RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

MADE AT

THE ROYAL ALFRED OBSERVATORY, MAURITIUS,

IN THE YEAR

1903.

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1903

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INDEX.

PAGE.

INTRODUCTION :

POSITION OF THE OBSERVATORY BUILDINGS AND INSTRUMENTS.

Situation iii
The Main Building iii
The Magnetic Observatory iv
The Magnetic Pavilion iv
The Photoheliograph Dome and Thermograph Screen v
The Seismograph Room v
The Actinometer Hut v
Enclosure for Thermometers v

ROUTINE WORK OF THE OBSERVATORY AND STAFF vi

MAGNETIC INSTRUMENTS :

UNIFILAR INSTRUMENT vii

Mounting : Tripod stand : mirror vii
Instrumental Constants vii
Method of making Absolute Observations of Horizontal Force and Declination viii
Azimuth of the Magnetic Mark viii

DIP INSTRUMENT ix

Method of making Observations of Dip ix

MAGNETOGRAPHS. ix

Installation ix
Attempts to create a Vacuum under the Glass Shades covering the Magnets ix
Adjustment of the Magnets ix
Angular Value of 1 Division of the Scales and 1 Millimetre of the Ordinates x
Value of 1 Millimetre of Horizontal Force and Vertical Force Ordinates in Metric Measure (C.G.S. Unit) x
Sensibility of Horizontal Force Magnetometer increased xi
Temperature Coefficient of the Horizontal Force and Vertical Force Magnets xi

MAGNETIC REDUCTIONS :

Method of Standardising the Photographic Records xi
Dislocation produced by strengthening the Declinometer Pillar xi
Probable Error of a Single Determination of Declination and Horizontal Force . . . xii
Computation of Vertical Force and Total Force xii
Method of deducing the Diurnal Variation of Magnetic Declination, Horizontal Force and Vertical Force : Days of Magnetic Disturbance xii
Mean Daily Values of Magnetic Declination and Horizontal Force xiii
Daily Range of Magnetic Declination, Horizontal Force and Vertical Force xiii
Description of Magnetic Disturbances xiii

INDEX.

PAGE.

INTRODUCTION—*continued.*

METEOROLOGICAL INSTRUMENTS :

SELF-RECORDING INSTRUMENTS . . . . . *xiii*

STANDARD BAROMETER . . . . . *xiii*

Its Position : its Corrections . . . . . *xiii*
Comparison with Kew Standard . . . . . *xiv*

DRY AND WET BULB THERMOMETERS . . . . . *xiv*

Thermometers in Thermograph Screen . . . . . *xiv*
In the Principal Computing Room . . . . . *xiv*
In a Stevenson Screen . . . . . *xiv*

RADIATION THERMOMETERS . . . . . *xv*

EARTH THERMOMETERS . . . . . *xv*

COMPARISON OF THERMOMETERS . . . . . *xv*

RAIN GAUGES . . . . . *xvii*

EVAPOROMETER . . . . . *xvii*

OZONOMETER . . . . . *xvii*

SUNSHINE RECORDER . . . . . *xvii*

ACTINOMETER . . . . . *xviii*

METEOROLOGICAL REDUCTIONS :

Method of Standardising the Measures of the Photographic Records . . . . . *xviii*
Daily Results of the Meteorological Elements . . . . . *xviii*
Weather Notation . . . . . *xix*
Monthly Results of Meteorological Elements . . . . . *xix*
Highest and Lowest Barometer Readings . . . . . *xix*
Monthly Mean Values of the Meteorological Elements at each Hour of the Day . . . *xix*
Changes in the Direction of the Wind . . . . . *xix*
Method of Reducing Actinometric Observations . . . . . *xx*
Rainfall at Various Stations. . . . . . *xxi*

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS :—

RESULTS OF MAGNETICAL OBSERVATIONS.

TABLE I.—Determinations of Magnetic Declination . . . . . (ii)

TABLE II.—Determinations of Horizontal Magnetic Force . . . . . (iv)

TABLE III.—Results of Observations of Magnetic Dip . . . . . (vi)

TABLE IV.—Mean Monthly Values of Magnetic Dip . . . . . (viii)

TABLE V.—Mean Monthly Values of Magnetic Declination, Horizontal Force, Vertical Force, and Total Force . . . . . (viii)

TABLE VI.—Mean Magnetic Declination West for each Civil Day . . . . . (ix)

TABLE VII.—Monthly Mean Diurnal Inequality of Magnetic Declination West . . . . (ix)

PAGE.

RESULTS OF MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.—*concluded.*

TABLE VIII.—Mean Horizontal Magnetic Force for each Civil Day . . . . . (x)

TABLE IX.—Monthly Mean Diurnal Inequality of Horizontal Magnetic Force . . . . (x)

TABLE X.—Mean Temperature for each Civil Day within the Glass Shade covering the Horizontal Force Magnet . . . . . (xi)

TABLE XI.—Monthly Mean Diurnal Inequality of Vertical Magnetic Force . . . . . (xi)

TABLE XII.—Diurnal Range of Magnetic Declination, Horizontal Force and Vertical Force . . (xii)

TABLE XIII.—Monthly Mean Temperature at 7^h, 10^h, 13^h 16^h and 23^h within the Glass Shades covering the Horizontal Force and Vertical Force Magnets . . . . . (xii)

TABLE XIV.—Hourly Variations of Horizontal Magnetic Force, above or below the Mean for the Month, on Days of Magnetic Disturbance . . . . . (xiv)

MAGNETIC DISTURBANCES.

Brief Description of Magnetic Disturbances in Declination, Horizontal Force and Vertical Force . (xv)

RESULTS OF METEOROLOGICAL OBSERVATIONS :

Daily Results of Meteorological Observations . . . . . (xviii)
Monthly Results of the Meteorological Elements . . . . . (xlii)
Monthly Normals of the Meteorological Elements and Extreme Values . . . . . (xliii)
Highest and Lowest Readings of the Barometer . . . . . (xliv)
Monthly Mean Barometric Pressure at every Hour of the Day . . . . . (xlv)
Monthly Mean Diurnal Inequality of Barometric Pressure, 1875-1900 . . . . . (xlv)
Monthly Mean Temperature of the Air at every Hour of the Day . . . . . (xlvi)
Monthly Mean Temperature of Evaporation at every Hour of the Day . . . . . (xlvi)
Monthly Mean Temperature of the Dew Point at every Hour of the Day . . . . . (xlvii)
Monthly Mean Degree of Humidity at every Hour of the Day . . . . . (xlvii)
Monthly Mean Elastic Force of Vapour at every Hour of the Day . . . . . (xlviii)
Total Amount of Sunshine registered in each Hour of the Day in each Month . . . . (xlviii)
Total Amount of Rain collected in each Hour of the Day in each Month . . . . . (xlix)
Duration of Rainfall in each Hour of the Day in each Month . . . . . (xlix)
Monthly Mean North and East Components of the Wind at every Hour of the Day . . . (l)
Monthly Mean Direction of the Wind at every Hour of the Day as derived from the North and East Components . . . . . (li)
Monthly Mean Velocity of the Wind at every Hour of the Day as derived from the North and East Components. . . . . (li)
Monthly Mean Velocity of the Wind at every Hour of the Day as recorded by the Beckley Anemograph . . . . . (lii)
Number of Hours of Prevalence of each Wind referred to Different Points of Azimuth . . (lii)
Comparison of Thermometers under Different Exposures . . . . . (liii)
Abstract of the Changes in the Direction of the Wind . . . . . (liv)
Actinometric Observations . . . . . (lvi)
Approximate Altitudes of Rainfall Stations above Mean Sea-level and the Names of the Observers . (lvii)
Monthly and Yearly Rainfall at Various Stations in Mauritius . . . . . (lviii)

APPENDIX.—RESULTS OF SEISMOLOGICAL OBSERVATIONS.

PLATES.

ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

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1903.

MAURITIUS MAGNETICAL AND METEOROLOGICAL OBSERVATIONS,

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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·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 874 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 2,685 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 to which a balcony was added in the years 1878, 1881, and 1882. In December, 1902, the balcony was mosquito-proofed with wire-gauze.

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. The latter contains the Standard barometer, self-registering maximum and minimum thermometers and a mean solar clock, Dent No. 1686, which is fixed to the northern wall. There are also two mean solar chronometers, Kullberg No. 3,400

and Webster No. 925, for magnetic and actinometric observations and for use with the photo-heliograph ; 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.

A Dine's Pressure Tube Anemometer was mounted 5 feet above the South Dome in November, 1902.

The Magnetic Observatory, which was completed in the year 1874, is situated 180 feet 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 105 feet 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 feet below the surface.

In the year 1875 a small wooden building for absolute magnetic observations was erected 240 feet to the north-west of the Main Building, and 180 feet 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 conveniently be 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 November 1901 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 48 feet 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 120 feet 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 30 feet to the south-south-west of the above enclosure, and the Glaisher rain gauge 96 feet 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 ; since November, 1902, automatic records of the pressure of the wind have been obtained with a Dine's Pressure Tube anemometer. 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, 15^h and 21^h Mauritius Civil Time ; (and also at 0^h from July 1) ; 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 two earth thermometers whose bulbs are at distances of 5·2 feet and 10 feet, respectively, below the surface. 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 is dropped by hand daily, except on Saturdays, Sundays 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 abstracts of the principal results for each month are forwarded to various observatories in different parts of the world. 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 Botanic 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 60 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 1903 the Staff consisted of Mr. A. Walter, F.R.A.S. Chief Assistant, Mr. A. N. Figon, Second Assistant, with usually five extra assistants.

§ III.—*Magnetic Instruments.*

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

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

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

Correction for Graduation of Deflection Bar.

Correction at 30 cms. = + 0·0027 cms. at 17° Centigrade.

" " 45 " = + 0·0052 " " "

In the Deflection apparatus ... ... 1 scale division = 1′·01.

In the Vibration magnet (24 C.) ... ... " = 1′·85.

In the Declination magnet (24 B) ... ... " = 1′·81.

For Deflecting Magnet (24 A).

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

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

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 centimetre.

The value of P in the expression $P = (A_1 - A_2)\Big/\left(\frac{A_1}{r_1^2} - \frac{A_2}{r_2^2}\right)$ is obtained from a table giving the values of P, $\log\left(1 - \frac{P}{r_1^2}\right)$ and $\log\left(1 - \frac{P}{r_2^2}\right)$ for different values of $(\log A_1 - \log A_2)$, when $\log A_1 = 3{\cdot}53$. The small deviations from this quantity in the observed values of $\log A_1$ give rise to no appreciable error.

The practice of using mean annual values of P was discontinued at the end of the year 1902, and beginning with January 1903, monthly values have been adopted, the mean monthly values being smoothed by the formula : $b' = (a + 2b + c)/4$. This change was made

as the observations indicated real variations in the value of P. There is the further advantage that with the new method the reductions are only delayed one month : formerly they could not be completed until the end of the year.

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 1903 are as follows :—

Date.		Number of Observations.	Name of Star.	Azimuth of Mark (West).	Date.		Number of Observations.	Name of Star.	Azimuth of Mark (West).
1903	d			′ ″	1903	d			′ ″
January ...	5	6	δ′ Apodis S.P. ...	1. 7·2	March ...	31	4	σ Octantis S.P. ...	1.22·7
	5	2	5412 B.A.C. S.P.	1.13·1		31	5	ζ Octantis S.P. ...	1.20·8
	9	3	δ′ Apodis S.P. ...	1.13·3		31	4	B Octantis S.P. ...	1.22·4
	10	6	z Octantis S.P. ...	1. 8·1					
	10	4	δ′ Apodis S.P. ...	1.11·4	May ...	13	5	τ Octantis S.P. ...	1.22·3
					July ...	31	6	5412 B.A.C. U.C.	1.19·1
February ...	11	5	χ Octantis S.P. ...	1.16·7	September	9	2	χ Octantis U.C. ...	1. 9·0
	11	6	σ Octantis S.P. ...	1.18·6		21	1	δ′ Apodis S.P. ...	1.15·5
					October ...	14	4	θ Chameleontis S.P.	1. 9·2
March ...	15	5	σ Octantis S.P. ...	1.20·7					
	15	4	3274 Lacaille U.C.	1.15·1		14	9	ζ Octantis S.P. ...	1.10·2

The observations are plotted and a smooth curve drawn, from which adopted values of the azimuth are read off at the times of absolute determinations of declination.

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 1901 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 of 1 millimetre of ordinate. The scales are arcs of circles the centres of which are respectively the mirrors of the declination magnet, the horizontal force magnet, and the vertical force magnet. They are each 254 millimetres long, and are divided into 500 divisions.

Magnetometer.	Distance from Back of Mirror.	
	To Scale.	To Surface of Cylinder.
	m.m.s.	m.m.s.
Declination	1,100	1,539
Horizontal Force	1,163	1,547
Vertical Force	1,646	1,524

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	47·6	1.7·0	·711
Horizontal Force	45·1	1.6·7	·676
Vertical Force	31·8	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 1903 are as follows :—

Date 1903.	Value of 1 Millimetre of Ordinate (C.G.S. Unit).	
	Horizontal Force.	Vertical Force.
d		
January 13	0·0000292	0·0000399
February 3	0·0000294	...
February 28	...	0·0000360
April 3	...	0·0000357
May 13	0·0000293	0·0000356
June 16	...	0·0000393
June 29	...	0·0000416
August 12	...	0·0000403
September 5	...	0·0000373
September 16	0·0000294	...
October 15	...	0·0000375
November 11	0·0000291	...

The Vertical Force magnet was adjusted on February 10, and June 16.

For converting the scale values into absolute units 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, though differing considerably from that obtained in the year 1897 by artificially heating the magnet and noting the changes of scale reading produced thereby, has been used in the horizontal force reductions since 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 small irregularities due to errors of observation ; daily values are then interpolated. These combined with the mean daily ordinates give the absolute value of the element for each day (Tables VI and VIII).

The adopted monthly values of the base line given in Tables I and II are the means of daily values.

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 for the two following months 9°.22′·54. 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 $\pm 0'\cdot 37$ and the greatest error $1'\cdot 08$. Similarly the probable error of a single determination of horizontal force was $\pm \cdot 000041$ (C.G.S. Unit), and the greatest error $\cdot 00014$ (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 1903, all available days were used except October 31 and November 1, when a large magnetic disturbance took place ; but in horizontal force the following days were rejected on account of magnetic disturbance : April 6, 18 ; June 28, 29, 30 ; July 10 ; August 11, 12, 14, 26 ; September 5 ; October 8, 12, 13, 22 ; November 1, 2, 9, 22 ; December 13, 14, 15, 20, 30. Of these only four, October 31 ; November 1 ; December 13, 14, were days of great disturbance. January 18 ; February 8, 12, 13 ; March 1, 5, 7, 12, 13, 14, 16, 30 ; April 5, 9 ; May 17 ; June 1, 2, 17 ; July 19, 27 ; August 22, 30 ; September 2, 10, 12, 19, 20, 23, 24, 27, 29 ; October 2, 16, 25, 26, 29, 30 ; November 5, 10, 18, 21, 23, 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 *x* ; but in the case of horizontal force and vertical force, where the scale value is not constant, the curves are measured with millimetre glass scales, and the mean hourly ordinates in each month, and the diurnal ranges, are converted into C.G.S. measure by multiplying by the scale values given on page *x*.

The Mauritius magnetograms show progressive changes of ordinate which are not of magnetic origin ; and the mean hourly values of the magnetic elements in each month 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, x_0 and x_{24} respectively, the correction γ to be applied at any hour h is :

$$\gamma = (h - 12)\frac{x_0 - x_{24}}{24}$$

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—

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

in which x_0, x_1, x_2, x_3, ... x_{24} represent the value of the element at the hours 0, 1, 2, 3 . . . . . 24, Mauritius Civil Time. This formula gives results differing from the mean of the twenty-four hourly values from 0^h to 23^h by the quantity $(x_{24} - x_0)/48$, which is occasionally appreciable.

For further particulars as to the extent of these non-periodic variations reference may be made to the Introduction for 1901 and 1902.

For the reasons given on page *ix* daily values of vertical force are not published.

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 1903 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 $0^{in}\cdot575$, and of the glass cistern $2^{ins}\cdot8$. The bulb of the attached thermometer is immersed in a tube of mercury of nearly the same internal diameter as the barometer.

The height of the barometer cistern above the mean level of the sea is 181 feet.

The barometer is read daily at 6^h, 9^h, 13^h, 15^h and 21^h Mauritius Civil Time (and also at 0^h from 1903 July 1). The readings are reduced to temperature 32° Fahrenheit, but not to sea-level or to Standard gravity at latitude 45°.

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 fitted by Messrs. Negretti and

Zambra ; it then gave identical readings with the Kew Standard barometer. Formerly a correction of + $0^{in}\cdot002$ was applied to the readings on account of capillarity.

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

From two series of comparisons made in 1880 August and 1882 February, it appeared that Negretti and Zambra Nos. 1189 and 1190 read respectively $0^{in}\cdot0190$ and $0^{in}\cdot0144$ lower than Newman No. 128 ; while in 1875 they read $0^{in}\cdot002$ and $0^{in}\cdot006$ higher than the Kew Standard, indicating that Newman No. 128 read $0^{in}\cdot0207$ 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 $0^{in}\cdot004$ 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 + $0^{in}\cdot0048$ should be applied to the readings of Hicks No. 687, + $0^{in}\cdot0011$ to the mean of Negretti and Zambra Nos. 1189 and 1190, and − $0^{in}\cdot0158$ 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, 15^h, and 21^h, (and also at 0^h from 1903 July 1), 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. From the establishment of the Observatory until the introduction of the Thermograph this was considered the Standard thermometer exposure. On 1903, January 1, two standard mercurial thermometers, dry bulb No. 23023 and wet bulb No. 23024, were added for daily comparison with the minimum thermometers, and for observation of the temperature of the air, and of evaporation, at 6^h, 9^h, 13^h, 15^h, and 21^h. Formerly the minimum thermometers were used for this purpose.

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.

A comparison of the different exposures is given on page (*liii.*) Until June 30 the errors of the minimum thermometers were derived from comparisons, made daily at 6^h, with standard

mercurial thermometers. Subsequently the mean of comparisons made at 0^h and 6^h was adopted. In the case of the maximum thermometers the errors derived from the bi-annual comparisons (see page *xvi*) were use until June 30. Subsequently maximum thermometers were used whose errors had been determined from daily comparisons in the thermograph screen (usually for one month) as mentioned above.

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 exposed on the lawn, at night, on a metal stand 6 inches above the ground, and is read daily at 6^h. At 9^h and 15^h it is compared with mercurial thermometer No. 23023.

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.—The ordinary mercurial thermometers for eye observations 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 1901 December, 1902 June, 1902 December and 1903 June are given below; together with the corrections adopted in the reductions for the year 1903.

Exposure.	Thermometer.	Temperature during Comparisons.	Correction.					
			1901 December.	1902 July.	1902 December.	1903 June.	Adopted in 1903. January to June.	Adopted in 1903. July to December.
Thermograph Screen.	Dry bulb, No. 714.	66 74 76 79 85	0 — 0·09 — 0·09	0 — 0·09 — 0·08	0 — 0·10	0 — 0·09	0 — 0·09	0 — 0·09
	Wet bulb, No. 715.	66 74 76 79 85	— 0·09 — 0·15	— 0·09 — 0·14	— 0·14	— 0·09	— 0·09 below 75° — 0·14 above 75°	— 0·09 below 76° — 0·14 above 76°
Stevenson Screen on lawn.	Dry bulb, No. 115,731.	64 66 76	(Kew) 0·0 0·0 0·0	— 0·04	— 0·09	— 0·13	— 0·09	— 0·09
	Wet bulb, No. 115,738.	64 66 76	(Kew) 0·0 0·0 0·0	0·00	— 0·01	— 0·03	— 0·01	— 0·01
	Dry bulb, maximum, No. 40,450.	67 74 77	— 0·75	— 0·78	— 0·64		— 0·72	
Between two open windows in lofty room.	Dry bulb, No. 23,023.	65 80			— 0·63	— 0·60	— 0·63	— 0·62
	Wet bulb, No. 23,024.	65 80			— 0·68	— 0·57	— 0·63	— 0·62
	Dry bulb, maximum, No. 43,670.	67 74 77	— 0·51	— 0·44	— 0·20		— 0·38	
On Standard Barometer.	Dry bulb, No. 70,660.	74		— 0·32			— 0·3	— 0·3
62 inches below surface.	Earth, No. 12,380.	67 73 78	— 0·55	— 0·59	— 0·59	— 0·84	— 0·6	— 0·7
120 inches below surface.	Earth, No. 109,087.	67 73 78	— 0·20	— 0·20	— 0·15	— 0·40	— 0·18	— 0·25
Magnetic Basement.	Dry bulb, No. 131,868.	65 76		(Kew) 0·0 0·0	0·00	— 0·09	0·00	— 0·03
	Wet bulb, No. 131,869.	65 76		(Kew) 0·0 0·0	— 0·08	+ 0·11	— 0·05	— 0·07
	For H. F. Magnet.	74			+ 0·36		+ 0·4	+ 0·4
	For V. F. Magnet.	74			+ 0·21		+ 0·2	+ 0·2
Magnetic Pavilion.	For Deflections.	67 74	— 0·99	— 1·19			— 1·1	
	For Vibrations.	67 70 74	— 1·12	— 1·39		— 1·48	— 1·3	— 1·3
	For Deflections (new Thermometer).	70				— 0·42		0·4

Where the correction is applied to the mean of a number of readings the second decimal place is retained, in order to preserve accuracy to 0·1 of a degree.

The results depend upon the steadiness of the standard thermometer, which is checked, as opportunity offers, by comparison with thermometers examined at the Kew Observatory, immediately on their arrival in Mauritius.

As a further precaution a new standard, No. 774, was obtained from the Kew Observatory in May 1903, which gave readings identical with No. 701, on May 7, from 17 comparisons. On June 25, from 12 comparisons, it read 0°·03 higher than No. 701.

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 daily 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 consists of strips of prepared paper suspended in a cage of the pattern recommended by Sir James Clarke. The cage is composed of two wire gauze cylinders, 10 inches high, the inner cylinder being $3\frac{1}{2}$ inches, and the outer $6\frac{1}{2}$ inches in diameter. The gauze is sufficiently fine to protect the test papers from the action of light while permitting a free circulation of air through the cage. The test paper, which is placed on a hook projecting from the lid into the inner cylinder is changed daily at 9^h, and the amount of ozone determined by comparing the discoloration of the paper with a scale of graduated tints, numbered from 0 to 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 placed 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, 15^h, and 21^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, 15^h, and 21^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 respectively 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 *xiii* in the case of magnetic declination and horizontal force.

For further particulars as to the extent of these non-periodic variations reference may be made to the Introduction for 1900, 1901 and 1902.

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 evaporation, column 18, is measured daily at 9^h and set down to the day on which it is measured.

The amount of ozone is observed daily at 9^h and to obtain the amount for each civil day, given in column 19, three-eighths of the amount observed at 9^h is added to five-eighths of the amount observed on the following day.

The mean daily amount of cloud, column 20, 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 25 and 26, 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 29 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 times of the weather changes are indicated approximately by colons. The departures from average of barometric pressure, mean temperature of the air and of the dew point, mean wind velocity and the amount of rain, are shown graphically at the foot of each Table of " Daily Results " in order to exhibit more clearly the relation between the various elements.

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. A clear day is one on which the

mean amount of cloud is less than 3, and an overcast day one on which the mean amount of cloud is greater than 7.

The table of " Highest and Lowest Barometer Reading," 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.

In the tables of monthly mean values of the meteorological elements at each hour of the day pp. (xlv-lii) the value at the 24th hour has been included. The hourly correction $(h-12)$ $(x_0 - x_{24})/24$ has not been applied, as in the meteorological section the quantity $(x_0 - x_{24})$ signifies a real change in the element, only a portion of which (that due to annual inequality) can be satisfactorily eliminated ; the remaining portion is not in operation throughout the day, but affects the values at 0^h and 24^h only.

The table " Abstract of Changes 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 means of usually three observations ; the barometer readings are derived from the photographic records. From these data the transmissibility of the air has been deduced by the formula :—

$$\log. x = (\log. P\rho^2 - \log. P_0)/\beta\delta$$

where x is the coefficient of transmission of a composite ray from a zenith sun through the atmosphere, when its pressure is equivalent to that of 30 inches of mercury, P_0 the original heat, P the observed heat, ρ the radius vector of the earth, 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 value of P_0 adopted throughout the year 1903 was 11°21, the mean value derived from 17 years observations.

As absolute determinations the values of x thus found are too large ; they indicate, however, the variations from day to day in the transmissibility of the air for composite rays.

The Rainfall tables, pages (lviii) to (lxi), have been complied from information kindly furnished by the proprietors of sugar estates, and other amateur observers. The rain is measured at 9^h and set down to the day on which it is measured. For this reason the monthly rainfall and number of rainy days given in this table for the Observatory do not always agree with the number given in page (xliii). 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 1903.

T. F. CLAXTON,

ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

MAGNETICAL OBSERVATIONS.

1903.

TABLE I.—DETERMINATIONS OF MAGNETIC DECLINATION in the YEAR 1903.

Mauritius Civil Time, 1903.	Observer.	Circle Reading.	Correction to Zero Reading.	Correction for Torsion.	Circle Reading Corresponding to Zero.	Adopted Circle Reading of South Astronomical Meridian.	Corrected Declination (West).	Ordinate at Time of Observation.	Observed Value of the Base Line.	Mean Monthly Value of the Base Line.	Adopted Monthly Value of the Base Line.	Mean Ordinate for the Month.	Mean Monthly Declination (West).
d h m		° ′	′	′	° ′	° ′	° ′	′	° ′	° ′	° ′	′	° ′
Jan. 15.11.48	W.	76.56·25	+15·85	0·00	77.12·10	86.30·27	9.18·17	−11·00	9. 7·17	9. 6·73	9. 4·17	11·10	9.15·27
15.15.26	W.	76.59·96	+15·38	−0·25	77.15·09		9.15·18	− 8·00	9. 7·18				
24.11.42	W.	76.56·96	+16·31	+0·07	77.13·34	86.29·84	9.16·50	− 9·80	9. 6·70				
28.15. 3	W.	76.59·71	+15·29	0·00	77.15·00		9.14·84	− 8·95	9. 5·89				
Feb. 11. 8.48	W.	76.57·67	+15·99	−0·40	77.13·26	86.29·89	9.16·63	−10·00	9. 6·63	9. 5·83	9. 3·96	10·81	9.14·77
11.15.16	W.	76.58·29	+15·79	+0·20	77.14·28		9.15·61	− 9·20	9. 6·41				
26. 8.48	W.	76.51.33	+15·80	−0·12	77. 7·01	86.29·51	9.22·50	−17·20	9. 5·30				
26.16. 6	W.	76.59·58	+15·58	−0·12	77.15·04		9.14·47	− 9·50	9. 4·97				
Mar. 15. 9.35	W.	76.52·08	+16·07	0·00	77. 8·15	86.29·49	9.21·34	−15·20	9. 6·14	9. 5·66	9. 3·80	10·59	9.14·39
15.14.32	W.	77. 2·25	+15·93	+0·24	77.18·42		9.11·07	− 5·00	9. 6·07				
30. 9.55	W.	76.55·88	+15·14	+0·19	77.11·21	86.29·04	9.17·83	−12·60	9. 5·23				
30.16.27	W.	76.57·92	+15·42	+0·38	77.13·72		9.15·32	−10·10	9. 5·22				
April 16.10.51	W.	76.56·33	+15·84	0·00	77.12·17	86.29·68	9.17·51	−11·70	9. 5·81	9. 6·54	9. 4·03	10·53	9.14·56
16.14.35	W.	77. 0·96	+15·57	−0·26	77.16·27		9.13·41	− 7·20	9. 6·21				
28.10.12	W.	76.55·25	+15·60	0·00	77.10·85	86.30·13	9.19·28	−12·00	9. 7·28				
28.13.28	W.	77. 0·58	+15·29	0·00	77.15·87		9.14·26	− 7·40	9. 6·86				
May 12.11. 0	W.	76.55·88	+15·78	0·00	77.11·66	86.29·42	9.17·76	−11·80	9. 5·96	9. 6·14	9. 4·27	10·32	9.14·59
12.14.49	W.	76.58·62	+15·88	0·00	77.14·50		9.14·92	− 9·00	9. 5·92				
29.11. 1	W.	76.55·50	+15·69	0·00	77.11·19	86.29·66	9.18·47	−12·05	9. 6·42				
29.15.30	W.	76.58·83	+15·76	0·00	77.14·59		9.15·07	− 8·80	9. 6·27				
June 15. 8.53	W.	76.57·67	+15·49	0·00	77.13·16	86.29·80	9.16·64	− 9·95	9. 6·69	9. 6·73	9. 4·55	9·70	9.14·25
15.13.38	W.	76.59·58	+15·83	0·00	77.15·51		9.14·29	− 7·60	9. 6·69				
27.11. 4	W.	77. 1·79	+10·99	0·00	77.12·78	86.29·97	9.17·19	−10·50	9. 6·69				
27.13. 7	W.	77. 1·62	+11·48	0·00	77.13·10		9.16·87	−10·00	9. 6·87				

The adopted Monthly Values of the base-line include a correction of −2′·09, as explained in the **Introduction to this volume.**

TABLE I.—DETERMINATIONS of MAGNETIC DECLINATION in the YEAR 1903.—*concluded.*

Mauritius Civil Time, 1903.	Observer.	Circle Reading.	Correction to Zero Reading.	Correction for Torsion.	Reading Corresponding to Zero.	Adopted Circle Reading of South Astronomical Meridian.	Corrected Declination (West).	Ordinate at Time of Observation.	Observed Value of the Base Line.	Mean 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 13. 9.30	W.	77.39·58	−26·46	− 0·13	77.12·99	86.30·17	9.17·18	−10·00	9. 7·18	9. 7·23	9. 4·80	9·26	9.14·06
13.13.49	W.	77. 0·17	+15·47	0·00	77.15·64		9.14·53	− 7·00	9. 7·53				
29.11.54	W.	77. 0· 0	+11·12	0·00	77.11·12	86.30·63	9.19·51	−12·30	9. 7·21				
29.14.30	W.	77. 0·50	+13·22	0·00	77.13·72		9.16·91	− 9·90	9. 7·01				
Aug. 14. 9.22	W.	77. 0·04	+13·50	0·00	77.13·54	86.30·18	9.16·64	−10·70	9. 5·94	9. 6·32	9. 4·63	9·20	9.13·83
14.15.41	W.	76.59·75	+18·13	0·00	77.17·18		9.13·00	− 6·90	9. 6·10				
28. 9.35	W.	77. 0·12	+12·33	0·00	77.12·45	86.30·54	9.18·09	−11·80	9. 6·29				
31.14.29	W.	76.59·92	+16·78	0·00	77.16·70	86.30·37	9.13·67	− 6·90	9. 6·77				
31.15.48	W.	76.59·92	+17·04	0·00	77.16·96		9.13·41	− 6·90	9. 6·51				
Sept. 11.10.32	W.	76.59·92	+11·91	− 0·12	77.11·71	86.30·52	9.18·81	−12·10	9. 6·71	9. 6·77	9. 4·58	9·39	9.13·97
11.13. 5	W.	76.59·92	+14·91	+ 0·06	77.14·89		9.15·63	− 9·80	9. 5·83				
28.11. 6	W.	77. 0·58	+ 8·26	− 0·12	77. 8·72	86.30·14	9.21·42	−13·80	9. 7·62				
28.14.16	W.	77. 3·73	+13·67	− 0·18	77.17·22		9.12·92	− 6·00	9. 6·92				
Oct. 13.11.44	W.	77. 0·25	+13·56	+ 0·24	77.14·05	86.30·44	9.16·39	− 9·10	9. 7·29	9. 7·00	9. 4·70	9·01	9.13·71
13.14. 9	W.	76.59·75	+16·05	0·00	77.15·80		9.14·64	− 7·10	9. 7·54				
27.13.46	W.	77. 0·17	+17·24	0·00	77.17·41	86.30·71	9.13·30	− 6·80	9. 6·50				
27.15.27	W.	77. 0·04	+16·58	0·00	77.16·62		9.14·09	− 7·40	9. 6·69				
Nov. 16.11.16	W.	76.59·58	+16·56	− 0·54	77.15·60	86.31·24	9.15·64	− 9·30	9. 6·34	9. 6·43	9. 4·62	8·79	9.13·41
16.14.44	W.	76.59·23	+20·13	− 0·54	77.18·82		9.12·42	− 6·80	9. 5·62				
24. 9. 9	W.	76.59·71	+12·52	0·00	77.12·23	86.31·93	9.19·70	−12·90	9. 6·80				
24.13.53	W.	76.59·75	+21·22	0·00	77.20·97		9.10·96	− 4·00	9. 6·96				
Dec. 14.11.46	W.	76.59·75	+15·71	− 0·25	77.15·21	86.31·76	9.16·55	−10·20	9. 6·35	9. 6·87	9. 4·48	8·65	9.13·13
14.15.19	W.	77. 0·25	+16·19	− 0·50	77.15·94		9.15·82	− 9·20	9. 6·62				
30.11.35	W.	76.59·92	+16·34	0·00	77.16·26	86.31·62	9.15·36	− 7·90	9. 7·46				
30.16. 6	W.	77. 0·17	+21·28	0·00	77.21·45		9.10·17	− 3·10	9. 7·07				

The initial W. is that of Mr. Walter.

TABLE II.—DETERMINATIONS of HORIZONTAL MAGNETIC FORCE in the YEAR 1903.

Mauritius Civil Time, 1903.		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	13. 12	3·7560	1·87	28·5	3·7409	13·38·54	6.10·45	27·8	W.
	13. 17	3·7551		27·2	3·7409	13·39·20	6.11·16	26·7	W.
	29. 16	3·7592	1·46	30·6	3·7424	13·37·85	6.10·50	30·0	W.
	31. 15	3·7588	1·46	30·3	3·7422	13·38·46	6.10·70	29·4	W.
	31. 16	3·7593		30·3	3·7427	13·38·66	6.10·85	29·4	W.
February	17. 7	3·7542	1·65	26·5	3·7405	13·39·52	6.11·16	26·1	W.
	17. 16	3·7594		30·5	3·7427	13·38·54	6.10·76	29·6	W.
	27. 12	3·7586	1·78	29·6	3·7427	13·38·68	6.10·67	29·0	W.
	27. 16	3·7594		30·3	3·7429	13·38·48	6.10·81	29.4	W.
March	17. 11	3·7569	1·78	29·0	3·7413	13·38·16	6·10·43	28·4	W.
	17. 15	3·7591		30·3	3·7427	13·38·61	6.10·73	29·7	W.
	30. 13	3·7582	1·76	28·9	3·7427	13·38·14	6.10·44	28·5	W.
	30. 15	3·7589		29·3	3·7431	13·38·87	6.10·71	28·9	W.
April	18. 12	3·7545	1·68	26·3	3·7409	13·38·62	6.10·76	25·9	W.
	18. 15	3·7588		27·3	3·7446	13·39·75	6.11·23	27·1	W.
	29. 12	3·7576	2·16	26·7	3·7440	13·39·44	6.11·31	26·2	W.
	29. 14	3·7572		26·6	3·7435	13·39·78	6.11·36	26·6	W.
May	14. 12	3·7543	2·63	23·9	3·7428	13·40·24	6.11·16	23·9	W.
	14. 16	3·7557		25·0	3·7434	13·40·21	6.11·50	25·0	W.
	30. 11	3·7534	2·70	23·2	3·7425	13·40·52	6.11·54	23·1	W.
	30. 14	3·7565		24·3	3·7447	13·41·04	6.11·77	24·0	W.
June	16. 12	3·7533	3·00	23·2	3·7424	13·40·79	6.11·62	23·3	W.
	16. 16	3·7542		23·4	3·7432	13·40·92	6.12·11	23·4	W.
	29. 12	3·7564	2·72	24·3	3·7446	13·40·94	6.11·83	24·1	W.
	29. 14	3·7566		25·4	3·7440	13·40·46	6.11·76	24·7	W.
July	16. 11	3·7551	2·68	22·6	3·7445	13·41·30	6.11·80	22·5	W.
	16. 14	3·7549		24·1	3·7433	13·41·01	6.11·63	23·8	W.
	30. 11	3·7541	2·94	21·2	3·7446	13·42·10	6.12·08	21·0	W.
	30. 15	3·7565		23·4	3·7454	13·41·55	6.11·98	23·4	W.
August	14. 12	3·7571	2·70	23·0	3·7462	13·41·80	6.12·08	23·1	W.
	14. 15	3·7575		23·9	3·7460	13·42·00	6.12·36	23·6	W.
	28. 13	3·7582	2·44	23·7	3·7468	13·41·82	6.11·92	23·7	W.
	28. 16	3·7591		24·2	3·7473	13·41·87	6.12·31	24·3	W.
September	10. 9	3·7596	2·16	20·6	3·7502	13·39·97	6.11·10	20·4	W.
	10. 15	3·7644		25·0	3·7500	13·39·56	6.11·24	24·7	W.
	29. 11	3·7635	2·22	23·8	3·7520	13·39·33	6.10·93	23·8	W.
	29. 16	3·7678		25·2	3·7552	13·40·11	6.11·36	25·4	W.
October	14. 12	3·7665	2·20	25·4	3·7538	13·39·50	6.11·03	25·5	W.
	14. 16	3·7693		25·7	3·7564	13·40·50	6.11·46	25·8	W.
	30. 11	3·7630	2·90	25·4	3·7506	13·39·42	6.10·73	25·5	W.
	30. 14	3·7628		25·4	3·7503	13·39·95	6.10·88	25·2	W.
November	5. 11	3·7682	2·22	25·7	3·7553	13·40·00	6.11·01	25·9	W.
	5. 16	3·7704		27·2	3·7564	13·40·09	6.11·30	27·2	W.
	24. 11	3·7673	2·22	26·4	3·7536	13·39·84	6.11·40	26·2	W.
	24. 13	3·7687		27·1	3·7547	13·39·31	6.11·10	26·9	W.
December	16. 11	3·7683	2·28	27·0	3·7544	13·38·79	6.10·93	26·8	W.
	16. 15	3·7691		27·3	3·7550	13·39·32	6.10·91	27·1	W.
	31. 13	3·7746	2·15	29·4	3·7589	13·39·48	6.11·15	29·3	W.
	31. 16	3·7739		29·2	3·7583	13·39·51	6.11·28	28·9	W.

The initial W. is that of Mr. Walter.

