4	60	9·7	– 15	– 0·3	9·9	75·1	76·65	b. : c.f. : c. : c.f.
3	4·9	10·1	82	– 0·9	+11·4	85	11·4	+ 10	+ 1·5	12·0	75·1	76·65	c.f. : c. : c.f.
4	4·6	10·3	84	– 4·2	+11·0	69	11·8	– 6	+ 1·9	12·1	75·1	76·65	c.f. : c.p. : c.f.
5	4·5	9·4	76	– 4·6	+13·0	70	13·8	– 6	+ 4·0	14·0	75·2	76·65	c.f.
6	5·4	10·0	82	– 4·5	+14·6	73	15·2	– 3	+ 5·4	15·4	75·2	76·65	c.p. : c. : c.f.
7	3·7	10·4	85	– 2·4	+13·2	80	13·4	+ 4	+ 3·7	13·7	75·2	76·60	c.f.
8	6·2	8·4	68	– 0·3	+ 9·5	88	9·5	+ 12	– 0·2	9·8	75·3	76·60	c. : c.f.
9	5·0	8·8	71	– 0·7	– 0·4	330	0·8	+ 254	– 8·8	7·0	75·3	76·60	c.f.
10	4·0	8·0	64	– 3·9	+ 4·4	48	5·9	– 29	– 3·7	6·7	75·3	76·60	b. : c.f. : c. : c.f.
11	8·6	3·2	26	– 0·6	+ 8·2	86	8·2	+ 9	– 1·4	8·8	75·4	76·60	c.d. : c.f.
12	6·5	6·6	53	+ 1·8	+10·1	100	10·3	+ 23	+ 0·8	10·5	75·4	76·60	c.f. : c.p.
13	8·1	7·8	62	– 0·5	+ 1·8	75	1·8	– 2	– 7·7	7·0	75·4	76·60	c.p. : c. : c.f. : c.p.
14	5·7	9·7	78	– 6·6	+12·1	61	13·8	– 16	+ 4·4	13·9	75·4	76·60	c.f. : c.p.
15	8·2	7·9	63	– 6·2	+14·6	67	15·9	– 11	+ 6·5	16·1	75·5	76·60	c.r. : c.p. : c.
16	4·6	8·4	67	– 7·9	+14·9	62	16·8	– 16	+ 7·4	17·2	75·5	76·60	c.f. : c.
17	8·4	6·3	50	– 5·2	+11·9	66	13·0	– 12	+ 3·7	13·4	75·5	76·60	c.p. : c. : c.f.
18	4·0	10·7	86	– 4·6	+10·0	65	11·0	– 13	+ 1·7	11·4	75·5	76·55	b. : c.f.
19	2·6	11·6	92	– 2·8	+10·0	74	10·4	– 4	+ 1·1	10·6	75·5	76·55	b. : c.f.
20	7·7	8·8	70	– 1·9	+10·0	79	10·2	0	+ 0·9	10·4	75·5	76·55	c. : c.p. : c. : c.p.
21	4·0	10·9	86	– 1·4	+12·4	84	12·5	+ 5	+ 3·3	12·8	75·6	76·55	c.d. : b. : c.f.
22	5·0	10·7	85	– 1·2	+10·9	84	11·0	+ 5	+ 1·8	11·4	75·7	76·55	c.f.
23	4·6	9·9	79	+ 0·6	+ 9·4	94	9·4	+ 15	+ 0·2	9·8	75·7	76·55	b. : c.f,
24	3·6	10·3	81	+ 1·2	+ 7·2	100	7·3	+ 21	– 1·9	7·4	75·8	76·50	c.f.
25	4·0	9·0	71	+ 1·9	– 1·3	214	2·3	+ 134	– 6·8	6·4	75·8	76·50	b. : c.f.
26	9·6	3·0	24	– 7·7	+10·7	54	13·2	– 26	+ 4·1	14·1	75·8	76·50	c. ; o.
27	7·2	10·1	80	– 7·7	+12·9	59	15·0	– 21	+ 5·9	15·3	75·9	76·50	c.f.q. p.
28	6·0	9·8	77	– 6·0	+14·1	67	15·3	– 13	+ 6·2	15·5	76·0	76·50	c.p. : c. : c.f. : b.
29	3·0	11·1	87	– 4·0	+14·0	74	14·6	– 6	+ 5·5	14·9	76·1	76·50	b. : c.f.
30	4·5	10·0	78	– 1·3	+14·1	85	14·2	+ 5	+ 5·2	14·6	76·2	76·55	c.f.
31	4·0	8·9	69	– 1·9	+10·3	80	10·5	– 1	+ 1·5	10·8	76·3	76·55	c.p. : c.f.
Mean -	5·5	8·85	70·8	– 2·92	+9·89	73·5	10·31	– 4·2	+ 0·90	11·58	75·53	76·58	..
Average	5·7	8·14	65·1	– 2·00	+9·20	77·7	9·41	..	..	11·00	75·79	76·35	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

15th, rose from 71°·4 on the 20th to 75°·4 on the 23rd, and fell to 72°·7 on the 26th. The vapour tension decreased from 0·586 in. on the 3rd to 0·491 in. on the 5th and increased from 0·465 in. on the 7th to 0·687 in. on the 13th, decreased from 0·655 in. on the 15th to 0·554 in. on the 19th and increased to 0·652 in. on the 23rd, oscillating afterwards irregularly. The wind velocity showed marked maxima and minima at the times of principal maximum and minimum pressure.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation=100). Mean.	Degree of Humidity (Saturation=100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0 – 10.)
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
Nov. 1	29·974	+·066	81·8	66·8	15·0	74·1	+0·3	67·3	62·3	−0·6	67	− 2	·562	145·8	60·2	0·000	..	1·7
2	29·965	+·059	83·6	68·1	15·5	74·1	+0·2	66·3	60·6	−2·4	63	− 6	·529	145·2	62·7	0·015	35	2·6
3	29·940	+·036	79·8	64·0	15·8	71·6	−2·3	65·1	60·2	−2·9	67	− 2	·522	144·3	57·1	0·035	30	2·4
4	29·980	+·078	79·7	62·7	17·0	71·8	−2·2	65·3	60·4	−2·8	68	0	·526	140·6	55·7	0·015	55	1·6
5	29·972	+·072	82·3	67·8	14·5	73·7	−0·4	67·6	63·1	−0·2	69	+ 1	·578	147·8	64·4	0·025	30	1·9
6	29·941	+·044	83·0	67·0	16·0	74·2	0·0	67·0	61·7	−1·7	65	− 3	·550	146·0	61·0	0·000	..	2·6
7	29·908	+·013	84·4	65·5	18·9	74·5	+0·2	67·7	62·8	−0·7	67	− 1	·572	145·3	59·7	0·010	60	2·7
8	29·920	+·027	83·8	66·9	16·9	74·3	−0·1	67·2	62·0	−1·6	66	− 2	·556	144·3	61·7	0·050	30	2·5
9	29·894	+·003	84·3	63·3	21·0	74·4	−0·1	68·0	63·3	−0·4	68	0	·582	154·2	56·9	0·000	..	1·5
10	29·879	−·010	83·5	69·2	14·3	75·2	+0·6	71·5	68·8	+5·0	81	+ 13	·704	137·5	66·7	0·620	275	0·4
11	29·898	+·011	78·8	67·7	11·1	72·2	−2·5	70·2	68·7	+4·9	89	+ 21	·701	120·8	64·1	2·885	375	1·3
12	29·920	+·035	81·4	69·1	12·3	74·7	−0·1	68·8	64·6	+0·7	71	+ 3	·609	141·1	65·0	0·265	175	2·3
13	29·893	+·010	81·7	67·7	14·0	74·7	−0·2	69·0	64·9	+0·9	72	+ 4	·615	147·8	61·3	0·000	..	1·5
14	29·872	−·009	86·8	65·9	20·9	75·0	0·0	69·0	64·7	+0·6	70	+ 2	·611	145·5	61·2	0·000	..	0·4
15	29·903	+·024	81·3	64·3	17·0	72·0	−3·1	68·6	66·1	+1·9	82	+ 14	·641	140·2	59·4	0·575	130	0·6
16	29·915	+·039	82·5	68·3	14·2	74·9	−0·3	69·5	65·6	+1·3	73	+ 5	·630	158·2	63·1	0·050	55	1·7
17	29·914	+·040	81·8	69·0	12·8	75·9	+0·6	68·6	63·4	−1·0	65	− 3	·584	144·2	63·2	0·075	75	2·0
18	29·896	+·024	81·6	67·1	14·5	74·0	−1·4	67·8	63·3	−1·2	69	+ 1	·582	148·0	61·2	0·055	55	2·6
19	29·901	+·031	81·6	69·3	12·3	74·9	−0·6	69·3	65·3	+0·7	72	+ 4	·624	144·4	64·5	0·040	75	3·0
20	29·902	+·034	82·3	67·9	14·4	74·1	−1·5	68·3	64·1	−0·6	71	+ 3	·598	145·0	62·9	0·000	..	2·4
21	29·936	+·071	80·5	68·6	11·9	73·0	−2·7	69·1	66·2	+1·4	79	+ 11	·644	142·5	64·0	0·385	335	2·6
22	29·948	+·085	81·2	68·2	13·0	73·9	−1·9	68·1	63·9	−1·0	71	+ 2	·594	142·4	63·5	0·030	20	3·0
23	29·930	+·069	82·2	69·2	13·0	75·5	−0·4	68·5	63·5	−1·5	66	− 3	·586	144·3	65·0	0·000	..	3·0
24	29·899	+·040	82·7	67·0	15·7	74·2	−1·8	66·5	60·9	−4·2	63	− 6	·535	147·3	62·3	0·000	..	2·4
25	29·890	+·033	82·9	63·3	19·6	74·4	−1·7	67·4	62·3	−2·9	66	− 3	·562	144·6	57·7	0·000	..	2·9
26	29·861	+·007	84·5	69·9	14·6	76·8	+0·6	70·7	66·4	+1·0	70	+ 1	·648	147·3	65·1	0·000	..	2·6
27	29·845	−·007	82·0	67·3	14·7	74·8	−1·5	69·1	65·0	−0·5	72	+ 3	·617	139·5	64·0	0·000	..	1·6
28	29·824	−·026	85·4	64·8	20·6	75·0	−1·4	68·6	64·0	−1·6	69	0	·596	149·4	59·1	0·000	..	1·9
29	29·823	−·025	85·1	64·6	20·5	74·9	−1·7	68·7	64·2	−1·5	69	0	·601	150·0	59·4	0·000	..	2·6
30	29·861	+·015	85·6	68·6	17·0	76·9	+0·2	70·1	65·3	−0·5	68	− 1	·624	150·3	63·1	0·000	..	3·3
Mean	29·907	+·030	82·6	67·0	15·6	74·3	−0·9	68·3	63·9	−0·4	70·3	+1·9	·596	144·8	61·8	Sum 5·130	Sum 1810	2·1
Average	29·877	..	84·1	67·3	16·8	75·2	..	68·8	64·3	..	68·4	..	·603	146·9	62·0	1·869	868	3·3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

During the month of November the pressure oscillations were small and, as a rule, unaccompanied by regular changes of temperature; during a wave of pressure, however, from 29·928 ins. at 14h on the 16th to 29·889 ins. at 9h on the 18th and to 29·963 ins. at 9h on the 22nd, the mean temperature fell from 75°·9 (on the 17th) to 73°·0 (on the 21st) and rose to 75°·5 (on the 23rd), while the vapour tension

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Nov. 1	6·9	3·9	31	– 0·6	+ 10·9	87	10·9	+ 6	+ 1·9	11·6	76·3	76·55	c.f. : c.
2	5·5	8·1	63	– 3·5	+ 9·1	69	9·7	– 12	+ 0·7	10·8	76·4	76·55	c.p. : c.f.
3	7·9	6·1	48	– 3·8	+ 9·3	68	10·0	– 13	+ 1·0	10·7	76·4	76·55	c. : c.p. : c.f.
4	5·6	8·2	64	– 1·4	+ 11·0	83	11·1	+ 2	+ 2·1	11·8	76·5	76·60	c.f. : c. : c.p.
5	5·5	10·3	80	– 1·5	+ 13·1	83	13·2	+ 2	+ 4·3	13·6	76·5	76·60	c.p. : c.f.
6	4·5	11·1	86	+ 0·7	+ 11·6	93	11·6	+ 11	+ 2·7	11·9	76·6	76·60	c.f.
7	2·9	11·4	88	+ 0·6	+ 8·1	94	8·1	+ 12	– 0·8	8·4	76·7	76·60	c.f. : c.p.
8	6·0	9·0	70	– 1·0	+ 8·5	83	8·5	+ 1	– 0·4	9·0	76·7	76·60	c.p. : c. : c.f.
9	5·9	7·1	55	– 5·1	+ 10·4	64	11·5	– 18	+ 2·6	12·0	76·8	76·60	c.f. : c.
10	9·7	0·1	1	+ 4·0	+ 3·3	140	5·1	+ 58	– 3·8	7·4	76·8	76·60	o.r. : c.p. : c.d. : c.r.
11	8·7	1·5	12	– 0·2	+ 1·3	81	1·3	– 1	– 7·6	4·6	76·8	76·60	c.f. : o.r. : o.
12	5·6	11·1	86	– 1·5	+ 10·3	82	10·4	– 1	+ 1·6	10·9	76·9	76·60	c.p. : c.f.
13	5·1	8·9	69	+ 1·3	+ 8·0	99	8·1	+ 16	– 0·7	8·9	77·0	76·60	c.f. : c.
14	4·9	8·5	65	+ 3·0	+ 4·4	124	5·3	+ 41	– 3·5	7·2	77·0	76·65	c.f. : c.
15	7·5	3·1	24	– 1·0	+ 4·0	76	4·1	– 7	– 4·7	5·2	77·1	76·65	c.f. : c. : o. : o.p. : c.d.
16	6·7	7·3	56	– 2·0	+ 8·0	76	8·3	– 7	– 0·5	8·6	77·1	76·65	c. : c.p. : c. : c.f.
17	5·9	9·4	72	– 1·7	+ 11·3	81	11·4	– 3	+ 2·6	11·6	77·2	76·65	c.p. : c.f.
18	5·4	10·3	79	– 2·6	+ 11·2	77	11·5	– 7	+ 2·7	11·8	77·3	76·65	c.f. : c.p. : c.f.
19	8·4	5·5	42	– 1·6	+ 11·9	82	12·0	– 2	+ 3·2	12·6	77·3	76·65	c.p. : c.f.
20	5·9	8·5	65	– 1·9	+ 11·6	81	11·8	– 3	+ 3·1	12·1	77·4	76·70	c. : c.f.
21	9·0	4·1	31	+ 0·3	+ 8·9	92	8·9	+ 8	+ 0·2	9·4	77·4	76·70	o.p. : c. : c.f.
22	5·1	8·9	68	– 1·2	+ 12·0	84	12·1	0	+ 3·4	12·4	77·4	76·70	c. : c.p. : c.f.
23	5·1	9·5	72	– 2·6	+ 10·6	76	10·9	– 9	+ 2·2	11·3	77·4	76·70	c.f.
24	4·2	10·6	81	– 3·9	+ 9·2	67	9·9	– 18	+ 1·2	10·2	77·5	76·70	c.f.
25	2·5	11·7	89	– 2·7	+ 10·1	75	10·5	– 10	+ 1·8	10·7	77·6	76·70	c.f.
26	4·1	8·6	66	+ 1·8	+ 9·9	100	10·1	+ 15	+ 1·4	10·4	77·6	76·70	c.f.
27	9·1	1·5	11	+ 1·0	+ 1·6	122	1·9	+ 36	– 6·8	5·3	77·7	76·70	c. : c.f. : c.
28	3·7	9·3	70	+ 0·6	– 0·2	198	0·6	+ 112	– 8·1	5·6	77·7	76·70	b. : c.f. : c.
29	6·1	6·6	50	– 1·8	+ 7·4	76	7·6	– 10	– 1·1	9·0	77·7	76·70	c. : c.f. : c.
30	6·4	10·4	79	– 4·6	+ 8·3	61	9·5	– 25	+ 0·8	9·8	77·7	76·70	c.f.
Mean -	6·0	7·69	59·1	–1·10	+ 8·50	82·6	8·57	– 0·8	– 0·24	9·83	77·08	76·64	..
Average	5·5	8·59	66·1	–1·02	+ 8·75	83·4	8·81	..	..	10·70	77·02	76·34	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

increased generally from 0·582 in. (on the 18th) to 0·644 in. (on the 21st) and decreased to 0·535 in. (on the 24th). The wind velocity showed maxima and minima at the times of principal pressure maxima and minima. Heavy rain fell on the 10th and 11th, during a feeble pressure minimum.

Month and Day, 1901.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature of the Dew-Point. Mean.	Temperature of the Dew-Point. Excess above Average.	Degree of Humidity (Saturation=100). Mean.	Degree of Humidity (Saturation=100). Excess above Average.	Elastic Force of Vapour.	Temperature of Radiation. Highest in the Sun's Rays.	Temperature of Radiation. Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Rainfall. Duration.	Amount of Ozone (Scale 0–10).
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	
Dec. 1	29·856	+·013	84·0	71·2	12·8	77·1	+0·3	70·1	65·2	−0·7	67	− 3	·622	143·2	65·2	0·000	..	3·8
2	29·817	−·024	80·9	72·4	8·5	75·5	−1·5	72·8	70·9	+4·9	86	+ 16	·756	142·1	69·0	0·345	430	4·0
3	29·790	−·049	77·8	73·0	4·8	75·0	−2·1	73·3	72·1	+5·9	91	+ 21	·788	115·1	72·3	1·040	475	4·0
4	29·752	−·085	76·8	72·0	4·8	74·9	−2·3	73·2	72·0	+5·7	91	+ 21	·785	101·9	68·2	0·765	300	4·0
5	29·789	−·046	80·5	71·9	8·6	75·7	−1·6	74·2	73·1	+6·7	92	+ 22	·815	128·6	69·5	1·390	283	3·4
6	29·813	−·020	83·4	70·1	13·3	77·4	0·0	74·5	72·5	+6·0	85	+ 15	·799	143·0	(72·0)	0·020	20	2·4
7	29·847	+·016	85·4	66·7	18·7	75·9	−1·6	71·9	69·1	+2·5	80	+ 10	·711	143·0	62·2	0·000	..	1·0
8	29·877	+·048	86·1	67·4	18·7	77·1	−0·5	72·7	69·6	+2·9	78	+ 8	·723	147·4	62·8	0·060	35	0·2
9	29·875	+·048	83·8	70·9	12·9	76·6	−1·0	71·3	67·6	+0·8	74	+ 3	·675	146·9	62·7	0·000	..	1·9
10	29·831	+·006	83·7	68·5	15·2	77·1	−0·6	71·5	67·6	+0·6	73	+ 2	·675	148·3	62·9	0·070	22	1·1
11	29·807	−·015	86·4	74·2	12·2	79·2	+1·4	75·8	73·5	+6·4	83	+ 12	·826	150·7	71·8	0·165	100	0·6
12	29·849	+·029	83·5	73·5	10·0	76·9	−0·9	73·8	71·6	+4·4	84	+ 13	·774	137·2	70·6	0·240	115	1·7
13	29·876	+·058	82·0	72·2	9·8	76·6	−1·3	72·9	70·3	+3·0	81	+ 10	·741	145·0	69·8	0·175	130	2·6
14	29·877	+·061	82·5	71·8	10·7	76·8	−1·2	71·2	67·3	−0·1	73	+ 2	·668	144·4	68·3	0·000	..	3·0
15	29·889	+·075	83·2	70·2	13·0	76·4	−1·6	70·4	66·1	−1·4	70	− 1	·641	146·0	65·1	0·000	..	3·6
16	29·879	+·068	81·7	70·8	10·9	75·7	−2·4	70·2	66·3	−1·3	73	+ 2	·646	144·8	67·3	0·000	..	4·0
17	29·909	+·100	83·7	70·5	13·2	76·3	−1·8	69·4	64·5	−3·3	67	− 4	·607	139·7	64·8	0·000	..	3·4
18	29·908	+·101	83·2	68·4	14·8	75·8	−2·4	69·0	64·2	−3·7	67	− 4	·601	146·1	62·0	0·025	10	2·4
19	29·826	+·021	84·4	71·8	12·6	76·2	−2·0	71·8	68·7	+0·7	78	+ 7	·701	147·5	67·2	0·175	115	3·2
20	29·752	−·051	83·9	74·1	9·8	77·5	−0·8	74·6	72·6	+4·5	85	+ 14	·801	146·9	72·0	0·465	205	3·1
21	29·818	+·018	86·3	71·9	14·4	78·6	+0·3	74·0	70·8	+2·6	77	+ 6	·754	148·3	68·0	0·000	..	2·8
22	29·872	+·074	86·6	70·5	16·1	78·0	−0·4	73·6	70·6	+2·3	78	+ 7	·749	151·2	66·0	0·000	..	2·4
23	29·879	+·083	84·7	71·0	13·7	77·1	−1·3	71·9	68·3	−0·1	74	+ 3	·692	154·6	66·4	0·080	65	3·2
24	29·839	+·045	84·3	70·2	14·1	76·5	−1·9	71·1	67·3	−1·2	73	+ 2	·668	150·2	65·2	0·020	10	4·0
25	29·807	+·015	84·4	69·1	15·3	76·5	−2·0	70·6	66·5	−2·1	71	0	·650	144·1	64·0	0·000	..	4·0
26	29·838	+·048	85·2	70·6	14·6	77·2	−1·3	71·6	67·7	−1·0	73	+ 1	·678	141·7	68·0	0·100	75	3·4
27	29·855	+·067	84·1	71·8	12·3	77·3	−1·2	72·0	68·3	−0·5	74	+ 2	·692	144·9	67·4	0·025	20	4·2
28	29·829	+·043	85·6	71·1	14·5	77·8	−0·8	72·4	68·7	−0·2	74	+ 2	·701	147·8	66·3	0·040	40	3·8
29	29·782	−·002	86·6	70·4	16·2	78·2	−0·4	72·2	68·1	−0·9	71	− 1	·687	149·0	64·8	0·000	..	1·4
30	29·769	−·013	85·6	72·5	13·1	76·5	−2·1	73·8	71·9	+2·8	86	+ 14	·782	150·6	68·2	1·050	245	0·8
31	29·777	−·003	86·5	73·5	13·0	78·4	−0·2	74·2	71·3	+2·1	79	+ 7	·766	149·8	69·9	0·000	..	0·4
Mean	29·835	+·024	83·8	71·1	12·7	76·8	−1·2	72·3	69·2	+1·6	77·7	+6·8	·715	143·2	67·1	Sum 6·250	Sum 2695	2·7
Average	29·811	..	86·2	71·2	15·0	78·0	..	72·1	67·6	..	70·9	..	·676	147·4	66·4	4·431	1317	3·3
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

During the passage of a cyclone from N.E. to N., W., and S. of Mauritius, the barometer fell from 29·872 in. at 5h on the 30th of November to 29·738 ins. at 9h on the 4th of December, and rose to 29·894 ins. at 4h on the 9th; the mean temperature fell from 77°·1 on the 1st to 74°·9 on the 4th and rose to 77°·4 on the 6th; the vapour tension increased from 0·596 in. on the 28th of November to 0·815 in. on the 5th of December and decreased to 0·675 in. on the 9th; the wind backed from E.S.E. on the 2nd to W.N.W. on the 6th, and veered to E.S.E. on the 10th, its greatest hourly velocity was 30 miles at 8h on the 4th.