TABLE II.—DETERMINATIONS of HORIZONTAL MAGNETIC FORCE in the YEAR 1903—*concluded.*

Mauritius Civil Time, 1903.		In Metric Measure (C.G.S. Unit).											In English Measure (F.G.S. Unit).
		$\log A_1 - \log A_2$	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.
	d h												
Jan.	13. 12	0·00072	− 3·78		805·2	0·23729	−·00045	0·23684					
	13. 17	0·00120	− 6·32		805·5	0·23718	−·00037	0·23681					
	29. 16	0·00112	− 5·90	−5·21	805·2	0·23714	−·00034	0·23680	0·23681	0·23686	+·00032	0·23718	5·1440
	31. 15	0·00106	− 5·58		805·3	0·23709	−·00027	0·23682					
	31. 16	0·00110	− 5·79		805·4	0·23703	−·00024	0·23679					
Feb.	17. 7	0·00104	− 5·47		805·6	0·23720	−·00031	0·23689					
	17. 16	0·00108	− 5·69	−5·32	805·4	0·23703	−·00022	0·23681	0·23686	0·23685	+·00023	0·23708	5·1418
	27. 12	0·00089	− 4·68		805·3	0·23707	−·00015	0·23692					
	27. 16	0·00117	− 6·16		805·3	0·23702	−·00020	0·23682					
Mar.	17. 11	0·00089	− 4·68		805·1	0·23727	−·00031	0·23696					
	17. 15	0·00101	− 5·32	−5·21	805·4	0·23704	−·00019	0·23685	0·23686	0·23687	+·00018	0·23705	5·1411
	30. 13	0·00091	− 4·79		804·8	0·23717	−·00031	0·23686					
	30. 15	0·00084	− 4·42		805·2	0·23702	−·00024	0·23678					
April	18. 12	0·00104	− 5·48		805·1	0·23732	−·00042	0·23690					
	18. 15	0·00100	− 5·26	−5·32	805·0	0·23688	−·00006	0·23682	0·23689	0·23689	+·00004	0·23693	5·1386
	29. 12	0·00125	− 6·59		805·0	0·23697	−·00006	0·23691					
	29. 14	0·00114	− 6·01		805·2	0·23694	−·00002	0·23692					
May	14. 12	0·00066	− 3·47		804·9	0·23711	−·00017	0·23694					
	14. 16	0·00107	− 5·63	−5·37	805·2	0·23697	−·00004	0·23693	0·23694	0·23692	+·00001	0·23693	5·1386
	30. 11	0·00096	− 5·05		805·1	0·23709	−·00011	0·23698					
	30. 14	0·00095	− 5·00		805·1	0·23683	+·00009	0·23692					
June	16. 12	0·00091	− 4·79		805·3	0·23706	−·00007	0·23699					
	16. 16	0·00142	− 7·49	−5·32	805·4	0·23691	+·00005	0·23696	0·23691	0·23695	−·00004	0·23691	5·1381
	29. 12	0·00108	− 5·69		805·1	0·23684	+·00001	0·23685					
	29. 14	0·00124	− 6·54		805·3	0·23685	+·00001	0·23686					
July	16. 11	0·00085	− 4·47		804·8	0·23693	+·00008	0·23701					
	16. 14	0·00080	− 4·21	−5·00	805·1	0·23699	+·00005	0·23704	0·23707	0·23699	−·00013	0·23686	5·1370
	30. 11	0·00076	− 3·99		804·8	0·23689	+·00025	0·23714					
	30. 15	0·00093	− 4·89		804·9	0·23678	+·00033	0·23711					
Aug.	14. 12	0·00091	− 4·79		804·8	0·23673	+·00022	0·23695					
	14. 15	0·00114	− 6·01	−4·88	805·1	0·23665	+·00030	0·23695	0·23693	0·23699	−·00019	0·23680	5·1357
	28. 13	0·00073	− 3·84		804·7	0·23668	+·00028	0·23696					
	28. 16	0·00115	− 6·06		804·9	0·23655	+·00032	0·23687					
Sept.	10. 9	0·00072	− 3·78		802·4	0·23691	+·00016	0·23707					
	10. 15	0·00112	− 5·90	−4·63	803·2	0·23673	+·00036	0·23709	0·23701	0·23698	−·00024	0·23674	5·1344
	29. 11	0·00086	− 4·52		802·4	0·23671	+·00027	0·23698					
	29. 16	0·00097	− 5·10		802·4	0·23631	+·00059	0·23690					
Oct.	14. 12	0·00089	− 4·68		802·2	0·23652	+·00039	0·23691					
	14. 16	0·00088	− 4·63	−4·29	802·2	0·23621	+·00079	0·23700	0·23691	0·23695	−·00025	0·23670	5·1336
	30. 11	0·00058	− 3·05		802·7	0·23678	+·00009	0·23687					
	30. 14	0·00047	− 2·47		803·0	0·23675	+·00013	0·23688					
Nov.	5. 11	0·00062	− 3·26		802·3	0·23633	+·00070	0·23703					
	5. 16	0·00091	− 4·79	−4·77	802·5	0·23615	+·00078	0·23693	0·23697	0·23695	−·00070	0·23625	5·1238
	24. 11	0·00115	− 6·06		802·8	0·23636	+·00060	0·23696					
	24. 13	0·00106	− 5·58		802·5	0·23635	+·00060	0·23695					
Dec.	16. 11	0·00114	− 6·01		802·4	0·23642	+·00053	0·23695	0·23696	0·23695	−·00054	0·23641	5·1273
	16. 15	0·00084	− 4·42	−4·93	802·4	0·23634	+·00064	0·23698					
	31. 13	0·00104	− 5·48		802·1	0·23594	...	...					
	31. 16	0·00118	− 6·22		802·3	0·23597	...	...					

TABLE III.—RESULTS OF OBSERVATIONS of MAGNETIC DIP made in the MAGNETIC PAVILION in the YEAR 1903.

NEEDLE No. 1.

Mauritius Civil Time, 1903.		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	5. 9	54.39·3	52. 8·8	54.53·5	52. 0·2	53.14·7	55.42·2	53.42·2	55.48·7	54. 1·2	F.
	27. 15	54.40·8	52. 8·2	54.50·3	51.54·5	53.17·0	55.43·0	53.42·2	55.44·8	54. 0·1	F.
February	4. 9	54.33·7	52.24·0	54.49·7	52. 9·0	53.13·8	55.56·0	53.28·5	55.50·3	54. 3·1	F.
	28. 10	54.45·3	52.31·0	54.45·0	52.17·2	53.18·0	55.54·7	53.28·0	55.49·0	54. 6·0	F.
March	4. 12	54.37·8	51.55·7	54.48·2	51.52·3	53.10·5	56.20·5	53.35·5	56.13·0	54. 4·2	F.
	28. 10	54.29·8	52.17·7	54.43·2	52.11·2	53.11·0	55.41·7	53.42·2	55.31·8	53.58·6	F.
April	2. 12	54.31·5	52.13·7	54.38·2	52. 2·8	53.17·7	55.54·2	53.26·7	55.53·2	53.59·7	F.
	28. 15	54.34·3	52. 5·3	54.42·0	52. 4·0	53.17·3	55.45·0	53.38·3	55.38·3	53.58·1	F.
May	2. 12	54.24·0	52. 3·3	54.39·3	52. 0·5	53.11·0	55.47·8	53.43·3	55.40·8	53.56·3	F.
	28. 12	54.33·0	52. 6·0	54.44·7	51.54·3	53. 6·0	55.47·3	53.37·0	55.43·7	53.56·5	F.
June	2. 10	54.32·2	52. 6·0	54.41·7	51.57·5	53.18·7	55.51·7	53.35·3	55.42·7	53.58·2	F.
	29. 16	54.30·3	51.54·5	54.40·0	51.53·3	53.14·2	56. 5·3	53.37·8	55.50·7	53.58·3	F.
July	2. 9	54.28·5	52. 1·5	54.45·8	51.56·3	53.10·6	55.52·2	53.24·0	55.40·5	53.54·9	F.
	29. 16	54.33·7	52. 4·7	54.36·7	52. 3·2	53. 1·8	56. 4·0	53.31·0	55.50·8	53.58·2	F.
August	3. 11	54.33·0	52. 8·0	54.36·3	52. 3·8	53.12·3	55.54·3	53.26·3	55.39·3	53.56·7	F.
	29. 9	54.29·3	52. 2·2	54.45·2	51.51.0	53. 3·7	56. 2·7	53.28·5	55.43·8	53.55·8	F.
September	2. 9	54.27·3	51.50·2	54.48·7	51.46·2	53. 0·5	56. 2·2	53.39·0	55.40·7	53.54·3	F.
	28. 9	54.28·2	52. 5·2	54.40·3	52. 2·5	53. 1·8	55.57·5	53.33·1	55.45·0	53.56·7	F.
October	2. 9	54.33·5	52. 8·0	54.43·7	51.55·7	53. 7·2	56. 0·0	53.32·2	55.34·2	53.56·8	F.
	28. 9	54.30·7	52. 6·7	54.51·5	52. 2·0	53.13·0	55.51·5	53.40·6	55.42·8	53.59·8	F.
November	3. 12	54.34·2	51.48·0	54.53·3	51.52·5	53.12·5	55.57·3	53.38·8	55.38·0	53.56·8	F.
	28. 9	54.34·5	52. 0·3	54.37·7	51.58·2	53. 4·2	55.42·3	53.43·8	55.37·5	53.54·8	F.
December	2. 9	54.34·5	51.59·7	54.38·3	51.59·3	53. 4·3	55.40·5	53.35·8	55.40·8	53.54·2	F.
	28. 9	54.39·0	51.56·3	54.30·2	52. 7·8	53. 3·7	55.55·7	53.27·2	55.39·8	53.55·0	F.

NEEDLE No. 2.

	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	8. 10	54. 1·2	54.10·2	54. 7·7	54. 2·5	53.57·2	54. 2·5	54. 7·7	53.43·0	54. 1·5	F.
	24. 9	54. 2·3	54. 6·3	54. 2·7	53.57·8	53.58·5	53.57·7	54. 5·2	53.50·8	54. 0·2	F.
February	7. 11	53.57·7	54.11·0	54. 4·0	54. 5·0	53.52·5	53.58·0	54. 2·5	53.50·0	54. 0·1	F.
	24. 14	53.59·3	54.14·7	54. 7·5	54. 3·7	53.50·3	54. 4·0	53.56·3	53.53·3	54. 1·1	F.
March	6. 10	54. 6·8	53.53·3	54.14·3	53.48·2	53.59·7	53.58·8	54. 8·5	53.51·2	54. 0·1	F.
	24. 12	53.47·0	54.11·2	53.54·0	54. 7·5	54. 0·2	53.59·0	54. 7·0	53.51·8	53.59·7	F.
April	6. 10	53.56·8	54. 4·5	54. 3·7	54. 5·2	53.59·7	54. 1·8	54. 7·5	53.56·0	54. 1·9	F.
	24. 12	53.53·0	54. 4·3	54. 4·5	54. 0·8	54. 3·2	54. 1·2	54. 6·2	53.49·5	54. 0·3	F.
May	6. 12	53.55·2	54. 2·3	54. 1·2	54. 1·3	53.57·0	54. 3·2	54. 6·3	53.53·0	53.59·9	F.
	26. 12	53.56·7	54. 1·2	54. 2·5	54. 0·0	54. 1·7	53.58·7	54. 9·2	53.48·3	53.59·8	F.
June	6. 12	53.53·3	54.10·0	54. 1·8	54. 4·5	53.59·5	53.55·5	54. 6·7	53.51·3	54. 0·3	F.
	25. 9	53.53·5	54. 5·3	54. 7·0	54. 2·1	53.57·2	53.59·2	54. 7·0	53.56·8	54. 1·0	F.
July	7. 12	53.54·8	53.59·8	54. 3·0	53.54·0	53.57·2	54. 4·2	54. 1·6	53.59·0	53.59·2	F.
	24. 10	53.57·8	53.58·3	54. 0·0	53.55·0	54. 0·2	53.55·7	54. 2·8	53.55·2	53.58·1	F.
August	6. 9	54. 2·0	53.57·2	54. 2·2	53.55·7	54. 2·0	53.55·5	54. 3·2	53.50·5	53.58·5	F.
	27. 11	53.58·5	53.57·8	54. 2·8	53.59·2	53.49·2	54. 6·0	53.57·2	54. 0·2	53.59·2	F.
September	8. 12	53.54·3	53.50·8	53.57·3	53.59·7	53.51·3	53.45·7	54. 2·7	53.46·2	53.53·5	F.
	24. 9	53.58·5	54. 0·8	53.56·5	53.55·8	53.55·8	53.55·7	54. 3·2	53.52·3	53.57·3	F.
October	6. 9	53.56·7	53.52·2	53.58·0	53.59·8	53.56·0	53.45·5	54. 2·5	53.52·8	53.55·4	F.
	24. 9	53.56·0	53.58·5	53.54·9	54. 5·7	54. 2·7	53.49·9	53.59·3	53.57·5	53.58·1	F.
November	6. 12	54. 2·3	53.57·2	54. 0·5	54. 0·8	54. 2·5	53.54·8	54. 1·5	53.55·3	53.59·4	F.
	25. 9	54. 4·7	54. 0·6	54. 3·3	54.11·0	54. 0·7	53.53·7	54. 5·7	53.55·5	54. 1·9	F.
December	8. 9	54. 1·7	53.54·7	53.56·2	54. 6·0	53.59·0	53.55·5	53.58·5	54. 1·0	53.59·1	F.
	24. 9	53.58·3	54. 0·0	53.57·8	54. 2·2	54. 2·2	53.48·5	54. 1·7	53.53·4	53.58·0	F.

The initial F. is that of Mr. Figon.

TABLE III—RESULTS of OBSERVATIONS of MAGNETIC DIP made in the MAGNETIC PAVILION in the YEAR 1903—*concluded.*

NEEDLE No. 3.

Mauritius Civil Time, 1903.		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	10. 12	53·50·3	54· 9·5	53·53·2	53·54·8	54· 6·0	54· 6·3	54·13·3	54· 1·3	54· 1·8	F.
	20. 9	53·54·8	54· 2·5	53·57·2	53·52·5	54· 3·0	54· 4·7	54·12·8	54· 6·0	54· 1·7	F.
February	13. 10	53·48·7	54·12·0	53·51·8	54· 3·5	54· 8·3	54· 9·7	54·12·8	54· 9·3	54· 4·5	F.
	21. 9	53·50·8	54· 6·3	53·54·3	53·56·5	54· 9·8	54· 2·3	54·10·5	54· 4·7	54· 1·9	F.
March	10. 10	53·51·5	54· 6·5	53·56·5	54· 0·0	54·10·2	53·58·2	54·12·2	54· 5·7	54· 2·6	F.
	18. 9	53·45·3	54· 3·8	53·52·5	53·54·3	54·10·3	54· 3·5	54·12·5	54· 2·3	54· 0·6	F.
April	11. 12	53·47·2	54·13·3	53·48·0	53·55·5	54· 6·8	54· 5·0	54·11·3	54· 0·5	54· 1·0	F.
	20. 12	53·47·0	54· 8·8	53·50·5	53·49·0	54· 7·7	54· 2·0	54·12·5	53·59·8	53·59·7	F.
May	11. 11	53·47·7	54· 6·3	53·47·3	53·55·2	54· 6·7	54· 0·4	54· 9·7	54· 1·3	53·59·3	F.
	21. 9	53·50·8	54· 3·3	53·54·8	53·48·5	54·10·7	54· 4·0	54· 7·8	54· 6·0	54· 0·7	F.
June	10. 12	53·48·3	54· 6·8	53·49·2	53·41·3	54· 9·5	54· 3·7	54·12·5	54· 0·8	53·59·0	F.
	22. 9	53·42·8	54· 4·8	53·48·7	53·58·2	54·13·0	54· 0·5	54·13·8	54· 0·8	54· 0·3	F.
July	10. 12	53·40·0	54· 2·9	53·48·5	53·50·4	54·11·8	54· 1·5	54· 9·8	53·59·8	53·58·1	F.
	20. 12	53·39·5	54· 9·7	53·48·7	53·55·0	54·11·8	54· 0·7	54·12·8	53·58·5	53·59·6	F.
August	10. 12	53·42·0	54· 3·5	53·51·5	53·51·0	54·12·3	53·58·0	54·18·3	54· 2·0	53·59·8	F.
	20. 9	53·36·0	54·10·0	53·49·2	53·56·7	54· 1·7	54· 6·7	54· 7·8	54· 4·3	53·59·0	F.
September	11. 15	53·50·5	54·52·7	53·50·8	54·19·0	54·14·3	53·58·5	54·11·5	54· 6·9	54· 3·0	F.
	21. 9	53·43·3	54· 4·2	53·50·5	54·13·0	54·16·0	54· 0·3	54·10·7	54· 8·3	54· 3·3	F.
October	10. 9	53·38·2	54· 6·8	53·46·7	53·58·3	54· 9·5	54· 3·7	54·12·2	54·14·7	54· 1·3	F.
	17. 9	53·41·3	54· 8·2	53·47·2	53·54·8	54·12·3	53·57·7	54·14·2	54·11·7	54· 0·9	F.
November	11. 9	53·44·8	53·59·0	53·46·7	53·58·8	54·13·0	53·54·0	54·19·2	54·11·5	54· 0·9	F.
	20. 9	53·42·5	54· 9·2	53·54·8	53·59·7	54· 4·7	53·58·0	54·17·0	54· 9·0	54· 1·9	F.
December	10. 9	53·40·0	54·15·2	53·47·0	53·57·3	54· 2·3	54· 4·3	54·12·5	54· 6·7	54· 0·7	F.
	21. 9	53·42·5	54· 9·5	53·54·0	53·51·0	54· 8·8	54· 2·3	54·15·0	54· 7·3	54· 1·3	F.

NEEDLE No. 4.

	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	14. 11	53·47·0	52·59·3	54· 1·5	52·41·7	54· 5·3	55·14·2	54·14·3	55·19·2	54· 2·8	F.
	17. 11	53·39·0	53· 1·5	53·55·2	52·51·8	54· 8·0	55·16·2	54·22·0	55· 9·8	54· 2·9	F.
February	16. 9	53·44·3	52·53·3	54·12·3	52·36·8	54· 9·5	55·16·1	54·18·8	55· 9·7	54· 2·6	F.
	18. 9	53·44·5	52·54·0	53·57·5	52·46·3	54·10·7	55·13·8	54·17·0	55· 7·8	54· 1·5	F.
March	14. 9	53·40·0	52·53·8	53·52·2	52·49·5	54·15·0	55· 5·5	54·24·5	55· 7·8	54· 1·0	F.
	20. 10	53·43·0	52·52·3	54· 2·2	52·45·7	54·12·5	55· 4·0	54·17·0	55·10·2	54· 0·9	F.
April	14. 9	53·40·7	52·51·7	53·57·3	52·51·0	54· 9·8	55· 4·0	54·15·5	55· 8·2	53·59·8	F.
	17. 12	53·39·7	52·43·2	54· 0·8	52·46·5	54·13·3	55· 9·3	54·12·0	55·10·8	53·59·5	F.
May	15. 9	53·38·7	52·44·8	53·49·2	52·45·5	54· 6·5	55·25·3	54·19·5	55· 9·5	53·59·9	F.
	18. 9	53·39·3	52·51·2	53·46·5	52·40·8	54· 7·0	55·18·3	54·15·8	55·11·5	53·58·8	F.
June	17. 12	53·37·8	52·42·0	53·51·5	52·40·0	54·12·8	55· 5·3	54·19·5	55· 3·0	53·56·5	F.
	19. 9	53·25·0	52·44·1	54· 5·5	52·42·0	54·10·3	55·10·5	54·10·7	55·12·0	53·57·5	F.
July	15. 12	53·40·7	52·54·3	53·51·6	52·48·7	54· 8·2	55· 2·7	54· 7·7	55· 8·5	53·57·8	F.
	17. 9	53·38·7	52·49·7	53·50·0	52·44·3	54· 8·2	55· 4·8	54·18·3	55· 5·7	53·57·5	F.
August	13. 10	53·47·8	52·39·8	53·51·0	52·40·7	54· 8·8	55· 2·8	54·18·3	55· 3·3	53·56·6	F.
	17. 10	53·34·3	52·44·5	53·42·3	52·49·0	54·18·7	55· 4·4	54·20·3	55· 3·0	53·57·1	F.
September	14. 12	53·34·9	52·47·8	53·47·1	52·41·2	54·11·6	55· 7·3	54·12·7	55· 8·5	53·56·4	F.
	17. 9	53·40·3	52·38·5	53·44·0	52·40·2	54·14·2	54·58·0	54·12·5	55· 7·7	53·54·4	F.
October	15. 9	53·46·7	52·34·0	53·45·7	52·46·2	54· 8·5	55· 1·7	54·11·0	55·15·8	53·56·2	F.
	20. 9	53·40·3	52·45·5	53·47·5	52·54·7	54·13·7	55· 6·5	54·10·0	55·16·7	53·59·4	F.
November	14. 9	53·40·7	52·50·2	53·51·2	52·40·8	54·31·5	55· 0·3	54·21·0	55·16·2	54· 1·5	F.
	17. 9	53·45·3	52·29·2	53·55·3	52·35·3	54·31·0	55· 8·5	54·17·2	55·16·3	53·59·8	F.
December	17. 9	53·39·8	52·37·8	53·50·2	52·48·3	54·11·2	55·12·0	54·18·2	55·17·3	53·59·3	F.
	19. 9	53·39·3	52·38·0	53·45·2	52·53·3	54·23·7	54·55·7	54·14·5	55·11·0	53·57·6	F.

The initial F. is that of Mr. Figon.

TABLE IV.—MEAN MONTHLY VALUES of MAGNETIC DIP (SOUTH) in the YEAR 1903.

Month, 1903.	Needle No. 1.	Needle No. 2.	Needle No. 3.	Needle No. 4.	Mean Monthly Dip from all Needles.
	° ′	° ′	° ′	° ′	° ′
January	54. 0·7	54. 0·9	54. 1·8	54. 2·8	54. 1·58
February	54. 4·6	54. 0·6	54. 3·2	54. 2·1	54. 2·62
March	54. 1·4	53·59·9	54. 1·6	54. 1·0	54. 0·97
April	53·58·9	54. 1·1	54. 0·3	53·59·7	54. 0·00
May	53·56·4	53·59·8	54. 0·0	53·59·3	53·58·88
June	53·58·3	54. 0·7	53·59·6	53·57·0	53·58·90
July	53·56·6	53·58·7	53·58·8	53·57·7	53·57·95
August	53·56·2	53·58·7	53·59·4	53·56·8	53·57·80
September	53·55·5	53·55·4	54. 3·2	53·55·4	53·57·38
October	53·58·3	53·56·7	54. 1·1	53·57·8	53·58·47
November	53·55·8	54. 0·6	54. 1·4	54. 0·6	53·59·60
December	53·54·6	53·58·6	54. 1·0	53·58·4	53·58·15
Year	53·58·11	53·59·31	54. 0·95	53·59·05	53·59·36
Column	1	2	3	4	5

TABLE V.—MEAN MONTHLY VALUES of MAGNETIC DECLINATION, HORIZONTAL FORCE, VERTICAL FORCE, and TOTAL FORCE in the YEAR 1903.

Month, 1903.	Declination (West).	In Metric Measure (C.G.S. Unit).			In English Measure (C.G.S. Unit).		
		Horizontal Force.	Vertical Force.	Total Force.	Horizontal Force.	Vertical Force.	Total Force.
	° ′						
January	9.15·27	0·23718	0·32677	0·40378	5·1440	7·0870	8·7572
February	9.14·77	0·23708	0·32684	0·40378	5·1418	7·0885	8·7572
March	9.14·39	0·23705	0·32647	0·40345	5·1411	7·0805	8·7500
April	9.14·56	0·23693	0·32611	0·40309	5·1386	7·0727	8·7422
May	9.14·59	0·23693	0·32588	0·40290	5·1386	7·0677	8·7381
June	9.14·25	0·23691	0·32588	0·40287	5·1381	7·0677	8·7374
July	9.14·06	0·23686	0·32560	0·40264	5·1370	7·0616	8·7325
August	9.13·83	0·23680	0·32548	0·40250	5·1357	7·0590	8·7294
September	9.13·97	0·23674	0·32533	0·40234	5·1344	7·0558	8·7259
October	9.13·71	0·23670	0·32548	0·40245	5·1336	7·0590	8·7283
November	9·13·41	0·23625	0·32509	0·40186	5·1238	7·0505	8·7155
December	9.13·13	0·23641	0·32502	0·40190	5·1273	7·0490	8·7164
Year	9.14·16	0·23682	0·32583	0·40280	5·1362	7·0666	8·7359
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.

1903.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	9.15·5	9.15·2	9.14·3	9.15·2	9.14·8	9.14·3	9.13·7	9.13·9	...	9.14·4	...	9.13·1
2	15·6	15·3	14·4	14·8	14·2	14·4	...	13·5	9.14·2	13·7	9.13·2	12·9
3	15·4	15·4	14·2	14·5	14·3	14·7	13·7	13·8	...	13·3	13·3	13·3
4	16·1	14·4	14·5	13·6	14·1	13·9	13·8	14·2	...	14·6	13·4	14·2
5	15·3	...	14·2	14·4	13·7	14·4	14·9	14·7	14·1	13·4	14·2	13·9
6	15·2	...	14·0	13·5	14·4	14·8	13·7	14·0	13·7	...	13·4	12·8
7	15·6	14·8	14·9	14·4	14·5	14·8	14·3	13·7	14·3	13·6	12·7	13·4
8	15·5	14·5	14·5	14·7	14·9	14·1	...	14·3	...	13·5	13·1	14·5
9	15·3	14·5	14·3	14·4	15·1	14·2	14·2	13·6	13·5	13·1	13·7	12·8
10	16·0	14·7	14·2	14·6	14·7	14·3	...	13·5	13·9	14·1	13·5	13·4
11	15·2	14·1	14·7	14·5	14·5	14·5	...	14·2	14·1	14·4	12·8	13·1
12	15·1	14·9	13·8	14·9	14·9	14·2	...	14·1	13·8	14·1	13·5	13·4
13	14·9	14·5	14·7	14·8	15·1	14·9	13·9	13·4	13·4	13·7	13·1	13·8
14	...	14·9	14·5	14·7	14·8	14·7	14·3	14·1	13·8	14·1	13·8	14·7
15	...	15·2	14·5	14·6	14·9	14·2	14·1	13·6	13·4	13·9	13·6	12·8
16	...	15·4	14·2	14·6	15·4	14·2	14·6	14·1	13·8	13·6	...	12·4
17	15·1	14·7	13·8	14·3	15·0	14·1	14·1	13·6	14·1	13·8	13·5	13·0
18	15·4	14·3	14·7	14·4	14·5	14·4	14·6	14·2	14·0	13·3	14·2	12·3
19	14·7	15·0	14·4	14·6	14·0	14·3	13·9	13·6	15·1	13·8	13·5	13·3
20	15·1	14·7	15·1	14·4	14·7	13·9	13·7	14·1	14·1	...	13·8	13·6
21	15·0	14·4	15·3	15·0	14·4	14·1	14·4	13·8	14·4	14·0	12·7	13·9
22	15·5	15·0	13·9	15·0	14·8	13·9	14·2	13·7	14·1	13·2	12·8	12·5
23	15·4	14·2	14·8	15·4	14·4	14·4	14·3	13·4	...	13·5	13·0	13·8
24	14·8	14·6	14·0	14·9	14·9	12·3	13·6	13·1	14·2	13·6	13·7	12·3
25	14·7	14·4	14·1	14·2	14·5	14·5	14·7	13·9	13·8	13·5	13·2	12·6
26	...	15·3	14·3	14·6	14·5	14·8	13·7	13·4	13·8	13·8	13·6	13·1
27	15·4	15·0	13·7	14·0	14·6	14·5	13·8	13·9	...	14·0	13·4	12·7
28	14·9	14·5	14·2	13·9	14·4	13·7	13·4	13·7	14·0	13·5	14·0	12·3
29	15·6		14·5	15·0	14·4	13·7	14·4	14·2	...	13·1	13·2	12·9
30	15·4		14·5	14·9	14·5	14·2	13·7	13·5	13·8	13·4	13·5	11·8
31	14·5		14·9		14·5		14·3	...		...		12·4

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

1903.

Hour, Mauritius Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	′	′	′	′	′	′	′	′	′	′	′	′	′
Midn.	1·5	2·9	3·9	2·5	1·5	1·5	2·1	3·0	2·7	3·2	3·6	3·1	2·53
1h	1·7	3·1	4·0	2·4	1·4	1·4	2·2	2·9	2·8	3·4	3·6	3·2	2·58
2	1·8	3·2	4·1	2·5	1·5	1·2	1·9	2·8	2·7	3·4	3·6	3·2	2·56
3	2·1	3·5	4·2	2·6	1·6	1·3	1·9	2·8	2·5	3·3	3·5	3·5	2·63
4	2·3	3·7	4·4	2·6	1·6	1·1	1·9	2·7	2·6	3·5	3·9	3·5	2·72
5	2·6	4·0	4·4	2·7	1·6	1·0	1·8	2·5	2·3	3·5	4·1	3·9	2·77
6	3·1	4·4	4·5	2·8	1·4	0·9	1·7	2·2	1·6	3·2	4·8	4·5	2·83
7	3·9	6·0	5·5	2·9	1·0	0·1	1·0	1·3	1·4	3·5	5·9	5·4	3·06
8	3·8	6·6	6·9	4·1	2·1	0·5	1·1	1·8	2·9	4·4	6·2	5·7	3·74
9	3·1	6·2	7·1	5·2	3·2	1·6	2·3	3·4	4·9	5·2	5·6	5·4	4·33
10	2·3	4·5	6·3	5·0	3·8	2·5	3·5	4·9	6·2	5·8	4·6	4·5	4·39
11	1·6	2·4	4·7	3·1	3·5	2·6	4·1	5·2	6·1	5·3	3·6	3·6	3·72
Noon	0·7	0·7	2·5	1·1	2·0	2·2	3·2	4·2	4·8	3·9	2·3	2·0	2·37
13h	0·2	0·0	0·7	0·0	1·2	1·4	2·0	2·6	2·7	1·7	0·9	0·7	1·08
14	0·0	0·0	0·0	0·0	0·5	0·5	0·8	1·0	0·8	0·2	0·0	0·0	0·22
15	0·0	0·5	0·4	0·2	0·0	0·0	0·0	0·0	0·0	0·0	0·1	0·0	0·00
16	0·0	1·2	1·5	0·9	0·2	0·3	0·3	0·1	0·1	1·0	1·1	0·5	0·50
17	0·5	2·3	2·7	2·0	1·1	1·3	1·6	1·6	1·2	2·2	2·3	1·4	1·58
18	0·8	2·9	3·6	2·5	1·9	2·0	2·5	2·6	2·4	2·8	3·0	2·2	2·33
19	1·1	2·9	3·9	2·7	2·0	2·0	2·9	3·1	2·7	2·9	3·3	2·8	2·59
20	1·1	3·0	3·9	2·7	2·0	1·9	2·7	3·2	2·8	3·2	3·3	2·8	2·62
21	1·2	3·0	3·9	2·7	1·9	1·9	2·7	3·2	2·9	3·4	3·2	3·0	2·65
22	1·3	2·9	3·9	2·6	1·8	1·7	2·6	3·1	2·8	3·4	3·2	3·0	2·59
23	1·5	2·9	3·8	2·5	1·7	1·6	2·4	3·0	2·8	3·3	3·3	3·3	2·58
Means	1·59	3·03	3·78	2·43	1·69	1·35	2·05	2·63	2·70	3·15	3·29	2·97	2·46

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*).

1903.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	·23723	·23711	·23710	·23703	·23694	·23686	·23685	·23681	...	·23671	·23539	·23660
2	730	720	710	701	693	684	686	686	·23681	671	585	637
3	725	717	707	698	694	684	688	686	...	675	597	639
4	727	...	709	713	696	688	690	692	...	682	613	639
5	724	...	707	706	687	687	695	677	674	682	617	631
6	718	...	713	...	688	690	688	680	674	676	616	641
7	722	717	703	652	688	690	682	685	680	671	619	635
8	721	710	705	678	691	696	688	685	...	674	622	641
9	727	700	699	...	691	700	693	687	673	671	631	647
10	719	704	700	...	691	698	683	687	676	678	617	651
11	721	701	697	684	694	702	...	...	682	677	623	653
12	716	706	710	686	698	700	...	...	677	664	618	648
13	721	705	699	690	698	698	691	684	685	...	627	626
14	...	702	705	693	699	700	688	...	679	644	630	590
15	...	704	691	688	695	694	687	679	681	655	630	615
16	...	712	704	691	699	693	690	688	684	668	635	628
17	718	708	707	693	701	688	691	686	688	668	626	634
18	714	712	713	697	690	690	692	688	682	664	636	641
19	718	717	712	692	694	689	678	686	665	661	618	649
20	714	721	703	694	698	688	684	687	661	671	633	639
21	719	718	708	696	700	...	680	686	660	675	642	633
22	715	698	706	699	700	684	683	657	663	671	631	639
23	724	700	704	701	690	686	681	660	662	670	629	643
24	714	702	699	698	694	682	687	670	665	675	633	645
25	716	704	700	695	688	687	696	...	664	679	632	653
26	...	708	704	702	686	692	...	...	670	660	642	...
27	...	703	708	690	692	697	683	669	677	661	648	655
28	702	708	703	694	692	697	678	672	680	667	666	660
29	712		706	692	689	683	679	673	666	669	649	655
30	707		711	696	688	...	680	678	669	676	648	653
31	710		708		692		683	...		...		...

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*).

1903.

Hour, Mauritius Civil Time.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Midn.	17	31	15	14	21	16	22	30	60	44	40	15	20·1
1h	30	26	17	20	32	21	26	51	86	69	46	30	30·8
2	35	39	31	29	42	40	38	70	107	85	62	36	44·2
3	35	40	38	44	46	53	51	80	108	111	80	51	54·4
4	41	37	36	47	59	62	55	91	114	95	75	48	56·3
5	44	40	50	55	62	70	73	101	133	99	60	48	62·6
6	51	46	50	63	73	84	107	117	140	93	52	61	71·1
7	76	57	54	65	98	111	112	149	160	109	58	94	88·3
8	85	48	37	75	118	137	146	181	176	119	63	125	102·2
9	107	43	40	91	113	153	143	184	180	145	69	128	109·3
10	134	48	90	121	121	168	134	165	184	184	72	163	125·0
11	119	72	134	158	132	182	124	160	198	216	79	167	138·1
Noon	68	76	140	171	117	163	103	166	200	201	107	127	129·6
13h	65	74	116	148	81	143	75	146	165	180	122	124	112·9
14	58	50	76	90	45	118	55	130	103	134	106	106	82·3
15	35	33	32	41	10	75	24	84	32	92	66	50	40·8
16	10	28	3	10	0	33	0	32	9	62	36	5	12·0
17	29	33	5	14	2	15	1	0	0	43	18	5	6·7
18	28	23	13	17	21	25	22	9	5	20	4	0	8·6
19	7	9	11	6	24	12	24	12	6	9	0	3	3·3
20	0	0	5	2	19	8	10	13	14	0	10	3	0·0
21	5	5	0	0	17	0	15	14	27	6	4	12	1·7
22	2	11	5	1	12	3	14	18	32	15	9	10	4·0
23	10	23	7	6	19	4	13	25	44	41	21	10	11·6
Means	45·5	37·2	41·9	53·7	53·5	70·7	57·8	84·5	95·1	90·5	52·5	59·2	54·8

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

Day of Month.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	81·2	82·4	82·6	81·9	79·6	77·7	75·8	74·6	74·2	74·5	76·2	79·8
2	81·3	82·8	82·5	81·6	79·4	77·6	75·7	74·7	74·4	74·5	76·2	79·6
3	81·0	82·8	82·7	81·5	79·4	77·7	75·7	74·8	74·6	74·7	76·4	79·8
4	81·2	82·6	82·7	82·1	79·6	77·7	75·7	74·6	74·7	74·8	76·6	79·8
5	81·4	82·4	82·7	81·7	79·4	77·6	75·4	74·6	74·6	74·8	76·6	80·0
6	81·4	82·4	82·7	81·6	79·6	77·6	75·4	74·7	74·7	74·7	76·6	80·2
7	81·4	82·4	82·7	81·2	79·4	77·2	75·2	74·7	74·7	74·5	76·6	80·4
8	81·5	82·4	82·6	80·7	79·5	77·2	75·0	74·5	74·4	75·0	76·9	80·2
9	81·8	82·4	82·6	80·6	79·5	77·4	75·4	74·6	74·4	74·5	76·9	80·1
10	82·0	82·4	82·6	80·8	79·6	77·2	74·6	74·5	74·4	75·0	77·0	80·0
11	82·2	82·4	82·4	80·8	79·6	77·1	74·0	74·3	74·6	75·3	77·2	80·0
12	82·4	82·6	82·6	81·0	79·5	77·0	74·7	74·2	74·9	75·6	77·2	79·9
13	82·4	82·6	82·4	81·2	78·9	76·6	74·7	74·4	75·0	75·8	77·3	79·9
14	82·3	82·6	82·5	81·1	78·5	76·7	74·4	74·5	74·4	76·0	77·4	79·6
15	82·2	82·8	81·8	80·9	78·3	76·6	74·5	74·4	74·4	76·0	77·6	79·6
16	82·3	83·1	82·7	80·7	78·4	76·3	74·7	74·6	74·2	76·2	77·8	79·8
17	81·8	83·2	82·8	80·5	78·4	76·2	74·5	74·3	74·4	76·2	77·7	80·0
18	81·7	83·2	82·8	80·4	78·2	76·3	74·6	74·3	74·4	76·1	77·6	79·9
19	81·7	83·1	82·9	80·0	78·4	76·2	74·5	74·3	74·5	75·7	77·9	79·9
20	81·8	83·2	82·8	80·3	78·3	76·2	74·6	74·5	74·6	75·7	78·3	80·0
21	81·7	82·8	82·9	80·4	78·3	76·1	74·5	74·4	74·2	75·9	78·7	80·0
22	81·8	82·7	83·0	80·5	78·3	76·0	74·5	74·4	74·2	76·1	78·4	79·8
23	81·8	82·6	83·0	80·4	78·4	76·2	74·0	74·4	74·3	76·4	78·5	79·7
24	81·9	82·6	82·6	80·5	78·2	76·2	74·4	74·4	74·4	76·6	78·4	79·6
25	81·7	82·6	82·4	80·5	78·0	76·2	74·3	74·3	74·1	76·6	78·5	79·6
26	82·0	82·5	82·3	80·4	78·0	76·1	74·2	74·5	74·2	76·6	78·6	79·7
27	81·8	82·5	82·3	80·2	78·0	76·0	74·4	74·5	74·2	76·5	78·9	79·8
28	82·0	82·6	82·2	80·1	78·1	75·6	74·3	74·7	74·4	76·3	79·7	79·8
29	82·0		82·4	79·9	77·8	75·8	74·4	74·6	74·6	76·2	79·5	80·0
30	82·3		82·5	79·9	77·6	75·7	74·6	74·4	74·6	76·4	79·4	80·2
31	82·4		82·2		77·5		74·6	74·2		76·4		80·4
Means	81·8	82·7	82·6	80·8	78·7	76·7	74·8	74·5	74·5	75·7	77·7	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.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Midn.	93	121	163	132	91	55	101	134	144	113	109	106	107·7
1h	95	120	161	128	91	55	97	129	146	114	106	102	106·2
2	89	120	158	127	90	54	100	128	141	115	104	103	104·9
3	87	119	155	127	88	53	97	130	142	110	108	104	104·2
4	90	120	157	124	90	52	98	130	143	114	113	107	105·1
5	92	123	156	127	90	53	98	130	144	116	118	111	107·3
6	106	133	161	131	91	53	100	129	135	115	133	128	112·1
7	116	152	184	136	90	46	85	118	148	134	155	148	120·2
8	111	148	200	162	111	52	97	145	189	157	152	152	133·8
9	99	121	178	161	113	63	125	177	229	171	113	138	134·8
10	77	67	141	132	95	64	137	189	234	176	90	113	120·4
11	47	19	84	64	54	50	130	157	194	142	67	74	84·3
Noon	28	0	31	11	27	33	93	106	119	80	38	38	44·5
13h	6	10	0	0	10	11	38	51	41	19	11	12	11·6
14	0	30	9	7	4	0	6	12	0	0	0	2	0·0
15	4	48	47	33	0	0	0	0	7	33	7	0	9·1
16	10	68	88	63	14	16	29	35	37	62	44	30	35·5
17	21	86	120	92	49	42	74	90	82	89	74	55	67·0
18	31	97	137	109	73	54	100	129	118	101	88	78	87·1
19	47	102	142	117	82	57	105	136	132	103	95	86	94·5
20	61	106	150	125	87	60	105	141	137	108	97	90	99·8
21	76	115	156	130	89	59	106	143	146	113	103	94	105·0
22	86	118	163	131	90	60	111	140	145	117	109	102	108·5
23	90	121	164	132	93	57	104	135	146	116	113	106	108·9
Means	65·1	94·3	129·4	104·2	71·3	45·8	89·0	117·2	129·1	104·9	89·5	86·6	88·0

TABLE XII.—DIURNAL RANGE of MAGNETIC DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE on QUIET DAYS 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* ·00001 *of the Centimètre-Gramme-Second Unit*).

Day of Month.	1903. January. Dec.	H.F.	V.F.	February. Dec.	H.F.	V.F.	March. Dec.	H.F.	V.F.	April. Dec.	H.F.	V.F.	May. Dec.	H.F.	V.F.	June. Dec.	H.F.	V.F.
d	′			′			′			′			′			′		
1	3·9	15	14	8·5	6	17	10·9	...	31	8·1	22	22	7·0	11	15	5·4	...	24
2	3·6	18	14	10·0	11	...	8·0	20	...	6·1	30	27	6·3	13	12	3·2	...	11
3	7·1	15	28	6·1	13	...	8·8	15	...	6·4	9	22	7·1	12	21	4·1	27	16
4	3·6	24	13	7·2	...	...	9·0	13	15	5·3	45	16	6·4	15	23	3·1	21	15
5	6·0	37	8	...	...	...	9·9	...	21	6·0	...	24	5·9	28	17	3·8	14	...
6	4·1	23	...	...	...	...	7·9	25	18	9·1	...	31	5·0	37	17	5·2	19	21
7	4·3	19	...	4·5	16	12	5·2	...	19	5·0	31	19	2·9	30	12	3·0	15	22
8	4·2	16	...	5·1	46	10	2·9	35	8	6·9	37	19	3·9	24	13	2·4	23	13
9	3·2	38	...	3·0	24	15	5·3	26	19	4·0	...	9	3·6	29	14	3·0	15	12
10	3·2	24	17	5·5	10	22	9·0	13	31	5·0	...	22	3·6	14	13	2·4	18	20
11	5·9	31	20	7·5	16	18	7·0	26	32	6·2	28	22	2·2	12	7	2·1	27	19
12	6·7	11	18	7·4	20	21	8·1	27	28	7·0	17	23	3·9	21	11	3·0	21	19
13	8·0	19	...	10·6	29	17	7·1	...	20	7·9	7	20	2·1	20	8	3·3	20	14
14	4·2	...	...	9·6	18	21	6·1	17	19	4·9	23	27	4·4	19	20	2·9	15	17
15	5·5	...	...	10·8	19	29	11·1	18	36	6·9	43	19	4·0	17	15	3·1	35	17
16	6·4	...	...	9·8	16	23	8·9	...	18	6·8	32	21	5·9	15	22	3·8	27	26
17	6·7	19	...	8·0	18	17	9·0	20	18	7·1	30	17	4·0	19	21	4·7	26	11
18	6·1	...	...	7·3	15	23	9·0	24	19	6·8	...	11	4·9	19	18	5·4	20	12
19	5·9	36	...	7·9	34	25	6·7	23	12	4·4	35	8	6·3	8	17	3·5	20	15
20	3·1	26	...	6·0	27	18	8·7	11	21	7·4	18	18	5·1	15	19	3·0	21	11
21	2·8	26	...	7·0	35	14	7·6	27	11	5·0	17	13	3·2	16	17	2·3	...	13
22	4·7	20	...	4·0	29	7	8·9	19	30	6·1	12	26	2·7	19	15	4·1	27	24
23	6·8	30	...	9·1	14	13	8·9	20	25	3·9	23	14	3·0	31	23	2·7	23	18
24	6·9	23	...	6·6	8	17	8·2	19	32	4·7	15	23	4·4	23	21	4·7	25	13
25	4·6	24	...	10·8	14	26	7·1	19	32	6·9	18	28	3·3	19	23	2·5	13	20
26	...	...	...	11·8	12	31	7·1	27	22	5·5	30	16	3·0	13	17	4·2	23	24
27	6·0	...	26	7·0	21	15	6·6	39	19	4·5	20	19	3·9	17	18	2·0	26	6
28	5·1	11	14	10·8	24	...	3·7	18	18	4·1	15	13	2·1	27	17	4·2	...	13
29	6·7	16	16				5·4	33	20	7·5	11	23	3·3	15	14	3·8	...	14
30	7·0	23	19				4·6	35	16	7·0	11	24	3·9	26	18	4·1	...	12
31	8·1	20	15				4·5	34	17				2·1	19	15			
Means	5·35	22·6	17·1	7·77	19·8	18·7	7·46	23·2	21·6	6·08	23·2	19·9	4·17	19·5	16·5	3·50	20·8	16·3

TABLE XIII.—MONTHLY MEAN TEMPERATURE at 7^h, 10^h, 13^h, 16^h, and 23^h within the GLASS SHADES covering the HORIZONTAL FORCE and VERTICAL FORCE MAGNETS.

Mauritius Civil Time.	1903. January. H.F.	V.F.	February. H.F.	V.F.	March. H.F.	V.F.	April. H.F.	V.F.	May. H.F.	V.F.	June. H.F.	V.F.
	°	°	°	°	°	°	°	°	°	°	°	°
7^h	81·81	81·82	82·65	82·65	82·59	82·58	80·73	80·73	78·70	78·70	76·65	76·65
10	81·85	81·84	82·67	82·67	82·58	82·58	80·79	80·79	78·70	78·70	76·66	76·66
13	81·86	81·86	82·67	82·67	82·57	82·57	80·80	80·81	78·71	78·70	76·69	76·69
16	81·83	81·84	82·67	82·67	82·56	82·56	80·78	80·77	78·69	78·72	76·67	76·67
23	...	...	...	...	...	...	...	...	...	...	76·69	76·70

TABLE XII.—DIURNAL RANGE of MAGNETIC DECLINATION, HORIZONTAL FORCE AND VERTICAL FORCE on QUIET DAYS as derived from the HOURLY MEASURES of the MAGNETOGRAMS—*concluded.*

(*The Declination is expressed in minutes of arc ; the unit for Horizontal Force and Vertical Force is* ·00001 *of the Centimètre-Gramme-Second Unit*).

1903.																		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.	
′			′			′			′			′			′			d
3·0	26	14	6·1	26	21	...	...	...	7·1	18	28	...	...	...	6·3	20	29	1
...	8	14	5·0	26	16	5·3	...	15	7·8	...	23	4.1	...	11	7·5	50	25	2
3·4	20	10	4·5	15	12	...	...	...	3·9	30	13	6·5	32	23	5·1	43	16	3
5·1	12	25	7·0	23	19	...	...	...	4·7	32	28	7·7	45	12	6·5	34	19	4
4·9	22	9	5·0	29	22	6·3	...	34	5·6	49	26	9·1	28	22	7·5	26	14	5
6·2	32	19	4·4	20	22	6·0	12	28	...	32	29	6·4	38	18	9·3	28	33	6
5·5	19	16	4·4	21	18	5·2	24	35	7·0	29	26	9·6	29	28	8·1	39	24	7
...	17	...	2·4	19	14	...	...	...	5·8	...	...	6·9	31	11	6·2	33	14	8
4·1	26	18	4·3	31	27	6·0	21	23	5·1	20	25	8·6	32	22	7·7	32	23	9
...	...	20	3·3	22	16	5·5	28	28	8·6	25	30	6·1	...	17	7·3	17	18	10
...	...	...	5·6	...	22	6·2	16	...	8·5	27	25	7·0	18	17	6·3	23	7	11
...	...	...	6·0	...	16	9·0	32	37	9·1	...	18	6·6	16	22	4·3	14	10	12
3·9	15	14	5·2	21	23	4·2	35	23	4·8	...	13	4·9	11	...	5·3	...	...	13
4·0	15	12	5·5	...	19	8·1	32	...	5·1	42	11	5·2	15	...	4·6	...	...	14
2·7	18	13	8·1	15	17	5·0	31	13	7·4	37	23	5·1	13	18	4·4	...	14	15
4·7	19	28	8·4	33	28	6·0	35	21	4·7	...	4	...	42	13	3·8	25	14	16
3·1	21	11	4·9	28	13	6·1	28	22	7·5	25	22	9·2	35	17	5·5	19	15	17
4·0	21	15	5·5	26	17	7·7	33	25	4·1	18	15	6·0	32	15	7·2	21	23	18
2·6	...	8	4·6	12	15	6·8	...	21	8·0	21	33	5·1	...	...	7·2	17	17	19
5·3	22	17	7·3	37	27	6·8	...	23	...	15	26	5·8	25	18	10·2	...	21	20
7·1	21	24	7·4	26	42	7·1	23	23	5·5	21	18	7·2	27	22	6·6	33	13	21
5·7	17	12	6·1	...	23	7·8	18	29	6·0	...	24	9·3	...	25	7·5	18	21	22
5·7	15	20	6·1	32	33	...	...	26	7·9	27	23	8·6	...	22	6·3	21	15	23
6·0	12	20	4·3	26	34	6·5	...	30	8·0	37	22	9·1	22	18	5·8	21	13	24
4·7	23	23	6·1	...	...	8·3	22	32	6·0	32	17	7·7	15	23	7·6	20	10	25
4·7	...	19	8·4	...	...	8·0	15	27	6·7	...	14	6·6	9	17	6·3	...	13	26
3·9	...	15	5·4	45	18	...	...	33	3·1	32	8	5·9	19	25	6·0	32	15	27
5·0	38	16	7·8	29	27	8·0	20	26	6·0	25	13	4·9	23	21	5·6	26	10	28
4·8	23	23	4·2	23	10	...	...	23	5·9	23	11	1·1	30	37	5·1	24	15	29
4·2	19	15	5·3	...	12	5·1	27	16	6·7	...	15	4·1	31	14	10·3	...	24	30
5·6	17	21	...	...	...				...	...	...				1·8	...	13	31
4·61	19·9	16·8	5·62	25·4	20·8	6·29	25·1	25·5	6·31	28·0	20·1	6·59	25·7	19·5	6·43	26·5	17·2	Means

TABLE XIII.—MONTHLY MEAN TEMPERATURE at 7^h, 10^h, 13^h, 16^h, and 23^h within the GLASS SHADES covering the HORIZONTAL FORCE and VERTICAL FORCE MAGNETS—*concluded.*

1903.												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.	
°	°	°	°	°	°	°	°	°	°	°	°	
74·71	74·71	74·45	74·48	74·41	74·43	75·67	75·69	77·65	77·67	79·87	79·90	7^h
74·74	74·74	74·49	74·48	74·44	74·47	75·65	75·68	77·66	77·72	79·89	79·91	10
74·80	74·79	74·47	74·49	74·47	74·49	75·69	75·72	77·71	77·78	79·89	79·91	13
74·77	74·75	74·47	74·48	74·46	74·48	75·74	75·79	77·67	77·73	79·89	79·93	16
74·80	74·81	74·50	74·51	74·52	74·55	75·75	75·76	77·74	74·74	79·98	79·98	23

TABLE XIV.—HOURLY VARIATIONS of the HORIZONTAL MAGNETIC FORCE, above or below the MEAN for the MONTH, on DAYS of MAGNETIC DISTURBANCE during the YEAR 1903.

(*The unit is* ·00001 *of the Centimètre-Gramme-Second Unit. No correction for temperature has been applied*).

Hour, Mauritius Civil Time, 1903.	Jan.	March.					April.			June.					July.					August.					
	18d.	1d.	5d.	7d.	13d.	16d.	5d.	6d.	18d.	1d.	2d.	28d.	29d.	30d.	10d.	11d.	19d.	26d.	27d.	11d.	12d.	14d.	22d.	26d.	30d.
Midnight	−9	+5	0	−2	+4	−8	+6	−8	−8	−8	−28	+10	−12	...	−1	−20	−3	+6	−10	+3	−3	−7	−7	...	−8
1h	−8	+6	+1	−1	−7	−8	+6	−6	−3	−7	−20	+11	−14	...	0	−16	−3	+6	−3	+5	0	−9	−4	...	−6
2	−8	+6	+9	−5	+3	−6	+6	−5	0	−6	−23	+12	−8	...	0	−14	−3	+3	−3	+6	0	−8	−3	...	−6
3	−7	+6	+15	−3	+6	−5	+5	−5	+4	−5	−14	+15	−5	...	+3	−12	0	0	−3	+8	+5	−5	+11	...	−6
4	−5	+7	+15	−3	−1	−3	+8	+16	+6	−3	−12	+16	+4	...	−1	−10	+4	+4	−3	+11	+3	−4	+6	...	−3
5	+2	+7	+21	0	−4	−2	+11	+24	+7	−2	−17	+17	+4	...	+2	−6	+6	+8	0	+13	+1	+2	−12	...	0
6	+4	+8	+14	+1	−5	−3	+12	+18	+10	0	−2	+20	+6	...	+2	−3	+7	+9	+6	+20	+3	+4	−12	...	+3
7	+2	+6	+7	+9	−2	−2	+18	+12	+13	+3	+4	+26	+10	+12	+5	+4	+10	+17	+10	+26	+5	+10	−3	...	+10
8	+5	0	+10	+9	−7	−1	+17	−3	+18	+4	−5	+26	+16	+20	+9	+9	+11	+23	+16	+29	+11	+16	−7	+9	+16
9	+5	−5	+9	+15	−11	−2	+18	−5	+27	+7	−2	+28	+16	+15	+8	+12	+4	+26	+15	+30	+17	+17	−27	+12	+17
10	+5	−6	+17	+28	−5	+4	+30	−13	+34	+12	−2	+27	+15	+10	+9	+6	+9	+26	+10	+31	+20	+13	−16	+11	+16
11	−6	−3	+15	+24	+4	+6	+32	0	+39	+15	+8	+26	+18	+1	+12	+5	+9	+12	+8	+40	+23	+8	−6	+8	+13
Noon	−17	+4	+10	+8	+4	+7	+29	−2	+40	+16	+7	+28	+15	−2	+18	0	0	+11	+8	+33	+25	−7	−8	−42	+17
13h	−15	+15	+4	0	+1	+1	+23	+12	+27	+10	−2	+33	+18	−11	+18	−9	−8	+13	+8	+18	+20	−20	−30	−35	+16
14	−7	+21	+1	−11	−2	−4	+21	−55	+12	+3	−8	+33	+15	−20	+9	−15	−18	−5	+6	+13	+14	−15	−38	−48	+10
15	−4	+19	−9	−21	−5	−8	+16	...	0	−12	−12	+24	+12	−26	+8	−20	−12	−15	−1	+18	+5	−9	−35	−50	+3
16	+5	+12	−15	−27	−11	−8	+1	...	−16	−20	−26	+21	+4	−21	+4	...	−15	−18	−6	+11	−9	−13	−49	−59	−9
17	+11	+6	−17	−21	−13	−8	−3	...	−6	−33	−29	+21	+6	−15	0	...	−15	−35	−9	+5	−21	−21	−54	−56	−24
18	+2	+4	−16	−13	−13	−5	−11	...	−2	−44	−17	+21	+3	−8	0	...	−12	−18	−9	−15	−12	−17	−56	−65	−16
19	−4	+3	−16	−14	−14	−4	−29	...	−7	−52	−23	+15	−25	−8	−7	...	−17	−13	−3	−5	−6	−13	−47	−71	−21
20	−12	0	−22	−7	−8	−3	−19	...	−14	−42	−25	+9	−25	−8	−24	...	−17	−12	−4	−4	−4	−11	−45	−66	−18
21	−7	−2	−13	−14	−1	−3	−18	...	−11	−49	−29	−8	−17	−14	−29	...	−6	−17	−8	−16	−4	−9	−30	−52	−15
22	−10	+4	−10	−11	−12	−4	−12	−69	−20	−42	−28	−14	−19	−10	−28	...	−9	−17	−3	−1	−3	−2	−31	−51	−12
23	−12	−2	−2	−8	−8	−5	−10	−67	+3	−32	−22	−15	−16	−12	−21	...	−6	−16	−2	−6	+2	−6	−16	−47	−9
Daily Range	29	30	43	59	25	18	62	...	62	69	43	53	50	...	52	...	32	63	32	60	46	44	73	85	43

Hour, Mauritius Civil Time, 1903.	September.								October.						November.					December.		
	2d.	5d.	19d.	20d.	23d.	24d.	27d.	29d.	2d.	8d.	16d.	22d.	26d.	30d.	2d.	10d.	19d.	22d.	23d.	15d.	20d.	30d.
Midnight	0	+1	+3	−28	−10	−12	−5	+10	+16	+10	−18	−3	−5	−12	−31	+8	+6	+6	+11	−40	+1	+10
1h	+4	+4	+6	−22	−2	−8	−4	+7	+21	+7	−14	+1	+10	−11	−36	+11	+7	+6	0	−39	+2	+6
2	+4	+6	+7	+3	−3	+2	−4	+7	+19	+21	−17	+1	+1	+1	−30	+11	−1	+5	+6	−39	+1	+6
3	+5	+7	+8	−17	−2	−3	−1	+11	+25	+15	−11	+1	+10	+10	−30	+18	−2	+23	−6	−38	+11	+7
4	+4	+5	+10	−17	0	−6	+1	+10	+18	+21	−14	−1	+1	+1	−23	+23	−1	+11	−5	−38	+8	+10
5	+4	+5	+10	−11	+4	+7	+4	+19	+16	+16	−16	−2	−2	+4	−30	+8	+16	+3	−3	−38	+7	+8
6	+7	+4	+16	−7	+4	+2	+7	+22	+16	+13	−15	−4	−11	+4	−37	+12	+11	+6	0	−38	+10	+16
7	+12	+10	+21	−9	−2	+1	+13	+21	+20	+13	−13	−1	+4	−8	−35	+9	+8	+5	+2	−31	+15	+34
8	+15	+10	+24	−2	−3	+3	+13	+9	+22	+10	−11	+1	0	−13	−27	+2	−11	−2	−1	−25	+12	+56
9	+16	+10	+21	+3	−1	+3	+9	+7	+23	+16	−2	+7	−4	−5	−21	−2	−18	−6	−4	−23	+1	+47
10	+17	+7	+20	+6	+10	−11	+10	−1	+23	+24	+12	+10	−20	+7	−21	−6	−27	−6	−6	−19	+4	+54
11	+22	+4	+17	+1	+22	−2	+19	−5	+33	+31	+21	+8	−12	+12	−24	−6	−28	0	−9	−16	+5	+49
Noon	+28	+16	+10	0	+7	+2	+8	−13	+27	+10	+23	+13	−16	+10	−18	−8	−38	0	−7	−22	+9	+30
13h	+24	+19	−11	−4	−11	−2	+1	−15	+18	+27	+16	+16	−25	+13	−12	−7	−36	−16	−11	−21	0	+16
14	+18	+13	−25	−8	−22	−14	−6	−18	+11	+30	+7	+15	−33	+9	−12	−11	−33	−23	−8	−13	−8	−8
15	+4	+12	−40	−28	−28	−28	−9	−31	−2	+22	−5	+14	−37	+8	−24	−27	−29	−27	−14	−11	−6	−25
16	−8	−2	−28	−46	−28	−28	−5	−40	+4	+15	−14	+10	−36	+3	−33	−23	−27	−31	−18	−17	−8	−52
17	−8	−34	−14	−26	−26	−17	+4	−40	+4	+1	−14	+1	−37	−2	−43	−24	−24	−18	−18	−22	−33	−40
18	−2	−28	−34	−32	−49	−14	+7	−37	−6	−11	−14	−10	−46	−3	−56	−27	−19	−15	−22	−37	−43	−33
19	+1	−32	−40	−34	−22	−13	+18	−24	−11	−19	−16	−23	−49	−5	−24	−30	−17	−10	−29	−49	−51	−17
20	−2	−31	−52	−34	−16	−14	+17	−40	−8	−6	−18	−37	−47	−11	−33	−18	−15	−10	−30	−40	−50	−25
21	−5	−25	−47	−3	−13	−13	+16	−30	0	−5	−14	−35	−49	−17	−36	−25	−15	−12	−19	−34	−46	−20
22	0	−13	−61	−16	−13	−11	+16	−13	+3	+4	−14	−22	−44	−13	−18	−15	−12	−7	−3	−26	−29	−23
23	−1	−11	−27	−19	−9	−11	+17	−13	+7	+4	−19	−19	−40	−13	−24	−7	−15	−6	−1	−26	−28	−19
Daily Range	37	59	86	53	74	40	33	74	47	57	44	56	67	34	46	63	61	60	53	39	66	121

MAGNETIC DISTURBANCES in DECLINATION, HORIZONTAL FORCE and VERTICAL FORCE, recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS in the YEAR 1903.

The following is a brief description of the principal magnetic disturbances recorded in the year 1903. In Horizontal Force and Vertical Force the unit of measurement is ·00001 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, except when the disturbance is of short duration.

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. The term undulation is used to indicate smooth shallow fluctuations too small to be described as waves.

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

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

1903		
January	$18^d.\ 10^h$ to $23\frac{1}{2}^h$.	Smooth double wave in H.F. (−18 at 14^h to + 17 at 17^h).
	$27^d.\ 2^h$ to $3\frac{1}{2}^h$.	Wave in H.F. (+19).
	$27^d.\ 4\frac{1}{2}^h$ to $7\frac{1}{2}^h$.	Loss of H.F. register.
February	$8^d.\ 12\frac{1}{2}^h$ to 14^h.	Decrease in H.F. (38), followed until 18^h by small fluctuations : $8^d.\ 21\frac{1}{2}^h$ to $9^d.\ 1^h$, double wave in H.F. (−15 to + 15).
	$12^d.\ 21^h$ to $13^d.\ 5^h$.	Small rapid fluctuations in H.F. with wave $20\frac{1}{2}^h$ to $23\frac{1}{2}^h$ (+17) : $12^d.\ 22^h$ to $13^d.\ 3^h$, very small fluctuations in V.F.
March	$1^d.\ 10^h$ to 22^h.	Smooth wave in H.F. (+26), followed until $23\frac{1}{2}^h$ by small fluctuations : $1^d.\ 22^h$ to $2^d.\ 1^h$ rapid fluctuations in V.F.
	$5^d.\ 1\frac{1}{2}^h$.	Sudden increase in H.F. (12), followed until $6^d.\ 2^h$ by occasional, small rapid fluctuations : occasional very small fluctuations in V.F.
	7^d.	Accentuated diurnal variation in H.F.
	$12^d.\ 20^h$ to $14^d.\ 4^h$.	Occasional small fluctuations in H.F. $13^d.\ 0^h$ to 2^h wave in H.F. (−19).
	$16^d.\ 11^h$ to 20^h.	Occasional small rapid fluctuations in V.F.
	$30^d.\ 10^h$ to 13^h.	Small fluctuations in H.F.
	$30^d.\ 21\frac{1}{2}^h$ to $31^d.\ 4^h$.	Occasional very small fluctuations in H.F. and V.F.
April	$5^d.\ 10^h$ to 19^h.	Irregular decrease in H.F. (63).
	$6^d.\ 3\frac{1}{4}^h$.	Sudden increase in H.F. (19) : slight increase in V.F. and decrease in Dec. : $8\frac{3}{4}^h$ to 9^h decrease in H.F. (29) : 13^h to $14\frac{3}{4}^h$ decrease in H.F. (84); register then went out of range, returning at 21^h, the force increasing gradually (85), until $9^d.\ 12^h$. Slightly accentuated diurnal variation in V.F. and Dec. on 6^d. with small fluctuations from 12^h to 21^h.
	$9^d.\ 2\frac{3}{4}^h$ to 5^h.	Wave in H.F. (+23); in Dec. (−2′) : $8^d.\ 23^h$ to $9^d.\ 4^h$ small fluctuations in V.F.
	$9^d.\ 8^h$ to $10^d.\ 8^h$.	Loss of H.F. register.
	$18^d.\ 12^h$ to 16^h.	Decrease in H.F. (56), followed by small fluctuations until $19^d.\ 2^h$.
May	$17^d.\ 2^h$.	Sudden increase in H.F., and V.F., and decrease in Dec., followed by small fluctuations until 8^h.
June	$1^d.$—2^d.	Accentuated diurnal variation in H.F. with superposed undulations.
	$17^d.\ 0\frac{3}{4}^h$ to $3\frac{1}{4}^h$.	Double wave in H.F. (−13 to + 11).
	$28^d.\ 12\frac{1}{2}^h$ to $29^d.\ 9^h$.	Wave in H.F. (−52), preceded immediately by a sudden increase of force (7).
	$29^d.\ 18^h$ to 20^h.	Wave in H.F. (−25), with small superposed fluctuations : in V.F., and Dec. small fluctuations.
	$30^d.\ 0^h$ to $6\frac{3}{4}^h$.	Loss of H.F. register.
	$30^d.\ 8\frac{1}{2}^h$ to $14\frac{1}{2}^h$.	Decrease in H.F. (52), followed till 19^h by an increase of force (23) : small superposed fluctuations.
July	$10^d.$—11^d.	Accentuated diurnal variation in H.F.
	$11^d.\ 15\frac{1}{2}^h$ to $12^d.\ 7\frac{1}{2}^h$.	Loss of H.F. register.
	19^d.	Accentuated diurnal variation in H.F. with occasional fluctuations.
	$26^d.$—27^d.	Accentuated diurnal variation in H.F. with occasional undulations.

MAGNETIC DISTURBANCES in DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE, recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1903—*concluded.*

August	$11^d.\ 10^h$ to $23\frac{1}{2}^h$.	Small fluctuations in H.F., V.F., and Dec. : $11^d.\ 16\frac{1}{2}^h$ to $19\frac{1}{2}^h$ wave in H.F. (−25).
	$12^d.\ 13\frac{1}{2}^h$ to 21^h.	Wave in H.F. (−27).
	$14^d.\ 11^h$ to $12\frac{1}{2}^h$.	Decrease in H.F. (26) : 16^h to $17\frac{1}{2}^h$ wave in H.F. (−12).
	$22^d.\ 0^h$ to $23^d.\ 2^h$.	Frequent small fluctuations in H.F., V.F., and Dec. : $22^d.\ 7^h$ to $11\frac{1}{2}^h$ wave in H.F. (−27) : $11\frac{1}{2}^h$ to 23^h irregular wave in H.F. (−54).
	$25^d.\ 17^h$ to $26^d.\ 8^h$.	Loss of H.F. register.
	$26^d.\ 10\frac{3}{4}^h$ to 12^h.	Decrease in H.F. (56), followed till 23^h by small fluctuations : $13\frac{1}{2}^h$ to $13\frac{3}{4}^h$ sharp wave in H.F. (+16) ; in V.F. (−5) ; in Dec. (−0′7).
	$30^d.\ 12^h$ to 23^h.	Wave in H.F. (−33).
	$31^d.\ 6^h$ to Sep. $1^d.13^h$.	Loss of H.F. ; V.F. ; and Dec. register.
September	2^d.	Accentuated diurnal variation in H.F.
	$3^d.\ 4^h$ to $4^d.\ 13^h$.	Loss of H.F. register.
	5^d.	Accentuated diurnal variation in H.F.
	$9^d.\ 8^h$ to 13^h.	Wave in H.F. (−20) : in V.F., and Dec., very small fluctuations.
	$10^d.\ 20\frac{3}{4}^h$ to 22^h.	Wave in H.F. (+17) : very small fluctuations in V.F.
	$12^d.\ 16^h$ to 23^h.	Undulations in H.F. (± 6).
	19^d.—20^d.	Accentuated diurnal variation in H.F. with waves $19^d.\ 12^h$ to 17^h (−36) ; 21^h to 23^h (−25) ; $20^d.\ 1^h$ to 3^h (+27) ; $14\frac{1}{2}^h$ to $16\frac{3}{4}^h$ (−28) ; $20\frac{1}{2}^h$ to $21\frac{1}{2}^h$ (+18).
	$23^d.\ 9^h$ to 13^h.	Wave in H.F. (+29) ; $15\frac{1}{2}^h$ to $18\frac{3}{4}^h$ double wave in H.F. (+15 to −19) ; slight but very sudden increase in H.F. at $12^h.\ 8^m$ and return, with corresponding decrease in V.F. at $12^h.\ 5^m$. Loss of Dec. register from $23^d.\ 7^h$ to $23\frac{1}{2}^h$.
	$24^d.\ 1^h$ to 19^h.	Small undulations in H.F. with wave 12^h to 19^h (−27).
	$27^d.\ 11\frac{1}{2}^h$ to $17\frac{1}{2}^h$.	Wave in H.F. (−24).
	$27^d.\ 18\frac{3}{4}^h$.	Sudden increase in H.F. (12) ; in V.F. equally sharp but small.
	29^d.	Accentuated diurnal variation in H.F. with frequent small fluctuations, and wave (+16) from $18\frac{1}{4}^h$ to $19\frac{3}{4}^h$.
October	$2^d.\ 10^h$ to 18^h.	Three successive waves in H.F. (+20) ; (+15) ; (+14), culminating at $11\frac{1}{4}^h$; $13\frac{1}{2}^h$ and $16\frac{3}{4}^h$ respectively.
	8^d.	Accentuated diurnal variation in H.F. with waves 11^h to $13\frac{1}{2}^h$ (−23) ; $21\frac{3}{4}^h$ to $23\frac{1}{4}^h$ (+18).
	12^d.—13^d.	See Plate I.
	16^d.	Accentuated diurnal variation in H.F.
	22^d.	Accentuated diurnal variation in H.F. with wave 21^h to $23\frac{1}{2}^h$ (+19).
	$25^d.\ 11^h$ to $26^d.\ 23^h$.	Fluctuations in H.F. (± 6) : in V.F. small. $26^d.\ 6\frac{1}{2}^h$ to 19^h decrease in H.F. (54).
	$29^d.\ 15^h$ to $30^d.\ 23^h$.	Small fluctuations in H.F. preceded at $29^d.\ 14^h$ by a sudden increase of force (12). $30^d.\ 6^h$ to 10^h wave in H.F. (−20).
	31^d.—Nov. 1^d.	See Plate II.
November	$2^d.\ 14^h$ to 19^h.	Wave in H.F. (−32) followed till 23^h by small fluctuations.
	$5^d.\ 14^h$ to 21^h.	Small rapid fluctuations in H.F., and V.F.
	$10^d.\ 1\frac{1}{2}^h$ to 5^h.	Double wave in H.F. (−15 to + 18), followed by a general decrease of force (40), with small superposed fluctuations.
	$18^d.\ 15^h.\ 55^m$.	Sudden increase in H.F. (21), accompanied by a very slight increase in V.F., and decrease in Dec., followed till $19^d.\ 8^h$ by small fluctuations in H.F. and Dec. $19^d.\ 5\frac{1}{2}^h$ to 22^h, wave in H.F. (−47).
	$21^d.\ 13^h$ to $23^d.\ 3^h$.	Small fluctuations in H.F. with wave $22^d.\ 12^h$ to 20^h (−30).
	$23^d.\ 16\frac{1}{2}^h$ to $22\frac{1}{2}^h$.	Wave in H.F. (−34).
December	13^d.—14^d.	See Plate II.
	$15^d.\ 14\frac{1}{2}^h$ to $21\frac{1}{4}^h$.	Wave in H.F. (−39).
	$20^d.\ 16^h$ to 22^h.	Wave in H.F. (−30).
	$30^d.\ 5^h$ to $7\frac{1}{4}^h$.	Increase in H.F. (55) of which (28) occurred from $7^h.\ 3^m$ to 5^m : 10^h to $16\frac{1}{2}^h$ decrease in H.F. (113) : $16\frac{1}{2}^h$ to 19^h increase in H.F. (45) : 7^h to 21^h small rapid fluctuations in H.F., and V.F., and from 7^h to $8\frac{1}{2}^h$ in Dec. Irregular diurnal variation in V.F. and Dec.
	$31^d.\ 0^h$ to 24^h.	Loss of H.F. register.

ROYAL ALFRED OBSERVATORY, MAURITIUS.

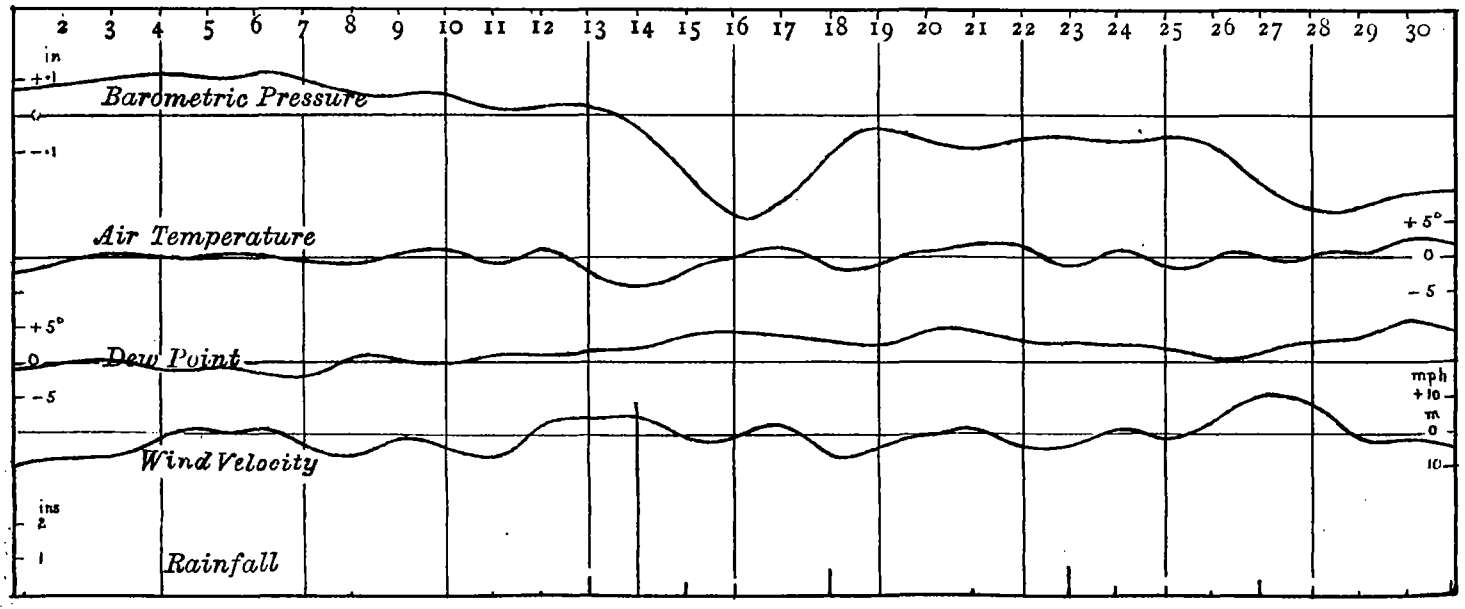
RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1903.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
Jan. 1	29·850	+·072	86·1	66·6	19·5	77·0	−1·7	72·2	68·8	−0·5	76	+ 3	·704	151·9	63·2	0·000	...	·228
2	29·860	+·084	88·1	69·2	18·9	78·2	−0·5	73·0	69·3	0·0	74	+ 1	·716	145·3	64·4	0·000	...	·220
3	29·878	+·104	86·8	71·3	15·5	79·1	+0·4	73·6	69·7	+0·3	73	0	·726	146·2	64·8	0·000	...	·260
4	29·881	+·109	86·5	71·8	14·7	78·7	0·0	72·8	68·6	−0·9	71	− 3	·699	148·2	68·0	0·000	...	·270
5	29·874	+·104	86·9	72·6	14·3	79·2	+0·4	73·5	69·5	−0·1	72	− 2	·721	150·1	68·0	0·000	...	·300
6	29·890	+·121	86·7	72·0	14·7	79·0	+0·2	72·8	68·7	−0·9	71	− 3	·701	148·1	68·1	0·000	...	·280
7	29·861	+·094	86·8	69·9	16·9	78·7	−0·1	72·3	67·8	−1·9	69	− 5	·680	146·7	62·8	0·000	...	·300
8	29·822	+·057	87·2	73·6	13·6	78·1	−0·7	73·9	70·9	+1·1	79	+ 5	·756	159·9	69·0	0·045	30	·280
9	29·820	+·057	87·6	72·8	14·8	79·5	+0·7	74·2	70·5	+0·7	74	− 1	·746	149·5	67·6	0·000	...	·165
10	29·823	+·062	89·0	73·7	15·3	80·2	+1·3	74·2	70·1	+0·2	71	− 4	·736	150·4	68·6	0·000	...	·320
11	29·784	+·025	88·0	71·0	17·0	78·6	−0·3	74·5	71·6	+1·6	79	+ 4	·774	150·6	65·3	0·015	10	·280
12	29·784	+·027	87·5	74·7	12·8	80·2	+1·3	74·9	71·3	+1·3	74	− 1	·766	148·0	69·6	0·025	50	·170
13	29·787	+·032	83·7	73·7	10·0	76·6	−2·3	73·9	72·0	+1·9	86	+11	·785	143·8	70·8	0·655	305	·275
14	29·720	−·033	76·8	72·5	4·3	74·4	−4·5	73·2	72·3	+2·2	93	+18	·793	92·8	71·3	4·240	1125	·060
15	29·591	−·160	82·1	73·8	8·3	77·6	−1·3	75·7	74·5	+4·3	90	+15	·854	138·3	72·2	0·330	360	·000
16	29·467	−·282	85·8	75·0	10·8	79·2	+0·3	76·4	74·5	+4·3	85	+10	·854	146·3	72·2	0·280	125	·070
17	29·501	−·246	85·8	76·9	8·9	80·4	+1·5	76·8	74·4	+4·1	82	+ 6	·851	140·6	74·5	0·000	...	·180
18	29·626	−·119	85·5	71·8	13·7	77·7	−1·3	75·4	73·8	+3·5	88	+12	·834	134·5	68·2	0·645	105	·260
19	29·700	−·043	85·3	72·5	12·8	78·6	−0·4	75·2	73·0	+2·6	83	+ 7	·812	139·7	69·5	0·000	...	·105
20	29·665	−·076	87·5	75·8	11·7	79·9	+0·9	77·2	75·5	+5·1	86	+10	·883	146·9	73·3	0·310	55	·130
21	29·640	−·100	86·8	74·8	12·0	80·8	+1·8	77·3	75·0	+4·5	82	+ 6	·868	147·6	75·2	0·115	75	·180
22	29·673	−·065	88·0	72·6	15·4	80·4	+1·5	76·5	73·8	+3·3	81	+ 5	·834	149·5	69·4	0·020	15	·275
23	29·677	−·060	85·7	74·1	11·6	77·7	−1·2	75·5	73·8	+3·3	88	+12	·834	152·8	71·1	0·755	260	·225
24	29·659	−·076	85·4	74·7	10·7	79·9	+1·0	75·9	73·3	+2·7	80	+ 4	·820	148·1	73·4	0·390	125	·270
25	29·675	−·059	83·4	74·3	9·1	77·4	−1·5	74·8	72·9	+2·3	86	+10	·810	151·1	71·3	0·340	260	·220
26	29·647	−·086	85·2	73·7	11·5	79·0	+0·1	74·2	70·9	+0·3	76	0	·756	151·6	70·0	0·045	30	·300
27	29·523	−·209	85·0	75·5	9·5	78·7	−0·2	75·1	72·6	+1·9	82	+ 6	·801	150·5	72·9	0·435	310	·240
28	29·475	−·256	84·5	75·0	9·5	79·2	+0·3	76·1	73·8	+3·1	84	+ 8	·834	146·2	72·2	0·310	165	·300
29	29·468	−·262	87·1	75·6	11·5	80·7	+1·8	77·1	74·7	+4·0	82	+ 6	·860	148·1	73·3	0·060	55	·180
30	29·502	−·227	86·5	78·0	8·5	81·2	+2·3	78·5	76·7	+6·0	86	+10	·918	136·6	74·7	0·145	90	·150
31	29·511	−·217	88·9	75·7	13·2	80·3	+1·4	77·9	76·2	+5·5	87	+11	·903	153·7	72·8	0·215	50	·100
Mean -	29·698	−·052	86·0	73·4	12·6	78·9	0·0	75·0	72·3	+2·1	80·3	+5·2	·794	145·6	69·9	Sum 9·375	Sum 3600	·216
Average	29·750	...	86·3	72·9	13·4	78·9	...	73·8	70·2	...	75·1	...	·737	147·3	68·9	7·895	2221	·246
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day. 1903.	Ozone (Scale 0—10)	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. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.		m.p.h.	m.p.h.	°	°	
Jan. 1	2·3	7·2	8·9	67	+ 0·2	+ 0·3	124	0·4	+ 33	− 8·1	2·7	79·5	76·82	c.f. :c.f.l.
2	2·2	3·9	9·3	70	− 0·5	+ 2·0	76	2·0	− 14	− 6·5	4·1	79·7	76·82	c.f.
3	2·0	4·3	11·5	87	− 1·8	+ 1·0	29	2·1	− 61	− 6·4	4·4	79·7	76·82	b. : c.f.
4	2·6	3·2	12·0	90	− 3·0	+ 7·9	69	8·4	− 21	− 0·1	8·7	79·7	76·82	c.f. : b.
5	2·7	4·3	11·6	87	− 2·3	+ 8·8	75	9·1	− 14	+ 0·6	9·4	79·7	76·87	c.f.
6	3·1	3·7	10·8	82	− 1·1	+ 9·1	83	9·1	− 6	+ 0·6	9·4	79·7	76·87	c.f.
7	3·2	5·8	10·3	78	− 0·7	+ 6·2	84	6·3	− 5	− 2·2	6·5	79·7	76·87	c.f.
8	4·2	7·4	4·4	33	− 1·1	+ 2·4	65	2·6	− 24	− 5·9	4·3	79·8	76·97	c.f. : p.c.
9	4·1	7·1	10·8	82	+ 0·5	+ 7·0	94	7·0	+ 6	− 1·5	7·6	79·8	76·97	c.f.
10	3·5	5·0	9·5	72	+ 1·2	+ 5·7	102	5·8	+ 14	− 2·7	5·9	79·8	76·97	c.f. : c.t.
11	3·5	5·0	6·0	45	− 0·8	+ 0·7	41	1·1	− 47	− 7·4	3·1	79·9	77·02	c.f. : p.c.g.t.l.
12	3·8	7·7	9·5	72	− 0·2	+10·7	90	10·7	+ 3	+ 2·3	11·0	80·0	77·02	p.c. : c.f.
13	4·6	9·4	3·9	30	− 1·1	+13·4	85	13·5	− 2	+ 5·1	14·0	80·1	77·07	o.g.q.p. :o.p.t.l.
14	5·0	10·0	0·0	0	− 3·7	+12·6	74	13·2	− 13	+ 4·8	13·5	80·1	77·07	o.g.r.
15	4·1	10·0	0·5	4	− 3·0	+ 6·8	66	7·4	− 20	− 1·0	8·5	80·7	77·42	o.g.p.
16	3·5	9·3	5·8	44	− 5·5	− 5·6	314	7·9	+228	− 0·5	8·4	80·7	77·27	o.g.p. : c.q.f.
17	1·3	4·6	11·6	89	− 5·8	− 9·3	302	11·0	+216	+ 2·6	11·2	80·7	77·27	c.f.
18	1·9	7·5	2·9	22	− 1·1	− 0·2	350	1·1	+264	− 7·3	3·7	80·8	77·22	c.f. : o.g.r.
19	1·7	9·6	2·0	15	− 1·0	+ 4·6	78	4·7	− 8	− 3·7	6·9	80·8	77·22	c.f. : o.g.r.
20	3·5	9·9	1·9	15	+ 6·5	+ 4·4	146	7·9	+ 61	− 0·5	11·0	80·8	77·22	c.g.p.t.l.
21	3·8	7·1	9·2	70	+ 6·5	− 6·7	226	9·3	+141	+ 0·9	9·6	80·8	77·22	c.g.p. : c.f. : c.p.
22	2·0	4·5	11·4	87	+ 4·0	− 1·8	204	4·4	+119	− 4·0	4·8	80·8	77·22	c.f. : c.p.
23	1·9	9·6	1·7	13	+ 3·3	+ 4·3	127	5·4	+ 42	− 3·0	6·8	80·7	77·22	o.g.p.t.
24	2·9	6·1	10·6	81	+ 0·1	+ 8·5	91	8·5	+ 7	+ 0·1	8·9	80·7	77·22	p. : c.f.
25	3·5	8·0	2·7	21	− 1·4	+ 7·1	79	7·3	− 5	− 1·0	7·5	80·7	77·22	c.q.p. : o.g.p.
26	3·8	5·5	9·9	76	− 8·5	+ 9·1	47	12·4	− 37	+ 4·1	12·6	80·7	77·22	c.f. : c.q.q.
27	4·6	6·7	5·0	39	− 9·5	+15·6	59	18·3	− 25	+10·0	18·5	80·7	77·07	c.q.p. : c.p.t.l.
28	5·6	9·3	4·4	34	− 6·2	+16·5	69	17·6	− 15	+ 9·3	17·8	80·7	77·12	o.g.p. : c.q. : c.p.
29	4·8	10·0	1·0	8	− 4·8	+ 4·5	44	6·6	− 39	− 1·7	7·7	80·7	77·12	o.p. : o.g. : o.l.
30	4·3	9·4	2·8	22	+ 4·8	− 4·6	224	6·6	+141	− 1·7	7·5	80·7	77·17	o.g.p.
31	4·2	9·1	5·2	40	+ 3·8	− 1·9	207	4·2	+124	− 4·1	5·4	80·8	77·22	c.g.p.
Mean -	3·4	7·1	6·68	50·8	− 1·04	+ 4·49	77·0	4·61	− 9·5	− 3·81	8·43	80·31	77·08	...
Average	3·4	6·4	7·69	58·6	− 0·52	+ 8·40	86·5	8·42	...	...	11·07	79·92	77·12	...
Column	19	20	21	22	23	24	25	26	27	28	29	30	31	32

During the month of January the weather was characterised by the passage of one anticyclone and three cyclones, the latter furnishing the principal rainfall of the month.