Month and Day, 1901.	Mean Amount of Cloud (Scale 0 – 10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. At a Depth of 5 Feet.	Temperature of the Soil. At a Depth of 10 Feet.	Weather.
		hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Dec. 1	4·0	10·8	82	– 5·2	+14·6	70	15·5	– 16	+ 6·9	15·8	77·7	76·70	c.f.
2	9·6	2·0	15	– 5·9	+18·7	72	19·6	– 15	+11·0	19·9	77·8	76·70	c.p.
3	10·0	0·0	0	– 1·0	+23·5	88	23·5	+ 1	+14·9	23·7	77·9	76·75	o. : o.r.
4	10·0	0·0	0	+ 3·7	+23·0	99	23·3	+ 12	+14·7	23·9	78·0	76·80	o.p.
5	9·9	0·7	6	+15·9	+ 4·7	164	16·6	+ 77	+ 8·0	18·2	78·0	76·80	o.r. : c.p.
6	8·0	8·1	61	+ 3·1	– 6·9	246	7·5	+ 158	– 1·1	8·9	78·1	76·80	c. : c.p. : c.f.
7	4·1	8·4	63	+ 0·9	– 0·8	222	1·2	+ 134	– 7·4	5·0	78·2	76·80	c.f.
8	3·9	10·4	79	+ 1·3	+ 5·9	102	6·0	+ 14	– 2·6	6·4	78·2	76·80	c.f. : c.p
9	3·1	10·3	78	– 2·2	+ 9·3	77	9·6	– 11	+ 1·0	9·9	78·3	76·85	c.f. : b.
10	3·2	11·1	83	– 3·7	+ 9·2	68	9·9	– 21	+ 1·3	10·1	78·3	76·90	b. : c.f. : c.p.
11	8·7	4·6	35	+ 3·0	+ 6·7	114	7·3	+ 25	– 1·2	7·8	78·3	76·90	o. : c. : c.p.l.
12	8·5	4·6	35	– 2·8	+ 9·1	73	9·5	– 16	+ 1·0	10·2	78·3	76·90	c.p. : c. : o.p.t.
13	9·2	5·4	40	– 3·5	+14·0	76	14·4	– 14	+ 5·9	14·8	78·3	76·90	c.p. : c.f.
14	6·2	10·9	82	+ 0·3	+13·6	91	13·6	+ 1	+ 5·1	13·8	78·3	76·90	c.f. : c.d. : c.f.
15	9·0	9·9	74	+ 0·9	+13·3	94	13·3	+ 4	+ 4·8	13·5	78·3	76·90	c.f q.
16	7·0	9·1	68	+ 0·7	+14·3	93	14·3	+ 2	+ 5·8	14·5	78·3	76·90	c. : c.d. : c.
17	4·0	11·6	87	– 2·5	+10·7	77	11·0	– 14	+ 2·5	11·1	78·4	76·90	b. : c.f.
18	5·0	10·5	79	– 2·6	+11·1	77	11·4	– 14	+ 2·9	11·6	78·5	76·90	c.p. : c.f. : b.
19	7·5	6·9	52	– 5·6	+14·4	69	15·4	– 22	+ 6·9	15·6	78·5	76·95	b. : c.f. : c. : c.p. : o.
20	8·6	6·4	48	+ 4·4	+10·5	113	11·4	+ 21	+ 2·9	12·7	78·5	76·95	o.r. : c.p.t. : c.
21	5·4	10·5	79	+ 6·3	+ 1·1	170	6·4	+ 78	– 2·1	6·6	78·5	77·00	c.f.
22	6·0	6·6	49	+ 3·1	+ 4·6	124	5·5	+ 32	– 3·0	5·8	78·5	77·00	b. : c.f. : c.
23	3·5	11·4	86	– 0·5	+ 7·7	86	7·7	– 7	– 0·8	8·1	78·6	77·00	c.p. : c.f.
24	5·9	10·0	75	+ 1·0	+ 7·8	97	7·9	+ 4	– 0·6	8·2	78·7	77·00	p. c.f.
25	3·6	10·8	81	– 0·6	+ 9·1	86	9·1	– 7	+ 0·6	9·4	78·8	77·00	b. : p. c.f. : b.
26	3·0	11·2	84	– 0·7	+ 9·8	86	9·8	– 7	+ 1·3	10·1	78·9	77·00	p.c. : c.f. : b.
27	5·7	10·9	82	– 1·7	+11·2	81	11·3	– 11	+ 2·8	11·5	78·9	77·05	b. : c.f. : c.p.
28	4·2	11·3	85	+ 0·2	+10·1	91	10·1	– 1	+ 1·6	10·3	79·0	77·05	p. : b. : c.f. : b.
29	5·1	11·0	83	– 2·3	+ 8·4	75	8·7	– 17	+ 0·2	9·1	79·0	77·05	c.f. : c.
30	6·9	4·6	35	– 1·6	+ 4·6	71	4·9	– 20	– 3·6	6·2	79·0	77·05	c.p. : o.r. : c.p.
31	7·6	8·0	60	– 1·1	+ 6·7	81	6·8	– 10	– 1·7	7·0	79·1	77·10	c.f. : c.l.t. : c.f.
Mean -	6·3	8·00	60·3	+ 0·04	+ 9·68	90·2	9·68	– 0·7	+ 1·15	11·60	78·43	76·91	..
Average	6·1	8·27	62·3	+ 0·13	+ 8·53	90·9	8·53	..	..	10·79	78·55	76·61	..
Column	19	20	21	22	23	24	25	26	27	28	29	30	31

The barometer rose generally from 29·786 ins. at 2^h on the 11th to 29·936 ins. at 3^h on the 18th and fell to 29·730 ins. at 5^h on the 20th. During the passage of this anticyclone the mean temperature fell from 79°·2 on the 11th to 75°·7 on the 16th and rose from 75°·8 on the 18th to 78°·6 on the 21st; the vapour tension decreased from 0·826 in. on the 11th to 0·601 in. on the 18th and rose to 0·801 in. on the 20th; the wind velocity increased from 7·8 miles per hour on the 11th to 14·8 miles per hour on the 13th and decreased from 15·6 miles per hour on the 19th to 5·8 miles per hour on the 22nd.

MONTHLY RESULTS of the METEOROLOGICAL ELEMENTS for the YEAR 1901.

Month, 1901.	Mean Barometric Pressure.	Temperature of the Air. Highest.	Lowest.	Range.	Mean of the Daily Maxima.	Mean of the Daily Minima.	Mean of the Daily Ranges.	Mean.	Temperature of Evaporation.	Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Daily Duration of Sunshine.	Percentage of Possible Sunshine.	Temperature of the Soil. At a Depth of 5 Feet.	At a Depth of 10 Feet.
	ins.	°	°	°	°	°	°	°	°	°	in.		hrs.		°	°
January -	29·782	90·4	70·2	20·2	86·1	73·1	13·0	79·1	73·7	70·0	·736	74·2	7·55	57·4	80·43	77·72
February -	29·791	88·4	63·8	24·6	85·9	71·8	14·1	78·1	73·6	70·4	·745	77·3	7·35	57·8	80·80	78·10
March - -	29·742	88·2	69·8	18·4	84·9	72·9	12·0	78·2	74·6	72·2	·790	81·9	6·66	54·8	81·39	78·38
April - -	29·794	85·7	61·2	24·5	81·6	69·4	12·2	75·1	71·3	68·4	·702	79·8	7·96	68·6	81·28	78·38
May - -	29·887	83·9	62·7	21·2	79·9	68·3	11·6	73·6	68·9	65·5	·634	76·3	8·44	75·8	79·91	78·25
June - -	29·964	80·1	58·4	21·7	75·3	63·3	12·0	68·7	64·0	60·4	·529	75·2	6·99	63·8	78·36	78·28
July - -	30·010	77·7	55·9	21·8	75·1	62·6	12·5	68·3	64·1	60·8	·535	77·1	7·45	67·7	76·54	77·98
August -	30·020	77·6	56·7	20·9	74·6	61·9	12·7	67·4	62·5	58·6	·495	73·5	7·28	63·9	75·47	77·43
September -	30·035	80·3	54·9	25·4	77·0	61·6	15·4	68·6	63·0	58·6	·493	70·5	8·33	69·8	75·03	76·85
October - -	29·962	85·3	58·3	27·0	81·0	65·3	15·7	72·3	66·7	62·5	·568	71·5	8·85	70·8	75·53	76·58
November -	29·907	86·8	62·7	24·1	82·6	67·0	15·6	74·3	68·3	63·9	·596	70·3	7·69	59·1	77·08	76·64
December -	29·835	86·6	66·7	19·9	83·8	71·1	12·7	76·8	72·3	69·2	·715	77·7	8·00	60·3	78·43	76·91
For the Year -	29·894	90·4	54·9	35·5	80·7	67·4	13·3	73·4	68·6	65·0	·628	75·4	7·71	64·0	78·35	77·62
Maximum -	ins. 30·260 Aug. 23	° 90·4 Jan. 1	..	..	° 86·1 Jan.	..	° 23·9 Sep. 28	..	° 80·1 Mar. 4	° 77·5 Mar. 22	in. ·943 Mar. 22	98·5 Jan. 12	hrs. 12·3 Jan. 9	95 Apr. 2, 28 & 29	° 82·1 Mar. 30	*° 79·40 Jan. 14
Minimum -	ins. 29·249 Jan. 12	..	° 54·9 Sep. 28	..	..	° 61·6 Sep.	° 3·2 Mar. 29	..	° 52·6 Aug. 11	° 48·8 Aug. 11	in. ·345 Aug. 11	37·0 Jan. 9	0	0	° 74·9 Sep. 7	° 76·50 Oct. 26
Column - -	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Month, 1901.	Mean Amount of Cloud. Upper.	Lower.	Total.	Number of Days of Clear Sky.	Overcast Sky.	Rain.	Thunderstorms.	Lightning.	Rainfall. Amount recorded by the Beckley Pluviograph.	Duration.	Amount collected in the Glaisher Rain Gauge.	Excess of Beckley over Glaisher.	Mean Daily Amount of Evaporation.	Mean Daily Amount of Ozone (0 – 10).	Wind. Resultants. Direction.	Velocity.	Recorded Velocity.
									ins.	mins.	ins.	in.	in.		°	m.p.h.	m.p.h.
January -	0·7	5·4	6·1	4	13	15	1	0	17·54	3440	18·60	−1·06	·247	2·2	109·5	11·59	14·23
February -	1·0	4·9	5·9	3	9	15	9	2	3·45	1077	3·67	−0·22	·188	2·3	73·8	4·90	7·19
March - -	1·4	5·2	6·6	2	14	18	8	1	9·34	3307	9·68	−0·34	·165	2·5	79·5	4·92	7·62
April - -	1·0	4·1	5·1	6	9	15	5	4	3·27	1075	3·43	−0·16	·142	4·3	65·1	7·76	9·43
May - -	0·3	5·0	5·3	2	6	16	0	0	2·64	930	2·45	+0·19	·166	4·8	63·4	10·87	11·95
June - -	0·3	5·3	5·6	4	8	15	0	0	1·43	1490	1·39	+0·04	·121	4·6	49·6	10·08	11·29
July - -	0·9	4·5	5·4	4	6	19	0	0	2·06	1712	1·91	+0·15	·128	5·6	67·2	10·95	11·29
August - -	0·4	5·7	6·1	1	11	25	0	0	2·53	2768	2·47	+0·06	·143	4·0	66·1	10·98	12·06
September -	0·2	4·6	4·8	4	3	10	0	0	0·97	1205	0·92	+0·05	·195	3·5	68·3	11·04	12·08
October -	0·6	4·9	5·5	1	8	·14	0	0	0·86	1465	0·79	+0·07	·226	3·0	73·5	10·31	11·58
November -	0·5	5·5	6·0	2	7	16	0	0	5·13	1810	5·06	+0·07	·238	2·1	82·6	8·57	9·83
December -	1·0	5·3	6·3	0	12	19	3	1	6·25	2695	6·10	+0·15	·224	2·7	90·2	9·68	11·69
For the Year -	0·7	5·0	5·7	33	106	197	26	8	55·47	Hours. 382·9	56·47	−1·00	·182	3·5	73·9	8·96	10·85
Maximum - -	..	..	..	6 April	14 Mar.	25 Aug.	9 Feb.	4 Apr.	ins. 11·870 during 24 hours ending January 13d 12h.				..	7·3 July 8	72·0 m.p.h. on January 12.		
Minimum -	..	..	..	0 Dec.	3 Sept.	10 Sept.	0	0	..				..	0	..		
Column - -	17	18	19	20	21	22	23	24	25				26	27	28		

* After heavy rain.

MONTHLY NORMALS of the METEOROLOGICAL ELEMENTS.

Month.	Mean Barometric Pressure.	Temperature of the Air. Highest.	Lowest.	Range.	Mean of the Daily Maxima.	Mean of the Daily Minima.	Mean of the Daily Ranges.	Mean.	Temperature of Evaporation.	Temperature of the Dew-Point.	Elastic Force of Vapour.	Degree of Humidity (Saturation = 100).	Daily Duration of Sunshine.	Percentage of Possible Sunshine.	Temperature of the Soil. At a Depth of Feet.	At a Depth of 10 Feet.
	ins.	°	°	°	°	°	°	°	°	°	in.		hrs.		°	°
January - -	29·750	93·1	66·5	21·9	86·4	72·9	13·5	78·9	73·8	70·2	·737	75·1	7·69	58·6	79·92	77·12
February -	29·731	91·0	63·8	20·1	85·7	72·9	12·8	78·5	74·1	70·9	·757	77·7	7·21	56·7	80·74	77·64
March - -	29·766	88·8	63·3	20·1	84·2	72·0	12·2	77·3	73·3	70·5	·747	80·0	6·72	55·3	81·15	78·06
April - -	29·822	86·9	62·7	20·4	82·2	70·2	12·0	75·3	71·4	68·8	·704	80·9	7·31	63·1	80·82	78·31
May - -	29·890	84·5	55·4	23·1	78·8	66·5	12·3	72·1	68·1	65·3	·625	79·3	7·37	66·4	79·71	78·39
June - -	29·965	82·9	50·6	23·4	75·9	62·5	13·4	68·7	64·4	61·1	·538	76·4	7·43	68·3	78·09	78·25
July - -	30·004	80·3	52·9	21·8	75·1	61·5	13·6	67·5	63·1	59·4	·507	75·7	7·65	69·5	76·38	77·82
August - -	30·010	79·9	50·9	22·4	75·5	62·1	13·4	68·0	63·2	59·4	·508	74·5	7·49	65·7	75·28	77·25
September -	29·993	82·9	53·8	23·6	77·5	62·6	14·9	69·6	64·3	60·2	·522	71·9	8·01	67·0	75·14	76·69
October - -	29·942	87·8	57·7	25·7	81·1	64·6	16·5	72·1	66·2	61·8	·552	70·1	8·14	65·1	75·79	76·35
November -	29·877	90·0	57·9	26·4	84·1	67·3	16·8	75·2	68·8	64·3	·603	68·4	8·59	66·1	77·02	76·34
December -	29·811	94·7	62·1	24·5	86·2	71·2	15·0	78·0	72·1	67·6	·676	70·9	8·27	62·3	78·55	76·61
For the Year -	29·880	94·7	50·6	37·7	81·1	67·2	13·9	73·4	68·6	65·0	·623	75·1	7·66	63·7	78·22	77·40
Maximum -	ins. 30·274 June 20 1877	° 94·7 Dec. 23 1900	..	° 43·9 1900	° 89·9 Jan. 1900	..	° 26·5 Nov. 2 1900	..	° 81·3 Feb. 21 1900	° 79·1 Jan. 14 1897	in. ·994 Jan. 14 1897	98·5 Jan. 12 1901	hrs. 12·5 Dec. 9 1889	97 June 19 1889	° 82·7 Feb. 13 1892	° 79·99 May 13 1898
Minimum - -	ins. 27·780 April 29 1892	..	° 50·6 June 10 1894	° 34·0 1892	..	° 59·1 June 1894	° 2·0 June 14 1891	..	° 48·9 June 10 1894	° 46·7 June 10 1894	in. ·321 June 10 1894	34·0 Nov. 26 1896	0	0	° 74·0 Sep. 13 1893	° 75·24 Nov. 15 1893
Number of Years employed -	27	11	11	11	11	11	11	11	11	11	11	11	15	15	16	15
Column - -	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Month, 1901.	Mean Amount of Cloud. Upper (0 – 10).	Lower (0 – 10).	Total (0 – 10).	Number of Days of Clear Sky.	Overcast Sky.	Rain.	Thunderstorms.	Lightning.	Rainfall. Amount recorded by the Beckley Pluviograph.	Duration.	Amount collected in the Glaisher Rain Gauge.	Excess of Beckley over Glaisher.	Mean Daily Amount of Evaporation.	Mean Daily Amount of Ozone (0 – 10).	Wind. Resultant. Direction.	Velocity.	Recorded Velocity.
									ins.	mins.	ins.	in.	in.		°	m.p.h.	m.p.h.
January - -	1·3	5·1	6·4	0	8	18	4	2	8·19	2195	8·18	+·01	·248	3·4	86·4	8·42	11·07
February -	1·2	5·1	6·3	0	8	18	4	2	7·59	2032	7·48	+·11	·217	3·2	81·2	8·13	10·99
March - -	1·2	5·2	6·4	0	9	21	5	2	9·76	2823	9·76	00	·185	3·8	77·8	8·08	10·42
April - -	1·1	4·6	5·7	1	6	18	3	1	5·03	1718	4·97	+·06	·166	4·4	70·4	8·56	10·51
May - -	0·8	4·3	5·1	3	4	15	1	1	3·26	1398	3·19	+·07	·143	4·7	64·7	9·00	10·27
June - -	0·4	4·5	4·9	2	4	15	0	0	1·96	1232	1·91	+·05	·123	5·0	60·8	10·16	11·19
July - -	0·3	4·8	5·1	1	3	21	0	0	2·33	1586	2·35	—·02	·133	5·3	64·4	10·86	11·96
August - -	0·3	5·2	5·5	1	4	21	0	0	3·05	1890	2·97	+·08	·159	5·3	67·7	11·18	12·34
September -	0·4	5·2	5·6	1	4	15	0	0	1·28	963	1·25	+·03	·192	4·8	71·5	10·69	12·02
October - -	0·7	5·0	5·7	1	4	15	0	0	1·19	822	1·15	+·04	·229	4·1	77·7	9·41	11·00
November -	0·7	4·8	5·5	1	4	13	1	1	1·87	868	1·84	+·03	·270	3·3	83·4	8·81	10·70
December -	1·0	5·1	6·1	0	7	15	2	1	4·43	1317	4·38	+·05	·262	3·3	90·9	8·53	10·79
For the Year -	0·8	4·9	5·7	11	65	205	20	10	49·94	hours. 314·4	49·43	+·51	·194	4·2	74·0	9·20	11·10
Maximum -	..	..	..	8 May 1882	18 Mar. 1882	28 Mar. 1895	19 Jan. 1898	9 Jan. 1863	ins. 19·318 during 24 hours ending Feb. 20d 13h 1896.				..	9·7 June 2 1896	103·3 m.p.h. for 1 hr. 121·2 m.p.h. for 5 mins.		Apr. 29 1892
Minimum - -	..	..	..	0	0	4 June 1900	0	0	..				..	0	..		
Number of Years employed -	23	23	23	23	23	14	41	41	14				14	14	26		
Column - -	17	18	19	20	21	22	23	24	25				26	27	28		

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

Maxima.			Minima.		
Mauritius Civil Time, 1901.		Reading.	Mauritius Civil Time, 1901.		Reading.
	d h	ins.		d h	ins.
January	4. 1	29·853	January	1.12	29·773
	9. 4	29·775		8.13	29·700
	18.13	29·900		12.22	29·216
	24. 6	29·888		22.15	29·806
	28.18	29·965		25.16	29·643
February	1.13	29·859		31. 6	29·812
	6.16	29·816	February	5.10	29·748
	12. 9	29·772		10.14	29·708
	16.10	29·813		14. 0	29·712
	20. 8	29·905		17.21	29·758
	24. 4	29·851		22. 1	29·720
	26.18	29·842		26. 5	29·785
March	8. 4	29·836	March	4.22	29·692
	16. 0	29·756		12.20	29·683
	22.17	29·798		19. 3	29·645
	29.12	29·811		26. 4	29·672
				30.21	29·718
April	1.14	29·795	April	7. 9	29·617
	11.20	29·820		15.11	29·704
	18. 6	29·868		20. 8	29·746
	23.15	29·921		24.23	29·775
	27.22	29·904	May	2. 1	29·748
May	4. 3	29·852		6. 3	29·728
	8.13	30·050		11.17	29·847
	13.19	29·899		14.13	29·862
	16.17	29·961		19. 7	29·769
	25. 8	30·039		31.13	29·872
June	3.14	29·966	June	5. 8	29·884
	11.19	29·968		13.15	29·836
	16. 8	30·065		17.17	29·978
	22. 1	30·042		22.21	29·989
	25. 1	30·087		28. 0	29·894
	30.13	30·037			

Maxima.			Minima.		
Mauritius Civil Time, 1901.		Reading.	Mauritius Civil Time, 1901.		Reading.
	d h	ins.		d h	ins.
July	7.14	30·061	July	3. 1	29·917
	12.19	30·054		10. 2	29·992
	21. 7	30·086		19. 0	29·975
	29.11	30·114		24.18	29·894
August	8.17	29·948	August	4.14	29·852
	12.23	30·099		9.15	29·882
	23. 9	30·226		20.11	29·867
	28. 1	30·131		25.22	30·063
				28.15	30·072
September	1.11	30·187	September	8. 4	29·978
	10. 1	30·068		11. 7	30·023
	14.11	30·089		21.13	29·937
	25.19	30·089		28.14	29·924
	30.16	29·979	October	1.21	29·928
October	6. 2	30·050		10.16	29·913
	11.10	29·996		13. 4	29·856
	15.13	30·031		17. 9	29·953
	18.16	29·988		21. 9	29·907
	23. 7	29·996		25. 5	29·862
	27.14	30·056		31. 6	29·951
November	2. 5	29·992	November	3. 7	29·924
	4.17	29·997		7.14	29·889
	8.20	29·936		10. 2	29·865
	12.13	29·932		14.12	29·863
	16.14	29·928		18. 9	29·889
	22. 9	29·963		29.11	29·807
	30. 5	29·872	December	4. 9	29·738
December	9. 4	29·894		11. 2	29·786
	15. 2	29·904		16. 6	29·864
	18. 3	29·930		20. 5	29·730
	23. 9	29·893		25.21	29·793
	27. 2	29·875		30. 2	29·743

MONTHLY MEAN BAROMETRIC PRESSURE, at every HOUR of the DAY, as deduced from the PHOTOGRAPHIC RECORDS.

Hour. Mauritius Civil Time.	1901. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
Midnight	29·793	29·805	29·758	29·810	29·901	29·975	30·022	30·037	30·061	29·979	29·925	29·850	29·910
1h	29·784	29·794	29·748	29·801	29·895	29·972	30·019	30·030	30·051	29·966	29·910	29·836	29·900
2	29·772	29·779	29·734	29·786	29·882	29·959	30·007	30·017	30·037	29·953	29·900	29·825	29·888
3	29·769	29·772	29·723	29·778	29·873	29·953	30·001	30·007	30·029	29·945	29·895	29·819	29·880
4	29·765	29·771	29·717	29·771	29·869	29·947	29·995	30·000	30·023	29·944	29·897	29·818	29·876
5	29·774	29·777	29·721	29·776	29·871	29·947	29·995	30·002	30·028	29·952	29·902	29·824	29·881
6	29·787	29·788	29·732	29·785	29·881	29·955	30·002	30·010	30·039	29·965	29·916	29·837	29·891
7	29·800	29·803	29·748	29·798	29·897	29·970	30·016	30·026	30·053	29·980	29·926	29·851	29·906
8	29·805	29·811	29·761	29·811	29·908	29·983	30·031	30·039	30·063	29·988	29·933	29·857	29·916
9	29·810	29·819	29·774	29·825	29·919	29·997	30·047	30·053	30·071	29·993	29·936	29·859	29·925
10	29·806	29·812	29·771	29·823	29·918	29·994	30·045	30·053	30·067	29·988	29·929	29·855	29·922
11	29·801	29·804	29·763	29·812	29·906	29·983	30·035	30·041	30·054	29·975	29·917	29·848	29·912
Noon	29·786	29·791	29·746	29·789	29·885	29·964	30·013	30·019	30·031	29·958	29·902	29·836	29·893
13h	29·776	29·780	29·729	29·774	29·864	29·942	29·991	30·000	30·009	29·939	29·887	29·825	29·876
14	29·758	29·765	29·715	29·760	29·853	29·931	29·979	29·984	29·997	29·925	29·871	29·812	29·863
15	29·747	29·761	29·708	29·758	29·847	29·928	29·973	29·978	29·985	29·916	29·864	29·799	29·855
16	29·740	29·757	29·708	29·761	29·853	29·932	29·977	29·982	29·969	29·920	29·861	29·795	29·855
17	29·745	29·764	29·716	29·770	29·862	29·941	29·987	29·994	29·998	29·928	29·871	29·802	29·865
18	29·758	29·775	29·726	29·781	29·872	29·950	29·993	30·003	30·011	29·946	29·889	29·818	29·877
19	29·777	29·793	29·744	29·796	29·887	29·968	30·007	30·018	30·030	29·964	29·907	29·834	29·894
20	29·788	29·806	29·757	29·816	29·900	29·979	30·019	30·034	30·047	29·981	29·922	29·846	29·908
21	29·802	29·818	29·770	29·823	29·909	29·986	30·026	30·045	30·062	29·991	29·931	29·857	29·918
22	29·809	29·820	29·770	29·823	29·912	29·989	30·029	30·047	30·064	29·994	29·938	29·863	29·922
23	29·809	29·819	29·768	29·821	29·910	29·987	30·027	30·048	30·062	29·991	29·933	29·859	29·920
24	29·794	29·804	29·757	29·812	29·903	29·979	30·021	30·042	30·053	29·979	29·921	29·849	29·910
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	..