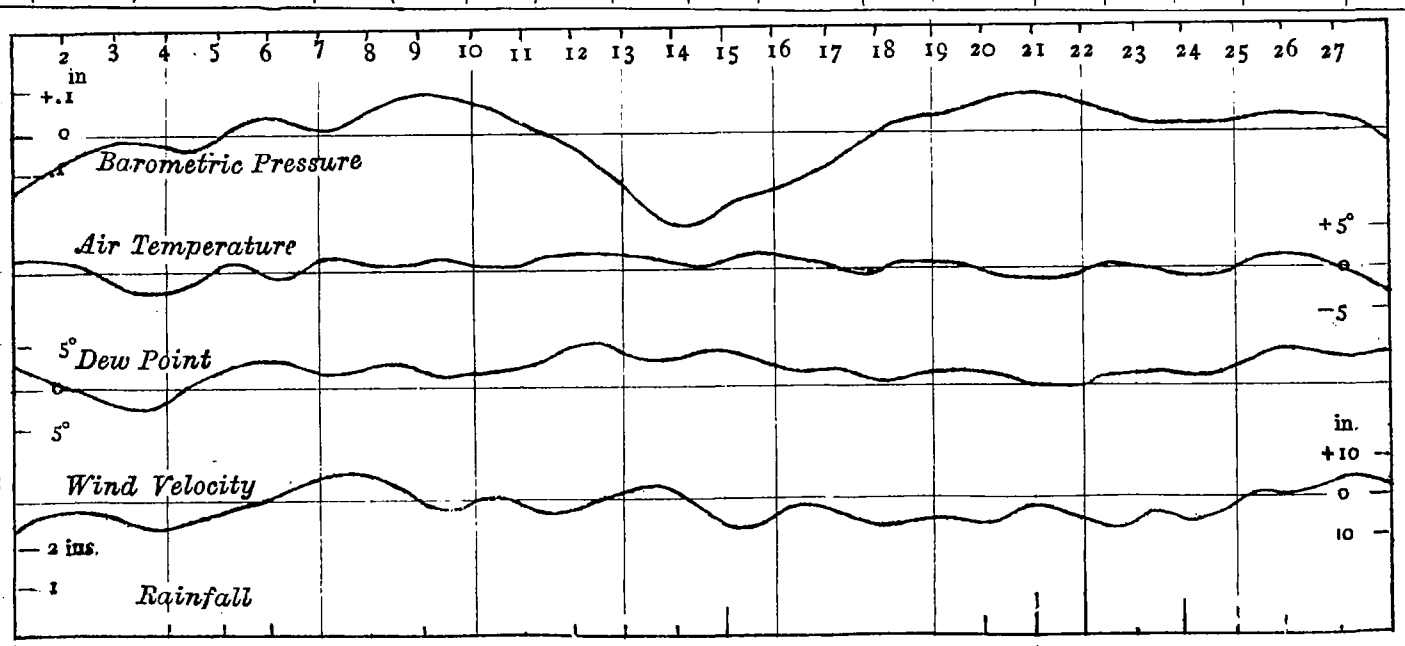
In the anticyclone, from the 1st. to the 10th. the temperature and vapour-tension were normal and the weather was fine ; the wind velocity was variable, but showed a well marked maximum at the epoch of maximum pressure.

The first cyclone from the 12th. to the 19th. was accompanied by a double wave of temperature (from negative to positive) and a positive wave of vapour-tension ; the wind was variable, and on the 15th., when the centre of the cyclone was 250 miles to Eastward, it was nearly calm at Mauritius.

From the 19th. to the 22nd. the passage of a small cyclone 200 miles to the south-west of Mauritius, on a south-easterly course, produced a feeble negative wave of pressure and feeble positive waves of vapour-tension and wind velocity.

From the 26th. to February 3, the passage of a cyclone 100 miles to the south-east of Mauritius, on a south-south-westerly course, produced a strong negative wave of pressure culminating on the 29th., a feeble positive wave of temperature, and a strong positive wave of vapour-tension, both culminating on the 30th. ; a strong positive wave of wind velocity culminated on the 27th.

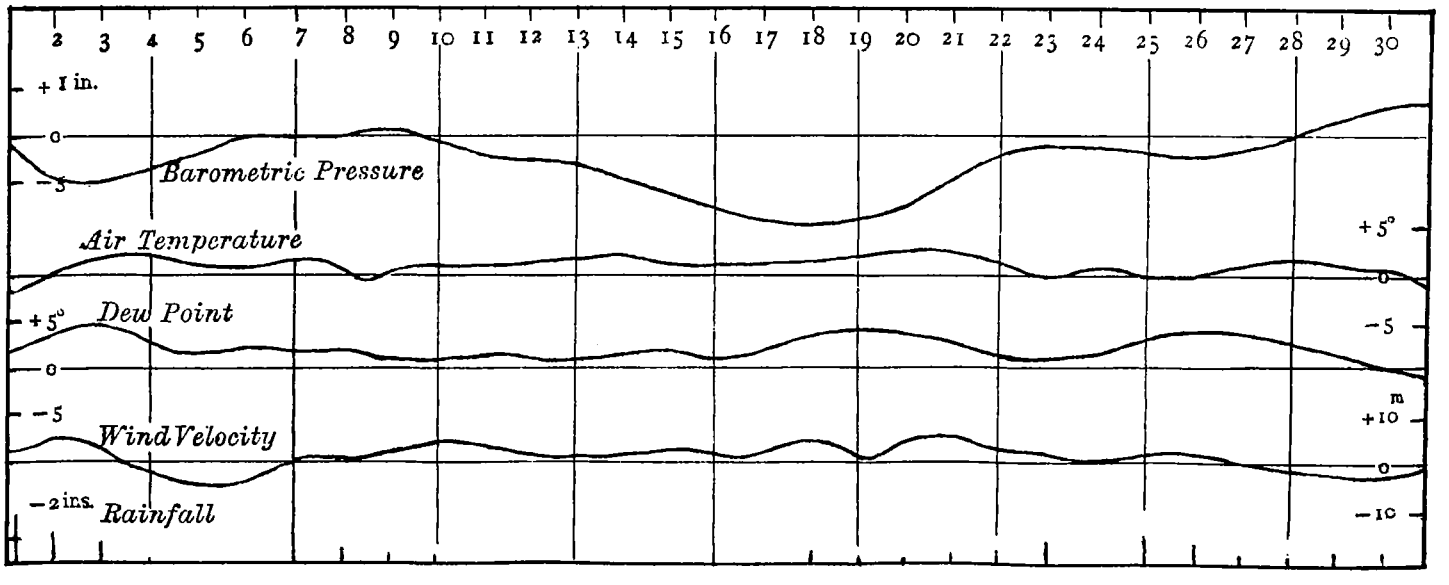
Month and Day. 1903.	Barometric Pressure. Mean.	Barometric Pressure. Excess above Average.	Temperature of the Air. Highest.	Temperature of the Air. Lowest.	Temperature of the Air. Range.	Temperature of the Air. Mean.	Temperature of the Air. Excess above Average.	Temperature of Evaporation.	Temperature 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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°	°		in.	°		ins.	mins.	in.
Feb. 1	29·560	−·167	86·0	75·5	10·5	79·9	+1·0	76·4	74·0	+ 3·2	82	+ 6	·840	154·4	73·5	0·000	...	·175
2	29·644	−·082	86·6	73·6	13·0	79·4	+0·6	74·4	71·0	+ 0·2	75	− 1	·759	153·4	70·2	0·000	...	·180
3	29·706	−·020	83·2	71·4	11·8	76·6	−2·2	71·5	67·9	− 2·9	75	− 1	·682	148·1	66·5	0·000	...	·210
4	29·700	−·026	85·1	72·0	13·1	77·3	−1·5	73·6	71·0	+ 0·2	81	+ 4	·759	144·1	66·5	0·180	110	·160
5	29·737	+·012	87·7	71·1	16·6	79·3	+0·5	75·6	73·1	+ 2·2	81	+ 4	·815	150·5	66·1	0·080	30	·100
6	29·760	+·035	83·7	72·7	11·0	78·7	−0·1	76·1	74·3	+ 3·4	86	+ 9	·848	143·9	70·7	0·250	195	·160
7	29·735	+·010	83·9	75·1	8·8	79·3	+0·6	75·5	72·9	+ 2·0	81	+ 4	·810	141·7	71·3	0·000	...	·120
8	29·772	+·047	84·9	77·0	7·9	80·5	+1·8	76·6	74·0	+ 3·1	81	+ 4	·840	141·5	74·5	0·000	...	·160
9	29·795	+·070	85·6	75·2	10·4	79·8	+1·1	75·4	72·4	+ 1·5	78	+ 1	·796	148·5	72·3	0·195	90	·190
10	29·764	+·038	86·6	74·8	11·8	79·9	+1·2	75·7	72·8	+ 1·9	79	+ 2	·807	146·9	71·5	0·000	...	·255
11	29·720	−·006	87·8	71·2	16·6	79·4	+0·8	75·5	72·8	+ 1·9	80	+ 3	·807	148·0	65·9	0·000	...	·180
12	29·669	−·058	86·5	75·0	11·5	79·2	+0·6	76·9	75·3	+ 4·3	88	+11	·877	145·7	72·0	0·270	145	·140
13	29·534	−·193	85·9	75·0	10·9	80·6	+2·0	77·5	75·4	+ 4·4	84	+ 7	·880	147·7	72·3	0·145	120	·135
14	29·450	−·277	84·7	76·9	7·8	80·5	+2·0	77·6	75·6	+ 4·6	85	+ 8	·885	144·0	75·2	0·180	125	·265
15	29·545	−·183	83·6	76·9	6·7	79·5	+1·0	77·2	75·6	+ 4·6	88	+11	·885	113·6	74·7	0·555	185	·155
16	29·617	−·112	85·9	74·3	11·6	80·1	+1·6	76·2	73·6	+ 2·6	80	+ 2	·829	144·1	71·0	0·000	...	·075
17	29·686	−·044	85·7	72·3	13·4	78·7	+0·2	75·3	73·0	+ 2·0	83	+ 5	·812	142·8	68·6	0·000	...	·240
18	29·770	+·039	86·9	70·3	16·6	78·5	0·0	74·4	71·6	+ 0·6	79	+ 1	·774	147·8	66·5	0·000	...	·160
19	29·813	+·081	87·8	71·1	16·7	78·8	+0·4	74·9	72·2	+ 1·2	80	+ 2	·790	148·5	66·2	0·000	...	·260
20	29·830	+·097	86·8	70·9	15·9	77·8	−0·6	74·3	71·9	+ 0·9	81	+ 2	·782	152·5	65·6	0·560	70	·130
21	29·865	+·131	86·9	71·3	15·6	77·0	−1·3	73·7	71·4	+ 0·4	83	+ 4	·769	148·7	66·7	1·270	105	·180
22	29·847	+·112	85·7	68·8	16·9	77·8	−0·5	73·7	70·8	− 0·2	79	0	·754	152·5	63·5	0·000	...	·150
23	29·795	+·059	87·1	71·2	15·9	78·1	−0·2	74·5	72·0	+ 1·0	82	+ 3	·785	151·0	64·5	0·030	30	·220
24	29·767	+·030	87·8	71·7	16·1	77·3	−0·9	74·3	72·2	+ 1·2	85	+ 6	·790	150·8	67·0	1·220	70	·170
25	29·778	+·040	83·3	71·1	12·2	76·5	−1·7	74·1	72·4	+ 1·5	87	+ 8	·796	139·7	65·7	0·720	155	·230
26	29·781	+·042	87·2	72·1	15·1	79·7	+1·6	75·7	73·0	+ 2·1	80	+ 1	·812	146·7	67·5	0·000	...	·179
27	29·767	+·027	86·3	74·4	11·9	80·0	+1·9	77·1	75·2	+ 4·3	85	+ 6	·874	151·1	72·4	0·450	165	·230
28	29·763	+·022	84·1	74·8	9·3	78·8	+0·7	75·8	73·8	+ 2·9	85	+ 6	·834	137·2	72·5	0·085	110	·215
Mean -	29·720	−·010	85·8	73·1	12·7	78·9	+0·4	75·3	72·9	+ 2·0	81·9	+4·2	·810	145·9	69·3	Sum 6·190	Sum 1705	·179
Average	29·730	...	85·6	72·9	12·7	78·5	...	74·1	70·9	...	77·7	...	·757	147·2	68·8	8·118	2123	·215
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1903.	Ozone (Scale 0—10).	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. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Feb. 1	3·4	9·4	4·8	37	− 2·3	− 4·2	299	4·8	+216	− 3·5	5·0	80·8	77·22	c. : o.g.
2	3·3	3·2	11·0	85	− 6·2	+ 2·3	20	6·6	− 63	− 1·7	7·7	80·8	77·22	b. : c.f.
3	3·8	6·1	5·4	42	− 5·7	+ 5·1	42	7·6	− 41	− 0·7	7·9	80·8	77·22	c.f. : c.g.
4	3·7	9·0	3·9	30	− 0·5	+ 2·4	78	2·5	− 4	− 5·7	4·6	80·8	77·22	c.f. : c.p. : c.f.
5	3·5	6·9	8·6	67	+ 1·9	+ 5·9	108	6·2	+ 26	− 2·0	6·6	80·9	77·27	c.f. : c.l.t.r.
6	3·8	9·5	1·5	12	− 0·8	+ 8·8	85	8·9	+ 3	+ 0·7	9·4	80·9	77·27	r.o. : o.g.p. : c.f.
7	3·1	7·9	5·0	39	− 2·6	+12·8	78	13·1	− 4	+ 4·9	13·2	80·9	77·27	c.f.
8	2·8	7·3	3·6	28	+ 0·3	+14·7	91	14·7	+ 9	+ 6·5	14·9	80·9	77·27	c.f. : o. : c.q.
9	4·2	6·2	10·3	80	− 1·7	+ 9·7	80	9·8	− 2	+ 1·6	10·2	80·9	77·27	c.f. : c.p.
10	4·7	5·6	10·4	81	+ 1·6	+ 8·0	101	8·2	+ 19	0·0	8·7	80·9	77·27	c.f.
11	4·8	4·0	10·2	80	+ 5·5	+ 4·4	141	7·1	+ 59	− 1·1	7·7	80·9	77·32	c.f.
12	5·0	10·0	3·8	30	+ 6·8	+ 2·4	161	7·2	+ 80	− 0·9	7·5	80·9	77·32	l.o.g.p.: o.g.p.
13	4·7	6·8	8·1	63	+ 3·5	+10·1	109	10·7	+ 28	+ 2·6	11·2	81·0	77·52	c.p. : c.q.
14	4·5	9·2	4·3	34	− 2·7	+10·0	75	10·4	− 6	+ 2·3	12·0	81·1	77·62	p.c. : c.q.p. : c.p.t.l.
15	3·6	10·0	0·1	1	− 1·0	+ 1·2	50	1·6	− 31	− 6·5	5·1	81·1	77·62	o.g.t.l.
16	3·0	7·0	9·9	78	− 3·4	− 3·9	311	5·2	+230	− 2·9	6·3	81·4	77·62	c.f.
17	3·0	6·1	6·7	53	− 0·2	− 5·0	272	5·0	+191	− 3·1	5·3	81·4	77·62	c.f.
18	3·3	5·0	9·4	74	− 1·4	− 1·2	319	1·8	+238	− 6·3	5·3	81·4	77·62	c.f.
19	3·8	5·1	6·6	52	− 0·3	+ 1·6	79	1·6	− 2	− 6·5	4·4	81·4	77·62	c.f. : c.g.
20	4·0	5·6	8·7	69	− 1·7	+ 3·2	62	3·6	− 19	− 4·5	5·0	81·4	77·62	c.f. : c.r.: c.g.
21	3·7	5·1	4·5	36	− 1·9	+ 1·7	42	2·6	− 39	− 5·4	4·3	81·4	77·62	c.f. : o.g.r. : c.g.
22	2·6	4·0	11·2	89	− 2·6	+ 6·6	69	7·1	− 11	− 0·9	7·6	81·4	77·62	c.f.
23	2·3	4·4	6·4	51	− 0·6	+ 2·1	74	2·2	− 6	− 5·8	4·4	81·4	77·62	c.f. : c.g.
24	3·1	6·0	5·9	47	+ 1·3	+ 1·3	135	1·9	+ 55	− 6·1	4·7	81·5	77·67	c.g.
25	2·6	6·4	5·1	41	− 1·7	+ 2·2	52	2·8	− 28	− 5·2	4·9	81·5	77·67	c.f. : c.g.r.t. : c.g.
26	2·0	3·1	10·8	86	+ 0·6	+ 6·1	96	6·2	+ 16	− 1·8	6·6	81·6	77·72	c.f. : c.f.l.t.
27	2·0	6·6	8·5	68	+ 1·5	+ 8·2	100	8·4	+ 20	+ 0·4	9·1	81·6	77·72	r.c. : c.f. : c.p.t.l.
28	2·6	9·0	3·3	26	+ 0·4	+10·8	92	10·8	+ 12	+ 2·8	11·1	81·6	77·72	c.p.l. : o.g.p. : c.
Mean -	3·5	6·6	6·71	52·8	− 0·50	+ 4·55	83·7	4·58	+ 2·5	− 3·55	7·52	81·16	77·48	...
Average	3·2	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	32

A strong negative wave of pressure culminating on the 14th. was followed by a strong positive wave culminating on the 21st. The negative wave was produced by two cyclones, one of which passed very near Rodrigues on the 13th., on a south-south-westerly track, and the other about 100 miles to the north of Mauritius on the same day, on an east-south-easterly track. These two cyclones produced calms and variable winds at Mauritius from the 13th. to the 15th., with temperature and vapour-tension above normal. 1·15 inch of rain fell from the 12th. to the 15th. the epoch of minimum pressure, and 4.33 inches from the 20th. to the 28th. during a prolonged positive wave of pressure.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
Mar. 1	29·717	−·027	81·2	72·9	8·3	76·9	−1·1	75·1	73·8	+2·9	90	+11	·834	117·6	71·6	1·450	525	·140
2	29·650	−·095	83·1	74·7	8·4	78·1	+0·1	76·3	75·0	+4·1	90	+11	·868	83·1	72·8	0·870	245	·060
3	29·652	−·095	84·8	75·7	9·1	79·9	+2·0	77·9	76·5	+5·6	89	+10	·912	151·8	73·7	0·560	220	·180
4	29·685	−·064	86·2	75·5	10·7	80·7	+2·8	77·3	75·0	+4·1	83	+ 4	·368	146·2	73·9	0·040	15	·110
5	29·719	−·030	87·6	72·6	15·0	79·5	+1·7	76·1	73·7	+2·8	82	+ 2	·832	148·7	68·7	0·020	20	·180
6	29·751	+·001	87·6	74·7	12·9	79·7	+1·9	76·2	73·8	+3·0	82	+ 2	·834	149·7	70·6	0·000	...	·210
7	29·754	+·002	86·2	74·8	11·4	80·1	+2·3	75·9	73·1	+2·3	79	− 1	·815	150·2	67·9	0·000	...	·160
8	29·764	+·011	83·5	75·4	8·1	77·7	0·0	75·1	73·3	+2·5	86	+ 6	·820	147·1	71·3	0·425	195	·195
9	29·768	+·014	84·8	74·9	9·9	78·8	+1·1	74·8	72·1	+1·3	80	0	·788	146·5	70·8	0·100	70	·110
10	29·744	−·012	84·4	74·2	10·2	79·7	+2·1	75·4	72·4	+1·6	79	− 1	·796	147·6	71·8	0·030	35	·220
11	29·717	−·041	84·6	74·9	9·7	79·1	+1·5	75·2	72·6	+1·9	80	0	·801	151·0	72·5	0·060	85	·210
12	29·703	−·056	85·0	74·6	10·4	79·5	+2·0	75·0	72·0	+1·3	78	− 2	·785	143·6	69·1	0·000	...	·200
13	29·689	−·072	85·2	74·5	10·7	79·8	+2·3	75·3	72·2	+1·5	78	− 2	·790	148·4	69·7	0·000	...	·220
14	29·649	−·113	86·3	76·5	9·8	80·4	+3·0	76·4	73·7	+3·0	80	0	·832	155·5	72·8	0·000	...	·230
15	29·626	−·138	85·8	76·0	9·8	80·1	+2·8	75·8	72·9	+2·2	79	− 1	·810	146·2	73·3	0·000	...	·180
16	29·597	−·169	85·8	75·0	10·8	79·5	+2·2	75·2	72·3	+1·7	79	− 1	·793	148·5	69·9	0·000	...	·210
17	29·576	−·191	85·5	74·2	11·3	79·5	+2·3	74·9	71·8	+1·2	77	− 3	·779	149·9	67·2	0·005	15	·200
18	29·560	−·209	85·4	75·1	10·3	79·4	+2·2	76·0	73·6	+3·0	82	+ 2	·829	152·6	72·3	0·270	165	·210
19	29·574	−·196	85·7	75·7	10·0	79·5	+2·4	76·6	74·6	+4·1	85	+ 5	·857	145·8	72·8	0·245	190	·160
20	29·595	−·177	85·1	75·6	9·5	80·1	+3·0	77·1	75·1	+4·6	84	+ 4	·871	142·4	73·8	0·095	45	·175
21	29·678	−·096	85·8	76·3	9·5	80·6	+3·6	77·2	75·0	+4·6	83	+ 3	·868	143·7	73·6	0·195	95	·155
22	29·729	−·046	84·7	75·4	9·3	79·1	+2·1	75·8	73·5	+3·1	83	+ 2	·826	145·9	73·8	0·235	180	·160
23	29·751	−·026	82·9	74·3	8·6	77·0	+0·1	74·7	73·1	+2·7	88	+ 7	·815	146·9	72·8	0·630	235	·080
24	29·755	−·024	83·2	75·0	8·2	77·8	+0·9	74·3	71·9	+1·6	82	+ 1	·782	143·9	71·8	0·000	...	·115
25	29·741	−·040	83·6	72·8	10·8	76·8	0·0	73·9	71·9	+1·6	85	+ 4	·782	145·6	70·7	0·720	240	·140
26	29·731	−·052	81·8	73·4	8·4	76·7	0·0	74·7	73·3	+3·1	89	+ 8	·820	138·1	70·9	0·510	285	·080
27	29·756	−·028	81·8	74·8	7·0	77·9	+1·2	76·1	74·8	+4·6	90	+ 9	·863	126·6	71·6	0·200	310	·070
28	29·777	−·009	85·2	74·7	10·5	78·6	+2·0	75·9	74·1	+4·0	86	+ 5	·843	150·5	70·5	0·145	100	·125
29	29·814	+·026	83·9	71·9	12·0	77·8	+1·2	75·0	73·0	+2·9	85	+ 4	·812	142·8	72·5	0·400	285	·170
30	29·861	+·071	84·4	71·8	12·6	77·5	+1·0	73·8	71·2	+1·2	81	0	·764	143·9	65·6	0·020	15	·120
31	29·865	+·073	83·2	70·8	12·4	76·1	−0·4	72·2	69·5	−0·5	80	− 1	·721	143·3	67·0	0·380	115	·100
Mean	29·708	−·058	84·7	74·5	10·2	78·8	+1·5	75·5	73·3	+2·7	83·0	+2·8	·820	143·3	71·2	Sum 7·605	Sum 3685	·157
Average	29·766	...	84·1	72·1	12·0	77·3	...	73·3	70·6	...	80·2	...	·747	145·3	68·1	9·356	2824	·185
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day. 1903.	Ozone (Scale 0—10)	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: 5 Feet.	Temperature of the Soil: 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.		m.p.h.	m.p.h.	°	°	
Mar. 1	3·6	10·0	0·0	0	+ 2·1	+10·6	101	10·8	+ 21	+ 2·8	11·4	81·7	77·82	o.g.r.m.
2	4·0	10·0	0·5	4	+13·0	+ 7·8	149	15·2	+ 69	+ 7·2	15·6	81·7	77·82	o.g.r.t.l.q.
3	4·0	10·0	4·5	36	+11·9	− 0·7	183	11·9	+103	+ 3·9	12·4	81·7	77·82	o.g.p.q. : o.p.l.
4	3·4	6·6	10·1	81	+ 1·0	− 5·1	259	5·2	+179	− 2·8	6·4	81·7	77·82	c.p. : c.f.
5	3·3	6·2	9·3	75	− 1·9	− 2·0	314	2·8	+234	− 5·2	4·8	81·7	77·82	c.f. : t.c.f. : p.c.
6	3·5	5·9	7·9	64	− 2·3	+ 4·0	60	4·6	− 19	− 3·4	6·2	81·7	77·82	c.f. : o.g.r.t.l. : c.f.
7	3·8	4·4	9·4	76	− 2·7	+ 7·9	71	8·4	− 8	+ 0·4	8·9	81·7	77·82	b. : c.f. : c.f.l.t.
8	4·0	7·3	4·3	35	− 2·1	+ 8·0	75	8·2	− 4	+ 0·2	8·6	81·7	77·82	c.g.p.
9	4·6	5·1	10·0	81	− 3·9	+11·2	71	11·9	− 8	+ 3·9	12·0	81·7	77·82	c.p. : c.f.q. : c.p.
10	5·0	5·0	10·2	83	− 3·4	+14·3	77	14·7	− 2	+ 6·7	14·9	81·8	77·92	c.p. : c.f.q. : c.p.
11	4·4	4·0	10·8	88	− 3·1	+13·1	77	13·5	− 2	+ 5·5	13·8	81·8	77·92	c.p. : b.q.
12	3·4	3·4	10·8	88	− 3·8	+ 9·0	67	9·8	− 12	+ 1·8	10·1	81·8	77·92	b. : c.q.f.
13	3·0	3·0	10·7	88	− 3·4	+ 9·4	70	10·0	− 9	+ 2·0	10·1	81·8	77·92	b. : c.f.
14	3·0	8·9	5·7	47	− 2·9	+ 9·8	74	10·2	− 5	+ 2·2	10·6	81·8	77·92	c.f.
15	3·3	3·1	9·9	81	− 2·7	+11·2	76	11·5	− 3	+ 3·5	11·8	81·8	77·92	b. : c.q.f.
16	3·2	5·1	11·2	92	− 1·7	+ 9·6	80	9·8	+ 2	+ 1·7	10·2	81·8	77·92	c.f.
17	3·3	4·1	8·8	72	− 0·7	+ 9·9	86	9·9	+ 8	+ 1·8	10·3	81·8	77·92	b. : c.f. : c.p.
18	3·2	5·7	7·4	61	+ 0·8	+13·6	93	13·6	+ 15	+ 5·5	13·9	81·8	77·92	c.g.q.p. : c.p.l.
19	3·6	6·9	9·0	74	+ 2·6	+ 8·6	107	9·0	+ 29	+ 0·9	9·2	81·8	77·92	c.p. : c.f. : c.p.
20	4·0	6·0	10·0	83	+ 4·1	+13·8	107	14·4	+ 29	+ 6·3	14·5	81·8	77·92	p.c. : c.f. : c.q.p. : c.p.l.
21	4·6	5·1	8·6	71	+ 5·0	+13·8	110	14·7	+ 33	+ 6·6	15·0	81·8	77·92	c.p. : c.f.q. c.p.l.
22	4·7	9·8	3·7	31	+ 2·0	+12·1	99	12·2	+ 22	+ 4·1	12·6	81·8	77·92	o.p.l. : c.g.q. : c.p.
23	4·2	9·3	1·8	15	+ 0·1	+ 9·6	91	9·6	+ 14	+ 1·4	10·2	81·9	78·02	c.g.p. : c.p.l.
24	3·7	9·4	1·5	12	+ 1·6	+ 8·9	100	9·1	+ 24	+ 0·9	9·3	81·9	78·02	o.g. : c.f. : c.
25	3·8	9·4	1·4	12	+ 2·5	+ 7·5	108	7·9	+ 32	− 0·3	8·2	81·9	78·02	c.r. : c.r.l.
26	4·6	9·5	1·9	16	+ 2·5	+ 9·0	105	9·4	+ 29	+ 1·1	9·7	81·9	78·02	r. : c.g.p.
27	3·2	9·1	2·7	23	+ 4·4	+ 7·0	122	8·3	+ 46	0·0	8·4	82·0	78·07	c.p.
28	2·0	8·5	9·4	78	+ 4·0	+ 6·9	120	8·0	+ 45	− 0·3	8·3	82·0	78·07	c.p. : c.f. : c.f.l.
29	2·6	9·6	6·2	52	+ 1·3	+ 5·4	104	5·5	+ 29	− 2·8	5·7	82·0	78·07	c.p. : c. : c.f.
30	3·0	3·5	9·6	81	− 0·6	+ 5·7	84	5·7	+ 9	− 2·6	6·3	82·0	78·07	c.p. : c.f.
31	3·6	4·1	10·3	87	− 2·5	+ 6·1	67	6·6	− 8	− 1·7	6·9	81·9	78·12	c.r. c.f.
Mean -	3·7	6·7	7·02	57·6	+ 0·68	+ 8·26	94·7	8·29	+16·8	+ 0·19	10·20	81·81	77·93	...
Average	3·7	6·5	6·72	55·3	− 1·70	+ 7·90	77·9	8·08	...	...	10·42	81·15	78·06	...
Column	19	20	21	22	23	24	25	26	27	28	29	30	31	32

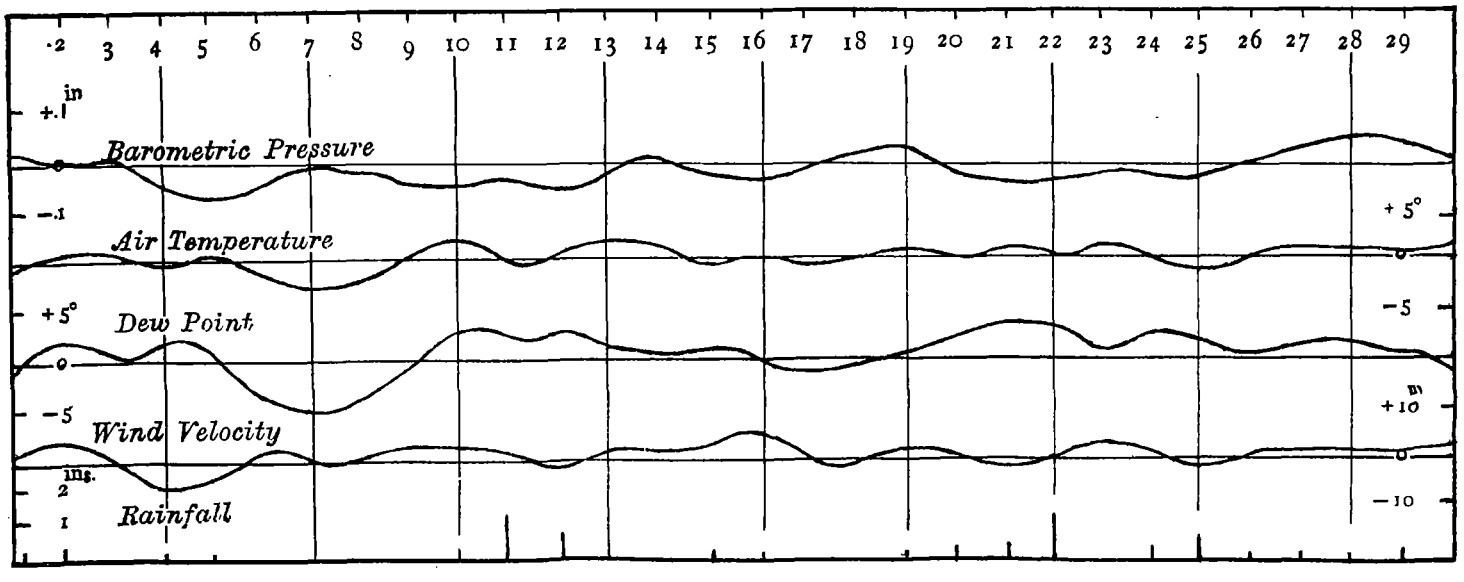
The principal pressure oscillations were produced by the passage of two cyclones, one passing 300 miles to the west of Mauritius on the 2nd., and on the other 200 miles to the East on the 19th. ; both on a southerly track.

The first cyclone was accompanied by double waves of temperature and vapour-tension (from negative to positive), the latter superposed on a prolonged positive wave ; the wind velocity showed a double wave (from positive to negative). 2·94 inches of rain fell from the 1st. to the 5th.

The second cyclone was accompanied by prolonged positive waves of temperature and vapour-tension ; the wind velocity was variable. 1·67 inch of rain fell from the 17th. to the 23rd.

The increase of pressure from the 25th. to the 31st. was accompanied by positive waves of air temperature and vapour-tension ; rain fell on each day, the total from the 25th. to the 31st. being 2·37 inches.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°	°		in.	°		ins.	mins.	in.
Apr. 1	29·830	+·036	83·0	69·7	13·3	76·1	−0·3	72·1	69·3	− 0·6	79	− 2	·716	140·6	62·9	0·130	40	·160
2	29·803	+·007	82·5	72·9	9·6	76·7	+0·4	73·9	72·0	+ 2·2	85	+ 4	·785	139·2	67·1	0·220	85	·210
3	29·802	+·004	84·2	71·0	13·2	77·5	+1·2	73·4	70·7	+ 0·9	79	− 2	·751	146·0	69·9	0·000	...	·150
4	29·745	−·055	81·8	70·8	11·0	75·9	−0·3	73·8	72·3	+ 2·6	89	+ 8	·793	136·1	66·2	0·130	55	·190
5	29·701	−·101	84·1	71·9	12·2	76·7	+0·6	73·6	71·4	+ 1·7	84	+ 3	·769	141·6	67·2	0·105	70	·150
6	29·746	−·058	80·1	68·7	11·4	74·5	−1·6	68·9	64·8	− 4·8	72	− 9	·613	139·3	67·5	0·000	...	·195
7	29·801	−·005	79·9	62·8	17·1	71·9	−4·1	65·8	61·2	− 8·3	69	−12	·541	143·7	54·6	0·000	...	·180
8	29·782	−·026	81·7	65·4	16·3	73·2	−2·7	67·9	64·0	− 5·5	73	− 8	·596	147·0	59·3	0·000	...	·230
9	29·763	−·047	82·3	65·1	17·2	75·8	−0·1	71·5	68·4	− 1·0	78	− 3	·694	142·6	59·7	0·000	...	·190
10	29·744	−·067	84·6	73·2	11·4	77·8	+2·0	74·9	72·9	+ 3·6	85	+ 4	·810	143·3	70·0	0·280	100	·160
11	29·761	−·052	79·8	72·7	7·1	75·7	−0·1	74·0	72·8	+ 3·5	91	+10	·807	124·5	72·4	1·065	395	·135
12	29·742	−·073	80·8	72·9	7·9	76·7	+1·0	74·6	73·1	+ 3·9	88	+ 7	·815	139·7	69·2	0·630	125	·045
13	29·768	−·049	83·8	73·7	10·1	78·0	+2·4	74·1	71·4	+ 2·3	80	− 1	·769	141·7	70·1	0·000	...	·085
14	29·806	−·013	82·6	71·7	10·9	76·8	+1·3	72·3	69·2	+ 0·2	77	− 4	·713	143·9	66·6	0·000	...	·220
15	29·829	+·009	81·8	71·8	10·0	75·3	−0·1	72·0	69·6	+ 0·7	83	+ 2	·723	138·2	69·8	0·250	195	·180
16	29·790	−·032	80·9	71·7	9·2	75·6	+0·2	71·8	69·0	+ 0·2	80	− 1	·708	138·1	69·7	0·075	65	·155
17	29·804	−·020	79·9	67·8	12·1	74·3	−1·0	70·3	67·4	− 1·4	79	− 2	·671	129·2	65·6	0·000	...	·230
18	29·847	+·021	81·7	67·2	14·5	74·6	−0·6	70·9	68·2	− 0·5	81	0	·689	142·8	60·8	0·000	...	·130
19	29·852	+·024	81·2	70·9	10·3	75·4	+0·3	71·7	69·2	+ 0·6	81	0	·713	138·3	68·3	0·080	60	·170
20	29·809	−·022	81·8	70·1	11·7	75·2	+0·2	72·7	70·9	+ 2·4	87	+ 6	·756	143·6	63·4	0·230	105	·210
21	29·778	−·055	81·7	72·0	9·7	75·9	+1·0	74·2	73·0	+ 4·6	90	+ 9	·812	147·5	68·9	0·485	115	·170
22	29·777	−·058	82·4	70·8	11·6	75·5	+0·7	74·0	73·0	+ 4·7	92	+11	·812	142·1	69·9	1·210	425	·145
23	29·802	−·035	81·8	71·5	10·3	76·2	+1·5	72·6	70·1	+ 1·9	81	0	·736	135·3	69·3	0·000	...	·180
24	29·790	−·049	82·2	72·5	9·7	76·1	+1·5	74·1	72·7	+ 4·6	89	+ 8	·804	146·2	71·2	0·395	150	·160
25	29·804	−·038	79·1	71·0	8·1	73·9	−0·6	72·3	71·2	+ 3·2	91	+10	·764	141·4	69·1	0·540	170	·095
26	29·808	−·036	80·4	70·8	9·6	74·5	+0·1	71·4	69·1	+ 1·2	83	+ 2	·711	137·2	65·3	0·120	75	·110
27	29·859	+·013	81·6	70·2	11·4	75·5	+1·2	72·1	69·6	+ 1·8	82	+ 2	·723	136·5	64·1	0·145	80	·150
28	29·895	+·047	80·8	71·3	9·5	75·7	+1·5	72·2	69·7	+ 2·0	82	+ 2	·726	135·0	67·1	0·060	80	·160
29	29·900	+·050	80·6	69·8	10·8	74·9	+0·8	71·1	68·5	+ 0·9	80	0	·697	135·5	63·1	0·040	20	·155
30	29·907	+·054	79·8	69·7	10·1	74·3	+0·3	70·4	67·6	+ 0·2	79	− 1	·675	133·8	64·2	0·320	115	·220
Mean	29·801	−·021	81·6	70·4	11·2	75·5	+0·2	72·2	69·7	+ 0·9	82·3	+1·4	·730	139·7	66.4	Sum 6·510	Sum 2525	·164
Average	29·822	...	82·2	70·2	12·0	75·3	...	71·4	68·8	...	80·9	...	·704	141·2	65·5	4·917	1737	·166
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

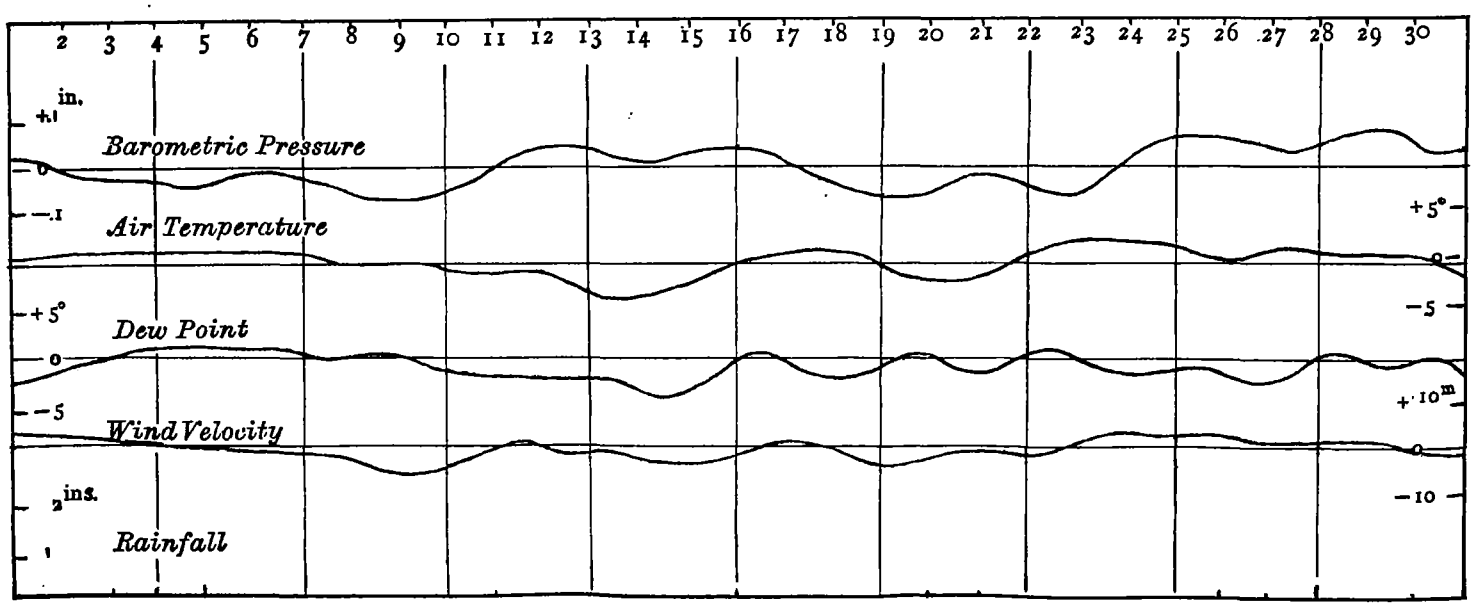


Month and Day 1903.	Ozone (Scale 0—10).	Mean Amount of Cloud (Scale 0—10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Apr. 1	4·0	4·0	10·5	88	− 4·1	+ 8·7	65	9·6	− 9	+ 1·2	9·8	81·8	78·17	c.p. : c.f. : c.p.
2	4·0	6·6	9.4	79	− 3·4	+ 10·4	72	10·9	− 2	+ 2·5	11·3	81·7	78·22	c.p.q.
3	3·7	4·1	11·0	93	− 2·9	+ 8·1	70	8·6	− 4	+ 0·2	8·7	81·7	78·22	c.f.l. : c.f.
4	4·1	9·5	1·6	14	+ 0·7	+ 3·7	101	3·7	+ 28	− 4·7	5·1	81·7	78·22	c.p. : o.
5	4·2	5·1	7·8	66	+ 0·1	+ 0·9	96	0·9	+ 23	− 7·5	4·2	81·8	78·22	o.r. : c.f. : c.p.
6	4·0	4·9	7·1	60	−10·4	+ 4·4	23	11·3	− 50	+ 2·8	11·5	81·8	78·22	c.f. : b.
7	3·4	3·2	9·9	84	− 8·8	+ 4·4	27	9·8	− 45	+ 1·3	10·2	81·8	78·22	c.f.
8	3·3	6·6	10·0	85	− 6·7	+ 5·7	40	8·8	− 32	+ 0·3	9·1	81·8	78·22	c.f.
9	3·5	7·3	6·0	51	− 8·5	+ 6·3	37	10·6	− 35	+ 2·1	10·7	81·8	78·22	c.f. : o.g.
10	5·0	6·4	8·6	74	− 4·8	+ 9·7	64	10·9	− 8	+ 2·4	11·0	81·9	78·27	c.p. : c.f. : c.p.l.t.
11	5·4	9·2	1·1	9	− 2·8	+ 10·1	75	10·5	+ 4	+ 1·9	10·9	81·6	78·22	o.p.t. : o.g.p. : o.l.t.
12	4·4	9·5	2·4	20	− 0·7	+ 8·4	85	8·4	+ 14	− 0·2	8·7	81·7	78·22	o.l.t. : o.g.
13	4·0	4·3	10·4	90	− 4·6	+ 8·6	62	9·8	− 9	+ 1·2	10·1	81·5	78·22	c.f.
14	4·0	5·9	7·7	66	− 6·2	+ 8·6	54	10·6	− 17	+ 2·0	10·8	81·5	78·22	b. : c.f.
15	4·6	5·2	8·3	72	− 5·2	+ 14·0	70	14·9	0	+ 6·3	15·1	81·4	78·22	c.f.q. : c.g.p.q.
16	4·4	4·6	10·2	88	− 4·2	+ 14·7	74	15·3	+ 4	+ 6·7	15·5	81·4	78·22	c.f.q.
17	4·0	6·4	4·3	37	− 1·0	+ 7·8	83	7·9	+ 13	− 0·7	8·2	81·4	78·22	c.f. : c.
18	4·0	2·8	9·6	83	− 2·4	+ 9·2	75	9·5	+ 5	+ 0·9	9·8	81·4	78·22	c.f.
19	4·0	3·5	9·9	86	− 2·3	+ 10·9	78	11·1	+ 9	+ 2·5	11·4	81·4	78·22	c.p. : c.f.
20	3·4	5·3	7·9	69	− 1·0	+ 8·7	83	8·8	+ 14	+ 0·2	9·0	81·4	78·27	c.p. : c.f. : c.r.
21	2·4	9·4	2·8	24	+ 2·3	+ 6·7	109	7·1	+ 40	− 1·5	7·3	81·4	78·27	c.r. : o.r.t. : c.r.t. : c.l.
22	4·4	9·5	2·5	22	− 0·1	+ 9·3	89	9·3	+ 20	+ 0·7	11·9	81·2	78·32	o.g.r.q.t.l.
23	4·5	5·5	7·8	68	− 1·8	+ 11·9	81	12·0	+ 12	+ 3·4	12·2	81·2	78·32	c.f.
24	3·8	7·4	5·4	47	− 1·2	+ 9·4	83	9·5	+ 15	+ 0·9	9·8	81·2	78·32	c.f. : c.g.p. : c.p.l.
25	3·7	8·7	2·1	18	− 1·6	+ 8·1	79	8·2	+ 11	− 0·4	8·7	81·2	78·32	o.g.p. : c.f. : o.g.p.
26	3·8	2·6	9·9	87	− 2·0	+ 9·3	78	9·5	+ 10	+ 0·8	10·0	81·2	78·32	c.f.p. : c.f.
27	4·0	3·9	10·5	92	− 1·8	+ 9·5	79	9·7	+ 11	+ 1·0	9·9	81·1	78·32	c.p. : c.f. : c.p.
28	4·0	3·6	9·5	83	− 4·2	+ 10·3	68	11·1	0	+ 2·4	11·3	81·1	78·32	b. : c.p. : c.f. c.p.
29	4·0	4·6	9·7	85	− 3·9	+ 10·1	69	10·8	+ 2	+ 2·1	11·0	81·1	78·32	c.f. : c.p. : c.f.
30	4·6	6·4	9·1	80	− 4·8	+ 10·4	65	11·5	− 2	+ 2·8	11·7	81·1	78·32	c.p. : c.f.
Mean -	4·0	5·9	7·43	65·9	− 3·27	+ 8·62	69·2	9·22	− 1·2	+ 0·66	10·16	81·48	78·25	...
Average	4·2	5·6	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	32

Superposed on a long negative wave, a positive wave of pressure culminated on the 7th., and was accompanied by light rainfall, a negative wave of temperature, and an exceptionally large negative wave of vapour-tension ; the wind velocity curve shows a negative wave from the 2nd. to the 6th. ; heavy rain fell from the 10th. to the 12th.

A shallow negative wave of pressure from the 20th. to the 26th. was accompanied by a feeble positive wave of temperature and a large but irregular positive wave of vapour-tension ; rain fell on each day, except on the 22nd. when the pressure, temperature and wind velocity showed a slight increase and the vapour-tension a decrease.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
May 1	29·881	+·026	80·8	70·8	10·0	74·9	+1·0	69·3	65·2	−2·1	72	− 8	·622	136·5	67·4	0·000	...	·160
2	29·851	−·006	81·8	70·3	11·5	75·2	+1·4	70·1	66·4	−0·8	74	− 6	·648	140·4	63·4	0·000	...	·160
3	29·853	−·006	81·8	71·1	10·7	75·5	+1·8	71·0	67·8	+0·7	77	− 3	·680	137·3	64·8	0·045	20	·160
4	29·839	−·022	80·8	71·1	9·7	75·1	+1·5	71·2	68·4	+1·4	79	− 1	·694	133·8	67·2	0·055	45	·170
5	29·842	−·022	81·8	69·7	12·1	75·2	+1·7	71·3	68·5	+1·6	80	0	·697	135·9	62·7	0·305	160	·130
6	29·862	−·004	80·2	69·1	11·1	73·7	+0·3	70·7	68·5	+1·7	84	+ 4	·697	142·5	66·2	0·000	...	·140
7	29·839	−·029	81·0	67·2	13·8	73·3	0·0	69·4	66·5	−0·2	80	0	·650	137·9	59·6	0·000	...	·160
8	29·807	−·063	81·4	65·8	15·6	73·1	−0·1	69·7	67·2	+0·7	82	+ 2	·666	136·3	58·9	0·000	...	·160
9	29·805	−·067	81·1	65·7	15·4	72·2	−0·9	68·5	65·7	−0·7	80	0	·633	139·2	57·4	0·000	...	·120
10	29·810	−·065	81·8	64·8	17·0	72·2	−0·7	67·8	64·5	−1·8	77	− 3	·607	138·5	58·6	0·000	...	·130
11	29·862	−·015	78·7	63·9	14·8	71·8	−1·0	67·3	63·9	−2·2	76	− 4	·594	145·2	56·1	0·025	35	·140
12	29·909	+·029	79·0	65·0	14·0	72·0	−0·7	66·8	62·9	−3·1	73	− 7	·574	137·5	62·4	0·000	...	·130
13	29·914	+·032	79·7	58·5	21·2	68·2	−4·4	62·5	58·0	−7·9	70	−10	·482	136·1	49·4	0·000	...	·130
14	29·891	+·006	79·8	58·9	20·9	68·5	−3·9	63·3	59·2	−6·5	72	− 8	·503	137·2	51·2	0·000	...	·140
15	29·909	+·022	80·4	60·8	19·6	70·3	−2·0	65·9	62·5	−3·1	77	− 3	·566	138·3	52·4	0·000	...	·140
16	29·946	+·056	81·4	65·6	15·8	72·1	−0·1	68·2	65·3	−0·1	80	+ 1	·624	139·9	55·9	0·045	40	·140
17	29·908	+·016	80·9	64·6	16·3	72·8	+0·8	68·5	65·3	0·0	77	− 2	·624	140·2	54·9	0·000	...	·125
18	29·845	−·049	81·2	66·2	15·0	73·0	+1·1	67·0	62·6	−2·5	70	− 9	·568	136·3	61·0	0·000	...	·130
19	29·800	−·097	79·8	64·5	15·3	71·1	−0·6	67·3	64·4	−0·5	80	+ 1	·605	139·5	55·6	0·000	...	·140
20	29·841	−·058	80·0	63·1	16·9	69·3	−2·3	66·3	64·0	−0·8	83	+ 4	·596	138·1	55·2	0·045	25	·120
21	29·877	−·025	80·0	61·1	18·9	70·1	−1·4	65·2	61·4	−3·2	74	− 5	·545	139·7	54·4	0·030	30	·095
22	29·832	−·072	79·5	66·7	12·8	72·4	+1·1	68·2	65·1	+0·6	78	− 1	·620	132·3	57·4	0·000	...	·170
23	29·846	−·061	80·7	66·6	14·1	74·1	+2·9	68·2	63·9	−0·4	70	− 9	·594	136·1	58·6	0·000	...	·100
24	29·950	+·041	79·9	69·9	10·0	73·9	+2·9	67·0	62·0	−2·1	66	−13	·556	130·9	64·7	0·000	...	·190
25	29·991	+·080	79·0	66·6	12·4	72·9	+2·0	66·9	62·4	−1·6	70	− 8	·564	130·1	61·7	0·000	...	·180
26	29·985	+·071	78·9	65·1	13·8	71·5	+0·7	66·1	62·0	−1·8	72	− 6	·556	127·8	60·0	0·050	35	·170
27	29·963	+·047	80·1	63·7	16·4	71·7	+1·0	65·4	60·6	−3·1	68	−10	·529	132·9	53·9	0·065	45	·160
28	30·002	+·083	78·6	65·4	13·2	71·2	+0·7	66·7	63·3	−0·2	76	− 2	·582	130·9	55·9	0·260	195	·175
29	30·015	+·094	77·8	65·3	12·5	70·7	+0·3	65·7	61·9	−1·5	74	− 4	·554	133·7	58·4	0·000	...	·160
30	29·979	+·055	76·2	63·4	12·8	69·9	−0·4	65·8	62·6	−0·6	78	0	·568	133·3	55·0	0·075	75	·160
31	29·969	+·043	78·6	67·6	11·0	71·8	+1·6	65·7	61·1	−1·9	69	− 9	·539	130·6	56·7	0·000	...	·125
Mean	29·891	+·001	80·1	65·7	14·4	72·2	+0·1	67·5	64·0	−1·3	75·4	−3·9	·598	136·3	58·6	Sum 1·000	Sum 705	·145
Average	29·890	...	79·0	66·4	12·6	72·1	...	68·1	65·3	...	79·3	...	·625	135·5	60·7	3·036	1322	·144
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day. 1903.	Ozone (Scale 0—10)	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. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.		m.p.h.	m.p.h.	°	°	
May 1	4·7	4·7	10·1	89	− 4·2	+11·8	70	12·5	+ 3	+ 3·8	12·7	81·1	78·32	c.f.q.
2	4·2	2·6	10·1	89	− 4·4	+10·8	68	11·7	+ 1	+ 3·0	11·9	81·0	78·27	c.f.
3	4·0	3·5	10·1	89	− 4·1	+10·7	69	11·4	+ 2	+ 2·7	11·7	80·9	78·27	c.f.
4	4·0	7·8	8·8	78	− 1·9	+ 9·8	79	10·0	+ 12	+ 1·2	10·1	80·9	78·27	r.c.g. : c.f.
5	3·7	3·2	10·4	92	− 1·3	+ 9·8	82	9·9	+ 16	+ 1·1	10·0	80·9	78·27	c.f.
6	3·2	7·0	6·6	58	− 0·8	+ 8·2	84	8·2	+ 18	− 0·6	8·5	80·9	78·27	r.o.g. : c.f.
7	2·4	6·4	9·9	88	− 0·6	+ 7·1	85	7·1	+ 19	− 1·7	7·2	80·9	78·27	c.f.
8	2·0	9·0	5·7	51	− 1·8	+ 3·0	59	3·5	− 7	− 5·3	4·3	80·9	78·27	c.f. : c.
9	1·6	8·6	8·3	74	− 2·8	+ 2·7	44	3·9	− 22	− 4·9	5·0	80·9	78·27	c.f.
10	1·9	1·3	10·0	89	− 5·6	+ 2·2	21	6·0	− 45	− 2·8	6·1	80·9	78·27	b.
11	3·2	5·0	6·6	59	− 6·8	+ 5·5	39	8·8	− 26	0·0	9·2	80·9	78·27	c.f. : p.c.g.
12	4·0	8·2	5·5	49	− 5·5	+ 5·9	47	8·1	− 18	− 0·7	8·5	80·7	78·27	c.p. : c.
13	4·0	2·8	9·8	88	− 4·3	+ 7·2	59	8·4	− 6	− 0·4	8·9	80·5	78·22	c.f.
14	4·0	2·7	9·7	88	− 2·1	+ 6·0	71	6·4	+ 6	− 2·5	6·8	80·5	78·22	c.f.
15	4·0	1·8	10·5	94	− 1·0	+ 6·5	81	6·6	+ 16	− 2·3	6·9	80·5	78·22	b.
16	3·7	4·6	9·2	83	− 2·2	+ 8·1	75	8·4	+ 10	− 0·5	8·8	80·5	78·22	c.f. : c.p. : b.
17	3·8	1·6	10·2	92	− 3·2	+ 8·3	69	8·9	+ 4	0·0	9·2	80·5	78·22	b.
18	4·0	1·2	10·6	95	− 1·8	+ 8·6	78	8·8	+ 14	− 0·2	9·2	80·3	78·27	b.
19	3·4	6·2	6·2	56	− 1·6	+ 4·6	71	4·9	+ 7	− 4·1	5·4	80·2	78·32	c.f. : c.g.
20	2·4	5·5	4·7	42	− 3·0	+ 2·4	39	3·8	− 25	− 5·2	5·1	80·0	78·42	c.f. : c.q.p.
21	3·2	2·7	10·2	92	− 3·5	+ 5·7	58	6·7	− 6	− 2·4	6·9	79·9	78·42	c.f. : c.p.
22	4·0	9·3	1·4	13	− 1·8	+ 6·3	74	6·6	+ 10	− 2·5	7·0	79·8	78·42	o.g. : c.
23	4·0	2·9	10·1	92	− 5·1	+ 9·7	62	11·0	− 2	+ 1·9	11·0	79·8	78·42	c.f.q.
24	4·0	2·1	10·2	93	− 6·1	+10·4	60	12·0	− 4	+ 2·8	12·5	79·8	78·42	c.f.q.
25	4·6	1·5	10·0	91	− 6·2	+13·4	65	14·8	+ 2	+ 5·6	15·0	79·7	78·42	b.q.
26	5·0	3·0	8·9	81	− 5·1	+11·7	66	12·8	+ 3	+ 3·5	12·9	79·7	78·42	c.p. : b.
27	5·3	1·5	10·4	95	− 3·5	+ 9·6	70	10·2	+ 7	+ 0·9	10·3	79·7	78·42	c.p. : c.f.
28	5·2	5·4	7·9	72	− 2·9	+10·3	74	10·7	+ 11	+ 1·4	11·1	79·7	78·42	o.p. : c.p. : c.f. : b.
29	4·4	5·7	7·6	69	− 3·2	+10·3	73	10·8	+ 10	+ 1·4	11·1	79·4	78·42	c.p. : c.q. : c. : c.f.
30	4·3	5·4	7·0	64	− 2·2	+ 9·7	77	10·0	+ 15	+ 0·6	10·3	79·4	78·42	p.c.f. : c.p.q. : c.f. : c.f.
31	4·2	5·0	9·5	86	− 5·8	+ 9·7	59	11·3	− 3	+ 1·8	11·6	79·2	78·42	c.f.
Mean	3·8	4·5	8·59	77·1	− 3·37	+ 7·94	67·0	8·63	+ 2·3	+ 0·37	9·20	80·32	78·32	...
Average	4·5	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	32

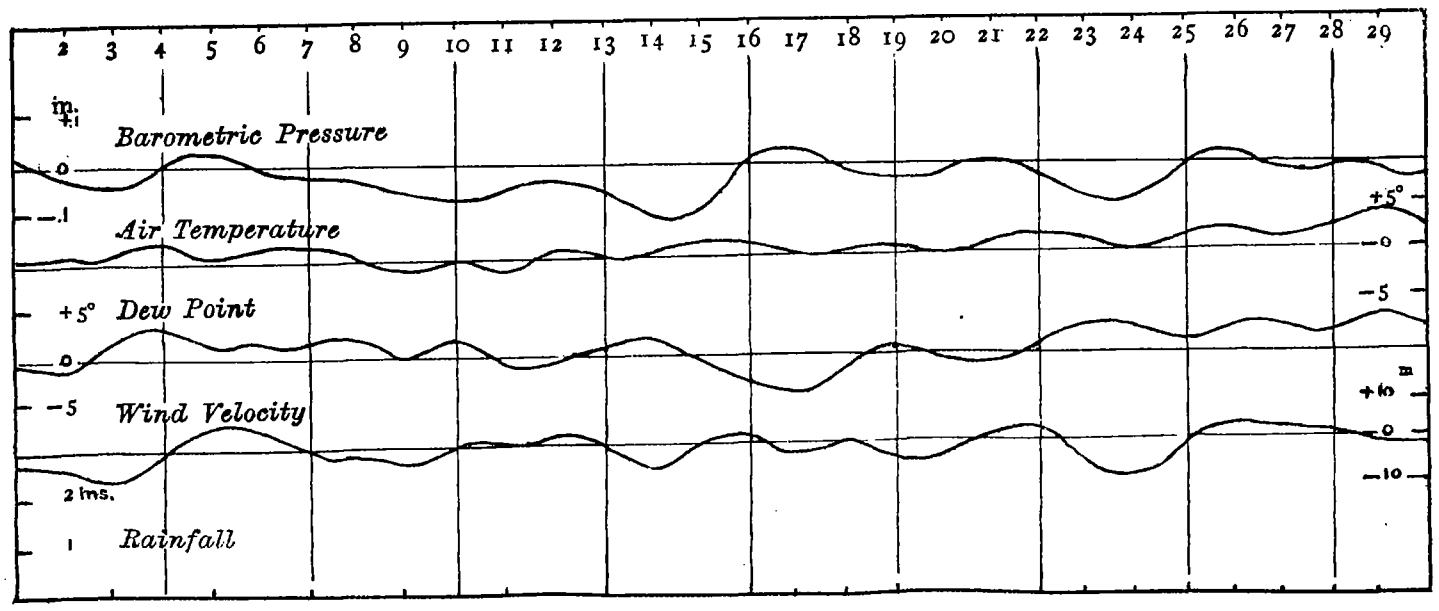
A general increase of pressure from the 9th. to the 16th. was accompanied by a large negative wave of vapour-tension and a smaller negative wave of temperature ; the wind velocity was nearly normal.

A negative wave of pressure from the 17th. to the 24th., with superposed positive wave culminating on the 21st., was accompanied by a positive wave of temperature, with superposed negative wave culminating on the 20th., and a negative wave of wind velocity ; the vapour-tension was variable but showed a negative wave corresponding to the positive wave of pressure.

A positive wave of pressure from the 24th. to the 31st. was accompanied by a general decrease of temperature and a vapour-tension variable but below normal ; the wind velocity shows a positive wave from the 23rd. to the 27th., after which it was nearly normal.

The principal rainfall occurred from the 3rd. to the 5th., during a feeble negative wave of pressure and decreasing wind velocity, and from the 26th. to the 28th. during a feeble negative wave of pressure superposed on a large positive wave.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°	°		in.	°		ins.	mins.	in.
June 1	29·937	+·008	79·3	63·6	15·7	70·6	+0·6	65·9	62·3	− 0·5	75	− 3	·562	137·5	54·9	0·010	10	·170
2	29·898	−·034	79·6	63·4	16·2	71·2	+1·3	66·0	62·1	− 0·6	73	− 5	·558	133·2	54·9	0·000	...	·130
3	29·889	−·046	76·7	68·6	8·1	71·3	+1·5	68·6	66·5	+ 4·0	85	+ 8	·650	127·3	59·7	0·430	325	·180
4	29·948	+·010	78·6	69·6	9·0	73·4	+3·7	68·3	64·5	+ 2·1	73	− 4	·607	133·4	65·3	0·000	...	·080
5	29·970	+·030	74·6	68·2	6·4	71·0	+1·4	67·5	64·8	+ 2·6	81	+ 4	·613	121·8	65·4	0·355	215	·110
6	29·927	−·016	78·9	64·7	14·2	70·9	+1·4	66·8	63·7	+ 1·6	78	+ 1	·590	135·3	55·9	0·005	10	·105
7	29·911	−·035	78·6	64·9	13·7	70·8	+1·4	67·3	64·7	+ 2·8	81	+ 4	·611	130·9	57·5	0·045	65	·145
8	29·904	−·045	78·7	61·5	17·2	69·1	−0·2	64·9	61·7	− 0·1	77	0	·550	127·8	53·9	0·000	...	·150
9	29·875	−·077	74·8	62·4	12·4	68·3	−0·9	65·5	63·3	+ 1·6	84	+ 7	·582	123·6	55·6	0·110	90	·120
10	29·857	−·097	76·3	60·5	15·8	69·1	0·0	64·1	60·0	− 1·6	73	− 4	·518	130·1	58·8	0·000	...	·080
11	29·876	−·081	77·6	56·5	21·1	67·0	−2·0	63·5	60·7	− 0·7	80	+ 3	·531	130·6	48·2	0·210	50	·140
12	29·899	−·060	76·8	63·8	13·0	70·3	+1·4	65·4	61·6	+ 0·3	74	− 2	·548	129·6	64·9	0·000	...	·150
13	29·866	−·096	79·6	61·1	18·5	69·0	+0·2	65·0	61·9	+ 0·7	78	+ 2	·554	134·0	53·8	0·000	...	·140
14	29·812	−·153	77·5	61·2	16·3	69·4	+0·7	65·8	63·0	+ 1·9	80	+ 4	·576	131·4	54·2	0·000	...	·120
15	29·871	−·096	78·7	63·7	15·0	70·9	+2·3	64·5	59·6	− 1·4	68	− 8	·511	131·9	54·4	0·000	...	·120
16	29·975	+·006	76·2	64·7	11·5	70·6	+2·1	61·9	55·2	− 5·7	58	−18	·436	131·5	55·4	0·000	...	·180
17	30·000	+·028	74·6	63·5	11·1	68·4	0·0	61·6	56·3	− 4·5	65	−11	·454	119·4	61·1	0·040	50	·160
18	29·960	−·014	76·8	61·5	15·3	68·5	+0·1	63·8	60·1	− 0·6	75	− 1	·520	128·4	54·5	0·030	50	·110
19	29·936	−·040	78·0	63·3	14·7	69·0	+0·7	64·3	60·6	0·0	75	− 1	·529	133·5	59·4	0·060	55	·140
20	29·938	−·040	79·5	59·5	20·0	68·6	+0·4	63·5	59·5	− 1·0	73	− 3	·509	135·2	52·4	0·000	...	·080
21	29·969	−·010	76·6	66·0	10·6	70·1	+1·9	63·4	58·2	− 2·2	66	−10	·485	124·9	60·9	0·000	...	·140
22	29·955	−·026	77·3	65·9	11·4	70·7	+2·6	63·8	58·6	− 1·7	65	−11	·492	134·3	62·4	0·000	...	·180
23	29·877	−·105	79·4	61·8	17·6	69·6	+1·5	65·6	62·5	+ 2·3	78	+ 2	·566	136·1	54·1	0·030	20	·120
24	29·905	−·079	77·6	61·1	16·5	68·1	+0·1	65·3	63·1	+ 2·9	84	+ 8	·578	134·0	54·8	0·140	45	·130
25	29·981	−·004	77·6	62·5	15·1	69·6	+1·7	65·9	63·0	+ 2·9	80	+ 4	·576	133·1	54·9	0·270	77	·090
26	29·986	−·001	75·6	67·3	8·3	70·4	+2·5	65·1	61·0	+ 1·0	72	− 4	·537	131·9	63·8	0·120	78	·150
27	29·950	−·038	74·9	65·7	9·2	69·7	+1·8	66·3	63·6	+ 3·7	81	+ 5	·588	124·8	62·5	0·155	160	·145
28	29·962	−·028	78·0	64·7	13·3	71·2	+3·4	66·4	62·8	+ 2·9	75	− 1	·572	125·8	64·9	0·060	65	·140
29	29·954	−·037	77·8	63·8	14·0	70·8	+3·0	66·8	63·8	+ 4·0	78	+ 2	·592	131·6	55·9	0·010	25	·120
30	29·925	−·068	79·0	67·5	11·5	72·0	+4·3	67·7	64·5	+ 4·7	77	+ 1	·607	142·2	63·7	0·015	25	·115
Mean -	29·924	−·041	77·5	63·7	13·8	70·0	+1·3	65·4	61·8	+ 0·7	75·4	−1·0	·553	130·8	57·9	Sum 2·095	Sum 1415	·131
Average	29·965	...	76·2	62·7	13·5	68·7	...	64·4	61·1	...	76·4	...	·538	131·8	56·5	1·952	1255	·124
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1903.	Ozone (Scale 0—10).	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. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
June 1	4·0	3·0	9·9	90	− 1·2	+ 7·8	81	7·9	+ 19	− 1·6	8·3	79·2	78·42	c.f. : c.p. : c.f.
2	3·7	3·7	9·2	84	− 1·9	+ 7·2	75	7·4	+ 13	− 2·2	7·7	79·2	78·42	c.f. : c.
3	3·5	10·0	1·9	17	− 2·8	+ 7·3	69	7·8	+ 8	− 1·8	9·0	79·2	78·42	c.p. : o.p. : c.g.p. : c.f.
4	3·8	7·3	6·9	63	− 3·4	+15·2	77	15·6	+ 16	+ 5·9	15·6	79·1	78·47	c. : c.f. : o.q. : c.f.
5	4·0	9·7	4·3	39	− 3·4	+14·3	77	14·7	+ 16	+ 5·0	14·9	79·0	78·47	o.p. : c.p. : c.f.
6	4·0	5·4	9·8	90	− 1·9	+ 8·1	77	8·4	+ 16	− 1·4	8·7	79·0	78·47	b. : c.f. : c.p. : b.
7	4·0	4·0	8·7	80	− 2·3	+ 7·3	73	7·7	+ 12	− 2·1	8·0	79·0	78·47	c.p. : c.f.
8	3·7	2·0	8·5	78	− 2·5	+ 4·5	61	5·1	0	− 4·8	5·4	78·8	78·42	b. : c.f.
9	4·7	9·9	2·9	27	− 5·4	+ 4·3	38	6·9	− 23	− 3·0	7·3	78·7	78·42	c.f. : c.g.p. : o. : c.
10	4·6	5·1	7·6	70	− 5·7	+ 9·8	60	11·3	− 1	+ 1·3	11·6	78·6	78·42	c.f. : c.f.q. : b.
11	5·2	1·9	9·1	83	− 4·4	+ 9·8	66	10·7	+ 6	+ 0·7	10·7	78·6	78·42	b. : c.f.p. c.g.
12	4·8	2·8	10·1	93	− 2·3	+14·5	81	14·7	+ 21	+ 4·6	14·9	78·5	78·37	b. : c.f.q. : b.
13	4·3	3·1	9·5	87	0·0	+ 5·0	90	5·0	+ 30	− 5·1	5·6	78·5	78·37	b. : c.f. : b.
14	3·9	3·4	8·2	75	− 3·0	− 1·0	342	3·2	+282	− 7·0	6·2	78·4	78·37	b. : c.f. : b.
15	3·2	3·1	10·2	94	−10·3	+ 5·1	26	11·5	− 34	+ 1·3	12·1	78·4	78·32	b. : c.f. : b.
16	3·6	3·4	9·6	88	− 7·6	+ 9·8	52	12·4	− 8	+ 2·1	12·7	78·4	78·32	b. : c.f. : c.g.
17	4·3	9·9	1·3	12	− 4·0	+ 6·6	59	7·7	− 1	− 2·6	8·0	78·2	78·27	o. : c.g. : o. : c.f.p.
18	4·8	4·7	7·9	72	− 3·5	+ 9·6	70	10·2	+ 10	− 0·1	10·4	78·2	78·32	c.p. : c.f.p. : c.f.
19	4·1	6·0	3·8	35	− 1·5	+ 6·4	77	6·6	+ 17	− 3·8	7·4	78·2	78·32	c.p. : c.g.p. : c. : c.f.
20	3·8	1·0	10·2	94	− 5·2	+ 4·4	40	6·8	− 20	− 3·6	7·5	78·2	78·22	b.
21	4·0	0·6	10·1	93	− 5·3	+12·7	67	13·8	+ 7	+ 3·4	13·9	78·0	78·22	f. : c.f. : b.
22	4·0	4·4	8·1	74	− 2·7	+13·2	78	13·5	+ 18	+ 3·1	13·8	78·0	78·22	b. : c.f. : c. : b.
23	4·0	3·4	8·0	73	− 0·3	+ 5·7	87	5·7	+ 26	− 4·8	6·7	78·0	78·22	b. : c.p.
24	4·0	5·8	5·1	47	− 3·4	+ 1·2	19	3·6	− 42	− 6·9	5·1	78·0	78·22	b. : c.f. : o.g.r. : c.
25	4·0	5·0	6·4	59	− 3·2	+12·4	75	12·8	+ 14	+ 2·3	13·1	77·8	78·17	c.f. : c.p. : c.p.q.
26	4·6	6·4	9·0	83	− 6·3	+17·3	70	18·4	+ 9	+ 7·9	18·6	77·7	78·17	c.p. : o. : c.f.
27	5·0	7·9	7·5	69	− 3·4	+14·2	77	14·6	+ 16	+ 4·1	14·8	77·7	78·17	c.p. : c.p.g. : c.
28	5·0	4·4	9·6	88	− 4·8	+11·4	67	12·4	+ 6	+ 1·8	12·5	77·7	78·17	c.p. : c. : c.f. : b.
29	4·7	6·7	8·8	81	− 2·5	+ 9·9	76	10·2	+ 14	− 0·4	10·6	77·7	78·17	b. : c.f. : c.p. : c.f.
30	4·5	7·8	6·6	61	+ 0·2	+ 7·6	91	7·6	+ 29	− 3·0	7·8	77·6	78·12	o.p. : c.p. : c. : c.f.
Mean -	4·2	5·1	7·62	69·9	− 3·46	+ 8·72	68·4	9·38	+ 7·6	− 0·78	10·30	78·39	78·32	...
Average	4·9	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	32

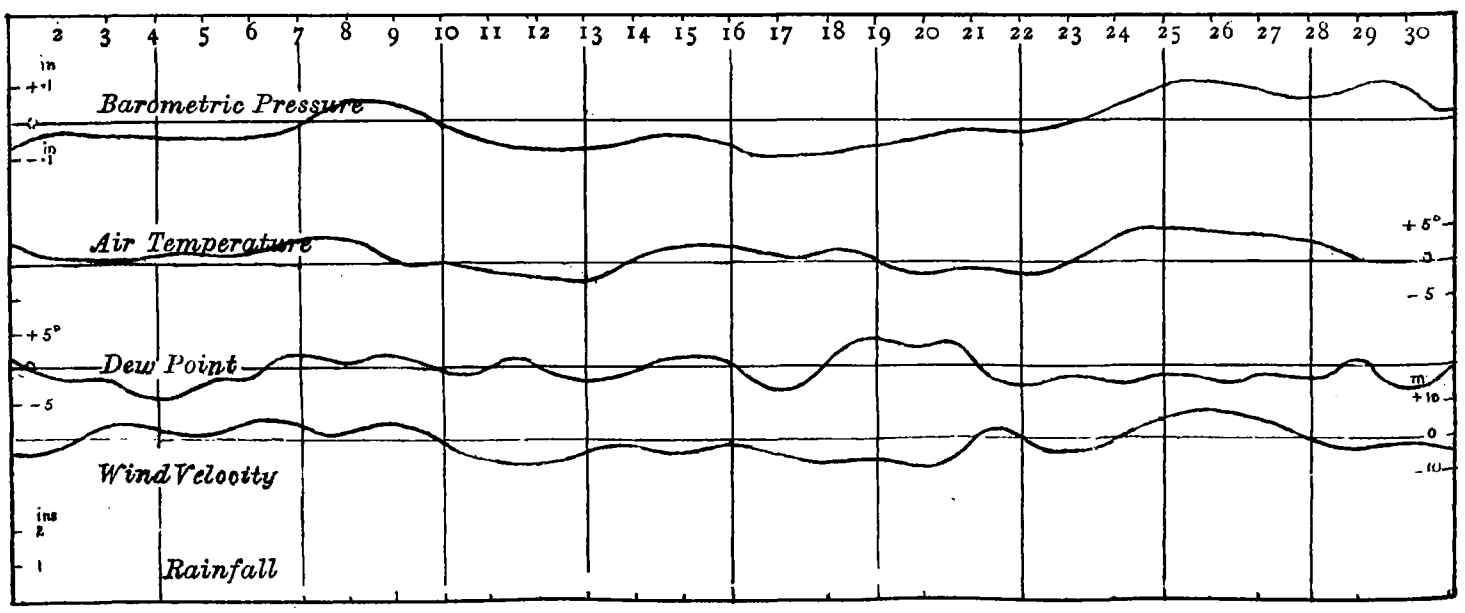
A general decrease of pressure from the 5th. to the 14th. was accompanied by a decrease of temperature until the 11th., and of vapour-tension until the 10th. ; the wind velocity showed two positive waves culminating on the 4th. and 12th., and a negative wave culminating on the 8th.

An increase of pressure from the 14th. to the 17th. was accompanied by positive waves of temperature and wind velocity, and a large decrease of vapour-tension.

A negative wave of pressure from the 21st. to the 25th. was accompanied by negative waves of temperature and wind velocity, and a positive wave of vapour-tension, all culminating a day later than the pressure wave.