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

Hour. Mauritius Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	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.

Hour. Mauritius Civil Time.	1901. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	75·5	74·3	74·8	71·8	70·7	66·1	65·9	64·4	64·8	67·7	69·4	73·3	69·9
1h	75·3	73·9	74·6	71·8	70·6	65·8	65·5	64·1	64·3	67·3	69·0	72·9	69·6
2	75·0	73·6	74·4	71·7	70·2	65·6	65·0	63·9	63·8	67·2	68·5	72·6	69·3
3	74·7	73·2	74·3	71·5	70·3	65·4	64·5	63·7	63·4	67·2	68·1	72·4	69·1
4	74·4	72·9	74·1	71·4	70·2	65·0	64·4	63·4	63·0	67·0	68·1	72·1	68·8
5	74·2	72·6	73·9	71·0	70·1	65·1	64·1	63·4	62·6	66·7	68·4	72·0	68·7
6	74·3	72·4	73·6	70·8	70·0	64·9	64·3	63·2	62·4	67·2	69·6	72·8	68·8
7	77·8	76·3	76·0	71·9	70·6	65·2	64·7	64·0	65·8	71·5	74·2	76·1	71·2
8	80·2	80·4	79·7	75·9	74·1	67·9	67·7	67·1	70·1	74·4	76·4	78·2	74·3
9	81·7	82·3	81·3	78·5	76·5	71·1	70·7	70·0	72·3	76·1	78·3	79·9	76·6
10	82·9	83·3	82·5	80·0	77·6	72·8	72·1	71·4	74·2	77·7	79·3	81·3	77·9
11	83·7	84·0	83·4	80·5	78·5	73·6	73·3	72·4	74·4	78·5	80·2	81·5	78·7
Noon	84·3	84·2	83·3	80·6	78·9	73·8	73·9	73·1	75·7	79·0	80·7	82·0	79·1
13h	84·7	83·7	83·2	80·5	78·9	73·8	74·0	73·2	75·3	79·3	80·6	81·8	79·1
14	84·5	83·3	82·8	80·4	78·5	73·8	74·0	72·8	75·0	78·7	80·5	81·5	78·8
15	84·2	82·5	82·5	79·8	77·6	73·2	73·3	72·5	74·4	78·3	79·8	81·4	78·3
16	83·5	81·4	81·8	78·7	76·6	71·9	72·1	71·3	72·9	76·9	78·7	80·5	77·2
17	82·1	81·0	81·0	77·3	74·9	70·3	70·4	69·8	71·1	75·0	77·5	79·6	75·8
18	80·3	79·9	79·1	75·2	73·1	68·5	68·0	67·2	68·9	72·6	75·8	78·0	73·9
19	78·8	78·0	77·3	74·1	72·4	67·7	66·9	66·4	67·6	71·1	73·8	76·2	72·5
20	77·3	76·6	76·5	73·2	71·9	67·3	66·3	65·7	66·6	70·1	72·5	75·1	71·6
21	76·9	75·8	76·1	72·6	71·7	66·7	66·2	65·3	66·3	69·3	71·5	74·5	71·1
22	76·6	75·3	75·8	72·3	71·1	66·4	65·9	64·9	65·8	68·8	70·8	74·1	70·6
23	75·8	74·6	75·4	72·0	70·9	66·2	65·8	64·8	65·3	68·4	70·1	74·0	70·3
24	75·5	74·2	74·8	71·7	70·6	66·1	65·7	64·5	64·7	67·9	69·7	73·4	69·9
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	28	31	..

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

Hour. Mauritius Civil Time.	1901. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	72·9	71·8	73·0	69·7	67·8	62·6	63·3	61·4	61·7	65·1	66·6	71·0	67·2
1h	72·8	71·7	72·8	69·7	67·4	62·5	62·8	61·2	61·4	64·8	66·4	70·7	67·0
2	72·7	71·4	72·6	69·6	67·3	62·5	62·5	61·1	61·1	64·9	66·0	70·6	66·9
3	72·4	71·3	72·5	69·3	67·2	62·4	62·2	61·0	60·8	64·8	65·8	70·4	66·7
4	72·2	71·1	72·4	69·2	66·9	62·2	62·0	60·7	60·3	64·6	65·9	70·2	66·6
5	72·0	70·8	72·2	69·0	67·0	62·1	61·8	60·7	60·1	64·5	66·3	70·2	66·4
6	72·2	70·6	72·1	68·8	67·0	62·0	62·1	60·5	60·0	64·9	67·2	70·7	66·5
7	74·1	73·2	73·9	69·7	67·4	62·4	62·4	61·1	62·2	67·1	69·2	72·6	67·9
8	74·6	74·8	75·9	72·2	69·7	64·5	64·5	63·1	64·1	67·9	69·4	73·3	69·5
9	74·6	75·2	76·5	73·1	70·8	65·7	65·7	63·7	64·4	68·3	69·6	73·9	70·1
10	74·6	75·6	76·8	73·7	70·7	65·8	65·9	64·0	64·7	68·4	69·8	74·1	70·3
11	74·9	76·0	77·2	73·7	70·8	66·2	66·2	64·2	64·9	68·5	70·3	74·3	70·6
Noon	75·0	76·3	77·1	73·8	71·2	66·3	66·3	64·5	65·4	68·6	70·1	74·2	70·7
13h	75·1	76·2	77·1	73·7	71·3	66·2	66·3	64·6	65·1	68·7	70·0	73·8	70·7
14	74·9	75·9	76·8	73·7	71·2	66·4	66·2	64·3	65·2	68·6	69·8	74·1	70·6
15	74·7	75·6	76·7	73·5	70·8	66·0	66·1	64·1	64·8	68·4	69·8	73·7	70·3
16	74·4	75·0	76·2	73·0	70·5	65·6	65·5	63·9	64·4	67·9	69·4	73·3	69·9
17	74·3	74·9	75·8	72·3	69·9	64·9	65·1	63·3	64·1	67·5	68·9	73·1	69·5
18	73·8	74·2	75·1	71·5	69·1	64·2	64·3	62·6	63·5	67·0	68·7	72·7	68·9
19	73·6	73·7	74·3	70·9	68·6	63·9	63·7	62·4	63·2	66·6	68·4	72·2	68·5
20	73·7	73·3	73·9	70·5	68·4	63·6	63·4	62·2	62·8	66·3	68·1	71·9	68·2
21	73·4	72·8	73·7	70·1	68·1	63·1	63·3	61·9	62·6	66·0	67·7	71·6	67·9
22	73·3	72·4	73·5	70·0	67·9	62·9	63·3	61·8	62·2	65·7	67·3	71·6	67·7
23	73·1	72·0	73·3	69·8	67·6	62·7	63·2	61·7	62·0	65·5	67·0	71·5	67·4
24	72·9	71·8	73·0	69·6	67·7	62·7	63·0	61·5	61·6	65·3	66·9	71·2	67·3
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	28	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.

Hour. Mauritius Civil Time.	1901. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	71·0	70·0	71·7	68·1	65·6	59·8	61·2	58·9	59·2	63·0	64·4	69·3	65·2
1h	71·0	70·1	71·5	68·1	65·0	59·8	60·6	58·7	59·0	62·8	64·4	69·1	65·0
2	71·0	69·8	71·3	68·0	65·1	60·0	60·5	58·8	58·9	63·1	64·0	69·1	65·0
3	70·7	69·9	71·2	67·6	64·8	59·9	60·3	58·8	58·6	62·9	64·0	68·9	64·8
4	70·6	69·9	71·2	67·5	64·4	59·9	60·0	58·4	58·0	62·7	64·2	68·8	64·6
5	70·4	69·5	71·0	67·5	64·6	59·6	59·9	58·4	58·0	62·7	64·6	68·9	64·6
6	70·7	69·2	71·0	67·3	64·7	59·6	60·3	58·2	57·9	63·1	65·4	69·1	64·7
7	71·5	71·0	72·4	68·1	65·0	60·1	60·5	58·7	59·3	63·8	65·6	70·1	65·5
8	70·8	71·0	73·3	69·6	66·5	61·8	62·0	59·9	59·5	63·2	64·4	69·9	66·0
9	69·8	70·4	73·2	69·4	66·8	61·6	61·9	58·8	58·5	62·8	63·6	69·8	65·6
10	69·0	70·4	73·0	69·4	65·9	60·6	61·3	58·4	57·8	62·0	63·2	69·2	65·0
11	69·3	70·8	73·0	69·1	65·5	60·7	60·9	58·1	58·0	61·6	63·6	69·4	65·0
Noon	68·9	71·1	72·9	69·2	65·9	60·8	60·8	58·1	58·0	61·4	62·9	69·0	64·9
13h	68·9	71·2	73·0	69·1	66·1	60·7	60·7	58·2	57·8	61·4	62·8	68·4	64·9
14	68·6	70·9	72·8	69·1	66·2	61·0	60·5	58·0	58·1	61·6	62·5	69·1	64·9
15	68·4	71·0	72·8	69·2	66·1	60·7	60·8	57·8	57·8	61·6	63·0	68·5	64·8
16	68·4	70·6	72·4	69·1	66·2	60·9	60·6	58·3	58·1	61·6	63·0	68·4	64·8
17	69·1	70·8	72·3	68·8	66·3	60·7	61·0	58·3	58·8	62·1	62·9	68·7	65·0
18	69·4	70·3	72·3	68·8	66·1	60·8	61·4	58·7	59·3	62·9	63·7	69·0	65·2
19	70·0	70·7	72·2	68·6	65·8	60·9	61·1	59·2	59·7	63·2	64·5	69·4	65·4
20	71·2	70·9	72·1	68·5	65·8	60·6	61·1	59·4	59·8	63·4	64·8	69·6	65·6
21	70·9	70·7	72·0	68·3	65·4	60·2	61·0	59·1	59·6	63·4	64·8	69·5	65·4
22	71·0	70·3	71·9	68·3	65·5	60·1	61·2	59·3	59·3	63·3	64·6	69·8	65·4
23	71·2	70·1	71·8	68·2	65·1	59·9	61·0	59·2	59·3	63·2	64·6	69·7	65·3
24	71·0	70·0	71·6	68·0	65·5	59·9	60·8	59·0	59·1	63·2	64·8	69·6	65·2
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	28	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.

Hour. Mauritius Civil Time.	1901. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
Midnight	86·2	86·8	89·6	88·2	83·7	80·5	84·6	82·7	81·8	85·2	84·2	87·6	85·1
1h	86·7	87·8	90·0	88·2	82·4	81·1	84·5	82·8	82·8	85·7	85·1	88·0	85·4
2	87·7	88·1	90·0	88·1	83·4	82·2	85·4	83·0	84·0	86·4	86·1	88·7	86·1
3	87·2	89·4	90·2	87·8	82·8	82·4	86·3	83·7	84·2	86·4	86·5	88·7	86·3
4	87·7	89·8	90·7	87·5	82·2	83·4	85·8	83·6	84·0	86·1	87·5	89·2	86·5
5	87·8	89·6	90·5	88·4	82·9	82·6	86·4	84·0	84·9	87·0	87·8	89·4	86·8
6	88·3	89·9	90·8	88·5	83·4	82·7	86·7	83·8	85·1	86·6	89·4	88·6	87·0
7	81·1	84·0	88·8	88·0	82·4	83·4	86·2	83·1	79·9	77·0	76·4	81·9	82·7
8	72·7	72·7	80·9	80·7	77·3	80·8	82·0	78·0	69·0	68·5	66·5	75·7	75·4
9	67·0	67·3	76·6	73·7	72·0	72·0	73·6	67·6	61·9	63·2	60·3	71·4	68·9
10	63·0	65·3	73·1	69·9	66·8	66·5	68·6	63·4	56·4	58·0	58·2	66·7	64·7
11	61·4	64·6	71·0	68·4	64·1	64·4	65·4	60·7	56·4	55·9	57·0	66·8	63·0
Noon	60·0	64·7	71·1	68·2	64·1	63·8	63·6	59·6	54·1	55·2	54·5	64·7	62·0
13h	59·0	66·2	71·5	68·3	64·8	63·4	62·8	59·1	54·4	54·3	54·5	63·7	61·8
14	59·1	66·7	71·7	68·4	65·6	64·0	62·8	59·9	55·4	55·7	54·6	66·0	62·5
15	59·3	68·4	72·5	69·8	67·4	64·8	64·9	59·8	56·1	56·3	56·3	65·0	63·4
16	60·8	70·2	73·3	72·4	70·5	68·1	66·9	63·1	59·8	59·0	58·3	66·6	65·8
17	64·7	70·8	74·7	75·1	74·4	71·6	72·3	67·0	65·0	64·4	60·7	69·1	69·2
18	69·3	72·4	79·9	80·9	78·9	76·6	79·1	73·6	71·4	71·1	66·1	74·0	74·4
19	74·5	78·6	84·2	82·8	80·0	78·4	81·5	77·7	76·0	76·1	72·8	79·9	78·5
20	81·1	82·4	86·0	85·1	81·1	79·3	83·2	80·0	78·3	79·3	78·4	83·1	81·4
21	82·2	83·6	86·9	86·6	81·0	79·8	83·4	80·5	79·3	81·8	79·4	84·6	82·4
22	82·9	84·4	88·0	87·3	82·5	80·0	84·5	82·0	79·6	82·9	81·0	85·9	83·4
23	85·6	85·9	88·4	88·0	82·0	80·2	84·4	81·9	81·1	83·5	82·9	86·3	84·2
24	86·3	86·9	89·7	88·0	83·9	80·4	84·5	82·8	81·9	85·0	84·2	87·8	85·1
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	28	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.

Hour. Mauritius Civil Time.	1901.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight	0·759	0·733	0·777	0·687	0·630	0·514	0·541	0·498	0·503	0·576	0·605	0·716	0·628
1h	0·759	0·736	0·772	0·687	0·617	0·514	0·529	0·494	0·500	0·572	0·605	0·711	0·625
2	0·759	0·728	0·766	0·684	0·620	0·518	0·528	0·496	0·498	0·578	0·596	0·711	0·623
3	0·751	0·731	0·764	0·675	0·613	0·516	0·524	0·496	0·492	0·574	0·596	0·706	0·620
4	0·749	0·731	0·764	0·673	0·605	0·516	0·518	0·489	0·482	0·570	0·601	0·704	0·617
5	0·744	0·721	0·759	0·673	0·609	0·511	0·516	0·489	0·482	0·570	0·609	0·706	0·616
6	0·751	0·713	0·759	0·668	0·611	0·511	0·524	0·485	0·480	0·578	0·626	0·711	0·618
7	0·772	0·759	0·796	0·687	0·617	0·520	0·528	0·494	0·505	0·592	0·630	0·736	0·636
8	0·754	0·759	0·820	0·723	0·650	0·552	0·556	0·516	0·509	0·580	0·605	0·731	0·646
9	0·728	0·744	0·818	0·718	0·657	0·548	0·554	0·496	0·491	0·572	0·588	0·728	0·637
10	0·708	0·744	0·812	0·718	0·637	0·529	0·543	0·489	0·479	0·556	0·580	0·713	0·626
11	0·716	0·754	0·812	0·711	0·628	0·531	0·535	0·483	0·482	0·548	0·588	0·718	0·626
Noon	0·706	0·761	0·810	0·713	0·637	0·533	0·533	0·483	0·482	0·545	0·574	0·708	0·624
13h	0·706	0·764	0·812	0·711	0·641	0·531	0·531	0·485	0·479	0·545	0·572	0·694	0·623
14	0·699	0·756	0·807	0·711	0·644	0·537	0·528	0·482	0·483	0·548	0·566	0·711	0·623
15	0·694	0·759	0·807	0·713	0·641	0·531	0·533	0·479	0·479	0·548	0·576	0·697	0·621
16	0·694	0·749	0·796	0·711	0·644	0·535	0·529	0·487	0·483	0·548	0·576	0·694	0·621
17	0·711	0·754	0·793	0·704	0·646	0·531	0·537	0·487	0·496	0·558	0·574	0·701	0·624
18	0·718	0·741	0·793	0·704	0·641	0·533	0·545	0·494	0·505	0·574	0·590	0·708	0·629
19	0·733	0·751	0·790	0·699	0·635	0·535	0·539	0·503	0·512	0·580	0·607	0·718	0·634
20	0·764	0·756	0·788	0·697	0·635	0·529	0·539	0·507	0·514	0·584	0·613	0·723	0·637
21	0·756	0·751	0·785	0·692	0·626	0·522	0·537	0·501	0·511	0·584	0·613	0·721	0·633
22	0·759	0·741	0·782	0·692	0·628	0·520	0·541	0·505	0·505	0·582	0·609	0·728	0·633
23	0·764	0·736	0·779	0·689	0·620	0·516	0·537	0·503	0·505	0·580	0·609	0·726	0·630
24	0·759	0·733	0·774	0·684	0·628	0·516	0·533	0·500	0·501	0·580	0·613	0·723	0·629
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	28	31	..

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, in the YEAR 1901.

Month. 1901.	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.	Noon.	13h.	14h.	15h.	16h.	17h.	18h.	19h.		
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January -	1·1	16·6	21·0	21·9	20·9	20·8	21·4	21·4	20·9	20·1	17·7	17·0	11·8	1·4	234·0	407·4
February -	0·4	16·0	22·6	22·9	22·1	22·3	19·6	18·2	16·9	14·3	11·7	11·6	7·0	0·2	205·8	356·1
March -	..	9·7	19·7	20·4	20·8	21·9	20·5	18·2	18·2	16·8	16·9	15·1	8·4	..	206·6	377·3
April -	..	5·7	20·2	23·5	25·4	25·2	24·5	24·3	23·3	22·0	20·7	18·1	6·0	..	238·9	348·0
May - -	..	3·4	22·7	26·3	28·3	28·0	28·0	26·7	27·4	24·9	22·7	18·4	4·8	..	261·6	345·2
June -	..	1·0	15·5	21·9	22·8	22·5	21·4	20·7	21·7	23·1	19·9	15·7	3·5	..	209·7	328·5
July - -	..	1·0	15·6	22·1	22·9	24·1	26·1	24·4	24·0	24·1	22·1	19·9	4·7	..	231·0	341·0
August -	..	3·3	15·4	20·9	22·5	21·2	21·9	23·5	22·4	22·6	23·1	22·7	6·2	..	225·7	353·2
September -	..	10·1	23·3	23·5	25·0	25·5	25·6	23·8	23·2	23·4	22·0	17·7	6·8	..	249·9	358·1
October -	..	12·2	24·2	24·3	25·1	26·1	26·2	25·1	25·0	24·1	25·1	23·2	13·8	..	274·4	387·6
November -	0·1	14·7	21·3	21·6	23·5	22·6	21·6	22·0	19·5	18·7	17·8	15·0	11·7	0·5	230·6	390·3
December -	0·5	14·5	21·2	21·8	24·6	22·6	23·4	21·4	19·6	21·0	21·7	18·8	15·5	1·5	248·1	411·5

The hours are reckoned from apparent midnight.

The total registered duration of sunshine during the year was 2816·3 hours; the corresponding period during which the sun was above the horizon was 4404·2 hours.

TOTAL AMOUNT of RAIN collected in each HOUR of the DAY in each MONTH, as derived from the RECORDS of the BECKLEY PLUVIOGRAPH.

For the Hour ending.	1901.												
	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	0·630	0·015	0·415	0·130	0·000	0·080	0·170	0·105	0·190	0·040	0·025	0·350	0·179
2	0·990	0·030	1·085	0·120	0·005	0·070	0·235	0·145	0·120	0·025	0·225	0·250	0·275
3	1·195	0·085	0·195	0·045	0·045	0·055	0·195	0·060	0·060	0·060	0·020	0·165	0·182
4	0·950	0·200	0·095	0·030	0·020	0·005	0·285	0·100	0·065	0·160	0·215	0·160	0·190
5	1·015	0·125	0·222	0·035	0·050	0·030	0·040	0·110	0·100	0·110	0·185	0·345	0·197
6	0·685	0·000	0·350	0·000	0·050	0·080	0·095	0·075	0·020	0·020	0·125	0·250	0·146
7	0·535	0·030	0·980	0·000	0·050	0·005	0·065	0·050	0·030	0·035	0·255	0·075	0·176
8	0·600	0·030	0·115	0·005	0·005	0·105	0·050	0·230	0·030	0·005	0·135	0·565	0·156
9	0·670	0·000	0·325	0·025	0·000	0·035	0·045	0·200	0·000	0·075	0·160	0·040	0·131
10	0·770	0·070	0·345	0·000	0·000	0·000	0·075	0·195	0·000	0·055	0·315	0·340	0·180
11	0·335	0·065	0·535	0·100	0·020	0·020	0·065	0·205	0·040	0·000	0·065	0·540	0·166
12	0·110	0·000	0·480	0·000	0·375	0·150	0·085	0·045	0·015	0·015	0·865	0·610	0·229
13	0·320	0·805	1·265	0·330	0·060	0·040	0·135	0·035	0·015	0·005	1·220	0·365	0·383
14	0·810	0·435	0·475	0·230	0·000	0·055	0·000	0·040	0·000	0·015	0·610	0·325	0·250
15	0·345	0·645	0·470	0·290	0·545	0·000	0·000	0·000	0·000	0·010	0·490	0·130	0·244
16	0·325	0·340	0·500	0·035	0·015	0·085	0·000	0·010	0·000	0·000	0·105	0·010	0·119
17	0·810	0·175	0·300	0·025	0·285	0·055	0·005	0·025	0·000	0·000	0·060	0·120	0·155
18	0·255	0·030	0·650	0·365	0·115	0·015	0·020	0·075	0·005	0·000	0·000	0·095	0·135
19	0·825	0·000	0·315	0·005	0·605	0·035	0·110	0·135	0·025	0·000	0·000	0·015	0·173
20	1·210	0·040	0·025	0·150	0·120	0·220	0·085	0·075	0·005	0·005	0·000	0·180	0·176
21	1·080	0·235	0·005	0·490	0·070	0·110	0·045	0·110	0·000	0·030	0·005	0·315	0·208
22	0·955	0·015	0·025	0·050	0·055	0·070	0·100	0·090	0·040	0·030	0·005	0·520	0·163
23	1·370	0·080	0·115	0·660	0·015	0·075	0·045	0·160	0·055	0·105	0·025	0·215	0·243
24	0·755	0·000	0·050	0·150	0·130	0·035	0·110	0·260	0·155	0·055	0·020	0·270	0·166

MONTHLY DURATION of RAINFALL in MINUTES, at every HOUR of the DAY, as deduced from the RECORDS of the BECKLEY PLUVIOGRAPH.

For the Hour ending.	1901.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.
1h	120	30	95	100	..	85	82	140	145	50	70	215	1132
2	150	40	125	60	30	80	147	130	135	30	50	230	1207
3	128	40	130	50	85	110	160	160	100	140	85	150	1338
4	60	40	140	30	25	30	165	175	160	230	120	120	1295
5	165	50	210	65	60	25	65	200	145	170	185	210	1550
6	114	..	250	..	35	135	85	201	25	50	125	135	1155
7	155	30	205	..	60	20	120	55	45	125	80	70	965
8	140	55	200	5	20	100	70	220	20	30	125	105	1090
9	175	..	145	20	..	40	50	100	..	60	105	80	775
10	110	25	85	..	..	..	28	80	..	40	185	65	618
11	180	20	135	10	10	25	58	75	35	..	60	145	753
12	145	..	95	..	25	50	72	55	20	10	90	100	662
13	160	78	190	50	45	55	80	40	15	20	120	75	928
14	135	110	295	50	..	45	..	45	..	30	60	117	887
15	115	135	157	45	65	..	..	..	..	45	70	55	687
16	140	110	155	20	10	70	..	10	..	..	60	8	583
17	165	120	120	50	50	65	25	15	..	..	45	65	720
18	140	35	190	67	60	50	20	80	30	..	..	45	717
19	210	..	175	10	85	55	75	165	35	..	..	30	840
20	240	30	30	45	60	130	75	75	45	20	..	100	850
21	120	52	30	170	55	70	90	180	..	95	30	85	977
22	153	22	15	53	45	70	55	215	70	105	30	205	1038
23	120	55	40	105	10	85	75	188	65	125	45	145	1058
24	100	..	95	70	95	95	115	155	115	90	70	140	1140

COMPARISON between the READINGS of THERMOMETERS in the THERMOGRAPH SCREEN, with those exposed in a LOFTY ROOM between two OPEN WINDOWS, and in a STEVENSON SCREEN, during the YEAR 1901.

Month, 1901.	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	74°·31	−0°·59	+1°·34	84°·17	+1°·68	−1°·31	72°·18	−0°·30	+0°·51	74°·70	+0°·40	−0°·64
February	72·40	−1·05	+1·59	82·48	+0·82	−1·50	70·64	−0·38	+0·77	75·62	+0·50	−0·75
March	73·64	−0·77	+1·38	82·47	+1·05	−1·57	72·05	−0·45	+0·70	76·65	+0·60	−0·60
April	70·84	−1·43	+1·93	79·83	+0·68	−2·26	68·82	−0·85	+1·14	73·47	+0·25	−1·20
May	70·03	−1·04	+1·54	77·62	+0·33	−2·32	67·04	−0·66	+0·80	70·79	−0·22	−1·40
June	64·92	−1·59	+2·09	73·24	+0·25	−2·47	61·96	−0·83	+0·98	66·03	−0·14	−1·59
July	64·31	−1·14	+1·70	73·32	+0·47	−2·11	62·11	−0·25	+0·82	66·13	+0·41	−1·58
August	63·20	−0·96	+1·57	72·49	+0·84	−1·76	60·50	−0·23	+0·68	64·06	+0·33	−1·39
September	62·43	−1·11	+1·77	74·42	+1·04	−1·96	59·98	−0·24	+0·90	64·78	+0·19	−1·30
October	67·24	−0·82	+1·54	78·29	+1·49	−2·64	64·93	−0·38	+0·63	68·36	+0·14	−1·60
November	69·63	−0·37	+1·40	79·83	+1·53	−2·60	67·18	−0·29	+0·17	69·79	+0·12	−1·82
December	72·76	−0·59	+1·11	81·39	+1·33	−1·75	70·73	−0·36	+0·24	73·72	+0·35	−1·20
Means	68·81	−0·95	+1·58	78·30	+0·96	−2·02	66·51	−0·44	+0·69	70·34	+0·24	−1·26

Month, 1901.	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	90°·4	+2°·2	−4°·6	86°·14	+2°·50	−2°·14	70°·2	−0°·3	+1°·9	73°·08	−0°·98	+1°·12
February	88·4	+3·0	−0·9	85·90	+2·43	−1·85	63·8	−1·2	+2·8	71·76	−1·14	+1·55
March	88·2	+2·8	−2·0	84·93	+2·19	−1·76	69·8	−0·2	+2·0	72·93	−0·88	+1·26
April	85·7	+2·0	−3·7	81·62	+1·36	−2·67	61·2	−3·9	+2·9	69·45	−2·03	+1·51
May	83·9	+1·2	−4·0	79·88	+1·14	−3·17	62·7	−1·6	+2·0	68·30	−1·77	+1·63
June	80·1	+1·2	−3·8	75·27	+0·91	−3·18	58·4	−1·6	+3·1	63·28	−1·78	+1·84
July	77·7	+1·5	−4·3	75·10	+0·67	−3·05	55·9	−4·0	+2·6	62·56	−1·87	+1·76
August	77·6	+1·9	−3·1	74·59	+1·03	−2·75	56·7	−1·2	+3·7	61·89	−1·32	+1·53
September	80·3	+1·7	−4·3	77·00	+1·66	−3·21	54·9	−2·3	+2·4	61·57	−1·38	+1·95
October	85·3	+3·9	−3·6	81·01	+2·09	−3·84	58·3	−3·8	+2·0	65·32	−2·00	+1·48
November	86·8	+3·2	−3·4	82·56	+2·12	−3·48	62·7	−1·6	+2·7	66·97	−1·82	+2·02
December	86·6	+2·6	−3·0	83·77	+2·27	−1·94	66·7	−1·4	+2·0	71·10	−1·33	+1·35
Means	84·3	+2·3	−3·4	80·65	+1·70	−2·75	61·8	−1·9	+2·5	67·35	−1·53	+1·58

NUMBER of HOURS of PREVALENCE of each WIND referred to DIFFERENT POINTS of AZIMUTH, as recorded by the BECKLEY ANEMOGRAPH.

1901.

Month, 1901.	North.	N.N.E.	N.E.	E.N.E.	East.	E.S.E.	S.E.	S.S.E.	South.	S.S.W.	S.W.	W.S.W.	West.	W.N.W.	N.W.	N.N.W.	Calm.
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hs.	hrs.	hrs.	hrs.
January - -	31	72	65	220	165	139	12	2	0	2	2	0	2	3	17	12	0
February - -	11	11	23	120	105	195	91	37	8	6	7	32	10	5	6	4	0
March - -	43	27	36	75	108	230	88	6	10	30	6	12	7	33	23	9	1
April - - -	12	16	18	50	62	400	88	15	9	1	4	2	5	17	13	7	1
May - -	3	3	5	43	176	347	112	19	5	4	0	0	3	17	6	1	0
June - -	0	1	11	32	81	258	185	124	25	2	1	0	0	0	0	0	0
July - -	0	1	0	41	178	489	33	2	0	0	0	0	0	0	0	0	0
August - -	1	3	7	57	172	341	85	49	8	4	4	2	3	6	1	1	0
September - -	0	2	8	44	209	363	53	4	2	3	2	4	3	7	13	3	0
October - -	1	2	9	106	239	300	37	6	5	3	1	11	11	6	4	3	0
November - -	10	16	15	132	244	221	36	5	2	3	1	3	2	13	4	13	0
December - -	21	18	51	157	276	163	2	5	3	0	1	14	2	6	14	11	0
Total -	133	172	248	1077	2016	3446	822	274	77	58	29	80	48	113	101	64	2

MONTHLY MEAN VELOCITY of the WIND at every HOUR of the DAY, as derived from the Measures of the BECKLEY ANEMOGRAPH.

1901.

Hour. Mauritius Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h	m.p.h.	m.p.h.
Midnight	12·2	5·8	5·9	7·1	9·2	8·2	9·6	9·2	9·7	8·5	7·2	9·1	8·48
1h	11·9	5·4	6·2	7·1	8·9	7·7	9·2	8·4	9·4	8·1	6·8	8·5	8·13
2	11·9	5·7	6·2	7·5	8·9	8·6	9·3	9·0	9·3	8·2	6·6	8·9	8·34
3	11·2	5·5	6·4	7·0	9·0	7·9	8·2	7·9	8·3	8·1	6·2	8·6	7·86
4	11·0	5·3	6·4	7·5	9·2	8·0	8·2	8·4	8·4	8 6	6·5	8·7	8·02
5	11·3	5·2	6·2	7·2	9·8	8·5	8·2	9·1	8·2	8·0	6·7	9·0	8·12
6	11·7	5·5	7·2	7·3	9·4	9·2	8·9	8·9	8·7	8·5	6·5	9·4	8·43
7	12·6	5·1	6·0	7·2	9·8	8·6	8·0	8·5	9·2	9·7	9·0	11·3	8·75
8	16·0	7·6	7·3	9·1	11·8	10·2	9·4	11·1	12·9	13·8	12·5	14·1	11·32
9	15·4	8·5	8·6	11·7	14·3	12·6	12·5	14·1	14·5	13·9	12·9	13·9	12·74
10	17·6	8·9	9·3	13·8	17·1	15·4	15·5	16·6	16·5	15·4	14·4	14·4	14·58
11	17·5	9·4	10·3	14·1	16·8	15·5	16·4	16·8	16·6	15·9	14·9	14·5	14·89
Noon	18·3	10·0	10·6	15·0	17·6	16·2	17·4	17·3	17·5	16·1	14·7	15·7	15·53
13h	18·7	10·0	10·3	13·8	17·1	16·1	16·8	17·3	16·4	16·1	14·1	15·1	15·15
14	18·5	10·4	10·1	13·5	17·3	17·0	17·2	18·1	17·4	16·6	13·9	15·4	15·45
15	17·3	9·6	9·8	12·7	15·8	15·1	15·8	17·6	16·1	15·7	12·7	14·9	14·43
16	16·9	9·3	9·4	11·8	15·1	15·0	14·9	17·1	16·4	15·0	12·9	14·5	14·02
17	15·8	7 7	8·4	9·7	12 4	12·3	12·2	14·7	14·3	14·2	12·0	13·7	12·28
18	14·7	6·7	7·0	7·3	10·3	10·7	9·7	11·8	11·2	12·1	10·1	12·8	10·37
19	12·6	6·3	6·1	6·9	9·8	10·1	8·4	9·9	9·7	9·4	7·9	9·8	8·91
20	12·2	6·4	6·2	7 5	9·6	10·2	9·3	9·9	9·8	8·8	6·7	9·3	8·82
21	11·7	6·3	6·4	7·4	9·6	9·7	9 2	9·2	10·4	8·4	6·8	8·7	8·65
22	12·4	5·8	6·2	7·3	9·0	9·0	8·5	9·2	9·5	9·3	6·7	9·2	8·51
23	12·1	6·0	6·2	6·9	8·8	8 9	8·6	9·2	9·4	9·4	7·3	9·2	8·50
24	12·2	5·8	5·9	7·2	9·1	8·7	9·1	9·4	9·5	8·4	7·3	9·1	8·47
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN NORTH and EAST COMPONENTS of the WIND, at every HOUR of the DAY, as derived from the HOURLY MEASURES of the ANEMOGRAMS.

Hour. Mauritius Civil Time.	1901.											
	January.		February.		March.		April.		May.		June.	
	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.
Midnight	+2·7	+ 9·6	−3·0	+4·6	−2·1	+4·4	−3·4	+ 5·4	−3·9	+ 7·5	−5·8	+ 4·8
1h	+3·0	+ 9·2	−2·4	+4·3	−1·5	+4·5	−3·6	+ 5·2	−4·4	+ 6·8	−5·4	+ 4·1
2	+2·9	+ 8·8	−2·9	+4·6	−1·9	+4·5	−3·6	+ 5·6	−4·5	+ 6·7	−5·8	+ 5·2
3	+2·4	+ 8·1	−2·6	+4·4	−2·2	+4·7	−3·4	+ 5·2	−4·5	+ 6·8	−5·2	+ 4·6
4	+2·2	+ 8·4	−2·6	+4·2	−2·4	+4·6	−3·5	+ 5·7	−4·5	+ 7·0	−5·6	+ 4·7
5	+2·6	+ 8·5	−2·6	+4·1	−2·5	+4·6	−3·6	+ 5·4	−4·8	+ 7·6	−5·7	+ 5·3
6	+2·3	+ 8·8	−2·8	+4·3	−2·1	+5·3	−3·8	+ 5·4	−4·6	+ 7·3	−5·9	+ 6·0
7	+2·0	+ 9·6	−2·1	+4·2	−1·8	+4·8	−3·5	+ 5·5	−4·9	+ 7·8	−5·7	+ 5·4
8	+4·3	+12·8	−3·0	+6·1	−1·7	+5·8	−3·5	+ 7·2	−5·3	+ 9·7	−6·6	+ 6·4
9	+4·2	+12·3	−1·2	+6·9	−0·3	+6·6	−4·0	+ 8·9	−5·8	+12·3	−6·9	+ 9·0
10	+5·9	+14·1	+0·3	+6·8	+0·2	+6·3	−3·9	+10·5	−5·7	+15·0	−8·2	+11·0
11	+5·7	+13·9	+0·7	+4·6	+1·4	+6·9	−2·9	+10·7	−5·1	+14·6	−7·4	+11·1
Noon	+6·1	+14·4	+1·1	+2·9	+1·8	+5·6	−3·4	+11·2	−4·9	+15·0	−8·2	+11·8
13h	+7·2	+14·1	+1·5	+3·1	+2·8	+4·8	−3·1	+10·1	−5·1	+14·1	−7·8	+11·7
14	+6·4	+13·2	+1·4	+3·4	+2·2	+5·0	−2·6	+ 9·9	−5·7	+13·9	−8·7	+12·2
15	+5·9	+12·7	+0·4	+3·7	+1·2	+4·2	−1·9	+ 9·4	−5·2	+13·0	−7·2	+10·8
16	+4·8	+12·5	0·0	+5·0	+0·4	+4·6	−2·5	+ 8·5	−5·5	+12·7	−7·7	+10·9
17	+4·2	+12·4	+0·1	+5·8	−0·2	+4·2	−3·6	+ 7·1	−5·3	+10·4	−7·2	+ 8·8
18	+2·9	+11·8	−0·6	+5·2	−1·3	+4·3	−3·0	+ 5·5	−4·7	+ 8·0	−6·7	+ 7·3
19	+2·4	+10·0	−1·8	+5·2	−1·5	+4·0	−3·2	+ 5·1	−4·8	+ 8·0	−6·3	+ 6·8
20	+2·4	+ 9·8	−2·5	+5·1	−2·2	+3·9	−3·3	+ 5·1	−4·5	+ 7·7	−6·5	+ 6·9
21	+2·4	+ 9·3	−2·9	+4·9	−2·8	+4·3	−3·3	+ 5·7	−4·7	+ 7·4	−6·0	+ 6·5
22	+2·8	+ 9·3	−2·6	+4·8	−2·8	+4·1	−3·1	+ 5·5	−4·1	+ 7·2	−5·3	+ 6·3
23	+3·2	+ 9·1	−2·9	+4·8	−2·0	+4·3	−2·9	+ 5·1	−4·1	+ 6·9	−5·3	+ 6·0
24	+2·6	+ 9·6	−2·9	+4·7	−2·3	+4·3	−3·4	+ 5·5	−4·0	+ 7·3	−6·1	+ 5·3
Number of Days employed.	31		28		31		30		31		30	

Hour. Mauritius Civil Time.	July.		August.		September.		October.		November.		December.		For the Year.	
	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.
Midnight	−4·5	+ 8·3	−4·3	+ 7·2	−4·1	+ 8·2	−3·0	+ 7·2	−2·4	+ 6·3	−0·5	+ 7·9	−2·9	+ 6·8
1h	−4·4	+ 7·9	−3·7	+ 7·0	−3·6	+ 8·0	−3·0	+ 6·8	−2·2	+ 6·0	−0·4	+ 7·2	−2·6	+ 6·4
2	−4·7	+ 7·8	−4·3	+ 7·3	−3·9	+ 7·5	−3·6	+ 6·9	−2·4	+ 5·6	−0·9	+ 7·5	−3·0	+ 6·5
3	−3·9	+ 7·1	−3·8	+ 6·1	−3·8	+ 6·6	−3·8	+ 6·7	−2·3	+ 5·3	−1·0	+ 7·1	−2·8	+ 6·1
4	−4·1	+ 6·9	−4·0	+ 6·8	−4·2	+ 7·1	−3·4	+ 7·5	−2·5	+ 5·7	−1·2	+ 7·3	−3·0	+ 6·3
5	−4·1	+ 6·9	−4·4	+ 7·4	−4·3	+ 6·7	−3·6	+ 6·9	−2·8	+ 5·7	−1·3	+ 7·5	−3·1	+ 6·4
6	−4·4	+ 7·5	−4·3	+ 7·2	−4·5	+ 7·1	−3·7	+ 7·3	−2·8	+ 5·5	−1·4	+ 7·7	−3·2	+ 6·6
7	−3·8	+ 6·8	−4·0	+ 6·8	−4·5	+ 7·6	−4·0	+ 8·5	−3·0	+ 8·1	−1·0	+ 9·8	−3·0	+ 7·1
8	−4·0	+ 8·0	−3·6	+ 9·6	−5·2	+11·1	−2·8	+12·8	−1·4	+11·8	+0·3	+12·2	−2·7	+ 9·5
9	−4·5	+11·4	−4·5	+12·0	−5·4	+13·4	−1·9	+12·9	0·0	+11·9	+1·5	+11·9	−2·4	+10·8
10	−5·0	+14·1	−4·8	+14·1	−5·0	+14·8	−2·2	+13·8	+1·0	+13·1	+1·9	+11·9	−2·1	+12·1
11	−4·3	+15·3	−4·9	+13·9	−4·7	+14·6	−2·0	+13·5	+2·4	+13·2	+2·5	+11·8	−1·6	+12·0
Noon	−4·4	+16 2	−4·8	+14·0	−3·7	+14·7	−1·7	+13·5	+1·5	+13·2	+2·9	+12·2	−1·5	+12·1
13h	−4·4	+15·6	−5·0	+14·2	−3·1	+12·6	−1·9	+13·2	+1·2	+11·4	+1·5	+11·8	−1·3	+11 4
14	−4·3	+16·0	−5·3	+15·7	−4·3	+13·7	−2·1	+13·4	+1·4	+11·4	+1·3	+12·1	−1·7	+11·7
15	−4·9	+14·5	−5·6	+14·9	−4·1	+13·7	−3·0	+12·8	+0·3	+10·3	+1·0	+12·4	−1·9	+11·0
16	−5·2	+13·5	−5·4	+14·9	−4·0	+14·2	−2·8	+12·2	−0·4	+10·8	+0·7	+12·0	−2·3	+11·0
17	−4·6	+11·0	−5·3	+12·8	−4·3	+12·1	−3·5	+12·1	−1·0	+10.4	+0·5	+11·4	−2·5	+ 9·9
18	−4·2	+ 8·5	−4·7	+10·2	−3·6	+ 9·8	−3·0	+10·7	−1·4	+ 8·8	−0·6	+10·9	−2·6	+ 8·4
19	−3·4	+ 7·5	−4·1	+ 8·3	−3·6	+ 8·7	−2·8	+ 8·2	−1·6	+ 6·6	−1·0	+ 8·4	−2·6	+ 7·2
20	−3·9	+ 8·2	−4·2	+ 8·1	−3·7	+ 8·5	−2·8	+ 7·4	−1·5	+ 5·5	−1·4	+ 8·0	−2·8	+ 7·0
21	−4·2	+ 8·0	−4·1	+ 7·6	−3·7	+ 9·0	−2·9	+ 7·1	−2·0	+ 5·4	−1·0	+ 7·3	−2·9	+ 6·9
22	−3·4	+ 7·7	−3·8	+ 7·6	−3·5	+ 8·3	−3·5	+ 7·8	−2·0	+ 5·5	−0·7	+ 8·0	−2·7	+ 6·9
23	−3·6	+ 7·6	−3·8	+ 7·3	−3·6	+ 8·0	−3·1	+ 8·0	−2·3	+ 6·4	−0·8	+ 8·1	−2·6	+ 6·8
24	−4·2	+ 7·9	−4·4	+ 7·4	−3·9	+ 8·0	−3·0	+ 7·2	−2·5	+ 6·3	−0·4	+ 7·9	−2·9	+ 6·8
Number of Days employed.	31		31		30		31		30		31		..	

MONTHLY MEAN DIRECTION of the WIND, at every HOUR of the DAY, as derived from the NORTH and EAST COMPONENTS.

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

Hour. Mauritius Civil Time.	1901. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight.	106	57	64	58	62	40	62	59	63	67	69	86	66·9
1h	108	61	72	55	57	37	61	62	66	66	70	87	67·9
2	108	58	67	57	56	42	59	64	62	62	67	83	65·2
3	107	59	65	57	57	41	61	58	60	60	67	82	65·3
4	105	58	62	58	57	40	59	59	59	66	66	81	64·5
5	107	58	61	56	58	43	59	59	57	62	64	80	64·1
6	105	57	68	55	58	45	60	59	58	63	63	80	64·1
7	102	63	69	58	58	43	61	59	59	65	70	84	67·1
8	109	64	74	64	61	44	63	69	65	78	83	91	74·1
9	109	80	87	66	65	52	68	69	68	82	90	97	77·5
10	113	93	92	70	69	53	70	71	71	81	94	99	80·1
11	112	99	101	75	71	56	74	71	72	82	100	102	82·4
Noon.	113	111	108	73	72	55	75	71	76	83	97	103	83·0
13h	117	116	120	73	70	56	74	71	76	82	96	97	83·5
14	116	112	114	75	68	54	75	71	73	81	97	96	82·7
15	115	96	106	79	68	56	71	69	73	77	92	95	80·2
16	111	90	95	74	67	55	69	70	74	77	88	93	78·2
17	109	91	87	63	63	51	67	67	70	74	84	92	75·8
18	104	83	73	61	60	47	64	65	70	74	81	87	72·8
19	103	71	69	58	59	47	66	64	68	71	76	83	70·1
20	104	64	61	57	60	47	65	63	66	69	75	80	68·2
21	104	59	57	60	58	47	62	62	68	68	70	82	67·4
22	107	62	56	61	60	50	66	63	67	66	70	85	68·7
23	109	59	65	60	59	59	65	63	66	69	70	84	69·1
24	105	58	62	58	61	41	62	59	64	67	68	87	66·9
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	..

MONTHLY MEAN VELOCITY of the WIND, at every HOUR of the DAY, as derived from the NORTH and EAST COMPONENTS.