Rain fell on 18 days. From the 11th. to the 17th. during a negative wave of pressure, and from the 19th. to the 23rd. during a positive wave, no rain fell.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
July 1	29·930	−·064	79·4	62·2	17·2	70·6	+2·9	65·1	60·9	+1·2	71	− 5	·535	129·4	56·6	0·000	...	·140
2	29·946	−·049	79·1	61·1	18·0	68·9	+1·2	63·2	58·7	−1·0	70	− 6	·494	129·8	53·0	0·000	...	·170
3	29·965	−·031	74·3	64·3	10·0	68·1	+0·5	62·6	58·3	−1·3	71	− 5	·487	133·2	58·4	0·020	25	·170
4	29·960	−·037	75·5	61·5	14·0	68·7	+1·1	61·4	55·7	−3·9	63	−13	·444	123·0	56·4	0·000	...	·120
5	29·958	−·039	76·8	60·3	16·5	69·2	+1·6	63·0	58·2	−1·4	68	− 8	·485	129·8	53·6	0·000	...	·180
6	29·974	−·024	77·4	63·4	14·0	69·6	+2·0	63·4	58·6	−1·0	68	− 8	·492	129·0	57·4	0·000	...	·160
7	29·994	−·005	77·5	66·9	10·6	70·7	+3·2	65·3	61·1	+1·6	72	− 4	·539	134·6	59·5	0·035	25	·220
8	30·036	+·036	76·3	64·3	12·0	68·9	+1·4	64·2	60·4	+0·9	75	− 1	·526	133·3	60·2	0·035	35	·205
9	30·037	+·036	73·3	64·7	8·6	67·6	+0·1	63·8	60·8	+1·3	78	+ 2	·533	126·9	62·4	0·325	170	·165
10	30·011	+·010	75·5	63·2	12·3	67·5	0·0	62·9	59·3	−0·2	75	− 1	·505	126·8	60·4	0·150	115	·160
11	29·954	−·048	76·5	60·5	16·0	67·1	−0·3	63·1	59·9	+0·5	78	+ 2	·516	133·5	54·3	0·040	30	·150
12	29·927	−·075	75·3	58·2	17·1	66·6	−0·8	62·4	59·0	−0·4	77	+ 1	·500	130·1	53·9	0·000	...	·105
13	29·925	−·078	77·0	55·1	21·9	65·5	−1·9	61·3	57·8	−1·6	76	0	·479	131·5	47·8	0·020	10	·090
14	29·935	−·069	77·2	62·6	14·6	68·6	+1·2	63·2	59·0	−0·4	71	− 5	·500	130·2	54·6	0·025	20	·140
15	29·947	−·057	78·1	63·7	14·4	69·4	+2·0	64·4	60·5	+1·1	73	− 3	·528	130·9	54·8	0·035	25	·140
16	29·924	−·081	77·3	63·5	13·8	69·2	+1·8	64·2	60·3	+0·9	73	− 3	·524	127·5	58·5	0·000	...	·120
17	29·895	−·110	77·0	58·3	18·7	66·3	−1·1	60·9	56·6	−2·7	71	− 5	·459	125·5	54·7	0·000	...	·120
18	29·903	−·103	73·2	57·8	15·4	65·7	−1·7	63·5	61·7	+2·4	87	+11	·550	118·4	49·8	0·120	85	·170
19	29·913	−·094	77·3	60·1	17·2	67·7	+0·3	64·6	62·1	+2·8	83	+ 7	·558	121·9	53·9	0·395	60	·060
20	29·947	−·060	75·4	60·3	15·1	66·5	−0·9	63·9	61·8	+2·5	85	+ 9	·552	116·8	58·3	0·160	75	·095
21	29·984	−·023	75·3	58·2	17·1	67·0	−0·4	62·6	59·1	−0·2	76	0	·501	125·8	52·8	0·000	...	·060
22	29·982	−·025	74·6	58·1	16·5	66·3	−1·0	60·7	56·2	−3·1	70	− 6	·453	122·5	48·6	0·000	...	·140
23	29·988	−·020	76·6	57·5	19·1	67·0	−0·4	60·9	56·0	−3·3	68	− 8	·449	130·9	48·5	0·000	...	·160
24	30·043	+·035	77·3	59·3	18·0	68·1	+0·7	61·2	55·6	−3·7	64	−11	·443	134·9	50·6	0·000	...	·180
25	30·107	+·099	77·3	64·2	13·1	69·8	+2·4	62·8	57·4	−1·9	64	−11	·472	130·9	57·6	0·000	...	·180
26	30·125	+·117	76·5	66·7	9·8	70·8	+3·4	61·9	55·1	−4·1	57	−18	·434	128·6	63·3	0·000	...	·170
27	30·103	+·095	76·3	64·5	11·8	70·7	+3·3	62·9	56·9	−2·3	62	−13	·464	127·8	60·3	0·060	45	·190
28	30·087	+·078	76·6	64·9	11·7	70·4	+3·0	63·0	57·3	−1·9	63	−12	·470	125·4	61·3	0·000	...	·150
29	30·102	+·093	75·0	61·1	13·9	67·6	+0·2	63·1	59·6	+0·4	76	+ 1	·511	135·5	54·8	0·045	15	·135
30	30·074	+·065	77·1	57·3	19·8	67·5	+0·1	61·5	56·8	−2·5	68	− 7	·462	133·0	49·9	0·000	...	·130
31	30·033	+·023	76·4	63·3	13·1	68·4	+0·9	63·4	59·5	+0·2	73	− 2	·509	132·8	60·4	0·130	120	·150
Mean	29·991	−·013	76·4	61·5	14·9	68·3	+0·8	62·9	58·7	−0·7	71·8	−3·9	·496	128·7	55·7	Sum 1·595	Sum 855	·146
Average	30·004	...	75·3	61·6	13·7	67·5	...	63·1	59·4	...	75·7	...	·507	131·0	55·9	2·277	1533	·134
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



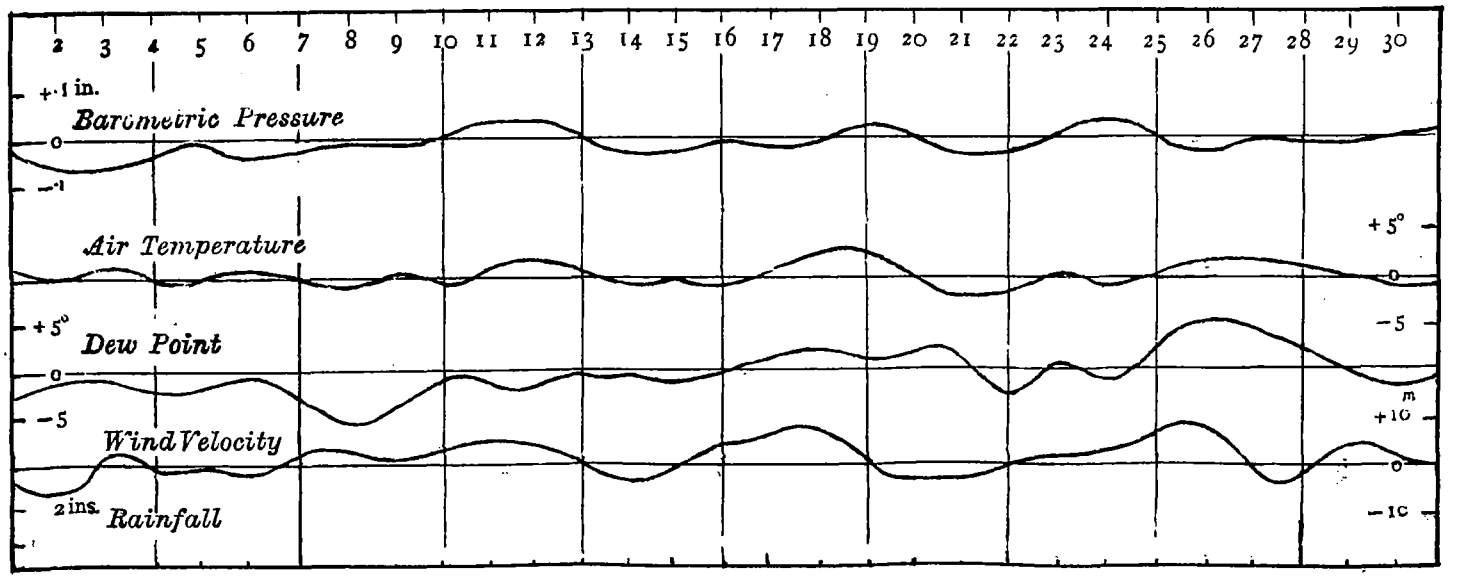
Month and Day. 1903.	Ozone (Scale 0—10)	Mean Amount of Cloud (Scale 0—10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind: Components. North.	Wind: Components. East.	Wind: Resultants. Direction.	Wind: Resultants. Velocity.	Wind: Excess above Average. Direction.	Wind: Excess above Average. Velocity.	Wind: Observed Velocity.	Temperature of the Soil: 5 Feet.	Temperature of the Soil: 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.		m.p.h.	m.p.h.	°	°	
July 1	4·2	2·1	10·2	94	− 3·6	+ 7·2	63	8·0	+ 1	− 2·6	8·2	77·6	78·10	b. : c.f. : b.
2	4·0	3·0	8·5	78	− 8·3	+ 2·3	16	8·6	− 46	− 2·0	9·1	77·6	78·10	b. : c.f. : b. : c. : o.d.q.
3	4·0	6·0	7·7	71	− 9·8	+ 8·1	40	12·7	− 22	+ 2·0	13·0	77·4	78·05	c.g.p. : c. : p. : b.
4	3·4	1·1	10·3	94	−10·9	+11·6	47	15·9	− 16	+ 5·2	16·1	77·4	78·05	b.q.
5	4·2	2·6	10·4	95	− 6·9	+11·7	59	13·6	− 4	+ 2·9	13·7	77·4	78·05	b. : c.f.q. : c.
6	4·4	5·4	9·4	86	− 4·7	+10·8	66	11·8	+ 3	+ 1·1	11·8	77·4	78·05	b. : c.f. : c.f.q. : b.
7	4·0	5·4	9·2	84	− 5·2	+13·3	69	14·3	+ 6	+ 3·6	14·5	77·3	78·00	c.f. : c.p.q. : c.f.q. : c.p.
8	4·0	5·9	8·2	75	− 4·9	+11·3	67	12·3	+ 4	+ 1·5	12·7	77·2	78·00	o.p. : c.g.q.p. : c.p.
9	4·0	8·1	7·7	71	− 4·0	+13·3	73	13·9	+ 9	+ 3·1	14·1	77·0	77·90	c.p. : o.p.q. :c.g.p.q.: c.p.
10	4·6	6·2	7·5	69	− 3·1	+ 9·9	73	10·4	+ 9	− 0·4	10·7	77·0	77·90	o.p. : c.p. : c.f. : c.
11	4·4	7·5	5·8	53	− 1·4	+ 6·4	78	6·6	+ 14	− 4·2	6·9	76·9	77·85	c.d. : o.p. : c.g.d. : c.f.
12	4·9	8·8	2·5	23	− 1·1	+ 6·5	80	6·6	+ 16	− 4·2	6·8	76·8	77·85	c. : c.d. : b.
13	4·9	2·6	9·4	85	− 3·3	+ 8·2	68	8·8	+ 4	− 2·0	9·0	76·8	77·80	b. :c.f.: c.d. :c.f.
14	4·8	5·1	8·5	77	− 2·7	+ 9·9	75	10·3	+ 11	− 0·6	10·4	76·7	77·70	c.f.q. : c.p.
15	5·3	9·1	5·6	51	− 2·4	+ 8·2	74	8·6	+ 10	− 2·3	8·7	76·6	77·65	c.p. : c. : c.f. : b.
16	5·5	5·2	5·3	48	− 0·9	+ 9·7	85	9·7	+ 20	− 1·2	10·1	76·5	77·60	b. : c. : b.
17	5·8	1·0	10·5	95	− 2·5	+ 7·2	71	7·6	+ 6	− 3·3	7·9	76·4	77·60	b.
18	4·8	7·0	3·3	30	− 1·6	+ 4·3	70	4·6	+ 5	− 6·3	5·9	76·4	77·60	b. :c.f.: o.d. : c.f.
19	4·3	7·4	2·8	25	− 0·9	+ 4·7	79	4·8	+ 14	− 6·1	5·7	76·4	77·60	b. : c.f. : c.p. : o.
20	4·5	8·5	2·8	25	− 0·0	+ 3·0	90	3·0	+ 25	− 7·9	4·7	76·4	77·55	c. : c.g. : c.g.p. : b.
21	4·2	6·1	7·4	67	−10·1	+ 6·2	31	11·9	− 34	+ 1·0	12·3	76·4	77·55	b. : c.f.q. : b.
22	5·2	1·0	10·6	96	− 4·8	+ 9·9	64	11·0	− 1	0·0	11·5	76·3	77·55	b. : b.q. : b.
23	5·4	2·8	10·5	95	− 4·1	+ 8·2	63	9·1	− 2	− 1·9	9·3	76·2	77·50	b. : c.f.q. : b.
24	5·0	0·7	10·5	95	− 4·6	+ 9·3	64	10·4	− 1	− 0.6	10·5	76·1	77·50	b.
25	5·0	2·6	9·5	86	− 5·0	+14·1	70	15·0	+ 4	+ 4·0	15·1	76·1	77·50	b. : c.f.q. : b.
26	5·6	4·7	9·3	84	− 3·3	+17·1	79	17·4	+ 13	+ 6·4	17·7	76·1	77·50	b. : c.f.q. : c.
27	6·0	6·8	7·6	68	− 1·3	+15·3	85	15·4	+ 19	+ 4·4	15·6	76·1	77·50	c. : c.p.q.g.
28	6·7	9·1	2·1	19	− 1·4	+ 9·7	82	9·8	+ 16	− 1·2	10·1	76·0	77·45	c.f. : c.g.q. : o.
29	6·7	7·4	6·5	59	− 4·1	+ 8·5	64	9·4	− 2	− 1·6	9·8	76·0	77·40	o.p. : c.g.q. : c. : c.f.
30	6·5	6·6	7·0	63	− 4·1	+ 8·4	64	9·4	− 2	− 1·7	9·6	75·9	77·40	f. : c.f. : c.q. : c.
31	6·5	8·2	6·1	54	− 0·9	+ 8·7	84	8·8	+ 18	− 2·3	9·4	75·9	77·40	o.p. : c.f. : c.g. : c.f.
Mean	4·9	5·3	7·50	68·2	− 3·93	+ 9·13	66·7	9·94	+ 2·3	− 0·92	10·67	76·65	77·72	...
Average	5·2	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	32

A negative wave of pressure from June 26 to July 7 was accompanied by an irregular positive wave of temperature, and a double wave of vapour-tension (from positive to negative) ; the curve of wind velocity followed generally the pressure curve.

From the 7th. to the end of the month the temperature and wind velocity curves followed generally the pressure curve ; the vapour-tension was variable.

The principal rainfall occurred from the 7th. to the 11th. during a positive wave of pressure, and from the 18th. to the 20th. during the recovery from a well-marked negative wave of pressure.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°	°		in.	°		ins.	mins.	in.
Aug. 1	29·984	−·026	78·7	58·6	20·1	68·8	+1·3	62·1	56·8	− 2·5	66	− 9	·462	126·8	53·5	0·000	...	·140
2	29·942	−·068	77·0	57·1	19·9	67·9	+0·4	62·4	58·1	− 1·2	71	− 4	·483	135·0	49·5	0·000	...	·180
3	29·935	−·076	76·3	63·3	13·0	68·9	+1·4	63·0	58·4	− 0·9	69	− 6	·489	125·9	56·3	0·000	...	·140
4	29·975	−·036	75·8	59·1	16·7	67·5	−0·1	61·4	56·6	− 2·7	68	− 7	·459	133·8	50·1	0·000	...	·190
5	30·010	−·001	76·8	61·2	15·6	68·2	+0·6	62·2	57·5	− 1·8	69	− 6	·473	135·3	52·2	0·015	20	·175
6	29·988	−·023	76·0	61·5	14·5	68·4	+0·8	63·0	58·8	− 0·5	71	− 4	·496	127·8	55·0	0·015	40	·150
7	29·982	−·029	74·3	62·7	11·6	67·7	+0·1	60·6	55·0	− 4·3	64	−11	·433	128·5	56·2	0·000	...	·115
8	30·000	−·011	73·0	60·2	12·8	66·5	−1·2	58·7	52·4	− 6·9	61	−14	·394	135·2	49·7	0·000	...	·170
9	30·003	−·008	74·5	64·0	10·5	68·2	+0·5	60·6	54·6	− 4·7	62	−13	·427	130·3	63·7	0·000	...	·180
10	30·009	−·002	74·3	61·6	12·7	66·8	−0·9	62·3	58·7	− 0·6	75	0	·494	133·1	57·2	0·055	70	·160
11	30·037	+·026	76·3	64·3	12·0	69·4	+1·7	62·5	57·1	− 2·3	65	−10	·467	134·0	61·7	0·015	20	·150
12	30·044	+·033	76·6	64·9	11·7	70·1	+2·3	63·4	58·2	− 1·2	66	− 9	·485	131·2	62·4	0·035	40	·175
13	30·004	−·007	75·3	60·5	14·8	68·7	+0·9	63·2	58·8	− 0·6	71	− 4	·496	137·2	63·4	0·015	5	·180
14	29·976	−·035	76·4	60·2	16·2	67·1	−0·8	62·6	59·0	− 0·4	75	0	·500	135·2	52·7	0·080	130	·125
15	29·995	−·016	77·3	58·5	18·8	67·8	−0·1	62·0	57·4	− 2·0	70	− 5	·472	135·0	51·2	0·240	70	·150
16	30·006	−·005	72·4	63·5	8·9	67·4	−0·5	63·0	59·5	+ 0·1	76	+ 1	·509	123·3	60·5	0·505	245	·145
17	29·988	−·023	75·1	64·9	10·2	69·0	+1·0	64·8	61·5	+ 2·1	77	+ 2	·546	132·1	62·2	0·300	155	·170
18	29·995	−·016	75·7	66·8	8·9	70·9	+2·9	66·5	63·2	+ 3·8	77	+ 2	·580	128·5	65·0	0·050	30	·160
19	30·034	+·024	78·2	63·1	15·1	70·7	+2·7	65·2	61·0	+ 1·5	72	− 2	·537	140·8	66·7	0·010	20	·170
20	30·020	+·010	75·0	62·9	12·1	67·9	−0·2	64·5	61·8	+ 2·3	81	+ 7	·552	122·5	57·6	0·040	65	·190
21	29·987	−·023	77·1	57·5	19·6	65·5	−2·6	60·1	55·7	− 3·8	70	− 4	·444	133·2	50·7	0·000	...	·110
22	29·975	−·035	77·3	56·3	21·0	66·0	−2·2	61·2	57·4	− 2·1	74	0	·472	141·1	49·0	0·000	...	·150
23	30·019	+·009	75·4	63·3	12·1	68·3	+0·1	63·6	59·9	+ 0·4	75	+ 1	·516	139·7	59·2	0·100	70	·175
24	30·051	+·041	75·9	61·3	14·6	67·7	−0·5	62·2	57·8	− 1·7	70	− 4	·479	127·2	54·1	0·070	50	·165
25	30·002	−·007	75·3	66·4	8·9	69·6	+1·3	66·3	63·7	+ 4·2	82	+ 8	·590	126·1	62·9	0·195	120	·185
26	29·961	−·048	75·3	68·3	7·0	70·9	+2·6	67·6	65·2	+ 5·6	82	+ 8	·622	120·8	66·6	0·060	105	·140
27	29·992	−·016	76·3	65·3	11·0	70·7	+2·3	66·6	63·5	+ 3·9	78	+ 4	·586	123·1	65·4	0·030	30	·130
28	29·996	−·012	77·0	65·2	11·8	70·1	+1·7	65·2	61·4	+ 1·8	74	0	·545	130·8	61·7	0·000	...	·120
29	29·995	−·013	76·1	64·4	11·7	69·1	+0·6	63·6	59·3	− 0·3	71	− 3	·505	130·9	63·0	0·025	15	·120
30	30·003	−·004	75·4	63·5	11·9	68·3	−0·2	61·7	56·5	− 3·2	66	− 7	·457	134·0	59·7	0·025	30	·150
31	30·009	+·002	75·8	61·4	14·4	68·0	−0·6	61·7	56·8	− 2·9	68	− 5	·462	137·2	57·2	0·000	...	·160
Mean	29·997	−·013	75·9	62·3	13·6	68·5	+0·5	63·0	58·8	− 0·6	71·5	−3·0	·498	131·5	57·9	Sum 1·880	Sum 1330	·155
Average	30·010	...	75·7	62·1	13·6	68·0	...	63·2	59·4	...	74·5	...	·508	134·5	56·2	2·828	1769	·160
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1903.	Ozone (Scale 0—10).	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. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Aug. 1	6·1	0·9	9·7	87	+ 0·3	+ 5·4	93	5·4	+ 27	− 5·7	6·3	75·9	77·40	o. : c.f. : b. : f. : c.f.
2	6·4	4·0	8·0	71	− 2·4	+ 0·7	16	2·5	− 50	− 8·6	5·9	75·9	77·40	c.f. : b. : c.g. : f.
3	6·1	3·6	9·9	88	−10·6	+ 9·9	43	14·5	− 23	+ 3·4	14·7	75·7	77·40	c.f. : c.f.q. : b.
4	6·0	4·4	8·4	75	− 6·5	+ 9·7	56	11·7	− 11	+ 0·6	12·2	75·6	77·30	b. : c.f.q. : c.g.q. : c.
5	5·7	7·1	7·3	65	− 4·3	+ 9·0	65	9·9	− 2	− 1·2	10·1	75·5	77·25	c.p. : c.f. : c. : c.f.
6	5·8	5·1	5·3	47	− 6·2	+ 6·2	45	8·8	− 22	− 2·3	9·1	75·5	77·20	c. : c.f. : c.p. : c.
7	6·0	8·2	7·0	62	−11·4	+ 7·9	35	13·9	− 32	+ 2·8	14·1	75·4	77·20	c. : c.p. : o.g.q. : c.q.f.
8	5·4	6·9	5·6	50	− 6·8	+ 9·9	55	12·0	− 12	+ 0·9	12·2	75·4	77·20	f.q. : c.q. : c.f.q. : f.
9	5·0	8·8	4·4	39	− 4·2	+11·2	69	12·0	+ 2	+ 0·8	12·1	75·4	77·20	c.f. : c. : c.q.
10	4·7	6·5	8·5	75	− 2·7	+13·9	78	13·3	+ 11	+ 2·1	13·5	75·3	77·15	c.p. : c.q. :c.g.p.q.: c.p.
11	4·8	9·7	3·9	35	− 1·6	+15·2	84	15·3	+ 17	+ 4·1	15·4	75·3	77·10	c. : c.g.p. : o.q. : c.
12	5·6	8·6	7·6	67	− 1·9	+15·0	83	15·1	+ 16	+ 3·9	15·3	75·3	77·10	c.p. : c.q. : c.q.f. : c.
13	6·0	9·5	4·5	40	− 3·2	+10·7	73	11·1	+ 6	− 0·1	11·3	75·3	77·05	b. : c.q. :c.g.p.q.: c.f.
14	6·0	5·8	7·5	66	− 2·5	+ 8·4	73	8·8	+ 5	− 2·4	8·9	75·2	77·00	c.f.p. : c.q.p. : c.p.
15	6·7	4·6	9·9	87	− 4·3	+10·4	68	11·3	0	+ 0·1	11·4	75·2	77·00	c.f. : c.f.q. : p.c.
16	7·0	8·9	4·9	43	− 5·2	+13·9	69	14·8	+ 1	+ 3·6	14·9	75·2	77·00	o.p. : o.q.r. :c.g.p.q.: c.g.p.
17	6·7	7·2	8·1	71	− 3·6	+17·2	78	17·6	+ 10	+ 6·4	17·7	75·1	76·95	c.r. : c.g.p.q.
18	5·5	8·1	6·7	59	− 0·7	+20·8	88	20·8	+ 20	+ 9·6	20·9	75·1	76·95	c.q.p. : c.q.g. : c.
19	5·0	6·8	8·9	78	+ 0·9	+11·2	95	11·2	+ 27	0·0	11·5	75·1	76·95	c. : c.f.
20	4·7	6·1	6·9	61	− 1·0	+ 7·5	82	7·6	+ 14	− 3·6	8·0	75·0	76·90	b. :c.f.: c.g.p. : b.
21	4·2	2·6	10·5	91	− 3·3	+ 5·9	61	6·7	− 7	− 4·5	6·9	75·0	76·90	b. : c.f. : b.
22	4·6	4·9	6·7	58	− 7·7	+ 7·3	44	10·6	− 24	− 0·6	11·1	75·0	76·85	b. : c.f. : c.q.p. : c.
23	5·6	7·5	8·0	70	− 6·9	+ 9·3	53	11·6	− 15	+ 0·4	12·5	75·0	76·85	c.p. : c.g.p. : c.p.
24	6·0	8·0	7·8	68	− 6·1	+11·7	63	13·2	− 6	+ 2·0	13·4	74·9	76·85	c.f. : c.f.q. : o.q.p. : c.p.
25	5·1	8·0	7·2	63	− 5·4	+17·5	73	18·3	+ 4	+ 7·1	18·4	74·9	76·85	c.p. :c.g.q.p.: o.q.p. : c.p.
26	4·8	9·2	2·6	23	+ 0·2	+20·4	91	20·4	+ 22	+ 9·2	20·6	74·9	76·85	c.g.p.q.
27	4·7	8·4	2·6	22	0·0	+ 7·9	90	7·9	+ 21	− 3·3	8·1	74·9	76·80	c.p. : c.g. : c.f.
28	4·8	8·1	5·8	50	− 2·7	+ 7·6	70	8·1	+ 1	− 3·1	8·2	74·9	76·80	c.f.
29	5·0	5·9	7·8	67	− 4·9	+15·8	73	16·6	+ 4	+ 5·4	16·8	74·8	76·75	c. : c.g.q.p. : c.f.
30	5·3	5·1	8·8	76	− 3·3	+13·9	77	14·3	+ 8	+ 3·1	14·5	74·8	76·70	c.p. : c.p.q. : c.f.q. : f.
31	4·9	4·5	9·5	82	− 1·7	+12·4	82	12·5	+ 13	+ 1·3	12·7	74·8	76·65	b. : c.f.q. : c.p.
Mean -	5·5	6·5	7·10	62·4	− 3·86	+11·06	70·8	11·71	+ 3·1	+ 0·53	12·54	75·20	77·02	...
Average	5·3	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	32

A negative wave of pressure from July 31 to August 5 was accompanied by a double wave of wind velocity (from negative to positive); no pronounced movements in the temperature and vapour-tension curves.

A large negative wave of vapour-tension from the 6th. to the 10th. was unaccompanied by any well-marked waves in the other elements.

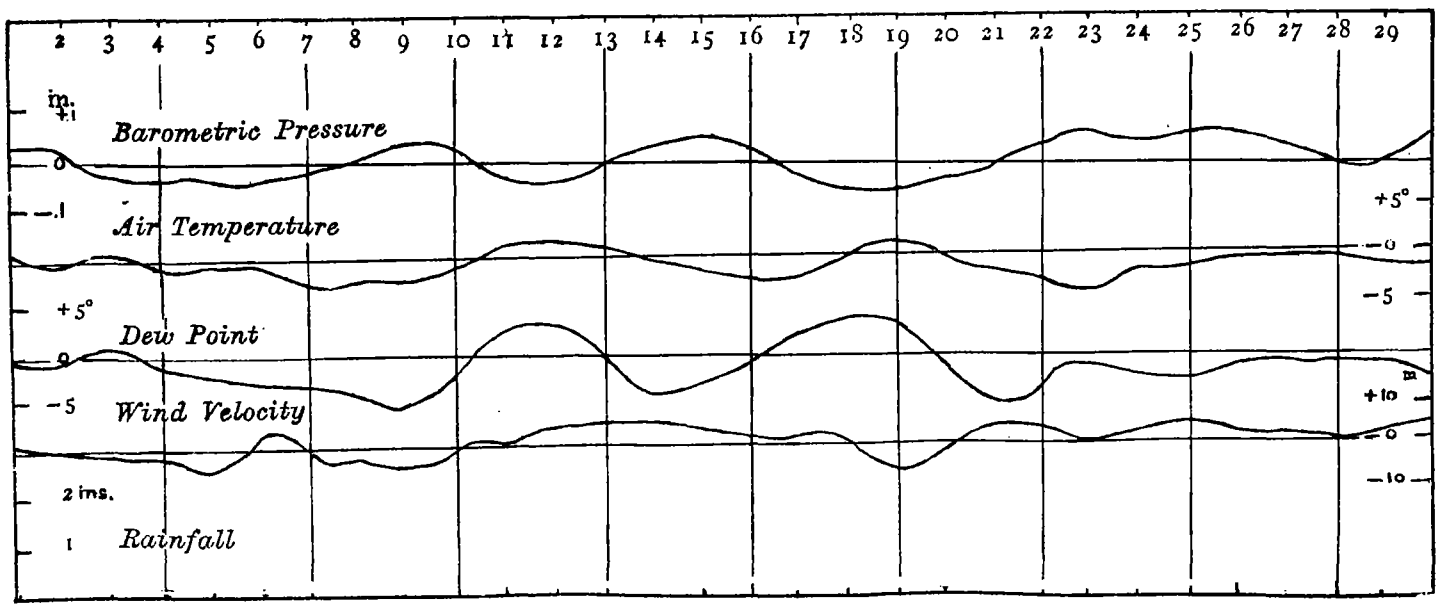
A positive wave of pressure from the 10th. to the 14th. was accompanied by positive waves of temperature and wind velocity and a negative wave of vapour-tension.

A double wave of pressure from the 17th. to the 23rd. (from positive to negative) was accompanied by corresponding double waves of temperature, vapour-tension and wind velocity.

A similar wave of pressure from the 23rd. to the 28th. was accompanied by corresponding waves of temperature, vapour-tension and wind velocity in the opposite direction.

The principal rainfall occurred from the 14th. to the 17th. and from the 23rd. to the 25th.; it was associated in each case with a feeble positive wave of pressure and increasing wind velocity.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
Sept. 1	30·044	+·037	77·3	62·5	14·8	69·0	+0·4	63·4	59·0	−0·7	71	− 2	·500	138·3	56·7	0·030	20	·170
2	30·007	+·001	76·3	60·1	16·2	68·0	−0·7	63·2	59·4	−0·4	74	+ 1	·507	131·7	54·5	0·000	...	·180
3	29·946	−·060	76·3	63·9	12·4	69·3	+0·6	64·2	60·2	+0·4	73	0	·522	137·5	53·0	0·015	10	·155
4	29·934	−·071	76·3	58·8	17·5	67·8	−1·0	62·7	58·7	−1·1	73	0	·494	138·3	53·7	0·030	15	·170
5	29·912	−·093	78·0	57·9	20·1	68·1	−0·8	61·9	57·1	−2·7	68	− 5	·467	133·5	53·1	0·010	10	·180
6	29·921	−·083	75·9	63·2	12·7	68·1	−0·8	61·4	56·1	−3·8	65	− 8	·451	133·2	63·5	0·005	40	·215
7	29·949	−·054	73·0	62·2	10·8	66·4	−2·6	60·7	56·0	−3·9	69	− 4	·449	119·3	58·0	0·020	15	·230
8	29·991	−·011	76·1	58·2	17·9	66·8	−2·2	59·9	54·4	−5·5	64	− 9	·424	143·7	49·9	0·000	...	·100
9	30·035	+·034	77·0	55·4	21·6	66·3	−2·8	57·9	51·1	−8·9	58	−14	·375	133·3	45·3	0·000	...	·130
10	30·041	+·040	78·3	57·1	21·2	67·6	−1·5	61·3	56·3	−3·7	67	− 5	·454	143·1	49·2	0·000	...	·220
11	29·958	−·042	78·7	64·4	14·3	70·4	+1·2	66·5	63·5	+3·5	79	+ 7	·586	135·7	59·5	0·020	25	·150
12	29·954	−·045	76·4	66·5	9·9	70·4	+1·1	66·7	63·9	+3·8	80	+ 8	·594	131·2	64·8	0·050	45	·170
13	30·010	+·012	77·0	66·2	10·8	70·2	+0·8	64·8	60·6	+0·5	72	0	·529	132·6	63·0	0·035	35	·120
14	30·041	+·044	75·3	65·0	10·3	69·2	−0·3	60·5	53·8	−6·3	58	−14	·415	135·4	62·0	0·000	...	·215
15	30·058	+·062	73·9	61·4	12·5	67·4	−2·1	60·2	54·5	−5·7	63	− 9	·425	129·3	58·2	0·095	90	·220
16	30·027	+·033	74·0	62·2	11·8	67·2	−2·4	62·5	58·8	−1·4	74	+ 2	·496	140·3	58·3	0·150	50	·180
17	29·958	−·035	74·1	63·3	10·8	67·5	−2·2	64·5	62·1	+1·9	83	+11	·558	136·8	61·0	0·355	185	·150
18	29·911	−·080	77·0	64·1	12·9	69·8	+0·1	66·0	63·1	+2·8	79	+ 7	·578	139·1	61·5	0·135	30	·170
19	29·915	−·075	80·5	66·1	14·4	70·7	+0·9	66·5	63·3	+3·0	78	+ 7	·582	139·8	63·2	0·005	15	·180
20	29·951	−·038	76·8	64·2	12·6	69·2	−0·7	62·2	56·7	−3·6	65	− 6	·461	136·3	60·1	0·010	5	·165
21	29·985	−·003	76·0	60·3	15·7	67·5	−2·5	59·2	52·6	−7·8	59	−12	·397	133·0	52·4	0·000	...	·240
22	30·055	+·068	75·4	58·2	17·2	66·9	−3·2	59·2	53·0	−7·4	61	−10	·403	135·5	52·5	0·055	40	·250
23	30·069	+·084	72·5	57·5	15·0	65·4	−4·7	61·7	58·6	−1·9	79	+ 8	·492	131·1	50·8	0·195	105	·220
24	30·040	+·056	75·5	62·2	13·3	67·7	−2·5	62·6	58·6	−1·9	72	+ 1	·492	135·3	57·2	0·100	65	·150
25	30·069	+·087	76·4	63·4	13·0	68·2	−2·0	62·5	58·0	−2·6	70	− 1	·482	141·8	59·9	0·040	40	·180
26	30·068	+·087	78·1	60·5	17·6	69·0	−1·3	63·3	58·8	−1·8	70	− 1	·496	137·5	55·2	0·235	115	·195
27	30·024	+·045	78·6	65·2	13·4	70·3	−0·1	64·7	60·4	−0·3	71	0	·526	137·2	61·9	0·000	...	·250
28	29·968	−·010	78·3	64·6	13·7	70·1	−0·4	64·3	59·9	−0·8	70	− 1	·516	137·2	61·5	0·000	...	·200
29	29·977	+·001	79·5	63·0	16·5	70·2	−0·4	64·1	59·4	−1·3	69	− 2	·507	142·5	58·0	0·055	35	·170
30	30·009	+·035	77·5	61·6	15·9	68·6	−2·0	62·9	58·4	−2·4	70	− 1	·489	137·0	55·1	0·075	50	·255
Mean	29·994	+·001	76·5	62·0	14·5	68·4	−1·2	62·7	58·2	−2·0	70·1	−1·8	·489	135·9	56·9	Sum 1·720	Sum 1040	·186
Average	29·993	...	77·6	62·6	15·0	69·6	...	64·3	60·2	...	71·9	...	·522	138·9	57·1	1·310	978	·193
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

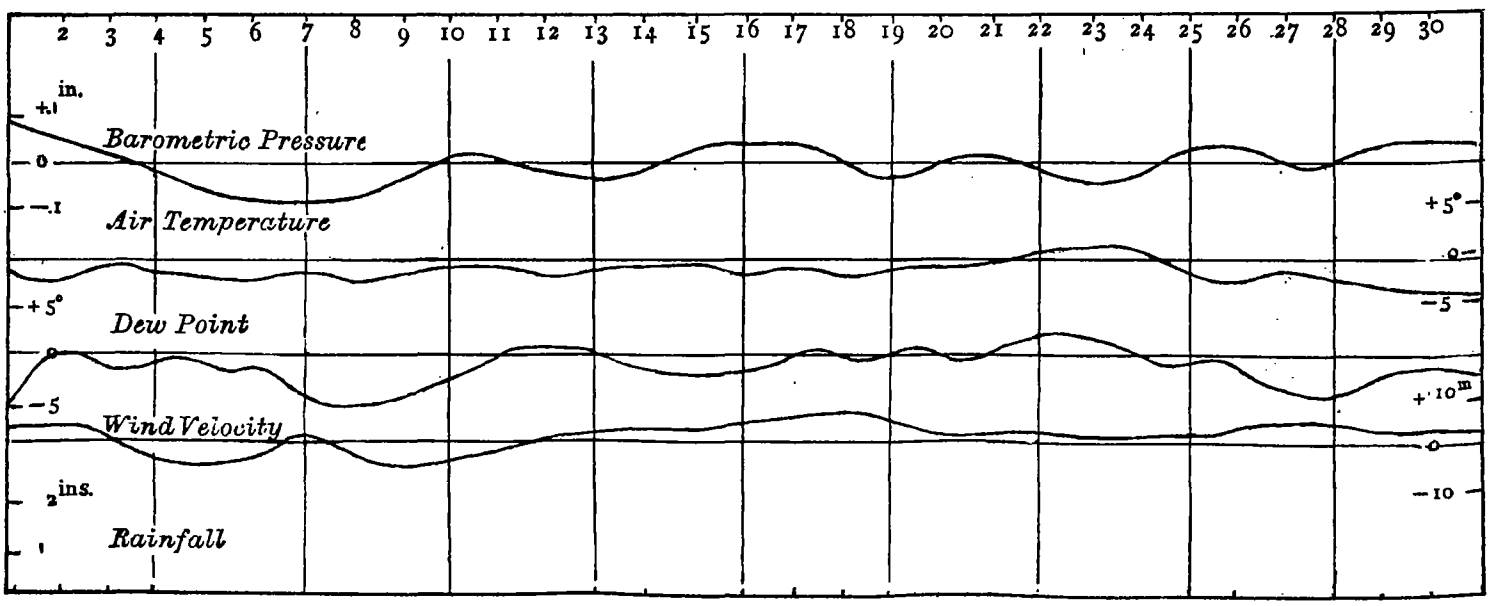


Month and Day. 1903.	Ozone (Scale 0—10)	Mean Amount of Cloud (Scale 0—10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind: Components. North.	Wind: Components. East.	Wind: Resultants. Direction.	Wind: Resultants. Velocity.	Wind: Excess above Average. Direction.	Wind: Excess above Average. Velocity.	Wind: Observed Velocity.	Temperature of the Soil. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.		m.p.h.	m.p.h.	°	°	
Sept 1	3·9	6·7	9·8	84	+ 1·0	+12·6	95	12·6	+ 26	+ 1·5	12·8	74·7	76·60	p. : c.f. :c.g.p.q.: c.f.
2	4·7	6·6	6·3	54	− 3·9	+ 9·3	67	10·1	− 3	− 1·0	10·4	74·7	76·60	b. : c.f.q. : c.g.q. : c.f.
3	5·2	6·5	5·4	46	− 3·2	+ 9·8	72	10·3	+ 2	− 0·8	10·7	74·7	76·60	b. : c.f. : c.g. : c.f.
4	5·6	6·4	7·7	66	− 1·4	+ 9·1	81	9·2	+ 11	− 1·9	9·5	74·7	76·55	c.p. : c.g. : c.f.
5	5·1	2·6	8·6	74	− 3·3	+ 1·4	23	3·6	− 47	− 7·5	8·3	74·7	76·55	b. : c.f. : c.p.
6	5·4	3·5	9·5	81	−12·9	+11·9	43	17·5	− 27	+ 6·4	17·9	74·7	76·55	p.c. : c.f. : c.f.q. : c.f.
7	4·8	8·9	3·0	25	− 6·2	+ 5·3	41	8·1	− 29	− 2·9	8·9	74·7	76·55	c. : c.p. : c.g. : c.
8	4·3	5·6	6·0	51	− 6·1	+ 3·3	28	6·9	− 42	− 4·1	8·7	74·7	76·60	b. : c.f. : b.
9	4·5	1·8	11·0	93	− 5·2	+ 0·9	10	5·3	− 60	− 5·7	9·1	74·7	76·55	b.
10	5·4	4·9	5·9	50	− 6·6	+ 8·0	50	10·4	− 20	− 0·6	10·6	74·7	76·50	b. : c.f. : b.
11	6·0	6·1	6·4	54	− 3·9	+10·9	70	11·6	− 1	+ 0·7	12·1	74·7	76·50	c.f. :c.g.p.q.: c.g.p. : c.g.
12	5·4	9·5	2·3	19	− 2·2	+12·3	80	12·5	+ 9	+ 1·6	13·0	74·7	76·50	c. : c.g.p.q. : c.f.
13	6·3	7·7	9·1	76	− 5·0	+14·7	71	15·5	0	+ 4·6	15·6	74·7	76·50	f. : c.g.p. : c.f.
14	7·0	7·0	9·0	76	− 3·9	+17·4	77	17·8	+ 6	+ 7·0	18·1	74·7	76·45	f. : c.f. : c.g.q. : c.f.
15	7·3	8·6	5·9	50	− 2·9	+17·4	81	17·7	+ 10	+ 6·9	18·0	74·7	76·45	c.p. : c.g.p.q. : c.p.
16	7·2	9·8	4·6	39	− 1·4	+14·8	85	14·9	+ 13	+ 4·2	15·5	74·7	76·40	o. : c.g.p.q. : c.p.
17	7·0	9·4	5·3	44	− 1·4	+14·0	84	14·1	+ 12	+ 3·4	14·5	74·7	76·40	o.p. : c.g.p.q. : o.p.
18	6·3	8·7	5·2	43	− 1·0	+10·8	85	10·8	+ 13	+ 0·2	11·2	74·7	76·35	c.p. : c.
19	6·0	8·0	6·8	57	− 2·7	+ 0·5	10	2·7	− 62	− 7·9	5·8	74·7	76·35	o. : c.f. : c.g. : p.c.
20	6·0	4·8	9·8	82	−12·3	+11·1	42	16·5	− 30	+ 5·9	17·1	74·7	76·35	c.p. : c.f.
21	5·7	2·1	10·7	89	−12·5	+11·5	43	17·0	− 29	+ 6·5	17·1	74·7	76·30	f. : c.f. : f.
22	6·8	3·2	11·0	92	− 6·0	+ 9·7	58	11.4	− 14	+ 0·9	11·8	74·7	76·30	f. : c.f. : c.p.
23	6·5	10·0	2·9	24	− 4·3	+ 9·8	66	10·8	− 7	+ 0·4	11·0	74·7	76·30	c.p. : o.p.q. : f.
24	6·0	7·0	8·3	69	− 3·1	+13·2	77	13·6	+ 4	+ 3·2	13·9	74·7	76·25	c.p. : c. : c.g.p. : c.f.
25	6·4	7·5	7·8	64	− 0·9	+15·6	87	15·6	+ 14	+ 5·3	16·0	74·7	76·20	c.p. : c.f. : c.q. : c.f.
26	6·5	7·3	8·0	66	− 1·6	+13·0	83	13·1	+ 10	+ 2·8	13·5	74·6	76·15	c.p.
27	6·5	4·0	8·2	68	− 2·6	+12·5	78	12·8	+ 5	+ 2·6	13·1	74·6	76·15	c. : c.f.
28	5·5	6·0	5·8	48	− 3·7	+10·5	71	11·1	− 3	+ 0·9	11·3	74·6	76·10	c.f. : b.: o.
29	6·0	8·1	7·8	64	− 5·6	+ 9·1	58	10·7	− 16	+ 0·5	10·9	74·6	76·05	c.f. : c.p. c.f. : c.p.
30	5·2	3·9	10·5	86	− 5·7	+12·2	65	13·5	− 9	+ 3·4	13·7	74·6	76·00	c.p. : c.f. : c.p.
Mean -	5·8	6·4	7·29	61·1	− 4·35	+10·42	67·3	11·29	− 4·2	+ 0·60	12·67	74·68	76·39	...
Average	4·9	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	32

The weather was characterised in this month by large regular waves of pressure accompanied by unusually large waves of vapour-tension in the opposite direction, and corresponding but smaller waves of temperature. The two principal pressure minima, on the 5th. and 18th. were accompanied by a decrease of wind velocity followed by a rapid increase ; while two positive waves of pressure, from the 13th. to the 17th. and the 23rd. to the 28th., were accompanied by positive waves of wind velocity.