Hour. Mauritius Civil Time.	1901. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.	m.p.h.
Midnight.	10·0	5·5	4·9	6·4	8·5	7·5	9·4	8·4	9·1	7·8	6·7	7·9	7·4
1h	9·7	4·9	4·8	6·3	8·1	6·8	9·0	7·9	8·8	7·4	6·4	7·2	6·9
2	9·3	5·5	4·9	6·7	8·1	7·8	9·1	8·5	8·5	7·8	6·1	7·6	7·2
3	8·5	5·1	5·2	6·2	8·2	7·0	8·1	7·2	7·6	7·7	5·8	7·2	6·7
4	8·7	4·9	5·2	6·7	8·3	7·4	8·0	7·9	8·3	8·2	6·3	7·4	7·0
5	8·9	4·9	5·3	6·5	9·0	7·8	8·0	8·7	8·0	7·8	6·4	7·6	7·1
6	9·1	5·1	5·7	6·6	8·6	8·4	8·7	8·4	8·4	8·2	6·2	7·8	7·3
7	9·8	4·7	5·2	6·6	9·2	7·9	7·8	7·9	8·8	9·4	8·6	9·8	7·7
8	13·5	6·8	6·0	8·0	11·1	9·2	8·9	10·3	12·2	13·1	11·9	12·2	9·9
9	13·0	7·0	6·6	9·7	13·6	11·3	12·2	12·8	14·4	13·0	11·9	12·0	11·1
10	15·3	6·8	6·3	11·2	16·0	13·7	15·0	14·9	15·6	14·0	13·1	12·1	12·3
11	15·0	4·7	7·0	11·1	15·5	13·3	15·9	14·8	15·3	13·6	13·4	12·1	12·1
Noon.	15·6	3·1	5·9	11·7	15·7	14·4	16·8	14·8	15·2	13·6	13·3	12·5	12·2
13h	15·8	3·5	5·5	10·6	15·0	14·0	16·2	15·1	13·0	13·3	11·5	11·9	11·5
14	14·7	3·7	5·4	10·2	15·0	14·9	16·5	16·6	14·3	13·5	11·5	12·2	11·8
15	14·1	3·7	4·4	9·6	14·0	13·0	15·3	15·9	14·3	13·2	10·3	12·4	11·2
16	13·4	5·0	4·6	8·9	13·8	13·3	14·5	15·8	14·8	12·5	10·8	12·0	11·2
17	13·1	5·8	4·2	8·0	11·6	11·4	11·9	13·8	12·8	12·6	10·4	11·4	10·2
18	12·1	5·2	4·5	6·3	9·2	9·9	9·5	11·2	10·4	11·1	8·9	10·9	8·8
19	10·3	5·5	4·3	6·0	9·3	9·2	8·2	9·2	9·4	8·7	6·8	8·4	7·7
20	10·1	5·7	4·5	6·1	8·9	9·5	9·0	9·1	9·3	7·9	5·7	8·1	7·5
21	9·6	5·7	5·1	6·6	8·7	8·9	9·0	8·6	9·7	7·7	5·8	7·4	7·5
22	9·7	5·4	5·0	6·3	8·3	8·2	8·4	8·5	9·0	8·6	5·9	8·0	7·4
23	9·6	5·6	4·8	5·8	8·0	8·1	8·4	8·2	8·8	8·6	6·8	8·1	7·3
24	9·9	5·5	4·8	6·5	8·3	8·1	8·9	8·7	8·9	7·8	6·8	7·9	7·4
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	..

ABSTRACT of the PRINCIPAL CHANGES of the DIRECTION of the WIND, as derived from the RECORDS of the BECKLEY ANEMOGRAPH in the YEAR 1901.

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				
6.22	6.22½	E.	N.E.		4
6.23	6.23¼	N.E.	S.E.	8	
7. 3¼	7.14½	S.E.	N.E.		8
7 16	7.22	N.E	E.S.E.	6	
8. 7½	8.14¼	E.S.E.	N.N.E.		8
8.15½	9.15¾	N.N.E.	S.E.	10	
9.16	12. 6½	S.E.	N.E		8
12. 6¾	12.12½	N.E.	E.N.E.	2	
12.20	13. 2	E.N.E.	N.N.E.		4
13. 3	13. 6¼	N.N.E.	N.E.	2	
13. 6½	13.13	N.E.	N.N.E.		2
14.23	15.17	N.N.E.	W.N.W.		8
15.19½	15.23½	W.N.W.	N.N.E.	8	
16. 0¼	16. 2	N.N.E.	N.N.W.		4
16. 5	16. 9	N.N.W.	N.N.E.	4	
16. 9½	16.16	N.N.E.	N.W.		6
17. 7	17.20	N.W.	E.	12	
18. 7¼	18.14	E.	N W.		12
18.15½	19. 1	N.W.	E.N.E.	10	
19 7	20. 9	E.N.E.	E.		30
23.19	24. 2¼	E.	S.S.E.	6	
24. 9	26. 9½	S.S.E.	N.E.		10
26.10½	27. 2	N.E.	E.	4	
February.					
3.13¼	3.14¾	E.	S.W.	12	
3.16	3.16¾	S.W.	E.S.E.		10
4.10	4.10¼	E.S.E.	E.N.E.		4
4.12½	4.12¾	E.N.E.	S.S.W.	12	
4.13	4.13¾	S.S.W.	E.S.E.		8
4.14¼	4.15	E.S.E.	S.S.E.	4	
4.16½	5.10¼	S.S.E.	N.E.		42
5.10½	5.13	N.E.	N.E.	32	
5.13¼	6.17	N.E.	E.S.E.		58
7. 1	8. 8¼	E.S.E.	S.W.	42	
8. 9	8. 9¾	S.W.	E.S.E.		10
8.10	8.12	E.S.E.	W.	14	
8.13½	8.16	W.	E.		16
8.19½	9.11¼	E.	N.N.W.	22	
9.11½	9.17	N.N.W.	E.		22
9.20	10.14½	E.	N.W.	20	
10.15¾	10.17	N.W.	E.N.E.		22
10.21	11.14¼	E.N.E.	W.	18	
11.14½	12.12	W.	N.N.W.		26
Feb.—*cont.*					
d h	d h				
12.12½	12.16	N.N.W.	W.S.W.	24	
12.20	13. 4	W.S.W.	E.		14
13. 8	13.20	E.	S.S.E.	38	
14. 9	14.10	S.S.E.	E.S.E.		4
14.10½	14.19½	E.S.E.	S.E.	34	
15. 1	15.10½	S.E.	E.N.E.		6
15.13	16. 1	E.N.E.	S.E.	6	
16. 6¾	16. 7	S.E.	N.N.E.		10
16. 7½	16.10½	N.N.E.	S.S.E.	12	
16.11¼	16.12	S.S.E.	E.S.E.		4
17.10½	17.14	E.S.E.	N.E.		6
17.14½	17.21	N.E.	S.E.	8	
17.22	18.15	S.E.	N.E.		8
18.15½	19. 1	N.E.	S.E.	8	
19. 3	19.14¾	S.E.	N.		12
19.15	19.19	N.	S.S.W.	18	
19.20½	20.11¾	S.S.W.	N.E.		14
20.12	20.15½	N.E.	W.N.W.	22	
20.18¼	20.18½	W.N.W.	E.S.E.		16
21.10½	21.11	E.S.E.	W.S.W.	12	
21.12	21.14¾	W.S.W.	W.S.W.		32
21.15	21.15½	W.S.W.	S.	26	
21.15¾	21.18¼	S.	N.E.		12
21.18¾	21.21	N.E.	S.E.	10	
22. 6¾	22.16	S.E.	N.E.		8
22.17	22.17½	N.E.	S.E.	8	
23. 0	23. 9	S.E.	E.N.E.		6
25.18½	25.18¾	E.N.E.	E.S.E.	4	
26. 7	26.10	E.S.E.	N.		10
26.16	26.17	N.	S.E.	12	
26.23½	27.10	S.E.	N.E.		8
27.14	28. 0	N.E.	E.	4	
March.					
1. 0¾	1. 1	E.	S.E.	4	
1. 8	1.12	S.E.	N.E.		8
1.13	1.17½	N.E.	W.N.W.	22	
1.17¾	2.17½	W.N.W.	N.W.		30
3. 4½	3. 6½	N.W.	S.E.	16	
3. 8	4. 6	S.E.	S.E.		32
4. 8	4. 9½	S.E.	N.	20	
4.10	4.18	N.	N.E.		28
March—*cont.*					
d h	d h				
4.20	4.22	N.E.	S.E.	8	
6. 8½	6.10	S.E.	E.S.E.		2
6.12	6.19	E.S.E.	S.E.	34	
7. 8	7.10	S.E.	E.		4
7.11	7.12	E.	W.	16	
7.14	7.17½	W.	S.E.		12
8. 6¼	8. 6¾	S.E.	E.S.E.		2
10.12½	10.14	E.S.E.	E.		34
10.15½	10.17	E.	S.S.W.	10	
10.22¾	11. 2	S.S.W.	E.N.E.		12
11. 3	11. 6	E.N.E.	E.S.E.	4	
11. 9	11.10	E.S.E.	E.N.E.		4
11.16	11.20	E.N.E.	E.S.E.	4	
12.10	12.13	E.S.E.	N.W.		14
12.13½	12.20½	N.W.	S.E.	16	
13. 8	13.12	S.E.	N.W.		16
14.17	15. 0	N.W.	S.E.	16	
15. 9	15.10	S.E.	N.		12
15.11	15.21½	N.	S.E.	12	
16. 8	17. 9	S.E.	E.		36
20.23	21. 8¼	E.	N.W.		12
21. 8½	21.11¾	N.W.	E N.E.	10	
21.12	21.15¾	E.N.E.	N.		6
21.17½	21.17¾	N.	S.E.	12	
21.22¾	21.23	S.E.	N.N.E.		10
22. 0	22. 0¼	N.N.E.	E.S.E.	8	
22. 8¼	22. 8½	E.S.E.	N.N.E.		8
22. 9	22. 9¼	N.N.E.	S.E.	10	
22.10	22.12½	S.E.	W.		20
22.14¼	22.16	W.	N.N.E.	10	
23. 8¾	23.13¾	N.N.E.	W.		10
23.15½	23.17¾	W.	E.S.E.		14
27.14½	28. 1¾	E.S.E.	N.		42
28. 2½	28. 2¾	N.	S.E.	12	
28. 5	28. 6¼	S.E.	N.E.		8
28.17½	28.20¼	N.E.	E.S.E.	6	
28.23	29. 5½	E.S.E.	N.		10
29. 6½	29.10	N.	W.	24	
29.10¼	30.14¾	W.	N.N.W.		26
30.15¾	30.17½	N.N.W.	S.E.	14	
31.10½	31.13¾	S.E.	E.N.E.	26	
31.15¼	31.18½	E.N.E.	S.E.		26

ABSTRACT of the PRINCIPAL CHANGES of the DIRECTION of the WIND, as derived from the RECORDS of the BECKLEY ANEMOGRAPH in the YEAR 1901.

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.					
d h	d h				
1. 8½	1.10¼	S.E.	E.		4
1.12	1.12¾	E.	W.	16	
1.13¼	1.15¼	W.	N.E.		18
1.15½	1.19	N.E.	E.S.E.	6	
2. 9½	2.11¼	E.S.E.	N.W.		14
3. 9	3.10½	N.W.	E.	12	
3.11½	3.14	E.	N.N.E.		6
3.18¾	3.23	N.N.E.	E.S.E.	8	
4. 7	4. 9½	E.S.E.	N.E.		6
4.10	4.18	N.E.	S.E.	8	
5. 7½	5.13½	S.E.	N.N.E.		10
5.14	6. 4½	N.N.E.	S.E.	10	
6. 7¾	6.16¼	S.E.	N.W.		16
6.16½	6.22¼	N.W.	E.N.E.	10	
7. 7½	7.20¾	E.N.E.	S.		22
7.21¼	8. 1	S.	S.E.	28	
8. 1¾	8.10¾	S.E.	W.S.W.		22
8.11½	8 13	W.S.W.	N.W.	6	
8.16½	8.17¾	N.W.	S.E.		16
9.11	9.18½	S.E.	S.E.	32	
11. 2	11. 8	S.E.	E N.E.		6
11.15	11.16	E.N.E.	E.S.E.	4	
15. 3	15. 4	E.S.E.	S.S.W.	8	
15. 5¾	15.10½	S.S.W.	E.S.E.		8
15.15	16. 1¾	E.S.E.	W.N.W.	16	
16. 2	16. 6½	W.N.W.	S.S.E.		12
17. 9	17.11	S.S.E.	E.S.E.		4
May.					
22. 6	22. 6¼	E.S.E.	S.E	2	
22. 9¼	22.14	S.E.	W.		20
22.15¾	22.16	W.	N.W.	4	
23. 8½	23. 9	N.W.	N.E.	8	
23.10¾	23.14	N.E.	N.W.		8
23.15½	23.18¾	N.W.	S.	20	
23.21¼	24. 5	S.	S.E.		4
24.17	25. 2	S.E.	E S.E.		2
31.11	31.13	E.S.E.	W.N.W.		16
31.13½	31.18½	W.N.W.	S.S.E.	20	
June.					
1. 9	1.11½	S.S.E.	W.N.W.	12	
1.11¾	1.14¼	W.N.W.	S.E.		14
1.21¾	1.22	S.E.	S.S.E.	2	
2. 8½	2. 8¾	S.S.E.	E.S.E.		4
4.23	5.14¼	E.S.E.	W.N.W.	16	
5.14¾	5.22¾	W.N.W.	E.		18
6. 1	6. 8	E.	S.	8	
7. 3	7. 4	S.	S.E.		4
19. 8¾	19.12¾	S.E.	E.N.E.		6
19.13	19.23½	E.N.E.	S.	10	
June—*cont.*					
20. 8½	20. 8¾	S.	E.S.E.		6
28. 8¾	28.11¼	E.S.E.	N.N.E.		8
28.11½	28.13	N.N.E.	S.E.	10	
28.13½	28.16	S.E.	N.E.		8
28.19	29. 0¾	N.E.	S.S.E.	10	
29. 4½	29. 9	S.S.E.	E.S.E.		4
August.					
2. 0	2. 8½	E.S.E.	N.E.		6
2.10½	3.11	N.E.	S.S.E.	10	
3.11½	3.20¼	S.S.E.	S.S.W.		28
3.23	4.12¼	S.S.W.	W.	38	
4.13½	5. 0¾	W.	N.E.		20
5. 1½	5.19	N.E.	S.S.E.	10	
6. 2	7. 8	S.S.E.	E.S.E.		4
8.21½	8.21¾	E S.E.	S.	6	
9. 9¼	9.10½	S.	E.		8
9.10¾	9.21	E.	S.	40	
10.12	10.18	S.	S.E.		4
10.18¾	11. 4	S.E.	S.	4	
11. 5	11. 7¾	S.	E.S.E.		6
16. 9	16.12¾	E.S.E.	N.E.		6
16.13¼	17. 2½	N.E.	S.S.E.	10	
17. 3	17. 4	S.S.E.	E.S.E.		4
18.20	18.20½	E.S.E.	S.E.	2	
19. 8½	19. 9¾	S.E.	E.N.E.		6
19.16¼	20. 7¼	E.N.E.	S.E.	6	
20. 9	20.11	S.E.	W.N.W.		18
20.13	21.11	W.N.W.	W.S.W.	28	
21.13	21.21	W.S.W.	E.S.E.		12
September.					
7. 6½	7.12½	E.S.E.	N.E.		38
7.12¾	7.14	N.E.	S.	12	
7.14¾	7.15	S.	E.		8
7.16	8.15	E.	E.S.E.	34	
19.12½	19.13	E.S.E.	S.S.W.	8	
19.14¾	19.16	S.S.W.	E.		10
20. 2½	20. 2¾	E.	E.S.E.	2	
20. 8	20.10	E.S.E.	N.E.		6
20.14	20.20	N.E.	E.	4	
24. 9¾	24.14¾	E.	E.S.E.	34	
28. 9	28.10½	E.S.E.	E.N.E.		4
28.14¾	28.16	E.N.E.	W.S.W.	16	
28.17½	29. 8½	W.S.W.	E.		14
29. 9½	29.14½	E.	N.W.	20	
30. 3	30. 9½	N.W.	E.S.E.		18
30.10½	30.17½	E.S.E.	E.	30	
October.					
d h	d h				
1. 7½	1.13½	E.	N.N.W.	22	
1.13¾	1.16½	N.N.W.	S.E.		18
2. 7¼	2. 7½	S.E.	E.S.E.		2
9. 7½	11.10½	E.S.E.	N.		42
11.11	11.13¼	N.	N.N.W.	30	
11.13½	11.15	N.N.W.	S.E.		18
12. 7	12. 7½	S.E.	E.N.E.		6
13. 8	13.11¼	E.N.E.	W.		14
13.11½	13.12¾	W.	N.	40	
13.13	13.17¼	N.	N.N.E.		30
13.17½	13.20½	N.N.E.	S.S.E.	12	
13.21	14.11	S.S.E.	E.S.E.		4
25. 7½	25.13½	E.S.E.	W.N.W.		16
26. 1½	26.10	W.N.W.	E.S.E.		16
November.					
2.14	2.14¾	E.S.E.	N.N.W.	20	
2.15	2.16½	N.N.W.	E.S.E.		20
3. 3	3. 5	E.S.E.	S.	6	
3. 6½	3. 7	S.	E.S.E.		6
10. 6½	10. 8½	E.S.E.	N.		10
10.16½	10.22½	N.	E.S.E.	10	
11. 7½	11. 9	E.S.E.	N.		10
11.12	11.13½	N.	N.W.	28	
11.15	12.11	N.W.	E.N.E.		22
12.14	12.20	E.N.E.	S.E.	6	
13. 6½	13. 8	S.E.	E.N.E.		6
14. 7½	14.13½	E.N.E.	N.		6
14.14½	14.18	N.	N.E.	36	
14.20½	15. 8	N.E.	S.S.E.	10	
15. 8¾	15.15	S.S.E.	E.N.E.		40
15.20	15.20¼	E.N.E.	E.S.E.	4	
21. 6	21.11¾	E.S.E.	E.		34
27. 9	27.13½	E.	N.W.	20	
27.22½	28. 0	N.W.	S.S.E.	18	
28. 9	28.14	S.S.E.	W.S.W.		24
28.15	28.18	W.S.W.	N.N.W.	8	
29. 3½	29. 5½	N.N.W.	E.S.E.	12	
December.					
2.12	3. 6	E.S.E.	E.		2
4. 9	6. 0	E.	N.W.		12
6.12	6.14	N.W.	W.S.W.		6
7. 3¼	7. 3½	W.S.W.	S.		6
7. 9	7.14¾	S.	N.E.	20	
7.15¼	7.16½	N.E.	W.N.W.		10
7.17½	7.18½	W.N.W.	E.N.E.	12	
8.15	9. 5	E.N.E.	E.S.E.	4	
19.21	20.10½	E.S.E.	N.		10
20.11	20.12½	N.	E.N.E.	6	
21. 0	21. 1	E.N.E.	N.N.E.		4
22. 0	23. 1½	N.N.E.	E.S.E.	8	
23. 7½	23. 9	E.S.E.	E.N.E.		4
30. 9	30.15½	E.N.E.	E.N.E.		32
31.16	31.18	E.N.E.	E.S.E.	4	

Month and Day, 1901.		Mean Heating Effect. (P)	Mean Altitude of Sun.	Height of Barometer.	Relative Humidity.	Aspect of Sky.	Coefficient of Transmissibility. (x)	Month and Day, 1901.		Mean Heating Effect. (P)	Mean Altitude of Sun.	Height of Barometer.	Relative Humidity.	Aspect of Sky.	Coefficient of Transmissibility. (x)
		°	° ′	ins.	%					°	° ′	ins.	%		
January	5	10·23	86.33	29·820	47	1	·842	July	11	8·74	47.29	30·039	58	2	·825
	9	10·28	87. 6	29·708	37	2	·846		13	8·73	47.51	30·042	60	2	·823
	22	10·06	88.24	29·826	56	2	·829		15	8·85	48. 6	30·032	55	2	·830
February	1	9·69	86.51	29·857	56	3	·801		19	8·93	48.43	29·992	58	2	·834
	7	10·03	84.46	29·781	59	2	·831		27	9·03	50.25	29·987	61	2	·836
	15	9·75	82.27	29·762	58	2	·811		30	8·95	51. 4	30·052	53	2	·829
March	8	9·59	74.42	29·830	57	2	·811	August	18	9·27	56.27	30·006	53	2	·838
	30	9·35	66. 9	29·737	75	2	·809	Sept.	3	9·44	61.56	30·137	52	2	·838
April	2	9·45	65. 0	29·747	69	2	·820		6	9·53	63. 1	30·041	46	2	·842
	26	9·27	56.20	29·836	59	2	·830		12	9·65	65.13	30·029	42	2	·847
	29	9·15	55.25	29·865	57	2	·824		13	9·37	65.30	30·074	52	2	·824
May	10	8·80	52.15	29·932	64	3	·809		25	9·41	70.13	30·063	53	2	·816
	15	8·62	50.56	29·898	60	2	·800	October	16	9·65	78.13	29·969	55	2	·820
	17	9·02	50.23	29·931	54	2	·831		24	9·75	81. 5	29·915	53	2	·823
	21	9·09	49.39	29·824	69	2	·838		29	9·96	82.45	29·954	48	3	·838
	24	8·48	49. 4	29·982	68	3	·797	Nov.	20	9·76	88.24	29·897	50	3	·810
	28	8·69	48.19	29·957	56	3	·815		25	10·25	88.11	29·883	48	1	·850
June	8	8·76	46.53	29·923	58	2	·825	Dec.	17	9·91	86. 8	29·910	45	2	·817
	19	9·08	46.18	30·029	54	1	·850		23	9·63	86. 4	29·887	56	3	·793
	22	8·69	46.20	30·046	53	3	·824								

Each observation furnishes an equation of the form—

$$\log P_0 = \log P\rho^2 - \beta\delta \log x$$

where P_0 is the original heat, P the observed heat, ρ the radius vector of the earth, β the ratio which the atmospheric pressure bears to a constant pressure of 30 inches of mercury, δ the secant of the sun's zenith distance, and x the coefficient of transmission of a ray from a zenith sun through the atmosphere, when its pressure is equivalent to that of 30 inches of mercury.

The values of $\log P\rho^2$ with the corresponding values of $\beta\delta \log x$, have been collected into three groups, summer (October 16—February 15), winter (May 10—July 30), and equinoxes (March 8—April 9, and August 18—September 25), thus forming three mean observational equations, which treated by the method of least squares give—

$$P_0 = 11^\circ{\cdot}737 \qquad x = {\cdot}8252.$$

The values of x given in the table have been determined by substituting $11^\circ{\cdot}737$ for P_0 in each equation.

The transmissibility of the air appears to be slightly affected by its humidity. Grouping the values of x on days of high and low relative humidity, when the aspect of the sky was sensibly the same, we have—

with relative humidity 66·8 % $x = {\cdot}8252$

" " 49·4 % $x = {\cdot}8304$

indicating a decrease of ·0003 in the value of x for an increase of 1 % relative humidity.

The mean value of x on the three days when the sky was reported "deep blue" was ·8473, and on the five days of "light blue" sky it was ·8100; a difference of ·0373. Reducing each observation to a constant humidity of 50 %, by the above data, the difference becomes ·0354.

APPROXIMATE ALTITUDES of RAINFALL STATIONS and the NAMES of OBSERVERS.

District.	Station.	Observer.	Altitude.	Reference Number of Station.
			Feet.	
Rivière du Rempart.	St. Antoine -	G. Mayer - -	50	1
	Mon Loisir -	E. Alizard -	300	2
	Labourdonnais -	A. Wiché - -	290	3
	Beau Sejour -	W. P. Ebbels -	300	4
	Mon Choix -	W. P. Ebbels -	700	5
	Mont Piton -	W. P. Ebbels -	860	6
	Antoinette - -	G. Martin - -	640	7
	Mon Songe -	W. P. Ebbels -	620	8
Pamplemousses.	St. André - -	Lecourt de Billot	175	9
	Solitude - -	J. Lecourt de Billot.	90	10
	Beau Plan - -	J. de St. Romain	195	11
	Botanical Gardens	J. Vankeirsbilck -	225	12
	The Observatory	T. F. Claxton -	179	13
	The Mount -	L. Antelme -	325	14
	La Grande Rosalie	C. Montocchio -	643	15
	California - -	C. Montocchio -	840	16
	Montagne Longue	J. Joly - -	430	17
Port Louis.	The Albion Dock	C. Sumiere, C.M.G.	18	18
Flacq.	Beau Bois Estate	A. Fayd'herbe -	500	19
	Constance d'Arifat	A. Dalais - -	100	20
	Rich Fund -	S. Eynaud -	500	21
	Union Régnard -	A. Regnard -	600	22
	Bel Etang - -	G. Montocchio -	700	23
	Beau Champ -	S. R. Cochran -	20	24
	Sans Souci -	A. Dalais - -	910	25
	Olivia - -	L. Bulau -	400	26
	L'Etoile - -	C. Barlow - -	400	27
Moka.	The Bower -	C. F. Shand -	1,080	28
	Gentilly - -	H. Telfair - -	1,150	29
	Bon Air Estate -	E. Blandin de Chalain.	1,050	30
	Bon Air Résidence	Hon. F. Nash -	1,100	31
	Lynnwood - -	H. Stein - -	1,100	32
	Alma, Verdun -	Hon. H. Leclezio, C.M.G.	1,460	33
	Le Reduit Gardens	W. Kennedy -	1,000	34
	Minissy - -	L. Hardy - -	1,150	35
	Val Ory - -	G. Regnard -	1,100	36
Plaines Wilhems.	The Manse Beau Bassin.	Rev. G. McIrvine	850	37
	Villa Fantaise -	H. Ducray - -	830	38
	Bagatelle - -	R. Desvaux -	1,300	39
	Trianon - -	E. Lagesse -	950	40
	Salency Rose Hill	A. Boulé - -	923	41
	Phœnix Estate -	A. Series -	1,300	42
	Military Camp, Vacoas.	Capt. J. E. Vanvenen, R.E.	1,370	43
	Bernica, Vacoas -	E. G. Mayer -	1,615	44
	Réunion, Vacoas -	Hon. G. Robinson	1,420	45
	Curepipe Gardens	J. Vankeirsbilck -	1,840	46
	Villa-le-Bain -	Th. V. Latour -	1,840	47
	Mare-Aux-Vacoas	P. Le Juge de Segrais, A.M.I.C.E.	1,850	48
Black River.	Albion Estate -	G. R. Lagane -	30	49
	Wolmar - -	J. A. Johnson -	200	50
	Tamarin - -	J. A. Johnson -	150	51
Grand Port.	Ferney - -	J. Wiché - -	20	52
	Cent Gaulettes -	A. Ducray -	800	53
	Cluny Estate -	J. K. Desplaces -	1,000	54
	Riche-en-Eau -	E. de Rochecouste	1,200	55
	Union Park Estate	A. Samouilhan -	900	56
	Astræa - -	A. Daniel - -	700	57
	Beau Vallon -	L. Orion -	60	58
	Gros Bois - -	G. D'Unienville -	500	59
Savanne.	Colmar - -	Sir V. Naz, K.C.M.G.	400	60
	Beau Bois - -	G. Guimbeau -	350	61
	Britannia -	T. W. Innis -	730	62
	Bénares Résidence	Sir V. Naz, K.C.M.G.	300	63
	Bénares Sugar House.	Sir V. Naz, K.C.M.G.	200	64
	Ste. Marie - -	H. J. H. Hamed -	100	65
	Beau Champ -	H. J. H. Hamed -	60	66
	St. Aubin - -	G. Guimbeau -	300	67
	Bel Ombre -	H. J. H. Hamed -	50	68
	Union-Bel-Air -	T. Vigier Latour	90	69
	Terracine - -	O. Pilot - -	50	70

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1901.

Reference Number of Station.	January.		February.		March.		April.		May.		June.		July.		August.	
	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.	
1	14·86	7	3·66	17	10·65	14	4·72	14	1·95	12	2·56	15	1·35	11	2·03	15
2	14·51	13	4·25	17	11·56	15	6·61	16	2·72	10	2·52	13	2·21	19	2·87	17
3	24·39	13	3·81	14	12·22	12	6·14	12	3·01	11	2·50	10	2·81	12	2·97	14
4	7·63	12	7·25	17	13·36	14	4·77	16	2·92	12	3·50	15	3·00	14	2·53	19
5	18·16	8	7·86	13	17·79	11	5·60	11	4·02	7	4·63	13	2·93	11	2·52	12
6	15·80	11	9·55	17	15·90	14	6·75	12	3·50	10	5·85	13	4·10	17	3·23	19
7	11·31	11	7·68	16	15·26	15	4·91	19	3·07	14	4·30	18	3·94	17	3·05	17
8	19·45	15	7·74	15	17·30	15	4·63	18	3·13	14	4·93	18	4·35	19	2·97	17
9	8·65	7	3·81	9	7·72	9	2·26	7	2·20	6	1·75	8	..	..	..	..
10	12·68	12	4·36	10	8·69	11	1·69	4	1·69	6	0·81	8	..	..	..	..
11	18·78	7	3·74	9	9·60	11	2·28	8	1·85	3	1·98	8	2·13	10	2·14	10
12	†17·14	16	5·79	13	12·84	16	1·95	11	1·90	8	2·26	15	3·00	21	2·47	20
13	18·60	14	3·67	13	9·68	18	3·43	11	2·45	13	1·39	13	1·91	20	2·47	23
14	16·08	13	5·82	14	13·55	14	2·81	13	2·53	11	3·16	14	3·51	15	2·65	18
15	13·40	11	7·89	10	15·92	15	4·45	13	3·04	9	4·53	15	2·84	12	4·11	13
16	17·92	10	6·56	6	17·42	13	4·49	12	3·30	8	4·85	14	3·34	11	3·98	12
17	17·80	12	5·89	13	12·27	17	2·58	7	2·53	9	1·48	9	1·33	6	3·09	14
18	†14·88	7	3·38	7	11·48	11	2·17	3	0·67	2	0·50	1	0·00	0	0·44	2
19	13·65	20	6·80	17	15·00	15	3·93	15	3·03	18	5·95	20	3·70	21	3·05	20
20	12·05	15	10·02	18	18·75	18	4·09	16	3·95	19	4·46	15	3·81	16	3·20	17
21	16·91	20	9·02	19	16·11	19	5·50	21	4·41	22	5·94	18	..	..	..	..
22	22·71	16	8·52	15	17·88	19	5·56	20	4·95	21	4·74	17	4·59	17	3·44	12
23	19·25	19	11·69	22	20·37	16	9·60	21	10·09	26	9·92	23	9·25	17	9·81	28
24	11·49	12	3·56	14	13·59	17	3·08	13	2·31	12	2·73	18	2·00	15	1·81	13
25	18·12	20	9·78	13	18·95	15	13·62	17	10·99	18	11·66	21	11·33	17	8·97	19
26	16·08	14	7·32	14	14·09	16	6·02	16	6·02	20	7·19	24	3·48	12	1·83	16
27	15·92	20	8·67	18	17·30	22	9·71	19	8·80	23	8·71	26	9·53	24	6·36	24
28	†20·95	19	9·68	19	14·36	20	5·46	17	2·65	17	2·55	13	2·30	12	2·66	16
29	†17·05	14	8·87	15	16·25	16	5·15	12	3·56	13	2·05	12	2·72	7	2·81	14
30	19·24	12	10·99	16	16·46	17	5·38	9	2·25	7	2·12	11	2·54	13	2·57	16
31	25·96	17	10·05	17	14·31	21	..	..	..	..	..	..	..	..	..	..
32	..	..	..	..	..	..	..	..	2·76	10	2·47	7	2·64	12	2·62	21
33	19·08	14	13·97	14	14·62	21	8·57	26	9·99	24	7·38	23	7·73	24	6·72	26
34	25·91	17	10·08	20	11·08	21	5·34	15	1·89	12	1·64	11	1·99	16	2·44	19
35	19·33	11	8·43	12	17·66	14	8·17	13	5·05	14	2·54	8	2·79	12	3·06	13
36	..	..	..	..	..	..	..	..	..	..	..	..	2·15	22	2·03	25
37	25·59	15	9·16	15	10·10	16	4·34	15	1·52	13	1·41	9	1·61	13	1·64	16
38	26·18	17	8·87	19	10·25	19	4·34	16	1·43	14	1·45	11	1·63	14	1·95	20

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1901—*continued.*

September.		October.		November.		December.		Total Rainfall in 1901.		Average Annual Rainfall.		Number of Years Employed		Greatest Daily Rainfall in the Year 1901.	
Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Amount.	Number of Rainy Days.	Amount.	Number of Rainy Days.	For Rainfall.	For Rainy Days.	Amount.	Day.
ins.		ins.		ins.		ins.		ins.		ins.				ins.	
0·51	9	2·69	10	1·46	9	4·88	12	51·32	145	49·11	117	33	2	7·00	January 12
0·73	8	1·29	9	2·39	10	5·70	14	57·36	161	50·99	138	9	9	7·30	January 13
0·96	6	1·94	5	5·06	6	7·74	15	73·55	130	63·10	134	39	40	12·00	January 13
1·49	11	2·77	7	3·73	8	6·29	14	69·24	159	79·06	159	21	1	10·00	January 13
1·14	5	3·41	6	4·55	8	7·18	12	79·79	117	79·79	117	1	1	10·20	January 13
2·25	12	4·25	9	4·80	9	9·29	17	85·27	160	85·27	160	1	1	6·70	January 13
2·23	12	3·36	10	3·56	10	9·31	17	71·98	176	67·35	175	11	9	7·26	March 27
2·07	10	3·20	11	4·32	11	9·41	17	83·50	180	73·38	164	19	19	9·43	January 13
..	..	..	..	..	..	..	..	..	..	43·26	126	35	31	4·74	January 13
..	..	..	..	..	..	..	..	..	..	34·77	104	15	15	8·05	January 13
0·79	3	0·50	4	4·79	5	5·95	9	54·53	87	49·52	110	16	16	13·72	January 13
1·23	13	1·09	9	5·11	13	8·26	18	63·04	173	62·92	168	34	34	11·48	January 13
0·92	10	0·79	12	5·06	13	6·10	20	56·47	180	48·02	199	27	27	12·22	January 13
1·91	8	2·55	6	5·90	10	7·65	15	68·12	151	62·62	158	10	8	8·00	January 13
1·68	7	3·00	9	4·70	10	9·05	13	74·61	137	71·92	156	21	20	7·69	March 27
1·39	6	3·52	7	4·59	6	10·87	13	82·23	118	77·85	131	9	9	12·23	January 13
0·78	7	0·47	6	3·06	7	6·63	13	57·81	120	51·93	142	6	6	11·50	January 13
0·62	3	0·00	0	2·00	4	5·67	8	41·81	48	35·48	78	7	7	10·25	January 13
1·56	12	3·52	13	2·72	13	11·42	22	74·33	206	68·00	184	8	8	4·21	March 27
2·61	14	4·70	11	3·55	11	9·40	16	80·59	186	60·67	160	16	6	6·10	March 27
..	..	..	..	..	..	..	..	..	..	77·65	173	12	11	5·92	January 13
1·61	9	4·43	9	3·37	12	9·57	12	91·37	179	72·08	183	25	17	9·32	January 13
10·98	19	18·62	23	5·68	13	21·44	17	156·70	244	110·52	190	6	5	9·15	January 13
1·56	13	3·52	9	1·30	11	5·79	14	52·74	161	51·84	161	12	1	8·20	January 13
7·75	13	12·73	16	4·46	10	16·76	17	145·12	196	128·67	205	18	14	11·56	January 13
3·41	16	7·24	14	2·12	13	7·56	15	82·36	190	65·92	175	5	5	6·75	January 13
5·74	20	10·17	18	2·96	14	11·46	21	115·33	249	102·03	197	20	17	6·91	January 13
2·65	14	1·70	14	2·28	12	18·08	21	85·32	194	66·93	265	15	15	10·50	January 13
2·81	8	2·32	8	2·69	7	13·46	12	79·74	138	80·55	197	28	28	8·50	January 13
2·32	10	1·62	7	1·85	8	14·87	16	82·21	142	66·13	183	18	18	6·30	January 13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	13·50	January 13
2·31	11	1·07	6	2·01	9	14·40	17	..	..	69·74	230	29	29	..	..
6·99	17	7·14	19	4·71	17	13·93	24	120·83	249	128·22	254	29	26	11·02	January 13
1·77	13	1·10	11	2·22	17	11·12	20	76·58	192	57·66	187	15	14	10·12	January 13
1·91	6	1·98	5	1·73	4	16·05	12	88·70	124	70·90	138	18	18	10·85	January 13
2·12	16	1·40	15	1·76	11	12·28	19	..	..	52·24	209	2	2	..	..
2·04	11	0·61	6	1·26	11	9·93	13	69·21	153	47·42	178	5	5	13·18	January 13
2·52	10	0·68	8	1·59	15	11·78	17	72·67	180	46·87	134	5	5	13·18	January 13

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1901—*continued.*

Reference Number of Station.	January.		February.		March.		April.		May.		June.		July.		August.	
	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.	
39	26·46	10	2·89	6	13·92	15	7·07	8	4·08	5	1·44	4	1·98	5	1·68	4
40	15·61	13	4·08	10	17·33	18	7·28	14	3·20	9	1·94	9	2·86	10	2·59	13
41	†22·55	14	6·75	10	13·72	18	8·70	14	2·44	11	1·66	10	2·31	17	2·19	15
42	29·72	9	3·81	9	19·07	16	9·82	11	5·12	6	4·53	8	4·50	14	3·44	14
43	27·73	22	9·12	23	17·31	24	5·88	21	4·64	30	3·70	23	4·72	25	3·68	25
44	24·23	..	11·06	..	13·76	..	10·36	..	3·10	..	2·01	..	5·41	..	3·63	..
45	31·34	18	10·77	22	14·70	20	8·65	20	5·22	24	4·21	20	6·00	22	4·75	20
46	22·31	19	13·00	21	16·91	20	12·53	23	10·10	27	6·08	22	11·02	26	7·45	26
47	32·13	20	11·67	22	17·54	23	12·84	28	8·08	28	7·44	26	11·53	29	7·75	29
48	24·65	22	13·80	26	18·42	27	18·70	27	13·97	28	10·55	28	11·78	29	10·40	28
49	*12·71	14	6·86	17	8·38	19	2·18	10	0·18	4	0·18	4	0·20	4	0·39	6
50	11·68	9	7·32	14	5·76	13	2·55	5	0·00	0	1·60	1	..	..	..	..
51	12·98	10	9·16	17	7·96	17	3·21	6	0·82	2	1·88	5	..	..	..	..
52	13·61	15	6·19	13	14·70	17	6·01	17	5·33	18	6·77	22	3·34	15	3·99	16
53	24·54	19	13·42	21	21·95	21	10·18	23	10·06	23	11·70	27	..	..	..	..
54	15·53	14	15·29	18	23·31	20	13·37	18	12·82	20	8·01	20	10·72	29	14·90	29
55	11·25	17	8·10	20	16·33	19	9·84	23	6·19	21	8·28	25	5·44	25	4·41	22
56	24·82	22	10·84	21	27·31	24	10·03	21	12·50	23	12·25	24	11·01	25	7·48	23
57	17·19	24	10·09	18	17·13	21	10·54	27	8·31	28	9·17	28	6·05	25	6·21	24
58	8·99	19	2·47	17	10·25	17	5·38	22	3·49	18	6·54	19	1·70	16	1·87	19
59	15·48	17	18·37	16	18·29	19	5·99	13	7·48	17	9·03	23	6·27	15	5·03	15
60	11·42	16	13·62	15	17·64	18	6·79	20	7·56	21	9·13	23	5·69	16	4·89	22
61	17·47	16	12·11	14	15·54	14	9·60	18	8·45	17	11·79	23	10·23	15	5·89	21
62	21·25	22	7·87	10	26·53	17	11·08	18	19·69	17	17·91	22	14·24	18	6·04	18
63	11·16	15	9·45	13	13·12	18	5·84	19	5·41	19	8·45	22	3·62	15	3·98	22
64	12·83	12	9·91	12	12·02	17	4·69	17	3·26	16	5·78	14	3·49	13	3·52	21
65	†18·10	12	7·93	6	8·80	10	6·81	5	1·99	5	7·39	11	5·55	10	4·83	7
66	†19·01	12	5·58	6	7·86	11	6·34	5	1·55	6	6·20	12	4·50	11	2·65	11
67	13·94	20	8·38	12	12·09	18	10·69	21	5·49	21	6·09	25	4·48	22	3·55	24
68	†19·39	15	6·51	8	7·15	14	6·85	13	2·57	12	5·58	14	3·68	17	2·18	16
69	19·95	12	11·04	11	12·37	17	11·22	17	4·36	11	6·08	19	4·98	14	3·42	20
70	18·74	11	7·67	8	9·66	11	10·08	17	3·38	10	3·80	16	2·59	10	2·10	16

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1901—*concluded.*

September.		October.		November.		December.		Total Rainfall in 1901.		Average Annual Rainfall.		Number of Years Employed		Greatest Daily Rainfall in the Year 1901.	
Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Total Rainfall.	No. of Days.	Amount.	Number of Rainy Days.	Amount.	Number of Rainy Days.	For Rainfall.	For Rainy Days.	Amount.	Day.
ins.		ins.		ins.		ins.		ins.		ins.				ins.	
2·51	5	2·09	3	1·31	2	14·21	8	79·64	75	71·35	182	9	10	16·05	January 13
2·48	9	1·31	4	2·69	6	19·70	16	81·07	131	63·52	191	35	33	6·90	January 13
1·93	14	0·96	8	1·82	15	11·91	14	76·94	160	58·61	146	4	4	12·60	January 13
3·32	9	1·66	4	3·28	6	22·00	18	110·27	124	76·63	200	23	21	12·00	January 13
5·56	19	2·59	18	3·51	13	21·11	25	109·55	268	109·55	268	1	1	12·43	January 13
5·33	..	3·78	..	3·95	..	17·16	..	103·78	..	103·78	..	1	..	11·50	January 13
6·40	17	3·78	13	2·86	11	21·00	14	119·68	221	87·75	231	24	21	14·83	January 13
8·26	19	5·97	19	4·28	15	24·10	23	142·01	260	127·56	277	18	18	12·29	January 13
8·53	21	6·44	21	3·96	15	24·38	21	152·29	283	129·93	305	16	8	10·60	January 13
9·40	26	11·04	24	5·04	18	24·40	25	172·15	308	143·93	246	13	13	6·65	January 13
0·72	4	0·15	2	1·11	7	6·42	9	39·48	100	32·59	83	8	8	4·60	January 13
..	..	..	..	..	..	..	..	..	..	35·08	51	18	13	7·13	January 13
..	..	..	..	..	..	..	..	..	..	37·27	66	19	13	7·50	January 13
1·87	8	4·44	17	5·11	14	12·28	17	83·64	189	90·52	183	24	24	9·05	January 13
..	..	..	..	..	..	..	..	..	..	133·67	236	20	3	15·00	January 13
6·30	15	10·59	18	5·35	11	20·96	13	157·15	225	144·71	239	38	38	9·00	January 13
2·93	17	7·90	20	4·70	19	12·83	26	98·20	254	89·08	239	24	20	4·65	January 13
4·99	17	8·59	20	6·15	18	18·24	23	154·21	261	122·60	229	8	8	19·00	January 13
3·29	19	9·65	23	6·56	21	13·03	25	117·22	283	105·96	221	20	17	8·17	January 13
1·42	14	2·43	12	2·74	13	8·43	17	55·71	203	63·98	205	37	36	4·15	January 13
1·47	5	5·56	10	4·22	6	11·67	13	108·86	169	96·54	201	38	38	11·00	January 13
2·21	15	5·89	19	4·01	18	12·86	19	101·71	222	92·98	189	30	30	8·67	January 13
2·85	15	6·51	15	4·96	15	15·08	18	120·48	201	97·61	194	5	5	5·40	January 13
3·63	15	7·30	13	3·06	8	13·40	14	152·00	192	95·72	188	16	4	17·00	January 13
1·45	11	3·58	18	3·64	17	10·59	18	80·29	207	67·81	179	16	15	8·87	January 13
1·11	10	3·02	14	5·84	15	10·34	17	75·81	178	69·28	161	10	9	11·29	January 13
1·10	5	2·90	6	2·66	5	5·05	6	73·11	88	77·01	104	6	6	9·00	January 13
1·18	5	3·15	8	2·54	5	5·13	9	65·69	101	60·15	118	22	8	9·00	January 13
1·56	19	2·07	17	3·47	16	8·56	19	80·37	234	81·75	215	34	34	6·10	January 13
1·36	6	1·70	8	1·52	5	5·20	10	63·69	138	65·01	147	16	8	9·00	January 13
2·64	10	3·08	10	2·61	8	9·87	14	91·62	163	76·71	156	33	33	7·56	January 13
1·51	6	0·90	5	2·45	8	6·49	11	69·37	129	61·09	134	13	12	11·50	January 13

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APPENDIX.

RESULTS

OF

SEISMOLOGICAL OBSERVATIONS.

1901.

APPENDIX.

RESULTS

OF

SEISMOLOGICAL OBSERVATIONS,

1901.

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. Details of installation are given in the Introduction.

Particulars of 108 earthquakes registered at Mauritius during the year 1901 are given in Table I., the principal of which are reproduced in Plate II.

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 $48^{div} \cdot 7$, 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 $11^{div} \cdot 0$, which cannot be eclipsed simultaneously with the thread at $48^{div} \cdot 7$.

The factor for converting scale readings into angular measure is determined from time to time by noting the displacement of the boom produced by turning the arm of the level screw through a known arc. The boom is first brought to a convenient position near one end of the scale; the level screw arm is then moved in steps, usually of 3°, and the scale reading of the boom noted at each successive step, care being taken to avoid any retrograde motion of the screw during a series of observations in one direction. When the separate observations are unusually discordant the operation is repeated. The first observation of a series is rejected in order to eliminate lost time.

During the year 1901 twenty-seven determinations of scale value were made, the results of which are as follows :—

Day, 1901.	Value of $1^{m.m.}$ on Seismogram.	No. of Observations.	Day, 1901.	Value of $1^{m.m.}$ on Seismogram.	No. of Observations.
	″			″	
January 8 -	0·203 ± ·022	5	June 22 - -	0·192 ± ·027	4
15 -	0·052 ± ·033	3	July 13 - -	0·147 ± ·036	5
18 -	0·080 ± ·017	4	August 13 -	0·168 ± ·011	2
19 -	0·239 ± ·015	6	17 -	0·588 ± ·036	4
25 -	0·242 ± ·003	2	30 -	0·578 ± ·021	5
28 -	1·182 ± ·026	4	September 19 -	0·531 ± ·017	5
30 -	0·273 ± ·002	4	28 -	0·543 ± ·027	5
February 11 -	0·304 ± ·021	5	October 15 -	0·520 ± ·026	5
26 -	0·298 ± ·017	5	November 5 -	0·517 ± ·019	4
March 30 - -	0·289 ± ·017	5	26 -	0·485 ± ·029	3
April 23 - -	0·311 ± ·004	4	December 4 -	0·302 ± ·018	6
May 16 - -	0·324 ± ·032	5	11 -	1·155 ± ·017	4
June 2 - -	0·379 ± ·007	2	16 -	0·403 ± ·008	4
14 - -	0·111 ± ·014	4			

During the cyclone of January 9–12 the sensibility increased considerably, indicating a tilt of the boom pillar towards the south. The instrument was adjusted to a normal sensibility on January 19, and upon the development of a second cyclone, on January 25, the sensibility was further decreased in order to prevent the boom

from wandering off the sheet, as usually happens during a cyclone, with normal sensibility. Similar precautions were taken on December 11.

The seismogram ordinates are measured at every hour of the day (commencing at Greenwich mean midnight as the time-breaks are made at every hour of Greenwich Civil Time) with a millimetre scale on which are etched also horizontal lines corresponding to the base-lines previously mentioned. Scale values for each day are obtained by smoothing the separate determinations made during periods for which no adjustment has been necessary.

The daily range of level given in Table II. refers to the civil day, and the progressive change of level is the excess of the ordinate at 0^h over the ordinate at 24^h on each day, the sign (+) indicating a tilt to westward, and (−) a tilt to eastward. The wanderings of the boom are represented graphically on Plate III., together with the daily level readings of the Transit Instrument.

In forming the mean diurnal inequality of level for each month all available days have been used, and the non-periodic inequality eliminated by the method described in the introduction under the heading "Magnetic Reductions." For converting the hourly ordinates into angular measure a mean scale value is used for periods during which it is sensibly constant. The use of a mean scale value for each month would shorten the computations, but would, in some months, introduce considerable error.

The true solar diurnal inequality of level for each month, and for the year, given in Table III. has been subjected to harmonic analysis and the results given in Tables IV. and V. The constant angles contained in Table V. have been referred to Mauritius apparent midnight by the application of the necessary corrections for Longitude and Equation of time.

In each month the first term c_1, of the Fourier series is by far the most important, and it is doubtful whether the third and fourth terms have any real significance. Their relatively large value in certain months is probably due to petty irregularities in the curves not eliminated in the monthly mean.

The ratios c_2/c_1, c_3/c_1, and c_4/c_1 are given in Table VI.