The principal rainfall occurred from the 15th. to the 18th. with decreasing pressure and wind velocity but increasing temperature and vapour-tension, and from the 22nd. to the 26th. during positive waves of pressure and wind velocity and negative waves of temperature and vapour-tension.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°	°		in.	°		ins.	mins.	in.
Oct. 1	30·056	+·084	76·2	62·0	14·2	68·7	−2·0	61·2	55·4	− 5·5	63	− 8	·439	135·1	57·4	0·025	20	·240
2	30·033	+·063	76·2	64·1	12·1	68·0	−2·8	64·1	61·0	+ 0·1	78	+ 7	·537	138·5	60·1	0·240	130	·250
3	29·991	+·023	76·4	64·9	11·5	69·6	−1·3	63·4	58·6	− 2·4	68	− 3	·492	137·4	62·5	0·070	70	·240
4	29·951	−·015	76·3	63·7	12·6	68·9	−2·1	63·7	59·8	− 1·2	73	+ 2	·514	137·5	60·5	0·050	55	·260
5	29·904	−·060	77·3	59·6	17·7	68·7	−2·3	63·2	58·9	− 2·2	71	0	·498	142·4	53·8	0·000	...	·190
6	29·879	−·083	77·3	57·2	20·1	67·3	−3·8	62·4	58·3	− 2·8	73	+ 2	·487	133·3	48·3	0·025	15	·140
7	29·878	−·082	76·5	63·4	13·1	68·8	−2·4	61·2	55·3	− 5·9	62	− 9	·437	146·0	59·3	0·000	...	·145
8	29·881	−·077	78·3	57·8	20·5	68·2	−3·1	60·7	54·8	− 6·4	62	− 9	·430	142·5	52·8	0·000	...	·200
9	29·924	−·032	80·1	57·3	22·8	69·4	−2·0	62·0	56·2	− 5·1	63	− 8	·453	130·9	52·5	0·000	...	·200
10	29·968	+·014	81·6	57·5	24·1	69·9	−1·6	63·7	58·9	− 2·4	68	− 3	·498	135·5	52·7	0·000	...	·260
11	29·956	+·004	79·4	63·3	16·1	70·8	−0·8	65·8	62·0	+ 0·6	74	+ 4	·556	135·2	58·3	0·000	...	·240
12	29·933	−·017	77·9	62·5	15·4	69·8	−1·9	65·6	62·3	+ 0·8	77	+ 7	·562	137·3	56·6	0·000	...	·130
13	29·908	−·040	78·3	64·1	14·2	70·2	−1·6	65·6	62·0	+ 0·5	75	+ 5	·556	140·4	59·4	0·095	125	·140
14	29·930	−·016	79·2	62·8	16·4	70·8	−1·1	64·9	60·4	− 1·2	70	0	·526	140·6	63·2	0·010	10	·245
15	29·978	+·034	80·1	63·3	16·8	71·4	−0·6	64·7	59·6	− 2·1	66	− 4	·511	142·7	57·8	0·000	...	·260
16	29·991	+·049	77·6	64·4	13·2	70·5	−1·6	65·0	60·8	− 0·9	71	+ 1	·533	143·8	61·8	0·075	55	·285
17	29·976	+·036	78·3	66·0	12·3	71·0	−1·2	66·0	62·0	+ 0·2	73	+ 3	·556	139·7	62·8	0·250	145	·230
18	29·935	−·003	77·8	65·0	12·8	70·8	−1·5	65·4	61·3	− 0·5	72	+ 2	·543	136·1	62·6	0·150	100	·230
19	29·904	−·032	76·4	64·2	12·2	69·6	−2·8	65·3	62·0	+ 0·1	77	+ 7	·556	137·3	59·8	0·020	30	·240
20	29·929	−·005	79·9	64·8	15·1	71·4	−1·1	65·5	61·0	− 1·0	70	0	·537	140·6	60·7	0·000	...	·200
21	29·946	+·014	80·1	63·7	16·4	71·7	−0·9	66·5	62·6	+ 0·5	73	+ 3	·568	144·1	58·6	0·000	...	·260
22	29·907	−·023	80·5	67·7	12·8	72·7	0·0	68·3	65·0	+ 2·9	77	+ 7	·617	143·2	64·4	0·020	25	·215
23	29·858	−·070	82·0	68·6	13·4	74·3	+1·5	68·5	64·2	+ 2·0	71	+ 1	·601	145·8	66·3	0·000	...	·225
24	29·892	−·034	81·5	65·3	16·2	73·6	+1·7	67·2	62·5	+ 0·2	68	− 2	·566	142·8	66·5	0·000	...	·270
25	29·948	+·024	81·6	60·8	20·8	71·0	−2·0	65·1	60·6	− 1·8	70	+ 1	·529	147·2	55·3	0·000	...	·270
26	29·953	+·031	79·0	66·3	12·7	70·0	−3·2	65·6	62·0	− 0·4	76	+ 7	·556	142·2	62·5	0·145	190	·210
27	29·915	−·004	79·9	65·3	14·6	71·3	−2·0	63·3	57·2	− 5·3	61	− 8	·469	140·0	61·8	0·000	...	·205
28	29·913	−·004	78·1	63·5	14·6	71·0	−2·4	62·8	56·6	− 6·0	60	− 9	·459	143·0	57·8	0·000	...	·300
29	29·962	+·047	79·9	63·0	16·9	69·7	−3·8	63·7	59·1	− 3·6	69	0	·501	144·1	57·7	0·030	55	·260
30	29·959	+·046	79·0	64·6	14·4	69·5	−4·1	64·0	59·8	− 2·9	71	+ 2	·514	144·8	61·8	0·050	115	·250
31	29·965	+·054	77·3	63·1	14·2	69·3	−4·4	63·0	58·1	− 4·7	67	− 2	·483	146·0	57·8	0·000	...	·210
Mean	29·939	−·003	78·7	63·2	15·5	70·3	−1·8	64·4	59·9	− 1·9	70·0	−0·1	·519	140·5	59·2	Sum 1·255	Sum 1140	·226
Average	29·942	...	81·1	64·7	16·4	72·1	...	66·2	61·8	...	70·1	...	·552	143·5	59·3	1·239	845	·229
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



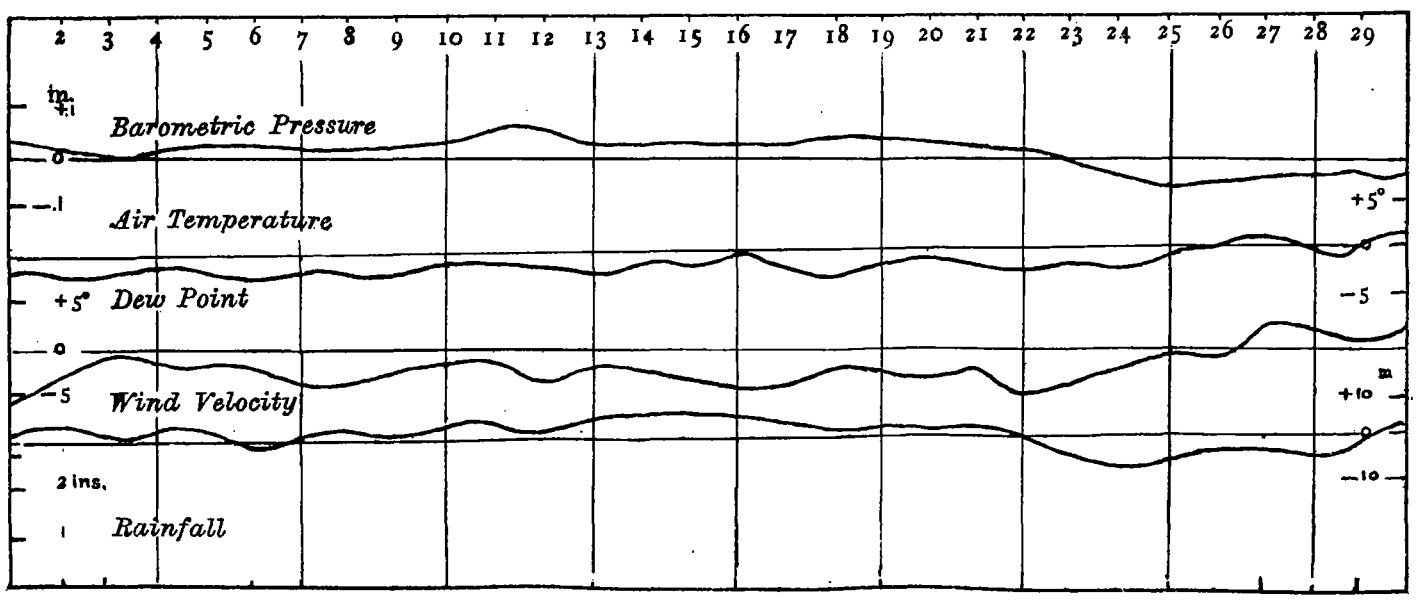
Month and Day 1903.	Ozone (Scale 0—10).	Mean Amount of Cloud (Scale 0—10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above Average. Velocity.	Wind. Observed Velocity.	Temperature of the Soil. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Oct. 1	5·1	3·6	9·5	78	− 7·1	+13·2	62	15·0	− 13	+ 5·0	15·1	74·6	76·00	c.p. : c.f.q. : c.f.
2	5·5	8·4	8·2	67	− 4·1	+14·2	74	14·8	− 1	+ 4·8	15·1	74·6	76·00	b. : c.r. : c.p.q. : c.p.
3	5·2	5·2	11·0	89	− 3·1	+14·9	78	15·2	+ 3	+ 5·3	15·4	74·6	76·00	o.p. : c.f.q. : c.p.
4	5·0	8·3	8·4	68	− 0·1	+10·0	89	10·0	+ 14	+ 0·1	10·4	74·6	76·00	c.p. : c.f. : c.p.
5	4·4	6·4	4·6	37	− 1·9	+ 2·1	48	2·9	− 28	− 6·9	6·3	74·7	76·00	c.f. : c.g. : c.
6	5·9	7·2	3·2	26	− 5·1	− 1·0	349	5·2	+273	− 4·6	9·1	74·7	76·00	c.f. : o.p. : c.
7	6·3	6·6	7·4	60	− 5·7	+ 9·1	58	10·8	− 18	+ 1·1	10·9	74·7	76·00	c.f. : c.f.q. : c.
8	6·0	5·3	8·0	65	+ 0·7	+ 4·7	98	4·8	+ 22	− 4·9	6·5	74·8	75·95	c. : c.f. : o.
9	5·4	0·4	11·5	93	+ 0·9	− 1·9	245	2·1	+169	− 7·5	6·6	74·8	75·90	o. : c.f. : b.
10	5·0	1·0	10·3	83	+ 1·6	+ 3·0	118	3·4	+ 41	− 6·2	8·0	74·8	75·90	b. : c.f.
11	5·0	5·1	6·0	48	− 4·8	+ 5·3	48	7·1	− 29	− 2·5	10·1	74·8	75·90	b. : c.f.
12	5·0	7·7	5·4	43	− 4·1	+ 9·8	67	10·6	− 10	+ 1·1	10·7	74·8	75·85	c.f. : c.
13	5·0	7·1	6·1	49	− 0·7	+11·9	87	11·9	+ 10	+ 2·4	12·4	74·8	75·80	c.f. : c. : c.f.q. : c.
14	6·9	3·6	10·9	87	− 3·6	+13·1	75	13·6	− 2	+ 4·2	13·8	74·8	75·80	c.f. : c.f.q. : b.
15	6·0	4·5	10·1	81	− 4·5	+12·3	70	13·1	− 8	+ 3·7	13·2	74·8	75·80	c.f.
16	5·0	7·1	7·1	57	− 4·0	+14·2	74	14·8	− 4	+ 5·4	15·0	74·8	75·80	c.p. : c.f. : c.q.f. : c.p.
17	6·0	7·3	9·0	72	− 3·4	+16·7	78	17·0	0	+ 7·7	17·2	74·9	75·80	c.p. : c.q.f. : c.f. : p. : c.f.
18	5·0	7·5	8·8	70	− 2·3	+16·5	82	16·6	+ 4	+ 7·3	16·8	75·0	75·80	c.p. : c.f. : b.
19	6·0	7·9	5·2	42	− 0·4	+12·8	88	12·8	+ 10	+ 3·5	13·1	75·0	75·75	b. : c.p. : o. : o.p.
20	5·5	3·0	11·7	93	− 0·5	+11·4	88	11·4	+ 9	+ 2·1	12·0	75·1	75·75	c. : c.f. : b.
21	5·0	6·1	9·2	73	− 1·7	+10·8	81	11·0	+ 2	+ 1·8	11·3	75·1	75·70	b. : c.f.
22	5·0	5·9	9·1	72	− 0·4	+12·0	88	12·0	+ 9	+ 2·8	12·3	75·1	75·65	p. : c.f. : c.p. : c.
23	5·0	3·7	11·2	89	+ 0·3	+10·7	92	10·7	+ 13	+ 1·5	11·2	75·2	75·60	c.f.
24	5·5	5·6	8·3	66	− 1·4	+11·0	83	11·1	+ 4	+ 1·9	11·3	75·2	75·60	c. : c.f. : b.
25	5·0	6·6	7·4	58	− 4·1	+ 8·9	65	9·8	− 15	+ 0·7	10·0	75·2	75·60	b. : c.f. : c.
26	5·5	6·7	7·0	55	− 6·9	+11·0	58	13·0	− 22	+ 3·9	13·1	75·2	75·55	b. : c.p.
27	6·0	4·4	10·9	86	− 7·4	+13·0	60	15·0	− 20	+ 5·9	15·0	75·3	75·55	c. : c.f. : c.f.q. : c.f.
28	3·0	6·5	10·8	85	− 7·0	+13·2	62	14·9	− 18	+ 5·8	15·1	75·3	75·55	c.f. : b.
29	2·5	7·0	8·8	69	− 6·3	+12·6	63	14·0	− 17	+ 4·9	14·4	75·3	75·50	c.f. : c.q. : c.p.
30	3·0	6·5	7·9	62	− 5·4	+10·4	63	11·7	− 17	+ 2·7	12·0	75·3	75·50	c.p. : c.f. : c.p.
31	2·5	9·3	4·7	37	− 4·3	+11·0	69	11·8	− 12	+ 2·8	12·2	75·4	75·45	c.p. : o. : c. : o.
Mean	5·1	5·9	8·31	66·6	− 3·12	+10·22	73·0	10·69	− 4·7	+ 1·28	12·12	74·95	75·78	...
Average	4·2	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	32

A double wave of pressure from September 28 to October 10 (from positive to negative) was accompanied by a corresponding wave of wind velocity, on the negative portion of which was superposed a feeble positive wave, culminating on the 7th.; the curves of temperature and vapour-tension showed two successive negative waves.

A general increase of pressure from the 23rd. to the 31st. was accompanied by a general decrease of temperature and vapour-tension and a positive wave of wind velocity. A superposed positive wave of pressure, culminating on the 26th., was accompanied by a negative wave of temperature and a positive wave of vapour-tension.

The principal rainfall occurred from the 1st. to the 4th., and from the 16th. to the 18th., the pressure decreasing and the wind velocity being above normal in each case.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
Nov. 1	29·955	+·047	78·7	66·3	12·4	71·9	−1·9	63·6	57·3	−5·6	60	− 9	·470	134·5	61·4	0·000	...	·200
2	29·934	+·028	80·2	65·9	14·3	71·8	−2·1	65·3	60·4	−2·6	68	− 1	·526	145·9	61·9	0·045	55	·245
3	29·904	·000	77·1	65·5	11·6	71·1	−2·8	66·3	62·7	−0·4	75	+ 6	·570	124·5	60·2	0·020	25	·240
4	29·910	+·008	80·2	65·3	14·9	72·3	−1·7	66·0	61·3	−1·9	68	0	·543	140·8	63·7	0·005	10	·185
5	29·937	+·037	81·4	63·5	17·9	72·1	−2·0	65·4	60·4	−2·9	67	− 1	·526	143·0	58·5	0·000	...	·280
6	29·935	+·038	81·1	62·8	18·3	70·8	−3·4	64·5	59·7	−3·7	68	0	·512	147·0	57·7	0·015	15	·195
7	29·923	+·028	82·1	60·7	21·4	71·9	−2·4	64·1	58·2	−5·3	62	− 6	·485	147·1	55·4	0·000	...	·250
8	29·918	+·025	81·2	62·8	18·4	71·5	−2·9	64·1	58·5	−5·1	63	− 5	·491	139·5	56·9	0·000	...	·320
9	29·919	+·028	81·0	63·3	17·7	72·0	−2·5	64·9	59·5	−4·2	65	− 3	·509	143·9	58·4	0·000	...	·300
10	29·928	+·039	82·8	65·2	17·6	73·5	−1·1	66·0	60·5	−3·3	64	− 4	·528	144·8	60·7	0·000	...	·300
11	29·956	+·069	81·2	67·7	13·5	73·9	−0·8	66·8	61·6	−2·2	66	− 2	·548	143·7	64·5	0·000	...	·320
12	29·962	+·077	81·1	64·8	16·3	73·0	−1·8	64·8	58·7	−5·2	61	− 7	·494	143·2	61·1	0·000	...	·320
13	29·920	+·037	80·7	65·5	15·2	72·5	−2·4	65·8	60·8	−3·2	67	− 1	·533	151·0	60·5	0·045	35	·320
14	29·911	+·030	82·4	66·1	16·3	73·8	−1·2	66·3	60·8	−3·3	64	− 4	·533	143·1	61·4	0·000	...	·305
15	29·919	+·040	81·4	68·3	13·1	74·0	−1·1	65·9	60·0	−4·2	62	− 6	·518	145·7	65·8	0·000	...	·320
16	29·904	+·028	82·5	68·7	13·8	74·7	−0·5	65·9	59·6	−4·7	59	− 9	·511	144·4	64·0	0·000	...	·340
17	29·902	+·028	81·0	64·1	16·9	72·7	−2·6	64·8	58·9	−5·5	62	− 6	·498	144·4	58·0	0·000	...	·340
18	29·911	+·039	82·2	64·1	18·1	72·7	−2·7	66·3	61·5	−3·0	68	0	·546	149·9	59·4	0·000	...	·300
19	29·916	+·046	84·4	64·6	19·8	74·0	−1·5	66·9	61·7	−2·9	66	− 2	·550	149·9	60·2	0·000	...	·280
20	29·909	+·041	82·9	65·7	17·2	74·0	−1·6	66·2	60·5	−4·2	63	− 5	·528	142·0	62·2	0·000	...	·320
21	29·894	+·029	83·1	64·8	18·3	73·6	−2·1	66·4	61·1	−3·7	65	− 3	·539	140·0	59·4	0·000	...	·330
22	29·873	+·010	82·7	60·3	22·4	72·5	−3·3	64·3	58·2	−6·7	61	− 8	·485	146·8	54·6	0·000	...	·320
23	29·869	+·008	86·7	60·1	26·6	73·4	−2·5	65·5	59·7	−5·3	62	− 7	·512	149·7	54·5	0·000	...	·340
24	29·828	−·031	82·1	63·3	18·8	73·6	−2·4	67·6	63·0	−2·1	70	+ 1	·576	147·8	58·6	0·000	...	·280
25	29·783	−·074	87·1	64·2	22·9	75·7	−0·4	69·2	64·6	−0·6	68	− 1	·609	152·3	59·5	0·000	...	·200
26	29·783	−·071	87·9	62·2	25·7	76·0	−0·2	69·2	64·3	−1·1	67	− 2	·603	146·7	56·7	0·000	...	·300
27	29·809	−·043	88·4	69·8	18·6	78·1	+1·8	72·5	68·6	+3·1	73	+ 4	·699	150·7	65·7	0·405	100	·265
28	29·809	−·041	85·2	70·3	14·9	77·1	+0·7	72·5	69·3	+3·7	77	+ 8	·716	147·8	70·0	0·150	115	·320
29	29·817	−·031	84·4	66·1	18·3	74·5	−2·1	70·0	66·8	+1·1	77	+ 8	·657	148·6	61·4	0·320	80	·240
30	29·812	−·034	88·4	70·4	18·0	77·8	+1·1	71·6	67·3	+1·5	70	+ 1	·668	146·4	67·4	0·000	...	·130
Mean	29·892	+·015	82·7	65·1	17·6	73·6	−1·6	66·6	61·5	−2·8	66·3	−2·1	·549	144·8	60·7	Sum 1·005	Sum 435	·280
Average	29·877	...	84·2	67·2	17·0	75·2	...	68·8	64·3	...	68·4	...	·603	146·8	61·9	1·782	846	·270
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

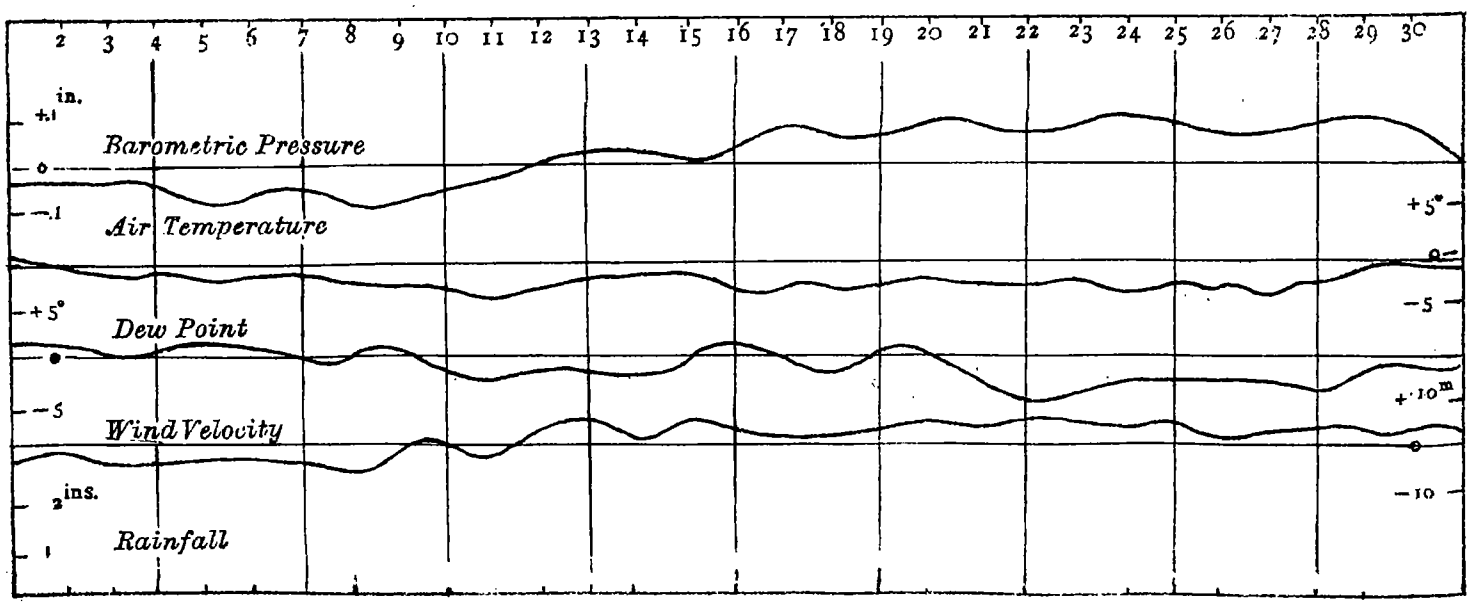


Month and Day. 1903.	Ozone (Scale 0—10)	Mean Amount of Cloud (Scale 0—10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind: Components. North.	Wind: Components. East.	Wind: Resultants. Direction.	Wind: Resultants. Velocity.	Wind: Excess above Average. Direction.	Wind: Excess above Average. Velocity.	Wind: Observed Velocity.	Temperature of the Soil 5 Feet.	Temperature of the Soil 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.		m.p.h.	m.p.h.	°	°	
Nov. 1	4·0	7·6	6·4	50	— 2·2	+11·1	79	11·4	— 2	+ 2·4	11·8	75·4	75·45	o. : c.g. : c.
2	4·5	6·2	6·3	49	— 2·9	+12·9	77	13·2	— 4	+ 4·2	13·7	75·4	75·40	o. : c.p.: c. : c.f. : : o.
3	5·0	9·0	1·8	14	— 1·7	+10·2	81	10·4	0	+ 1·4	10·9	75·4	75·40	o. : c.f.: o.p. : o. : c.
4	4·0	4·5	10·4	81	+ 0·4	+11·8	92	11·8	+ 11	+ 2·8	12·0	75·5	75·45	c.f. : b.
5	5·0	3·4	11·5	89	+ 1·2	+ 9·2	97	9·3	+ 16	+ 0·4	9·5	75·6	75·50	b. : c.f. : b.
6	4·0	4·9	6·7	52	— 1·8	+ 7·6	77	7·8	— 5	— 1·1	8·1	75·6	75·50	b. : c.f. : b.
7	5·0	2·0	12·0	93	— 2·5	+ 9·4	75	9·8	— 7	+ 0·9	10·1	75·5	75·45	b.
8	4·5	3·6	12·0	93	— 0·7	+ 9·1	86	9·2	+ 4	+ 0·3	9·5	75·4	75·45	b. : c.f.
9	5·0	4·3	10·8	84	— 1·5	+10·3	82	10·4	0	+ 1·5	10·9	75·6	75·50	c.f.
10	3·5	3·0	10·9	84	— 3·7	+10·7	71	11·3	— 11	+ 2·4	11·4	75·6	75·55	b. : c.f.
11	4·0	3·9	11·4	88	— 2·1	+14·4	82	14·5	0	+ 5·6	15·1	75·7	75·55	b. : c.f.
12	4·0	3·2	11·9	91	— 4·0	+ 9·6	68	10·4	— 15	+ 1·6	10·6	75·7	75·55	b. : c.f.
13	3·5	6·4	8·8	67	— 1·5	+11·8	83	11·9	0	+ 3·1	12·4	75·7	75·55	b. : c.p. : c.f.
14	4·5	3·6	10·1	78	— 4·6	+13·0	71	13·8	— 12	+ 5·0	14·3	75·7	75·55	c.f.
15	3·0	6·8	10·3	79	— 4·2	+13·9	73	14·5	— 10	+ 5·7	14·7	75·8	75·60	c.f.
16	3·0	4·9	12·0	92	— 4·6	+13·3	71	14·1	— 12	+ 5·3	14·6	75·9	75·60	c.f. : b.
17	3·5	3·7	11·0	84	— 2·4	+11·7	78	12·0	— 6	+ 3·2	12·1	76·0	75·60	b. : c.f. : b.
18	4·0	5·9	9·1	70	— 0·9	+11·4	86	11·5	+ 2	+ 2·7	11·9	76·0	75·60	c.f. : b.
19	2·5	5·3	9·6	73	+ 0·7	+ 9·6	94	9·6	+ 10	+ 0·8	10·0	76·1	75·60	b. : c.f.
20	5·0	3·1	11·6	89	— 1·1	+10·1	84	10·1	0	+ 1·4	10·6	76·1	75·60	c.f. : : b.
21	5·0	4·4	11·6	89	— 1·5	+10·2	82	10·3	— 2	+ 1·6	10·8	76·2	75·60	b. : c.f. : b.
22	4·0	2·7	11·6	89	— 1·8	+ 9·2	79	9·4	— 5	+ 0·7	9·7	76·2	75·60	b. : c.f. : b.
23	5·0	4·4	9·7	74	+ 0·4	+ 4·0	96	4·0	+ 11	— 4·7	6·4	76·3	75·60	b. : c.f.
24	3·0	6·8	6·0	46	— 0·9	— 2·1	293	2·3	+208	— 6·4	6·1	76·4	75·65	b. : c.f, : c.g. :c.f.: b.
25	3·5	4·2	11·7	89	+ 3·2	— 2·1	213	3·9	+128	— 4·8	7·3	76·4	75·65	b. : c.f.
26	4·0	4·9	11·5	88	+ 4·0	+ 5·1	128	6·5	+ 43	— 2·2	7·6	76·5	75·65	b. : c.f. : b.
27	0·0	7·6	9·5	72	+ 6·5	— 0·2	182	6·5	+ 96	— 2·2	9·3	76·6	75·65	c.p. : c.t. : o.r.
28	0·0	9·1	6·8	52	+ 1·3	— 2·7	244	3·0	+158	— 5·7	5·7	76·7	75·65	o.p. : o. : c. : c.f.
29	0·5	4·7	5·2	40	— 1·1	+ 3·7	73	3·9	— 13	— 4·8	5·5	76·7	75·60	b. : c.f. : c.p.g. : c.f.
30	3·0	4·1	11·5	87	+ 3·1	+ 7·0	114	7·6	+ 28	— 1·1	8·8	76·8	75·65	c.f.
Mean -	3·7	4·9	9·66	74·3	— 0·90	+ 8·44	83·9	8·49	+0·5	— 0·32	10·38	75·95	75·56	...
Average	3·3	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	32

Long positive waves of pressure and wind velocity from the 3rd. to the 22nd. were accompanied by negative waves of temperature and vapour-tension ; negative waves of pressure and wind velocity from the 22nd. to the 27th. were accompanied by an increase of temperature and vapour-tension.

The principal rainfall occurred from the 27th. to the 29th. when the pressure and wind velocity were below normal.

Month and Day. 1903.	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 Evaporation.
	ins.	in.	°	°	°	°	°	°	°	°	°		in.	°		ins.	mins.	in.
Dec. 1	29·800	−·043	87·7	69·6	18·1	78·0	+1·2	72·2	68·1	+ 2·2	72	+ 2	·687	149·1	65·7	0·000	...	·260
2	29·800	−·041	88·2	67·8	20·4	77·2	+0·2	71·6	67·7	+ 1·7	73	+ 3	·678	153·8	63·8	0·020	5	·240
3	29·804	−·035	88·0	66·4	21·6	76·5	−0·6	70·6	66·4	+ 0·2	71	+ 1	·648	148·7	61·9	0·170	75	·240
4	29·761	−·076	86·0	66·7	19·3	76·4	−0·8	70·8	66·8	+ 0·5	72	+ 2	·657	141·9	62·6	0·000	...	·260
5	29·707	−·128	84·5	67·5	17·0	75·1	−2·2	70·7	67·5	+ 1·1	77	+ 7	·673	146·5	63·6	0·280	45	·220
6	29·705	−·128	82·4	69·5	12·9	75·2	−2·2	71·0	68·0	+ 1·5	79	+ 9	·684	141·3	67·4	0·225	90	·145
7	29·715	−·116	87·7	65·4	22·3	76·5	−1·0	70·5	66·2	− 0·4	71	+ 1	·644	147·8	60·9	0·000	...	·110
8	29·661	−·168	85·3	66·4	18·9	75·0	−2·6	70·9	67·9	+ 1·2	79	+ 9	·682	147·1	61·7	0·410	95	·240
9	29·704	−·123	83·5	69·9	13·6	75·8	−1·8	70·1	66·0	− 0·8	72	+ 1	·639	149·0	68·1	0·005	5	·235
10	29·763	−·062	83·5	67·7	15·8	74·8	−2·9	68·8	64·4	− 2·6	70	− 1	·605	143·0	64·4	0·015	45	·240
11	29·798	−·024	82·5	65·4	17·1	73·7	−4·1	67·7	63·3	− 3·8	70	− 1	·582	143·5	62·0	0·000	...	·185
12	29·817	−·003	83·5	68·3	15·2	75·4	−2·4	69·0	64·4	− 2·8	69	− 2	·605	144·3	61·8	0·040	30	·170
13	29·834	+·016	82·5	69·7	12·8	75·9	−2·0	70·0	65·8	− 1·5	71	0	·635	146·5	67·4	0·290	105	·330
14	29·837	+·021	83·5	69·1	14·4	75·9	−2·1	69·8	65·6	− 1·8	70	− 1	·630	142·8	65·7	0·050	20	·290
15	29·815	+·001	85·7	67·3	18·4	76·8	−1·2	70·3	65·7	− 1·8	69	− 2	·633	146·5	63·3	0·000	...	·270
16	29·833	+·022	80·5	70·9	9·6	74·3	−3·8	71·5	69·4	+ 1·8	85	+14	·718	138·9	68·6	0·630	205	·270
17	29·875	+·066	79·7	71·3	8·4	75·3	−2·8	70·0	66·2	− 1·6	73	+ 2	·644	135·5	69·4	0·000	...	·190
18	29·858	+·051	82·5	70·3	12·2	75·6	−2·6	69·8	65·6	− 2·3	71	0	·630	143·2	67·5	0·000	...	·190
19	29·845	+·040	80·7	70·4	10·3	75·0	−3·2	71·5	68·9	+ 0·9	82	+11	·706	143·9	67·3	0·295	135	·195
20	29·880	+·077	83·2	71·8	11·4	76·6	−1·7	72·0	68·8	+ 0·7	77	+ 6	·704	143·2	70·2	0·185	65	·185
21	29·907	+·107	81·6	71·0	10·6	75·4	−2·9	68·8	64·1	− 4·1	68	− 3	·598	141·4	67·8	0·015	15	·275
22	29·894	+·096	82·5	68·3	14·2	75·4	−3·0	68·2	63·1	− 5·2	65	− 6	·578	140·0	63·6	0·010	10	·260
23	29·888	+·092	82·6	71·3	11·3	75·7	−2·7	69·0	64·2	− 4·2	67	− 4	·601	142·8	68·2	0·000	...	·280
24	29·901	+·107	81·5	70·3	11·2	74·1	−4·3	68·7	64·7	− 3·8	72	+ 1	·611	137·4	66·9	0·075	40	·265
25	29·907	+·115	81·3	70·7	10·6	75·3	−3·2	69·5	65·3	− 3·3	71	0	·624	137·4	68·2	0·010	20	·190
26	29·872	+·082	83·5	69·2	14·3	74·7	−3·8	69·4	65·5	− 3·2	73	+ 1	·628	150·2	64·6	0·030	40	·225
27	29·861	+·073	84·3	70·8	13·5	76·0	−2·5	69·8	65·4	− 3·4	70	− 2	·626	143·3	68·4	0·000	...	·215
28	29·868	+·082	84·5	67·5	17·0	76·5	−2·1	69·8	65·1	− 3·8	68	− 4	·620	145·7	63·4	0·030	15	·300
29	29·890	+·106	85·3	72·2	13·1	77·6	−1·0	71·9	67·9	− 1·1	72	0	·682	143·9	69·5	0·025	20	·305
30	29·878	+·096	84·2	72·6	11·6	77·8	−0·8	71·9	67·8	− 1·3	72	0	·680	145·7	70·4	0·000	...	·310
31	29·866	+·086	84·4	71·8	12·6	77·5	−1·1	71·7	67·6	− 1·6	72	0	·675	149·3	68·4	0·010	20	·280
Mean -	29·824	+·013	83·8	69·3	14·5	75·8	−2·2	70·2	66·2	− 1·4	72·4	+1·5	·645	144·3	65·8	Sum 2·820	Sum 1100	·238
Average	29·811	...	85·8	71·2	14·6	78·0	...	72·1	67·6	...	70·9	...	·676	147·0	66·5	4·680	1452	·257
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1903.	Ozone (Scale 0—10).	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. 5 Feet.	Temperature of the Soil. 10 Feet.	Weather.
			hrs.		m.p.h.	m.p.h.	°	m.p.h.	°	m.p.h.	m.p.h.	°	°	
Dec. 1	0·5	5·1	10·9	83	+ 6·2	+ 0·6	175	6·2	+ 89	− 2·4	7·8	77·0	75·65	b. : c.f.
2	0·0	8·4	6·4	48	+ 4·7	+ 1·3	166	4·9	+ 79	− 3·7	6·1	77·0	75·70	b. : c.f. : c.p. : c. : c.f.
3	1·0	5·5	10·3	78	+ 3·3	+ 2·4	144	4·1	+ 57	− 4·5	6·8	77·1	75·70	b. : c.f. : c.
4	0·5	6·7	7·6	58	− 0·8	+ 4·0	79	4·1	− 8	− 4·5	6·4	77·2	75·70	b. : c.f. : c.
5	0·5	6·8	5·0	38	− 1·5	+ 1·4	43	2·1	− 44	− 6·5	5·3	77·2	75·70	b. : c.f. : c.r. : c.
6	0·0	6·6	5·1	39	− 2·9	+ 1·8	32	3·4	− 56	− 5·2	5·4	77·2	75·70	c.p. : c.r. : b.
7	0·5	4·3	10·5	80	− 1·1	+ 0·9	39	1·5	− 49	− 7·1	7·4	77·2	75·70	b. : c.f. : c.f.l.
8	0·5	6·3	5·6	42	− 3·4	+ 2·4	35	4·2	− 53	− 4·4	6·8	77·2	75·70	b. : c.f. : c. : c.r.
9	2·0	7·0	8·4	63	− 3·8	+ 9·3	68	10·0	− 20	+ 1·4	10·4	77·3	75·75	c.f. : : b.
10	0·5	5·4	6·9	52	− 3·0	+ 7·5	68	8·1	− 21	− 0·5	8·8	77·4	75·75	b. : c.f.
11	0·5	5·9	7·1	53	− 4·1	+ 3·7	42	5·5	− 47	− 3·0	6·8	77·4	75·80	b. : c.f. : c. : b.
12	1·0	5·6	11·3	85	− 3·7	+ 11·8	73	12·3	− 16	+ 3·8	12·5	77·5	75·85	c.p. : c.f.
13	0·0	7·3	9·2	69	+ 1·4	+ 13·2	96	13·3	+ 6	+ 4·8	13·6	77·5	75·85	c.p. : c. : c.f.
14	1·0	5·2	10·4	78	+ 1·1	+ 10·9	96	11·0	+ 6	+ 2·5	11·2	77·6	75·85	c.p. : c.f.
15	2·0	2·9	10·9	82	− 2·0	+ 8·4	77	8·6	− 13	+ 0·1	9·1	77·6	75·85	b. : c.f. : c.
16	0·5	8·5	3·9	29	− 3·0	+ 15·0	79	15·3	− 12	+ 6·8	15·8	77·6	75·85	c. : c.p.q. : o.p. : c.p.
17	2·5	9·3	2·6	20	− 0·2	+ 14·9	89	14·9	− 2	+ 6·4	15·1	77·6	75·85	c.p. : c.f.
18	1·0	7·2	6·4	48	− 1·2	+ 13·1	85	13·2	− 6	+ 4·7	13·7	77·6	75·85	c.f. : c. : c.f.
19	0·0	8·5	6·4	48	+ 1·9	+ 12·3	99	12·4	+ 8	+ 3·9	12·7	77·7	75·85	b. : c.p. : c.
20	0·5	6·6	10·4	78	+ 0·9	+ 13·1	94	13·1	+ 2	+ 4·6	13·3	77·7	76·00	c.p. : c.f.
21	1·0	5·5	9·3	70	− 2·4	+ 13·3	80	13·5	− 12	+ 5·0	13·9	77·7	75·85	c.p. : c.f.
22	0·5	3·8	11·6	87	− 3·8	+ 14·7	75	15·2	− 17	+ 6·7	15·4	77·8	75·85	c.f. : c.f.q. : c.f. : c.p.
23	0·0	6·6	9·5	71	− 3·5	+ 17·6	79	17·9	− 14	+ 9·4	18·3	77·8	75·90	c.f.
24	0·5	8·2	4·2	32	− 3·5	+ 14·1	76	14·5	− 17	+ 6·0	14·8	77·8	75·90	c.p. : c.q. : o.p.q. : c.p.
25	0·0	7·4	9·4	71	− 2·5	+ 14·0	80	14·2	− 13	+ 5·7	14·6	77·8	75·90	c.p. : c.f. : c.q. : c.
26	0·5	6·1	8·3	62	− 3·3	+ 10·0	72	10·6	− 21	+ 2·1	10·8	77·9	75·90	c.p. : c.f. : c.p. : c.
27	1·0	4·9	9·3	70	− 1·0	+ 11·1	85	11·1	− 7	+ 2·6	11·4	77·8	75·90	c. : c.f.
28	1·0	3·1	11·9	90	− 1·5	+ 11·2	82	11·3	− 10	+ 2·8	11·4	77·9	75·95	b. : c.f. : c.p.
29	0·5	3·9	11·5	86	− 3·2	+ 11·6	75	12·0	− 17	+ 3·5	12·4	77·9	75·95	c.p. : c.f.
30	1·0	5·4	11·5	86	− 1·8	+ 13·7	83	13·8	− 8	+ 5·3	14·0	78·0	76·00	c.f.
31	0·5	6·5	11·1	83	− 1·6	+ 13·0	83	13·1	− 8	+ 4·6	13·4	78·1	76·00	c.f. : c.d.
Mean	0·7	6·1	8·48	63·9	− 1·27	+ 9·43	82·3	9·52	− 8·6	+ 0·99	11·14	77·55	75·83	...
Average	3·2	6·1	8·27	62·3	+ 0·13	+ 8·53	90·9	8·53	...	...	10·79	78·55	76·60	...
Column	19	20	21	22	23	24	25	26	27	28	29	30	31	32

The weather during the month was characterised by prolonged double waves of pressure and wind velocity (from negative to positive); the temperature curve showed a long negative wave from the 2nd. to the 31st, and the vapour-tension from the 9th. to the 31st. with superposed positive waves culminating on the 16th. and 19th. the pressure increasing in each case.

The rainfall was not associated with any particular type of weather

MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS for the YEAR 1903.