In Table VII. are given particulars of the changes of level produced by heavy rain during the year 1901. The movements of the boom during the passage of a cyclone to the West of Mauritius from January 9–16th are shown graphically in Plate II. on which the register of the Pluviograph from January 11^d 19^h to 12^d 16^h is also reproduced.

TABLE I.—LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, during the YEAR 1901.

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.
		d	h m	h m	h m	″	h m	
455	143	January 7	0.52·2	1.40·0	1.46·6	1·28	3.18·8	
	144	„ 8	0.32·9	..	1.35·4 2.10·5	..	2.43·0	A long series of sensibly regular oscillations. No shocks are shown.
456	145	„ 8	20. 1·9	..	20. 7·9	0·07	20.18·4	
	146	„ 18	15.53·8	15.59·6	16. 0·5	0·02	16. 6·5	
	147	„ 20	0.13·1	..	0.39·9	0·10	0.43·3	
	148	„ 21	7.13·4	7.15·9	7.18·5	0·07	7.23·1	
	149	„ 31	12.26·1	..	12.27·7	..	12.31·1	Slight tremors occasionally throughout the day.
	150	Feb. 2	17.45·9	..	17.49·7	..	17.58·3	Thickening of trace.
	151	„ 3	22.29·2	..	..	..	22.32·0	Dislocation.
	152	„ 9	13.30·4	..	13.34·1	0·07	13.37·6	
	153	„ 11	21.19·6	..	..	..	21.28·3	Two slight thickenings of the trace.
	154	„ 14	5.24·9	5.28·2	5.32·5	0·15	?	Sheet changed at $5^h.50^m$.
468	155	„ 15	8.31·1	..	8.35·2	0·07	8.38·1	
	156	„ 16	2. 9·2	..	2.12·9	..	2.19·2	Thickening of trace.
	157	„ 16	6.58·9	7. 2·5	7. 4·8	0·09	7. 8·6	
	158	„ 20	10. 4·1	10.29·9	10.33·4 10.37·1	0·27 0·18	10.52·4	Tremors for several hours afterwards.
	159	„ 20	11.36·1 11.58·5	.. ..	11.37·0 12. 4·1	.. ..	11.41·7 12. 8·7	Isolated thickenings of the trace.
469	160	„ 27	0.57·4	..	1. 0·4	..	1. 5·5	
	161	March 3	15.40·0	..	..	..	16.18·8	Air tremors active all night. Several movements appear to be seismic.
471	162	„ 4	16.40·2	16.45·3	16.49·2	0·18	17.15·0	
472	163	„ 5	11. 5·4	12.37·9	12.47·1	0·21	13.30·8	
474	164	„ 16	12. 0·1	12. 3·6	12. 8·8	2·75	14. 5·5	Interval of preliminary tremors unusually short.
	165	„ 18	8	..	..	..	12	Frequent tremors, with occasional movements which appear to be seismic.
	166	„ 18	17.18·9	..	..	..	17.43·9	Several slight thickenings of the trace.
475	167	„ 19	0.10·2	..	0.20·6	..	1. 8·5	Thickening of the trace.
	168	„ 19	20.59·7	..	..	..	21.21·1	Several slight thickenings of the trace.
	169	„ 19	23.46·2	..	23.47·5	..	23.54·6	Slight thickening.
	170	„ 20	3.12·2	..	..	..	3.17·3	A few small, irregular movements.
	171	April 1	12.32·3	..	12.32·8	..	12.37·0	Slight movement, probably insect effect.
	172	„ 3	12.24·9 12.37·1	.. ..	12.26·1 12.37·5	.. ..	12.28·2 12.40·2	Very slight thickenings of the trace.
481	173	„ 3	16.11·6	..	16.14·7	..	16.22·2	Thickening of the trace.
483	174	„ 5	22.14·0	22.28·6	22.31·8	0·26	22.51·2	
485	175	„ 6	.. 13.12·7	.. ..	12.44·1 13.15·7	.. ..	.. 13.19·6	Isolated small thickenings of the trace.
486	176	„ 6	21.19·0	21.53·4	22.57·9	0·38	23.35·1	
	177	„ 6	23.28·3	..	..	..	..	
		„ 7	..	0.26·2	0.33·2	3·10	3.23·0	*See* Plate II.

TABLE I.—LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, during the YEAR 1901—*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.).	½ Amplitude.	End of Disturbance (G.C.T.).	Remarks.
			d	h m	h m	h m	″	h m	
	178	April	8	..	..	13.29·6	..	..	Slight thickening of the trace.
489	179	,,	9	22.24·0	..	22.26·9	..	22.31·9	,, ,, ,,
	180	,,	12	12.49·2	..	12.51·0	..	12.54·3	,, ,, ,,
	181	,,	14	..	..	11.12·8	..	..	,, ,, ,,
	182	,,	18	3.13·7	3.33·1	3.35·2	..	3.51·5	,, ,, ,,
	183	,,	23	19.59·6	..	..	..	20. 1·4	Probably insect effect.
	184	,,	27	4.21·6	4.27·4	4.28·3	..	4.45·1	
	185	,,	27	..	..	9.28.4	..	..	Probably insect effect.
	186	May	7	10.18·0 10.21·2 ..	..	..	..	10.18·9	Isolated thickening of the trace. Slight tremors lasted till $10^h.59·3^m$.
					..	10.22·9	..	10.40·1	
					..	10.23·5	..	..	
	187	,,	12	8.15·6	..	8.19·7	..	8.21·8	Slight thickening of the trace.
493	188	,,	14	7.15·6	7.49·2	7.52·4	..	9.17·8	
	189	,,	18	14. 5±	..	14. 7·3	..	14.13±	
	190	,,	19	15.40·0	..	15.43·1	..	15.50±	
	191	,,	21	1.38·0	..	1.43·1	0·17	1.50·3	
	192	June	2	1.26·7	1.39·0	1.42·0 1.45·4	..	1.49·2	Tremors continued for several hours afterwards.
	193	,,	9	19.54·1	..	..	..	20.12·5	Several vibrations.
502	194	,,	13	4.17·2	..	4.25·0	..	4.39·1	Thickening of the trace.
	195	,,	14	23.34·0	23.40·1	23.43·1	..	23.45·2	,, ,,
	196	,,	16	20. 8·1	..	20. 8·8	..	20. 9·6	,, ,,
	197	,,	19	9.48·2	..	..	..	9.50·3	,, ,,
	198	,,	23	21.20·8	..	21.28·5	0·09	21.30·2	Slight tremors until $21^h.35·1^m$.
505	199	,,	24	7.27·4	..	7.48·8	..	..	Preceded and followed by tremors.
	200	July	29	4.54·3	..	4.57·3	..	4.58·4	Tremors from $4\frac{1}{2}^h$ to $5\frac{1}{2}^h$.
513	201	Aug.	6	18.17·7	19. 4·5	19. 6·1	0·10	19.40±	
514	202	,,	9	9½	..	..	..	11¾	Maximum phase doubtful; instrument disturbed by insects.
515	203	,,	9	13.16·8	13.29·0	14. 1·6	1·48	..	*See* Plate II.
516	204	,,	9	19.±	19.26·4	19.30·5	0·86	..	
	205	,,	15	10	..	10.46·2 10.52·6 11. 3·1	..	12	Several thickenings of the trace.
	206	,,	16	9½	..	10. 8·9 10.10·9	..	10½	,, ,, ,,
521	207	,,	18	20	..	20.34·0	..	21	,, ,, ,,
523	208	,,	21	10.23·7	..	10.25·0 10.31·8 10.36·9	..	10.47·1	,, ,, ,,
	209	,,	29	3.53·7	4. 0·2	4. 1·8	0·35	..	Tremors for several hours afterwards.
						4. 3·1	0·26	..	
	210	,,	30	22. 8·6	22.26·8	22.34·0	0·26	22.53·3	
	211	Sept.	1	13. 1·5	..	..	..	13.11·7	Slight thickening of the trace.
	212	,,	3	..	..	4.12·0	..	..	Possibly due to air tremors.
	213	,,	7	1.26·7	..	..	..	1·33·0	Slight thickening of the trace.

TABLE I.—LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, during the Year 1901—*concluded.*

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.
			d	h m	h m	h m	"	h m	
529	214	Sept.	7	22½	..	..	..	..	Active tremors; several movements between $7^h.\ 23^m.$ and $7^h.\ 23\frac{1}{2}^m.$ look seismic.
		"	8	..	..	..	..	3½	
530	215	"	8	18. 0·4	18.39·5	18.45·4	1·12	..	Tremors for several hours afterwards.
	216	"	10	4.42·0	..	..	..	5½±	Sheet changed at $5^h.\ 40^m.$
	217	"	10	6.56·0	..	..	..	7.15·3	Several thickenings of the trace.
	218	"	15	21.17·0	..	21.21·6	0·19	21.39·5	
	219	"	16	15.15·2	..	..	..	15.42·0	Several thickenings of the trace.
	220	"	22	21.36·1	..	..	..	21.41·0	Thickening of the trace.
	221	"	24	8.12·6	..	8.24·7	0·30	..	
	222	"	28	16. 5·7	..	16. 8·0	0·27	16.12·8	Several isolated thickenings occurred between $16^h.\ 5{\cdot}7^m.$ and $17^h.\ 0{\cdot}5^m.$ Largest only are given.
						16. 9·0	0·27	..	
				16.36·1	..	16.39·0	..	16.40·8	
				16·40·8	..	16.41.9	..	16.45·2	
534	223	"	30	10·44·4	11.23·9	11.27·0	..	12.50·2	
	224	Oct.	3	..	..	4·55·2	..	..	Slight thickening of the trace.
						4·55·8	..	..	
536	225	"	8	3·34·0	..	3·59·6	0·33	5. 7·6	Seismic movements among frequent air tremors.
	226	"	8	23·51·3	..	23·55·7	0·33	23·59·4	
537	227	"	11	4.25·6	..	4.33·9	..	4.46·2	Several thickenings of the trace.
	228	"	17	0.25·8	..	0.30·8	..	0.36·7	Thickening of the trace.
541	229	"	17	1.44·1	..	2.14·0	..	2.25·8	
542	230	"	17	*..	6.20·8	6.24·1	0·33	6.48·3	
543	231	"	19	9.14·7	10.48·2	10.49·8	0·36	12.22·9	
	232	"	20	3.17·8	..	3.18·9	..	3.24·0	Thickening of the trace.
548	233	"	29	7.52±	8.31·5	8.39·1	0·26	8.41·1	Tremors for several hours afterwards.
	234	"	31	6. 9.6	6.39·2	6.46·3	..	7. 5·6	" " " "
	235	"	31	9¼	..	9.27·2	..	9¾	Several tremors.
	236	Nov.	3	12.50·4	..	12.51·9	..	12.57·5	Thickening of the trace.
552	237	"	8	11. 7·9	..	11.21·6	..	11.31·0	" "
	238	"	9	9.23·9	..	9.29·0	..	9.33·1	" "
	239	Dec.	2	14.48·8	..	14.51·4	..	14.53·4	" "
	240	"	5	17.43·3	18.10·1	18.14·2	0·15	18.30·0	
563	241	"	6	14. 8·6	14.27·9	14.44·5	0·55	15.57·4	
564	242	"	9	2.54·6	..	2.58·4	..	3.26.9	Thickening of the trace.
	243	"	13	22.23·5	..	22.27.7	..	22.29·6	" "
565	244	"	14–15	23. 9·2	23.18·4	23.40·9	0·44	1.57·0	
	245	"	16	16.51·6	..	16.55·2	..	17. 0·2	Thickening of the trace.
566	246	"	18	0·52·0	..	1. 1·7	..	1. 8·8	" "
568	247	"	24	..	..	21. 2·5	..	..	" "
	248	"	26	10.22·0	10.35·1	10.41·6	0·39	11.53·5	
570	249	"	31	6½±	..	..	..	8½±	Several thickenings; possibly air tremors.
571	250	"	31	9.21·0	9.32·0	10.44·3	..	12.21·9	

* Beginning masked by air tremors.

TABLE II.—DAILY RANGE and PROGRESSIVE CHANGE of LEVEL as recorded by the MILNE SEISMOGRAPH.

1901.

Day of Month.	January.		February.		March.		April.		May.		June.	
	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.
d	"	"	"	"	"	"	"	"	"	"	"	"
1	1·20	+0·32	1·30	−0·81	1·65	+0·33	1·02	−1·02	0·68	+0·03	0·61	+0·07
2	3·06	+0·84	1·16	−0·27	1·32	−0·30	0·93	−0·36	0·88	+0·27	0·44	+0·14
3	1·30	+1·12	1·00	−0·57	1·38	−0·42	1·13	+0·51	0·58	+0·34	0·33	−0·33
4	1·16	+1·10	0·70	−0·35	1·02	+0·18	1·45	+0·72	1·02	+0·37	0·77	+0·13
5	0·86	+0·42	0·90	−0·53	1·38	+0·57	0·87	−0·03	1·80	+0·99	0·60	−0·16
6	1·60	+0·86	1·16	−1·12	0·72	−0·27	1·19	+0·18	0·61	+0·41	1·11	+0·38
7	0·84	+0·48	1·23	−0·81	0·84	−0·66	0·70	+0·06	0·88	+0·54	0·71	+0·57
8	0·66	+0·62	1·30	−0·03	1·02	−0·15	1·07	..	0·34	+0·24	0·64	+0·23
9	1·36	+1·08	1·16	−0·45	0·99	−0·15	0·70	..	0·68	−0·48	0·45	−0·03
10	1·14	+0·86	1·65	−0·21	1·08	0·00	0·81	+0·24	0·82	+0·20	0·88	+0·16
11	0·96	+0·54	1·32	+0·21	1·41	+0·21	0·93	+0·15	0·68	+0·07	0·57	+0·34
12	..	+6·80	1·08	−0·06	1·53	−0·09	0·63	+0·27	0·75	+0·27	0·42	+0·01
13	..	−4·32	2·04	+0·27	1·65	+0·12	0·63	+0·06	0·51	+0·34	1·53	+0·30
14	..	−3·85	1·77	+0·81	2·73	+1·26	1·02	+0·03	0·75	−0·02	1·54	+0·67
15	..	−0·43	1·44	+0·24	1·39	0·00	0·69	+0·66	0·68	+0·34	1·32	+0·91
16	..	−5·40	1·38	+1·05	1·51	+0·42	0·87	+0·03	0·41	+0·34	1·42	+0·88
17	..	−0·52	1·41	+0·09	1·39	+0·90	1·05	+0·72	..	..	1·15	+0·83
18	..	−0·95	1·38	−0·30	0·70	+0·57	0·42	+0·30	0·85	+0·51	1·43	+0·67
19	2·32	−2·28	1·32	+0·12	1·42	+0·99	0·78	−0·09	1·22	+0·34	1·09	+0·23
20	1·82	−1·75	1·44	−0·39	0·97	+0·96	0·63	+0·48	0·99	+0·58	1·72	+0·62
21	1·26	−1·25	0·90	−0·12	0·72	+0·09	1·08	+0·42	0·58	+0·58	0·55	+0·55
22	0·94	−0·94	1·05	−0·84	0·64	+0·21	1·24	+0·45	0·31	+0·24	1·37	+0·69
23	1·42	−1·34	0·99	−0·72	1·19	−0·33	0·68	+0·33	0·24	+0·03	0·50	+0·40
24	1·47	−1·42	0·78	−0·27	0·90	+0·21	0·53	−0·42	0·27	+0·10	1·36	+0·73
25	..	+0·02	1·11	−0·24	0·58	−0·12	0·65	+0·24	0·27	+0·03	1·01	+0·49
26	..	−1·32	1·14	+0·39	0·52	−0·24	0·50	+0·30	0·41	+0·20	0·84	+0·53
27	..	−0·86	1·20	−0·45	1·89	−0·63	1·02	+0·21	0·31	0·00	1·05	+0·27
28	1·38	−1·24	1·23	+0·09	..	−9·18	0·62	+0·30	0·24	−0·03	0·69	+0·30
29	2·23	−2·02			..	−6·30	0·81	+0·12	0·10	+0·03	1·19	+0·42
30	1·32	−0·49			4·53	−4·53	0·50	+0·27	0·41	+0·10	0·58	+0·58
31	1·27	−0·81			2·13	−2·13			0·99	+0·37		

The register was either defective or incomplete on January 12–18, 25–27, March 28–29, May 17.

TABLE II.—DAILY RANGE and PROGRESSIVE CHANGE of LEVEL as recorded by the MILNE SEISMOGRAPH—*concluded.*

1901.

Day of Month.	July.		August.		September.		October.		November.		December.	
	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.	Daily Range of Level.	Progressive Change of Level.
d	″	″	″	″	″	″	″	″	″	″	″	″
1	0·59	+0·22	0·74	+0·66	0·85	+0·27	1·08	−0·21	0·94	0·00	0·75	+0·06
2	0·56	−0·11	0·74	+0·39	0·80	+0·27	1·08	+0·21	1·20	+ 0·10	0·75	+0·15
3	0·57	+0·43	0·59	+0·18	0·97	+0·27	1·01	+0·21	1·40	+ 0·78	1·95	+1·52
4	0·60	−0·38	0·77	−0·67	1·08	−0·38	0·94	+0·94	1·04	+ 0·10	1·20	+1·20
5	0·62	−0·15	0·53	−0·01	1·12	+0·33	1·06	+0·47	..	..	0·93	+0·75
6	1·22	+0·38	0·81	+0·81	0·67	+0·44	1·43	+0·73	..	..	1·48	+0·34
7	0·56	+0·42	0·94	−0·77	0·73	−0·38	0·69	−0·05	..	..	1·25	−0·34
8	0·53	−0·25	0·88	+0·22	1·12	+0·33	0·88	0·00	0·99	+ 0·15	1·03	−0·23
9	0·64	−0·41	..	..	0·66	+0·22	1·61	−0·05	1·53	+ 0·15	1·14	+0·11
10	0·52	−0·14	..	..	0·66	+0·05	0·78	−0·26	1·27	+ 0·57	1·25	−0·23
11	0·69	+0·03	..	..	1·48	+0·38	0·94	−0·10	15·18	−15·18	1·82	0·00
12	0·43	−0·13	..	..	0·77	+0·76	0·83	−0·10	2·86	− 2·86	1·01	+0·16
13	1·02	+0·35	0·77	0·00	0·92	+0·55	1·56	+0·63	0·41	− 0·36	0·86	−0·12
14	1·09	+0·43	1·24	+0·64	1·08	+0·05	0·94	+0·37	..	..	1·33	+0·16
15	0·63	+0·63	1·24	+0·82	0·32	+0·77	1·20	+1·05	..	..	1·09	+0·35
16	0·36	−0·11	1·18	+0·18	..	..	0·78	+0·16	..	..	0·90	+0·66
17	0·49	−0·35	1·12	+0·41	0·90	−0·27	0·57	+0·37	..	..	1·14	+0·23
18	0·57	+0·29	1·83	+0·94	1·17	+0·05	1·04	+0·26	..	..	1·29	+0·38
19	0·80	+0·31	1·18	−0·41	1·04	−1·04	0·99	+0·31	..	..	0·99	0·00
20	0·59	+0·27	1·00	−0·18	1·48	−0·60	1·04	+0·31	..	..	0·80	+0·46
21	0·73	+0·42	1·83	+0·70	1·43	+0·22	0·62	−0·26	..	..	1·41	+0·61
22	0·63	−0·41	1·87	−1·87	1·06	+0·44	1·40	+0·42	..	..	1·37	+0·11
23	0·55	−0·41	0·81	+0·64	1·11	−0·11	0·99	0·00	..	..	0·87	+0·08
24	0·73	−0·21	1·16	+0·58	1·30	+0·44	1·30	0·00	..	..	1·22	+0·04
25	1·05	−0·78	0·58	−0·06	1·03	+0·49	1·20	−0·47	0·59	− 0·25	1·22	+0·27
26	0·49	−0·27	1·57	+0·53	0·81	+0·60	0·83	+0·78	0·69	− 0·20	1·06	+0·08
27	0·45	−0·06	1·22	+1·17	0·92	−0·05	1·09	+0·26	0·98	+ 0·10	1·14	+0·34
28	0·76	+0·28	0·99	+0·58	1·08	−0·11	1·20	+0·26	1·22	0·00	1·22	+0·04
29	0·24	+0·24	0·64	+0·58	1·51	0·00	0·99	+0·47	0·54	− 0·25	1·29	+0·42
30	1·41	+0·45	1·04	+0·41	1·46	+0·05	0·99	+0·10	..	..	2·43	−1·52
31	1·54	+1·01	0·99	+0·29			0·73	−0·31			0·80	−0·80

The register was either defective or incomplete on August 9–12, September 16, November 5–7, 14–24, 30.

TABLE III.—MONTHLY MEAN DIURNAL VARIATION of LEVEL, as derived from the PHOTOGRAPHIC RECORDS of a MILNE SEISMOGRAPH (Horizontal Pendulum) during the YEAR 1901.

(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	0·761	0·972	0·747	0·506	0·288	0·435	0·407	0·550	0·718	0·740	0·746	0·748	0·634
1h	0·793	1·050	0·805	0·529	0·300	0·464	0·435	0·589	0·748	0·771	0·815	0·826	0·677
2	0·844	1·115	0·865	0·559	0·329	0·488	0·457	0·637	0·765	0·806	0·869	0·922	0·721
3	0·889	1·201	0·952	0·592	0·358	0·526	0·484	0·666	0·810	0·843	0·837	0·962	0·759
4	0·871	1·187	0·990	0·648	0·396	0·549	0·495	0·672	0·807	0·750	0·743	0·873	0·748
5	0·739	1·007	0·898	0·594	0·365	0·541	0·489	0·661	0·729	0·666	0·683	0·767	0·678
6	0·652	0·884	0·797	0·543	0·339	0·519	0·467	0·601	0·656	0·598	0·588	0·681	0·610
7	0·558	0·715	0·672	0·434	0·271	0·436	0·398	0·501	0·481	0·446	0·477	0·532	0·493
8	0·444	0·533	0·490	0·316	0·192	0·335	0·317	0·348	0·301	0·274	0·284	0·343	0·347
9	0·325	0·382	0·343	0·231	0·123	0·248	0·242	0·246	0·243	0·208	0·199	0·276	0·255
10	0·214	0·251	0·233	0·130	0·055	0·161	0·160	0·143	0·175	0·134	0·149	0·155	0·163
11	0·111	0·140	0·142	0·066	0·040	0·085	0·095	0·079	0·068	0·098	0·114	0·102	0·094
Noon	0·037	0·048	0·079	0·020	0·007	0·027	0·027	0·034	0·021	0·047	0·038	0·045	0·035
13h	0·000	0·000	0·007	0·000	0·000	0·000	0·000	0·000	0·000	0·000	0·000	0·000	0·000
14	0·038	0·009	0·000	0·033	0·022	0·020	0·033	0·083	0·092	0·078	0·095	0·076	0·048
15	0·118	0·094	0·084	0·091	0·037	0·071	0·068	0·152	0·139	0·179	0·190	0·147	0·114
16	0·214	0·195	0·139	0·147	0·071	0·100	0·107	0·193	0·167	0·260	0·256	0·232	0·173
17	0·297	0·302	0·233	0·197	0·112	0·146	0·142	0·235	0·212	0·323	0·294	0·313	0·233
18	0·410	0·429	0·319	0·271	0·138	0·190	0·180	0·284	0·267	0·331	0·300	0·369	0·290
19	0·489	0·544	0·411	0·330	0·156	0·254	0·242	0·375	0·427	0·436	0·395	0·483	0·378
20	0·568	0·640	0·486	0·374	0·184	0·297	0·275	0·436	0·523	0·497	0·518	0·524	0·443
21	0·620	0·735	0·553	0·413	0·217	0·334	0·318	0·479	0·536	0·575	0·600	0·637	0·501
22	0·669	0·813	0·616	0·456	0·248	0·355	0·336	0·499	0·598	0·614	0·600	0·650	0·537
23	0·711	0·896	0·687	0·480	0·266	0·386	0·358	0·505	0·639	0·632	0·651	0·647	0·571
Mean -	0·474	0·589	0·477	0·327	0·188	0·290	0·272	0·374	0·422	0·429	0·435	0·471	0·396

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, 1901.	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4
	″	″	″	″	″	″	″	″
January -	+0·3669	+0·1466	−0·0696	+0·0087	−0·00746	+0·01839	−0·01450	−0·00664
February -	+0·4861	+0·2457	−0·0745	+0·0369	−0·02566	+0·01755	−0·01029	−0·01335
March - -	+0·3614	+0·2404	−0·0818	+0·0252	−0·02311	−0·00055	+0·00233	−0·01458
April - -	+0·2478	+0·1246	−0·0714	+0·0117	−0·00803	−0·00995	−0·00029	−0·01032
May - -	+0·1425	+0·0901	−0·0445	+0·0164	−0·00459	−0·01120	+0·00362	−0·00714
June - -	+0·1970	+0·1457	−0·0632	+0·0015	+0·00040	−0·00723	−0·00037	−0·00209
July - -	+0·1787	+0·1295	−0·0541	−0·0015	+0·00372	−0·00272	−0 00346	−0·00180
August -	+0·2645	+0·1274	−0·0803	+0·0203	−0·00614	−0·01628	−0·00892	−0·00130
September -	+0·3461	+0·1451	−0·0508	+0·0341	−0·02011	−0·01250	−0·00650	−0·00419
October -	+0·3476	+0·1029	−0·0447	+0·0531	−0·00514	+0·00908	−0·00912	−0·01220
November -	+0·3547	+0·1141	−0·0317	+0·0552	−0·00126	+0·00604	−0·01637	−0·00267
December -	+0·3780	+0·1471	−0·0660	+0·0534	−0·02229	+0·01692	−0·01929	−0·00238
For the Year -	+0·3059	+0·1466	−0·0611	+0·0263	−0·00995	+0·00055	−0·00733	−0·00065

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, 1901.	c_1	α	c_2	β	c_3	γ	c_4	δ
	″	° ′	″	° ′	″	° ′	″	° ′
January -	0·395	13. 1	0·0701	166.43	0·0198	172.18	0·0159	24.34
February -	0·545	9. 8	0·0831	188.16	0·0311	144.13	0·0169	1.25
March - -	0·434	1. 1	0·0856	176.23	0·0231	102.35	0·0148	309.29
April - -	0·277	5.49	0·0724	164.19	0·0128	46.27	0·0103	311.40
May - -	0·169	359.16	0·0475	173.27	0·0121	27. 4	0·0080	279.26
June - -	0·245	356. 2	0·0632	156.23	0·0072	4.23	0·0021	320.12
July - -	0·221	357.52	0·0541	156. 0	0·0046	317.37	0·0039	17.39
August -	0·294	7.42	0·0828	171. 0	0·0174	30.54	0·0090	35.22
September	0·375	10.55	0·0612	191.15	0·0237	69. 7	0·0077	11.51
October -	0·362	12.29	0·0695	197.51	0·0104	168.16	0·0152	332.41
November -	0·373	10.55	0·0637	207.37	0·0062	164.29	0·0166	15.44
December -	0·406	10. 6	0·0849	191.42	0·0280	131.19	0·0194	28.26
For the Year -	0·339	6.51	0·0665	178.14	0·0100	100.30	0·0074	34.43

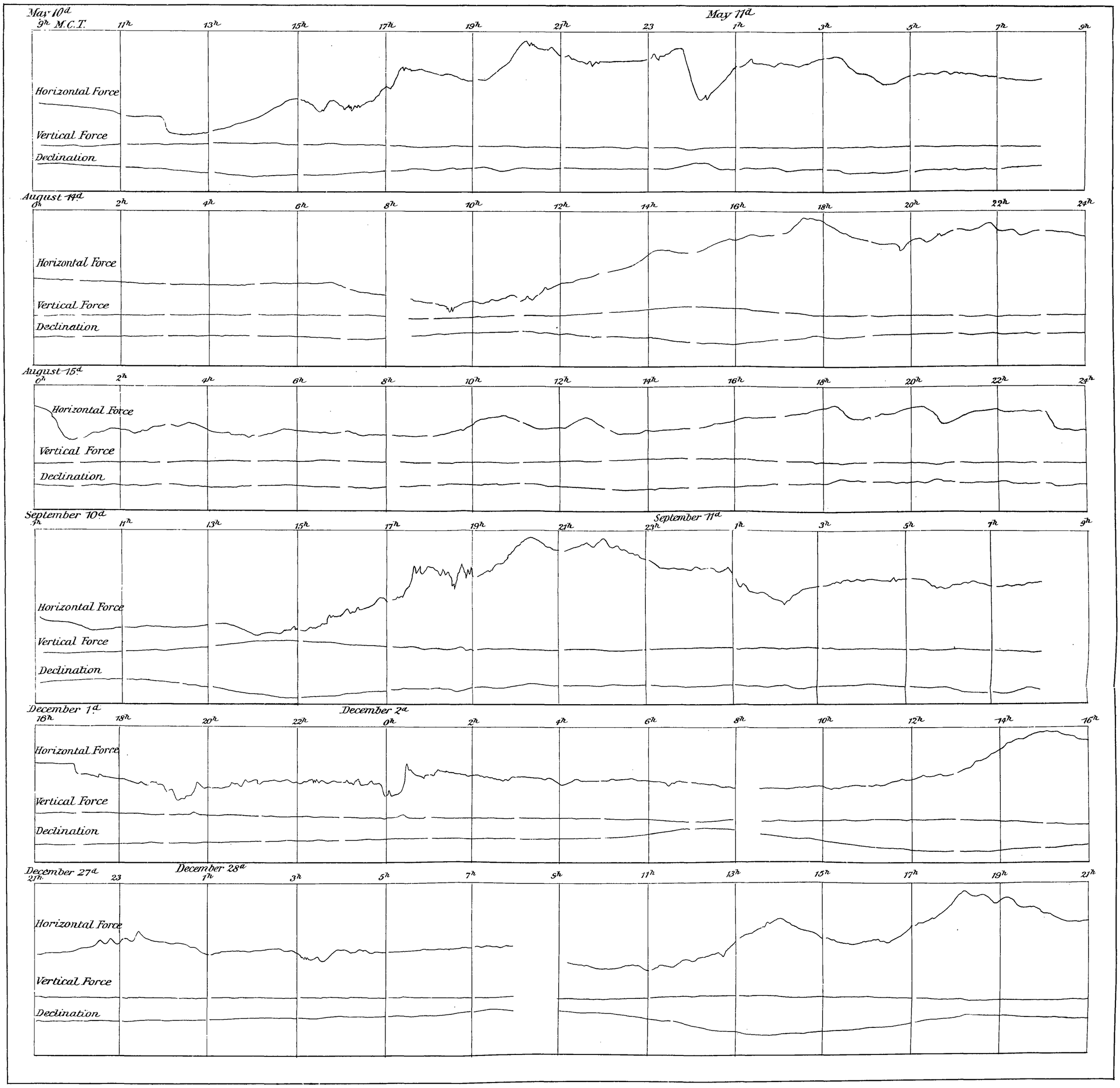
TABLE VI.—RATIO of the CO-EFFICIENT c_1 to the CO-EFFICIENTS c_2, c_3, and c_4, in each MONTH and for the YEAR.

——	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	For the Year.
c_2/c_1 - -	·177	·152	·197	·262	·283	·258	·245	·282	·163	·192	·171	·209	·196
c_3/c_1 - -	·050	·057	·053	·046	·072	·029	·021	·059	·063	·029	·017	·069	·029
c_4/c_1 - -	·040	·031	·034	·037	·048	·009	·018	·030	·021	·042	·045	·048	·022

RAINFALL and CHANGES of LEVEL at the ROYAL ALFRED OBSERVATORY, MAURITIUS, during the YEAR 1901.

Rainfall. From	Rainfall. To	Rainfall. Amount.	Corresponding change of Level.
d h m	d h m	ins.	
January.			
2.17.40	2.19.30	0·39	Westerly movement (1″·10) from $17^h.30^m$ to 21^h: (0″·52) of the movement occurred between $18^h.30^m$ and 19^h.
6.22. 5	6.22.40	0·30	Westerly movement (0″·24) with superposed tremors between $22^h.5^m$ and $22^h.35^m$.
12. 5. 0	13.13. 0	12·22	*See* Plate II.
(Cyclone to West of Mauritius.)			
25. 8. 0	25. 8.15	0·20	Westerly tilt (2″·36) from $25^d.8^h.0^m$ to $9^h.20^m$ with large tremors.
25.10. 0	25.21.30	2·84	Westerly tilt (5″·43) from $13^h.5^m$ to $13^h.50^m$. Large tremors from 9^h to 14^h.
Very heavy between			
25.13. 5	25.13.15	0·44	
February.			
21.12. 0	21.13.10	0·40	A westerly movement (0″·18) from $12^h.12^m$ to 22^m. Tremors commenced at $13^h.45^m$, and lasted until $8^h.20^m$, very active between $15^h.20^m$ and $17^h.40^m$. An easterly tilt (0″·87) occurred between $15^h.0^m$ and $16^h.5^m$.
21.14.30	21.16.25	0·55	
March.			
6.12.50	6.13.50	0·44	Westerly waves (0″·03) and (0″·24) from $12^h.52^m$ to $13^h.8^m$ and $12^h.55^m$ to $14^h.4^m$, the latter with small superposed tremors.
7.15.35	7.16. 0	0·19	A double wave (— 0″·06 to + 0″·06) between $15^h.34^m$ and $15^h.37^m$.
11. 1.40	11. 1.50	0·35	A westerly tilt (0″·36) from $1^h.50^m$ to $2^h.20^m$.
20.12. 0	20.12.50	0·28	Westerly wave (0″·06) from $8^h.40^m$ to $8^h.45^m$, followed by tremors till $17^h.30^m$.
20.17. 0	20.18. 0	0·16	
21.17. 5	21.19. 0	0·33	Tremors between $17^h.48^m$ and $18^h.2^m$.
27.12.45	27.19. 0	1·65	A westerly tilt (0″·23) from $12^h.50^m$ to $13^h.15^m$. Tremors between $14^h.40^m$ and $17^h.40^m$. Long smooth easterly wave (0″·06) from $18^h.20^m$ to $21^h.20^m$.
28. 0.20	28. 1.40	1·10	An easterly tilt (9″·69) from $28^d.1^h.23^m$ to $29^d.5^h.25^m$. The tilt was most rapid at commencement, (1″·16) between $1^h.23^m$ and $1^h.38^m$. The steady tilt to eastward was checked by this heavy shower, and a westerly tilt (0″·23) occurred between $6^h.25^m$ and $6^h.50^m$; after which a further easterly tilt (12″·32) occurred and lasted until $31^d.17^h$. Tremors occurred from $29^d.10^h$ to 16^h and $31^d.11\frac{1}{2}^h$ to 12^h.
28. 3.10	28.11. 0	0·60	
29. 6.25	29. 6.50	0·55	
April.			
1.12.15	1.12.20	0·30	Westerly wave (0″·09) from $12^h.17^m$ to $12^h.40^m$.
1.14.10	1.14.40	0·50	Westerly wave (0″·12) from $14^h.20^m$ to $15^h.20^m$.
8.22. 0	8.22.45	0·60	Westerly wave (0″·30) from $22^h.0^m$ to $22^h.50^m$.
15.13.25	15.14.10	0·20	Westerly tilt (0″·15) from $13^h.30^m$ to $13^h.40^m$.
15.17.25	15.18. 0	0·39	Westerly tilt (0″·09) from $17^h.30^m$ to $18^h.10^m$.
May.			
29.11.40	29.12. 5	0·40	Westerly tilt (0″·09) from $11^h.42^m$ to $11^h.52^m$.
29.18. 0	29.20.30	0·80	Gradual easterly tilt (0″·24) $18^h.25^m$ to $19^h.0^m$.
July.			
16. 0.10	16. 3. 0	0·45	Tremors and undulations from $0^h.20^m$ to $6^h.10^m$.
November.			
11.11.15	11.15.40	2·70	Easterly tilt (17″·34) from $11^d.11^h.50^m$ to $12^d.9^h$: (7″·65) of which occurred between $11^d.13^h.0^m$ and $11^d.15^h.30^m$.
December.			
2.13.10	2.13.55	0·20	The usual diurnal tilt to eastward was checked at $13^h.40^m$, and a very slight tilt to west followed until $14^h.40^m$.
3. 9.30	3.11.40	0·40	Gradual westerly tilt (0″·21) from $9^h.40^m$ to $12^h.30^m$.
3.19.30	4.11. 0	0·55	Gradual westerly tilt (1″·26) from $3^d.20^h$ to $4^d.9^h$.
4.20.30	4.22.20	0·55	Slight westerly tilt from $4^d.21^h.0^m$ to $21^h.30^m$.
5. 7.25	5. 7.50	0·18	Westerly wave (0″·09) from $7^h.40^m$ to $8^h.15^m$ with slight tremors between $7^h.40^m$ and $7^h.55^m$.
20. 3.45	20. 5.35	0·40	Westerly tilt (0″·38) from $3^h.50^m$ to $4^h.20^m$.
30. 9.15	30.13.20	1·05	Gradual easterly tilt (1″·71) from $11^h.20^m$ to $15^h.20^m$.

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS, DURING THE YEAR 1901.



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

1 Millimetre of ordinate = 1·7″ in Declination; 0·000027 c.g.s. unit in Horizontal Force; 0·000071 c.g.s. unit in Vertical Force.

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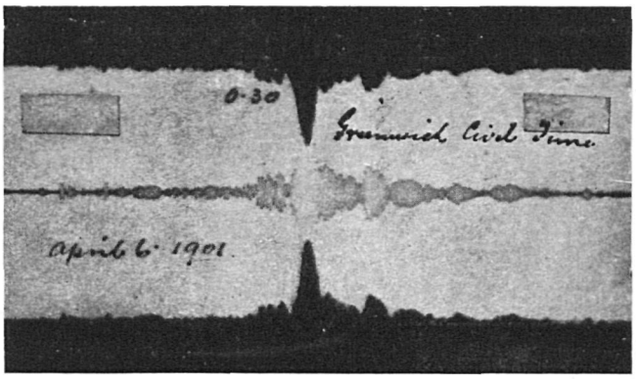
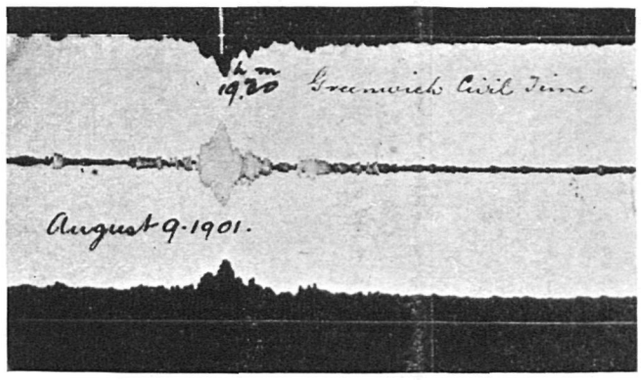
PLATE II.

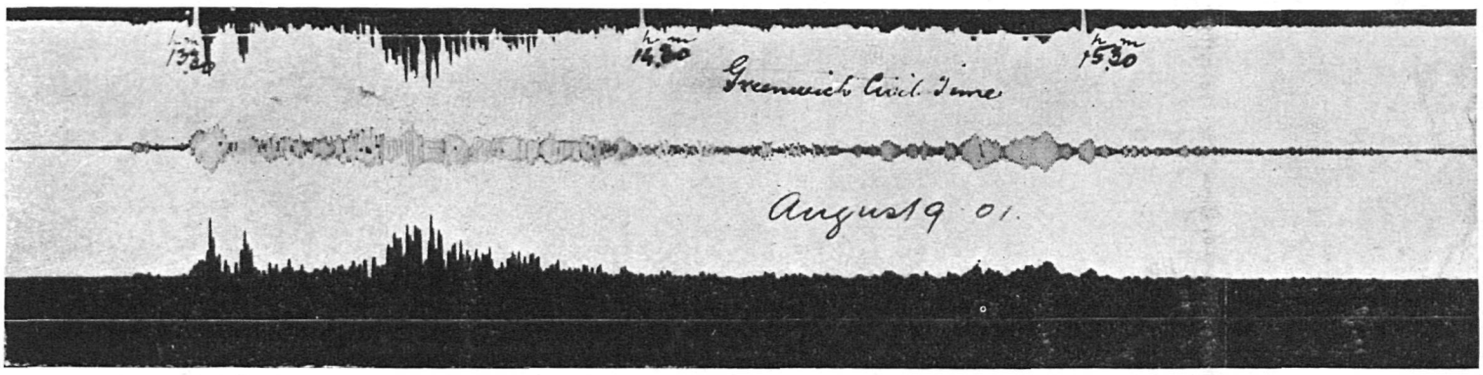
REGISTERS OF EARTHQUAKES, AND OF EARTH TILTS DURING HEAVY RAIN IN THE YEAR 1901, AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS.



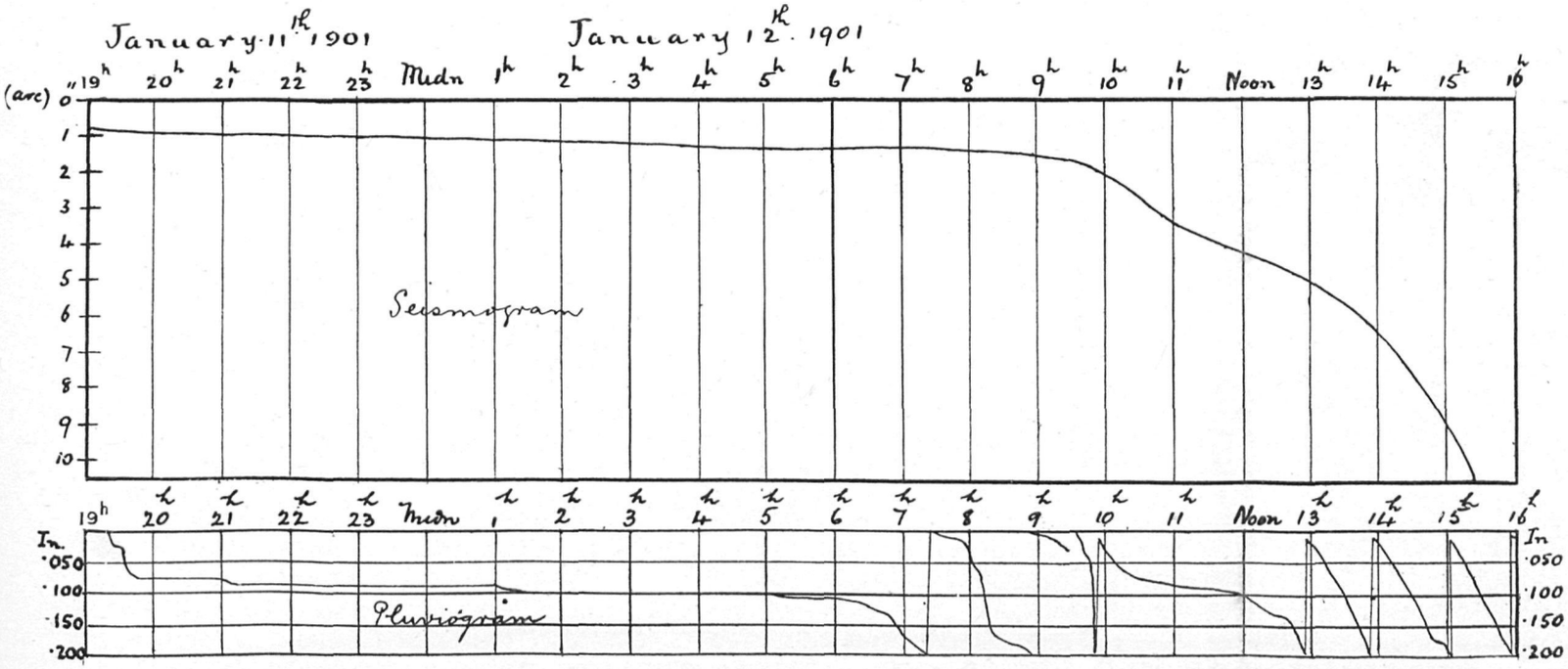
1 millimetre of ordinate = 0″·29.



1 millimetre of ordinate = 0″·14.



1 millimetre of ordinate = 0″·14.



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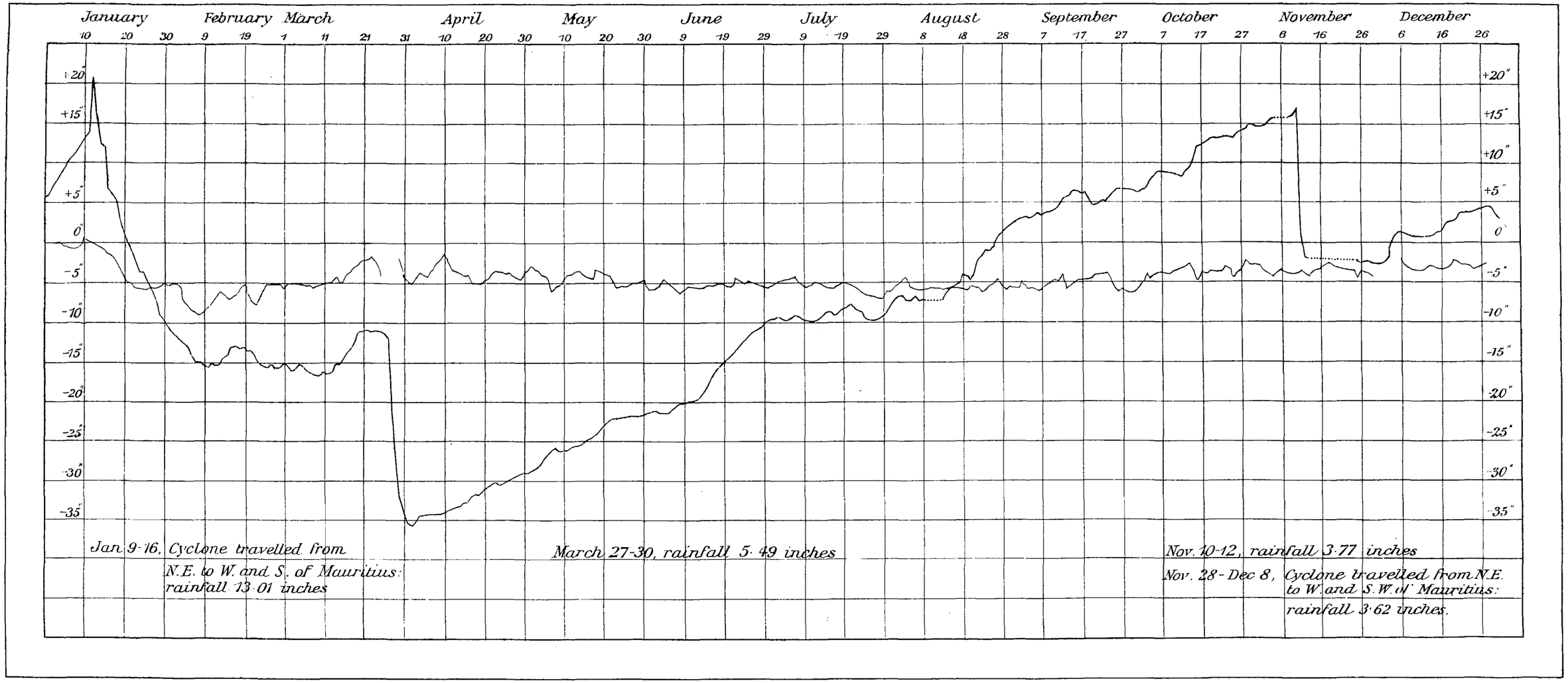
CHANGES IN THE VERTICAL AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS, DURING THE YEAR 1901, AS SHOWN BY THE RECORDS OF THE MILNE SEISMOGRAPH (BLACK INK) AND OBSERVATIONS OF THE LEVEL OF THE TRANSIT-INSTRUMENT, (RED INK)



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