Month 1903.	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.	Degree of Humidity (Saturation =100).	Elastic Force of Vapour.	Rainfall. Amount recorded by the Beckley Pluviograph.	Duration.	Amount collected in the Glaisher Rain Gauge.	Excess of Beckley over Glaisher.
	ins.	°	°	°	°	°	°	°	°	°		in.	ins.	mins.	ins.	in.
January	29·698	89·0	66·6	22·4	86·0	73·4	12·6	78·9	75·0	72·3	80·3	·794	9·37	3600	9·26	+0·11
February	29·720	87·8	68·8	19·0	85·8	73·1	12·7	78·9	75·3	72·9	81·9	·810	6·19	1705	6·00	+0·19
March	29·708	87·6	70·8	16·8	84·7	74·5	10·2	78·8	75·5	73·3	83·0	·820	7·61	3685	7·49	+0·12
April	29·801	84·6	62·8	21·8	81·6	70·4	11·2	75·5	72·2	69·7	82·3	·730	6·51	2525	6·18	+0·33
May	29·891	81·8	58·5	23·3	80·1	65·7	14·4	72·2	67·5	64·0	75·4	·598	1·00	705	0·94	+0·06
June	29·924	79·6	56·5	23·1	77·5	63·7	13·8	70·0	65·4	61·8	75·4	·553	2·10	1415	1·98	+0·12
July	29·991	79·4	55·1	24·3	76·4	61·5	14·9	68·3	62·9	58·7	71·8	·496	1·59	855	1·52	+0·07
August	29·997	78·7	56·3	22·4	75·9	62·3	13·6	68·5	63·0	58·8	71·5	·498	1·88	1330	1·77	+0·11
September ...	29·994	80·5	55·4	25·1	76·5	62·0	14·5	68·4	62·7	58·2	70·1	·489	1·72	1040	1·66	+0·06
October	29·939	82·0	57·2	24·8	78·7	63·2	15·5	70·3	64·4	59·9	70·0	·519	1·25	1140	1·20	+0·05
November ...	29·892	88·4	60·1	28·3	82·7	65·1	17·6	73·6	66·6	61·5	66·3	·549	1·01	435	0·96	+0·05
December ...	29·824	88·2	65·4	22·8	83·8	69·3	14·5	75·8	70·2	66·2	72·4	·645	2·82	1100	2·74	+0·08
														hours.		
Year	29·865	...	...	33·9	80·8	67·0	13·8	73·3	68·4	64·8	75·0	·625	43·05	325·6	41·70	+1·35
	ins.	°			°		°		°	°		in.	ins.			
Maximum ...	30·166 July 26	89·0 Jan. 10	...	...	86·0 Jan.	...	26·6 Nov. 23	...	82·3 Jan. 31	78·9 Jan. 31 Mar. 3	97·6 Sep. 18	·987 Jan. 31 Mar. 3	4·385 during 24 hours ending January 14d. 23h.			
	ins.		°			°	°		°	°		in.				
Minimum ...	29·389 Feb. 14	...	55·1 July 13	...	...	61·5 July	4·3 Jan. 14	...	53·4 Sep. 9	48·7 Sep. 9	38·1 Sep. 9	·344 Sep. 9	...			
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Month 1903.	Mean Daily Amount of Evaporation.	Mean Daily Amount of Ozone (0—10).	Mean Amount of Cloud. Upper (0-10).	Lowest. (0-10).	Total (0-10).	Daily Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Resultant. Direction.	Velocity.	Recorded Velocity.	Number of Days of Clear Sky.	Overcast Sky.	Rain.	Thunderstorms.	Lightning only.	Temperature of the soil. At a Depth of 5 Feet.	At a Depth of 10 Feet.
	in.					hrs.		°	m.p.h.	m.p.h.						°	°
January	·216	3·4	1·3	5·8	7·1	6·68	50·8	77·0	4·61	8·43	0	18	20	6	2	80·31	77·08
February	·179	3·5	0·7	5·9	6·6	6·71	52·8	83·7	4·48	7·52	0	9	15	6	2	81·16	77·48
March	·157	3·7	1·2	5·5	6·7	7·02	57·6	94·7	8·29	10·20	0	13	23	4	8	81·81	77·93
April	·164	4·0	0·5	5·4	5·9	7·43	65·9	69·2	9·22	10·16	2	8	20	5	2	81·48	78·25
May	·145	3·8	0·8	3·7	4·5	8·59	77·1	67·0	8·63	9·20	12	5	11	0	0	80·32	78·32
June	·131	4·2	0·7	4·4	5·1	7·62	69·9	68·4	9·38	10·30	5	7	18	0	0	78·39	78·32
July	·146	4·9	0·3	5·0	5·3	7·50	68·2	66·7	9·94	10·67	9	9	15	0	0	76·65	77·72
August	·155	5·5	0·1	6·4	6·5	7·10	62·4	70·8	11·71	12·54	2	15	20	0	0	75·20	77·02
September ...	·186	5·8	0·3	6·1	6·4	7·29	61·1	67·3	11·29	12·67	3	12	22	0	0	74·68	76·39
October	·226	5·1	0·1	5·8	5·9	8·31	66·6	73·0	10·69	12·12	2	10	15	0	0	74·95	75·78
November ...	·280	3·7	0·2	4·7	4·9	9·66	74·3	83·9	8·49	10·38	2	4	8	1	0	75·95	75·56
December ...	·238	0·7	0·4	5·7	6·1	8·48	63·9	82·3	9·52	11·14	1	8	21	0	1	77·55	75·83
Year	·185	4·0	0·5	5·4	5·9	7·70	63·9	74·3	8·77	10·44	38	118	208	22	15	78·20	77·14
	in.					hrs.										°	°
Maximum ...	·340 Nov. 16 17·23	7·3 Sep. 15	...	...	...	12·0 Jan. 4 Nov. 7, 8, 16	96 July 22	31·9 m.p.h. on July 21d			12 May	18 Jan.	23 March	6 Jan. Feb.	8 Mar.	82·0 Mar. 27 to 30	78·47 June 4 to 7
	in.															°	°
Minimum ...	·045 Apr. 12	0·0	...	...	...	0	0	...	0	0	0	4 Nov.	8 Nov.	0	0	74·6 Sept. 26 to Oct. 4	75·40 Nov. 23 Nov. 2 & 3
Column	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

MONTHLY NORMALS of the METEOROLOGICAL ELEMENTS and EXTREME VALUES.

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.	Degree of Humidity (Saturation =100).	Elastic Force of Vapour.	Rainfall. Amount recorded by the Beckley Pluviograph.	Duration.	Amount collected in the Glaisher Rain Gauge.	Excess of Beckley over Glaisher.
	ins.	°	°	°	°	°	°	°	°	°		in.	ins.	mins.	ins.	in.
January	29·750	93·1	64·7	22·0	86·3	72·9	13·4	78·9	73·8	70·2	75·1	·737	7·89	2221	7·88	+0·01
February ...	29·730	91·0	63·8	20·0	85·6	72·9	12·7	78·5	74·1	70·9	77·7	·757	8·12	2123	8·01	+0·11
March	29·766	88·8	63·3	19·7	84·1	72·1	12·0	77·3	73·3	70·6	80·2	·747	9·36	2824	9·33	+0·03
April	29·822	86·9	62·2	20·8	82·2	70·2	12·0	75·3	71·4	68·8	80·9	·704	4·92	1737	4·84	+0·08
May	29·890	84·5	55·4	23·1	79·0	66·4	12·6	72·1	68·1	65·3	79·3	·625	3·04	1322	2·97	+0·07
June	29·965	82·9	50·6	23·2	76·2	62·7	13·5	68·7	64·4	61·1	76·4	·538	1·95	1255	1·90	+0·05
July...	30·004	80·3	52·9	22·0	75·3	61·6	13·7	67·5	63·1	59·4	75·7	·507	2·28	1533	2·28	0·00
August	30.010	80·3	50·9	22·8	75·7	62·1	13·6	68·0	63·2	59·4	74·5	·508	2·83	1769	2·75	+0·08
September ...	29·993	82·9	53·8	24·0	77·6	62·6	15·0	69·6	64·3	60·2	71·9	·522	1·31	978	1·27	+0·04
October	29·942	87·8	57·2	25·5	81·1	64·7	16·4	72·1	66·2	61·8	70·1	·552	1·24	845	1·21	+0·03
November ...	29·877	90·0	57·9	26·9	84·2	67·2	17·0	75·2	68·8	64·3	68·4	·603	1·78	846	1·76	+0·02
December ...	29·811	94·7	62·1	24·1	85·8	71·2	14·6	78·0	72·1	67·6	70·9	·676	4·68	1452	4·62	+0·06
														hours.		
Year	29·880	...	...	37·4	81·1	67·2	13·9	73·4	68·6	65·0	75·1	·623	49·40	315·1	48·82	+0·58
	ins.	°		°	°		°	°	°	°	°	in.	ins.			
Maximum... ...	30·274 June 20 1877	94·7 Dec. 23 1900	...	43·9 1900	89·9 Jan. 1900	...	27·8 Aug. 12 1902	75·0 1875	82·3 Jan. 31 1903	79·1 Jan. 14 1897	98·5 Jan. 12 1901	·994 Jan. 14 1897	19·318 during 24 hours ending February 20d. 13h. 1896.			
	ins.	°	°	°		°	°	°	°	°	°	in.				
Minimum... ...	27·780 April 29 1892	...	50·6 June 10 1894	33·9 1903	...	59·1 June 1894	2·0 June 14 1891	72·4 1893	48·9 June 10 1894	46·7 June 10 1894	34·0 Nov. 26 1896	·321 June 10 1894	...			
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Month.	Mean Daily Amount of Evaporation.	Mean Daily Amount of Ozone (0—10).	Mean Amount of Cloud. Upper (0-10).	Lower (0-10).	Total (0-10).	Daily Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Resultant. Direction.	Velocity.	Recorded Velocity.	Number of Days of Clear Sky.	Overcast Sky.	Rain.	Thunderstorms.	Lightning only.	Temperature of the soil. At a Depth of 5 Feet.	At a Depth of 10 Feet.
	in.					hrs.		°	m.p.h.	m.p.h.						°	°
January	·246	3·4	1·3	5·1	6·4	7·69	58·6	86·5	8·42	11·07	1·3	11·6	18	4·1	2·0	79·92	77·12
February... ...	·215	3·2	1·2	5·1	6·3	7·21	56·7	81·2	8·13	10·99	1·5	11·0	18	3·8	2·0	80·74	77·64
March	·185	3·7	1·3	5·2	6·5	6·72	55·3	77·9	8·08	10·42	1·4	12·7	21	4·6	1·7	81·15	78·06
April	·166	4·2	1·0	4·6	5·6	7·31	63·1	70·4	8·56	10·51	3·1	8·6	18	2·8	1·4	80·82	78·31
May	·144	4·5	0·8	4·3	5·1	7·37	66·4	64·7	9·00	10·27	6·6	7·0	15	1·2	0·4	79·71	78·39
June	·124	4·9	0·4	4·5	4·9	7·43	68·3	60·8	10·16	11·19	5·7	5·8	16	0·1	0·1	78.09	78·25
July	·134	5·2	0·3	4·8	5·1	7·65	69·5	64·4	10·86	11·96	4·9	5·6	20	0·0	0·0	76·38	77·82
August	·160	5·3	0·3	5·2	5·5	7·49	65·7	67·7	11·18	12·34	3·4	7·6	20	0·1	0·0	75·28	77·25
September ...	·193	4·9	0·4	5·2	5·6	8·01	67·0	71·5	10·69	12·02	3·1	7·5	15	0·1	0·0	75·14	76·69
October	·229	4·2	0·7	5·0	5·7	8·14	65·1	77·7	9·41	11·00	2·3	7·2	14	0·2	0·1	75·79	76·35
November ...	·270	3·3	0·7	4·8	5·5	8·59	66·1	83·4	8·81	10·70	2·2	6·7	12	0·7	0·5	77·02	76·34
December ...	·257	3·2	1·0	5·1	6·1	8·27	62·3	90·9	8·53	10·79	1·9	10·5	16	2·4	1·2	78·55	76·60
Year	·194	4·2	0·8	4·9	5·7	7·66	63·7	74·0	9·20	11·10	37·4	101·8	204	19·1	9·4	78·22	77·40
						hrs.										°	°
Maximum ...	...	9·7 June 2 1896	...	...	...	12·5 Dec. 9 1899	97 June 19 1889	103·3 m.p.h. for 1 hour: 121·2 m.p.h. for 5 mins.		Apr. 29 1892	13 May 1882 & Aug. 1902	22 Mar. 1882	28 Mar. 1885	19 Jan. 1898	9 Jan. 1863	82·7 Feb. 13 1892	79·99 May 13 1898
Minimum ...	...	0	...	...	...	0	0	...	0	0	0	1 April & June 1879: May 1882	4 June 1900	0	0	74·0 Sept. 13 1893	75·24 Nov. 15 1893
Column	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

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

Maxima.			Minima.			Maxima.			Minima.		
Mauritius Civil Time, 1903.		Reading.	Mauritius Civil Time, 1903.		Reading.	Mauritius Civil Time, 1903.		Reading.	Mauritius Civil Time, 1903.		Reading.
	d h	ins.		d h	ins.		d h	ins.		d h	ins.
January	6. 18	29·911	January	16. 20	29·427	July	3. 19	29·977	July	5. 8	29·946
	19. 12	29·717		28. 22	29·458		9. 10	30·053		12. 23	29·900
							15. 14	29·957		17. 15	29·875
							26. 10	30·139			
February	9. 0	29·827	February	14. 15	29·423				August	3. 7	29·923
	21. 14	29·885		24. 12	29·751	August	5. 20	30·028		7. 5	29·962
	26. 6	29·801					12. 15	30·062		14. 9	29·958
							16. 14	30·019		17. 21	29·974
			March	2. 22	29·621		19. 9	30·042		22. 2	29·958
March	9. 9	29·784		19. 2	29·543		24. 7	30·072		26. 12	29·947
	24. 12	29·775		26. 20	29·719						
	31. 6	29·897				September	1. 10	30·055			
							10. 2	30·064	September	5. 22	29·899
			April	5. 20	29·679		15. 3	30·070		11. 22	29·930
April	7. 9	29·812		10. 15	29·733		25. 18	30·088		19. 3	29·900
	15. 16	29·843		16. 20	29·779					28. 11	29·949
	19. 14	29·864		22. 11	29·765	October	1. 23	30·072			
	30. 13	29·922					10. 22	29·981	October	6. 10	29·868
							16. 6	30·000		13. 13	29·892
			May	5. 7	29·825		21. 9	29·955		19. 6	29·894
May	6. 17	29·871		8. 11	29·786		26. 2	29·973		23. 17	29·850
	13. 5	29·930		14. 18	29·881		31. 14	29·976		28. 1	29·884
	16. 16	29·963		19. 12	29·786						
	21. 7	29·897		22. 23	29·821						
	26. 12	30·010		27. 7	29·949	November	5. 15	29·948	November	4. 1	29·890
	29. 5	30·033					12. 3	29·979		8. 0	29·897
							19. 0	29·927		17. 21	29·890
			June	3. 6	29·874		29. 16	29·831		26. 9	29·769
June	5. 10	29·997		10. 21	29·846						
	12. 14	29·921		14. 16	29·791	December	13. 4	29·856	December	8. 9	29·639
	17. 12	30·017		19. 23	29·920		17. 13	29·889		15. 14	29·795
	21. 12	29·985		23. 18	29·855		21. 16	29·923		19. 5	29·825
	26. 0	29·999		27. 21	29·923		25. 6	29·924		23. 3	29·869
	29. 2	29·984		30. 20	29·913		29. 8	29·915		27. 0	29·847

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

Hour, Mauritius Civil Time.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
Midnight	29·719	29·735	29·723	29·818	29·908	29·939	30·004	30·017	30·016	29·958	29·910	29·839	29·882
1h	29·703	29·722	29·713	29·809	29·900	29·934	30·000	30·010	30·006	29·946	29·896	29·825	29·872
2	29·689	29·709	29·699	29·797	29·890	29·923	29·990	29·999	29·994	29·934	29·886	29·813	29·860
2	29·678	29·702	29·689	29·788	29·881	29·914	29·981	29·989	29·984	29·926	29·880	29·809	29·852
4	29·674	29·700	29·686	29·782	29·875	29·909	29·976	29·982	29·979	29·926	29·883	29·808	29·848
5	29·682	29·704	29·691	29·783	29·876	29·909	29·976	29·983	29·984	29·933	29·888	29·813	29·852
6	29·698	29·715	29·702	29·791	29·884	29·916	29·985	29·991	29·995	29·943	29·900	29·827	29·862
7	29·709	29·727	29·714	29·807	29·897	29·929	29·996	30·003	30·010	29·956	29·911	29·840	29·875
8	29·717	29·738	29·730	29·821	29·909	29·945	30·012	30·016	30·022	29·967	29·916	29·845	29·886
9	29·722	29·743	29·738	29·832	29·922	29·962	30·024	30·028	30·026	29·968	29·916	29·846	29·894
10	29·718	29·739	29·737	29·831	29·921	29·957	30·025	30·029	30·023	29·962	29·910	29·841	29·891
11	29·711	29·732	29·729	29·821	29·908	29·946	30·014	30·017	30·008	29·949	29·900	29·834	29·881
Noon	29·701	29·723	29·714	29·803	29·889	29·928	29·993	29·996	29·988	29·932	29·886	29·821	29·865
13h	29·691	29·711	29·695	29·782	29·868	29·904	29·971	29·976	29·970	29·914	29·872	29·811	29·847
14	29·681	29·700	29·681	29·772	29·855	29·890	29·958	29·961	29·954	20·903	29·858	29·799	29·834
15	29·669	29·688	29·672	29·763	29·851	29·887	29·952	29·955	29·946	29·896	29·851	29·791	29·827
16	29·666	29·687	29·673	29·767	29·858	29·890	29·956	29·958	29·949	29·897	29·850	29·790	29·828
17	29·672	29·692	29·679	29·775	29·867	29·899	29·965	29·969	29·959	29·910	29·860	29·796	29·837
18	29·683	29·704	29·691	29·787	29·878	29·908	29·975	29·980	29·974	29·924	29·875	29·806	29·849
19	29·696	29·721	29·706	29·802	29·892	29·922	29·990	29·996	29·994	29·942	29·892	29·825	29·865
20	29·708	29·736	29·722	29·818	29·907	29·934	30·005	30·013	30·011	29·958	29·906	29·837	29·880
21	29·719	29·748	29·736	29·829	29·916	29·941	30·007	30·022	30·023	29·969	29·915	29·848	29·889
22	29·725	29·755	29·739	29·831	29·917	29·944	30·010	30·024	30·023	29·971	29·921	29·856	29·893
23	29·722	29·753	29·734	29·827	29·916	29·942	30·009	30·022	30·021	29·967	29·917	29·853	29·890
24	29·709	29·743	29·725	29·820	29·910	29·938	30·007	30·018	30·016	29·956	29·905	29·840	29·882
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.	Year.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight	+ ·016	+ ·019	+ ·017	+ ·017	+ ·014	+ ·014	+ ·015	+ ·018	+ ·020	+ ·017	+ ·017	+ ·015	+ ·017
1h	+ ·003	+ ·005	+ ·006	+ ·006	+ ·006	+ ·008	+ ·011	+ ·010	+ ·010	+ ·007	+ ·005	+ ·002	+ ·007
2	− ·011	− ·010	− ·009	− ·007	− ·006	− ·005	− ·002	− ·002	− ·002	− ·007	− ·008	− ·011	− ·007
3	− ·018	− ·017	− ·019	− ·016	− ·015	− ·013	− ·009	− ·010	− ·011	− ·013	− ·013	− ·016	− ·014
4	− ·019	− ·020	− ·024	− ·022	− ·020	− ·018	− ·015	− ·017	− ·015	− ·014	− ·012	− ·017	− ·018
5	− ·010	− ·015	− ·019	− ·018	− ·018	− ·017	− ·014	− ·015	− ·009	− ·006	− ·006	− ·008	− ·013
6	+ ·005	− ·005	− ·008	− ·008	− ·007	− ·009	− ·007	− ·004	+ ·002	+ ·006	+ ·008	+ ·006	− ·002
7	+ ·016	+ ·009	+ ·005	+ ·007	+ ·008	+ ·005	+ ·006	+ ·009	+ ·016	+ ·019	+ ·019	+ ·018	+ ·011
8	+ ·020	+ ·019	+ ·021	+ ·022	+ ·025	+ ·023	+ ·021	+ ·023	+ ·028	+ ·026	+ ·022	+ ·020	+ ·022
9	+ ·022	+ ·025	+ ·029	+ ·032	+ ·036	+ ·035	+ ·035	+ ·035	+ ·033	+ ·029	+ ·024	+ ·022	+ ·030
10	+ ·018	+ ·022	+ ·027	+ ·030	+ ·033	+ ·031	+ ·033	+ ·034	+ ·028	+ ·022	+ ·016	+ ·017	+ ·026
11	+ ·011	+ ·015	+ ·020	+ ·019	+ ·019	+ ·020	+ ·021	+ ·021	+ ·015	+ ·010	+ ·007	+ ·010	+ ·016
Noon	− ·001	+ ·002	+ ·003	− ·002	− ·002	·000	·000	− ·001	− ·007	− ·007	− ·007	− ·003	− ·002
13h	− ·011	− ·012	− ·014	− ·019	− ·022	− ·022	− ·020	− ·019	− ·025	− ·024	− ·022	− ·014	− ·019
14	− ·025	− ·026	− ·029	− ·034	− ·035	− ·034	− ·035	− ·036	− ·041	− ·039	− ·036	− ·027	− ·033
15	− ·035	− ·034	− ·036	− ·038	− ·038	− ·036	− ·038	− ·041	− ·047	− ·045	− ·042	− ·037	− ·039
16	− ·039	− ·037	− ·036	− ·035	− ·034	− ·033	− ·035	− ·038	− ·044	− ·044	− ·043	− ·039	− ·038
17	− ·032	− ·031	− ·028	− ·025	− ·023	− ·023	− ·025	− ·029	− ·034	− ·034	− ·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	+ ·016	+ ·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.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	75·5	75·8	76·4	72·8	68·5	67·0	64·5	65·6	65·0	66·4	68·0	71·7	69·8
1h	75·2	75·4	76·3	72·6	68·2	66·5	64·1	65·2	64·2	66·0	67·2	71·4	69·4
2	74·8	74·7	76·1	72·5	68·1	66·0	63·7	64·9	63·9	65·5	67·0	70·9	69·0
3	74·6	74·6	76·0	72·4	67·7	65·9	63·5	64·7	63·6	65·0	66·6	70·6	68·8
4	74·4	74·2	75·6	72·2	67·4	65·7	63·7	64·5	63·4	64·8	66·2	70·0	68·5
5	74·4	73·9	75·3	72·1	67·0	65·5	63·6	64·1	63·3	64·6	66·3	69·8	68·3
6	74·7	73·7	75·2	72·1	67·3	65·4	63·5	64·0	63·6	64·9	68·2	71·2	68·6
7	77·7	76·6	76·6	73·2	68·2	66·1	63·9	64·5	65·7	69·1	73·2	75·5	70·9
8	80·4	80·5	79·6	76·0	72·2	69·3	67·4	68·8	69·0	72·4	76·1	77·8	74·1
9	81·6	82·2	81·1	78·1	75·6	72·8	71·2	71·6	71·9	74·5	78·2	79·3	76·5
10	83·2	83·5	82·3	78·9	77·1	74·4	73·2	72·8	73·0	75·9	79·8	80·8	77·9
11	84·1	84·0	83·1	79·6	78·5	75·4	74·3	73·7	74·2	76·7	80·4	81·4	78·8
Noon	84·4	84·2	83·2	80·2	78·8	75·9	74·9	73·8	75·0	77·0	81·1	81·7	79·2
13h	84·1	83·5	83·4	80·4	79·2	75·9	75·2	74·0	74·9	76·4	80·8	81·4	79·1
14	83·3	82·8	83·1	80·1	78·8	75·7	74·9	73·6	74·6	76·0	80·5	81·3	78·7
15	82·6	82·6	82·6	79·5	77·9	75·4	74·1	73·0	73·7	75·5	80·3	81·0	78·2
16	82·3	82·4	82·0	78·6	77·0	74·1	72·9	72·1	72·7	74·7	79·1	79·6	77·3
17	81·3	81·7	80·7	77·5	75·3	72·6	71·2	70·9	71·1	72·3	77·4	78·6	75·9
18	80·2	80·5	79·2	75·6	72·6	70·4	68·6	68·8	68·7	70·0	75·2	77·0	73·9
19	78·5	78·8	77·8	74·6	71·1	69·1	67·3	67·5	67·3	68·7	73·0	75·2	72·4
20	77·3	77·8	77·1	74·0	70·2	68·2	66·3	66·9	66·4	67·9	71·6	74·1	71·5
21	76·8	77·1	76·7	73·6	69·7	68·0	65·8	66·2	66·0	67·4	70·4	73·3	70·9
22	76·4	76·6	76·4	73·3	69·1	67·6	65·4	65·8	66·0	67·3	69·8	72·7	70·5
23	76·0	76·2	76·4	73·1	68·6	67·3	65·0	65·7	65·5	67·0	68·8	72·3	70·2
24	75·7	75·9	76·2	72·8	68·4	66·5	64·4	65·6	65·0	66·5	68·2	71·7	69·7
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	...

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

Hour, Mauritius Civil Time.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	73·4	73·8	74·6	70·8	65·9	63·9	61·4	61·9	61·3	63·3	64·7	69·0	67·0
1h	73·2	73·5	74·6	70·6	65·7	63·7	61·2	61·9	61·0	63·1	64·3	68·7	66·8
2	73·0	73·1	74·4	70·4	65·6	63·4	60·9	61·6	60·8	62·6	64·1	68·4	66·5
3	72·8	73·0	74·4	70·5	65·3	63·4	60·7	61·5	60·7	62·5	63·9	68·2	66·4
4	72·6	72·7	74·0	70·4	65·1	63·3	60·8	61·2	60·4	62·1	63·6	67·7	66·2
5	72·5	72·3	73·8	70·1	64·8	63·1	60·6	61·1	60·5	61·9	63·7	67·5	66·0
6	72·7	72·2	73·8	70·2	64·9	63·0	60·6	61·0	60·9	62·0	65·0	68·7	66·2
7	74·8	74·4	74·8	71·1	65·7	63·3	61·1	61·2	62·3	64·6	67·6	70·7	67·6
8	75·9	76·4	76·3	72·9	68·4	65·6	63·2	63·6	63·6	65·1	67·8	71·1	69·2
9	76·2	77·1	76·9	73·6	69·8	67·1	64·9	64·5	64·5	65·8	68·2	71·3	70·0
10	76·9	77·8	77·2	74·0	69·9	67·7	65·1	64·6	64·6	65·9	68·2	71·7	70·3
11	77·1	78·0	77·5	74·3	70·2	68·0	65·1	65·0	64·9	66·6	68·5	72·0	70·6
Noon	77·3	78·4	77·6	74·5	70·1	68·1	65·2	65·1	65·0	66·5	68·6	72·1	70·7
13h	77·4	78·0	77·5	74·5	69·9	68·0	65·3	64·9	65·0	66·5	68·8	71·8	70·6
14	77·1	77·6	77·2	74·3	70·0	67·7	65·0	64·9	64·6	66·4	68·5	71·8	70·4
15	76·8	77·1	76·9	73·9	69·7	67·5	64·9	64·8	64·5	66·4	68·4	72·0	70·2
16	76·5	76·8	76·5	73·4	69·3	67·0	64·8	64·3	64·1	66·0	68·3	71·7	69·9
17	76·1	76·7	76·0	73·1	69·0	66·5	64·4	63·9	63·4	65·4	67·9	71·2	69·5
18	75·6	76·2	75·7	72·4	68·2	65·8	63·5	63·4	63·0	64·8	67·4	70·8	68·9
19	75·0	75·5	75·0	71·8	67·4	65·2	63·0	63·1	62·5	64·3	67·1	70·3	68·4
20	74·5	75·0	74·7	71·5	66·9	64·7	62·3	62·8	62·1	63·9	66·7	69·9	67·9
21	74·2	74·5	74·5	71·2	66·6	64·4	62·2	62·3	62·1	63·8	66·2	69·5	67·6
22	73·9	74·2	74·4	71·2	66·2	64·2	62·0	62·1	62·0	63·8	65·9	69·3	67·4
23	73·8	73·9	74·4	71·0	65·9	64·0	61·8	62·0	61·5	63·6	65·4	69·2	67·2
24	73·6	73·7	74·4	70·9	65·7	64·0	61·3	61·9	61·3	63·3	65·0	68·9	67·0
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	...

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

Hour, Mauritius Civil Time.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	71·9	72·2	73·3	69·3	63·9	61·5	58·9	58·9	58·3	60·8	62·1	66·9	64·8
1h	71·8	72·1	73·4	69·1	63·6	61·4	58·8	59·2	58·3	60·7	62·1	66·6	64·8
2	71·7	71·8	73·2	68·8	63·6	61·3	58·5	58·9	58·1	60·2	61·8	66·4	64·5
3	71·5	71·7	73·2	69·0	63·4	61·4	58·3	58·8	58·3	60·4	61·8	66·3	64·5
4	71·3	71·5	72·9	69·0	63·3	61·3	58·3	58·5	58·0	59·9	61·5	65·9	64·3
5	71·2	71·1	72·8	68·6	63·1	61·1	58·2	58·7	58·0	59·7	61·5	65·8	64·1
6	71·3	71·1	72·8	68·8	63·0	61·0	58·2	58·5	58·5	59·7	62·4	66·8	64·3
7	72·8	72·9	73·5	69·5	63·8	61·1	58·7	58·4	59·5	61·0	63·4	67·3	65·2
8	72·7	73·6	74·0	70·7	65·5	62·7	59·9	59·4	59·5	59·6	61·8	66·5	65·5
9	72·6	73·7	74·1	70·4	65·5	62·9	60·1	59·0	58·9	59·3	61·2	65·7	65·3
10	72·7	74·0	73·8	70·7	64·8	62·7	59·1	58·5	58·3	58·8	60·2	65·5	64·9
11	72·5	74·1	73·8	70·6	64·3	62·5	58·3	58·5	58·0	59·4	60·8	65·6	64·9
Noon	72·7	74·7	73·9	70·6	63·9	62·4	58·0	58·6	57·8	59·0	60·1	65·5	64·8
13h	72·9	74·3	73·6	70·4	63·5	62·3	58·1	58·2	57·8	59·5	60·6	65·3	64·7
14	73·0	74·0	73·2	70·3	63·9	61·9	57·8	58·5	57·2	59·5	60·3	65·3	64·6
15	72·9	73·4	73·1	70·1	63·9	61·6	58·0	58·6	57·6	59·8	60·2	65·9	64·6
16	72·5	73·1	72·7	69·8	64·0	61·7	58·7	58·3	57·6	59·5	60·7	66·2	64·6
17	72·5	73·3	72·8	69·9	64·5	61·8	59·2	58·6	57·6	60·1	60·9	66·0	64·8
18	72·4	73·3	73·2	70·1	64·8	62·2	59·5	59·1	58·5	60·8	61·7	66·4	65·2
19	72·6	73·2	73·0	69·7	64·6	62·1	59·5	59·5	58·7	60·9	62·7	66·7	65·3
20	72·6	73·0	73·1	69·7	64·3	61·8	59·1	59·5	58·5	60·7	62·9	66·8	65·2
21	72·4	72·7	72·9	69·3	64·2	61·5	59·2	59·2	58·8	60·8	62·9	66·7	65·1
22	72·2	72·5	73·0	69·6	63·9	61·5	59·1	59·1	58·7	61·0	62·9	66·8	65·0
23	72·3	72·2	73·0	69·4	63·7	61·4	59·2	58·9	58·2	60·9	62·7	66·8	64·9
24	72·1	72·2	73·1	69·4	63·6	61·6	58·8	58·8	58·2	60·8	62·6	66·8	64·8
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	...

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

Hour, Mauritius Civil Time.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	88·5	88·8	89·9	89·0	84·9	82·6	82·1	78·8	79·2	82·3	81·7	84·7	84·4
1h	89·2	89·7	90·8	88·6	85·5	83·6	83·1	80·9	81·5	83·3	83·5	85·2	85·4
2	89·8	90·8	90·6	88·2	85·6	84·6	83·3	80·6	81·6	83·1	83·3	85·8	85·6
3	90·0	90·8	91·0	89·2	86·2	85·6	83·0	81·2	82·7	84·7	84·6	86·4	86·3
4	90·1	91·4	91·3	89·4	86·6	85·8	82·9	81·0	82·5	83·9	84·8	87·0	86·4
5	89·7	91·0	91·9	88·7	87·3	85·7	82·7	82·8	82·9	84·3	84·5	87·1	86·6
6	89·3	91·4	92·2	89·3	86·3	85·7	83·1	82·3	83·5	83·1	81·9	86·0	86·2
7	84·9	88·6	90·3	88·5	85·9	84·2	83·3	80·8	80·7	75·6	71·5	75·7	82·5
8	77·6	79·7	83·1	83·7	79·8	79·7	77·0	72·2	71·5	64·1	61·4	68·1	74·8
9	74·2	75·4	79·4	77·5	71·1	71·4	68·0	64·7	63·7	59·2	56·0	63·2	68·6
10	70·8	73·3	75·6	76·0	65·9	67·3	61·4	60·8	60·1	55·5	51·4	59·7	64·8
11	68·3	72·2	73·6	74·0	61·9	64·3	57·4	59·0	57·1	55·3	51·2	58·7	62·7
Noon	68·0	73·1	73·4	72·6	60·5	62·9	55·7	59·1	55·1	53·7	48·9	57·9	61·7
13h	69·2	73·7	72·3	71·7	58·8	62·8	55·3	57·7	55·4	55·9	50·4	58·3	61·8
14	71·1	74·8	72·1	72·0	60·4	62·4	55·3	59·4	54·7	56·6	50·2	58·5	62·3
15	72·8	74·0	72·9	73·1	62·2	62·0	57·3	60·7	57·2	58·4	50·5	60·3	63·4
16	72·3	73·6	73·4	74·6	64·2	65·1	61·1	62·0	59·1	59·3	53·3	63·8	65·1
17	74·6	75·7	77·0	77·7	69·2	69·0	66·0	65·3	62·4	65·6	56·9	65·3	68·7
18	77·4	78·7	82·0	83·2	76·9	75·5	72·8	71·4	70·1	72·7	63·1	69·9	74·5
19	82·3	83·1	85·3	85·0	80·2	78·5	76·3	75·6	74·0	76·4	70·2	75·1	79·3
20	85·7	85·2	87·4	86·4	81·7	80·3	77·8	77·3	76·1	77·9	74·2	78·2	80·7
21	86·6	86·6	88·3	86·6	82·7	80·0	79·4	78·0	77·8	79·6	77·4	79·7	81·9
22	86·8	87·2	89·0	88·1	83·6	81·0	80·1	79·2	77·5	80·4	78·9	82·0	82·8
23	88·4	87·5	89·5	88·4	84·3	81·5	81·4	78·8	77·2	80·8	80·9	83·0	83·5
24	88·6	88·4	90·1	88·9	84·6	82·8	82·8	78·8	79·1	81·9	82·3	84·6	84·4
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	...

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

Hour, Mauritius Civil Time.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight	0·782	0·790	0·820	0·716	0·594	0·546	0·498	0·498	0·487	0·533	0·558	0·659	0·623
1h	0·779	0·788	0·823	0·711	0·588	0·545	0·496	0·503	0·487	0·531	0·558	0·652	0·622
2	0·777	0·779	0·818	0·704	0·588	0·543	0·491	0·498	0·483	0·522	0·552	0·648	0·617
3	0·772	0·777	0·818	0·708	0·584	0·545	0·487	0·496	0·487	0·526	0·552	0·646	0·616
4	0·766	0·772	0·810	0·708	0·582	0·543	0·487	0·491	0·482	0·516	0·546	0·637	0·612
5	0·764	0·761	0·807	0·699	0·578	0·539	0·485	0·494	0·482	0·512	0·546	0·635	0·609
6	0·766	0·761	0·807	0·704	0·576	0·537	0·485	0·491	0·491	0·512	0·564	0·657	0·613
7	0·807	0·810	0·826	0·721	0·592	0·539	0·494	0·489	0·509	0·537	0·584	0·668	0·631
8	0·804	0·829	0·840	0·751	0·628	0·570	0·516	0·507	0·509	0·511	0·552	0·650	0·639
9	0·801	0·832	0·843	0·744	0·628	0·574	0·520	0·500	0·498	0·505	0·541	0·633	0·635
10	0·804	0·840	0·834	0·751	0·613	0·570	0·501	0·491	0·487	0·496	0·522	0·628	0·628
11	0·799	0·843	0·834	0·749	0·603	0·566	0·487	0·491	0·482	0·507	0·533	0·630	0·627
Noon	0·804	0·860	0·837	0·749	0·594	0·564	0·482	0·492	0·479	0·500	0·520	0·628	0·626
13h	0·810	0·848	0·829	0·744	0·586	0·562	0·483	0·485	0·479	0·509	0·529	0·624	0·624
14	0·812	0·840	0·818	0·741	0·594	0·554	0·479	0·491	0·469	0·509	0·524	0·624	0·621
15	0·810	0·823	0·815	0·736	0·594	0·548	0·482	0·492	0·475	0·514	0·522	0·637	0·621
16	0·799	0·815	0·804	0·728	0·596	0·550	0·494	0·487	0·475	0·509	0·531	0·644	0·619
17	0·799	0·820	0·807	0·731	0·607	0·552	0·503	0·492	0·475	0·520	0·535	0·639	0·623
18	0·796	0·820	0·818	0·736	0·613	0·560	0·509	0·501	0·491	0·533	0·550	0·648	0·631
19	0·801	0·818	0·812	0·726	0·609	0·558	0·509	0·509	0·494	0·535	0·570	0·655	0·633
20	0·801	0·812	0·815	0·726	0·603	0·552	0·501	0·509	0·491	0·531	0·574	0·657	0·631
21	0·796	0·804	0·810	0·716	0·601	0·546	0·503	0·503	0·496	0·533	0·574	0·655	0·628
22	0·790	0·799	0·812	0·723	0·594	0·546	0·501	0·501	0·494	0·537	0·574	0·657	0·627
23	0·793	0·790	0·812	0·718	0·590	0·545	0·503	0·498	0·485	0·535	0·570	0·657	0·625
24	0·788	0·790	0·815	0·718	0·588	0·548	0·496	0·496	0·485	0·533	0·568	0·657	0·623
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	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 1903.

Month, 1903.	Registered Duration of Sunshine in the Hour ending 6h.	7h.	8h.	9h.	10h.	11h.	Noon.	13h.	14h.	15h.	16h.	17h.	18h.	19h.	Total Registered Duration of Sunshine in each Month.	Corresponding Period during which the Sun was above the Horizon.
	hr.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January ...	0·5	14.2	20·6	20·8	20·9	19·6	19·5	19·2	16·4	14·9	16·0	14·3	9·6	0·6	207·1	407·6
February ...	...	11·7	21·1	22·4	21·8	20·5	19·5	14·5	12·3	13·1	13·2	11·3	6·6	...	188·0	356·3
March ...	...	6·8	19·7	19·7	22·8	24·6	22·7	21·6	21·9	19·1	17·8	14·8	6·1	...	217·6	377·6
April ...	...	5·3	20·1	22·5	22·6	22·2	22·1	21·7	20·9	20·0	20·5	17·9	7·2	...	223·0	348·3
May ...	...	1·8	21·5	25·1	26·7	27·9	26·7	27·2	26·1	25·7	24·9	24·2	8·5	...	266·3	345·4
June ...	...	0·2	18·1	24·0	22·7	24·3	24.3	22·3	21·9	22·5	22·1	20·9	5·5	...	228·8	327·2
July ...	...	0·8	17·6	21·9	24·3	22·3	24·0	26·1	24·4	22·6	21·6	21·1	5·8	...	232·5	340·9
August ...	...	1·7	17·8	25·6	23·0	22·9	22·8	22·4	21·0	21·6	17·8	18·1	5·6	...	220·3	353·0
September ...	...	4·5	17·3	20·6	23·8	22·2	22·4	22·3	21·9	19·6	19·3	16·7	8·0	...	218·6	357·8
October ...	...	10·5	23·3	25·0	26·6	27·6	24·3	22·0	21·8	22·0	21·5	20·4	12·7	...	257·7	387·2
November ...	0·2	19·8	24·4	24·5	24·1	25·0	26·4	24·3	23·8	25·0	25·9	25·3	19·5	1·5	289·7	390·1
December ...	0·6	19·9	24·1	26·0	26·0	26·2	23·8	20·7	21·0	20·2	18·2	18·7	16·1	1·4	262·9	411·5

The hours are reckoned from apparent midnight.

The total registered duration of sunshine during the year was 2812·5 hours; the corresponding period during which the sun was above the horizon was 4402·9 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.	1903.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	ins.
1h	0·595	0·000	0·245	0·120	0·075	0·095	0·015	0·160	0·060	0·075	0·040	0·015	1·495
2	0·250	0·170	0·595	0·055	0·000	0·030	0·055	0·115	0·065	0·065	0·025	0·190	1·615
3	0·165	0·200	0·245	0·245	0·135	0·155	0·030	0·100	0·022	0·180	0·080	0·045	1·602
4	0·110	0·305	0·735	0·300	0·075	0·070	0·040	0·075	0·005	0·185	0·072	0·127	2·099
5	0·045	0·010	0·630	0·135	0·135	0·055	0·125	0·090	0·185	0·065	0·000	0·175	1·650
6	0·170	0·005	0·745	0·160	0·080	0·150	0·045	0·090	0·055	0·010	0·013	0·178	1·701
7	0·150	0·055	0·340	0·690	0·100	0·125	0·075	0·050	0·118	0·085	0·035	0·010	1·833
8	0·450	0·075	0·215	0·390	0·015	0·105	0·095	0·045	0·145	0·115	0·005	0·130	1·685
9	0·645	0·065	0·175	0·195	0·050	0·280	0·010	0·115	0·075	0·085	0·000	0·050	1·745
10	0·320	0·245	0·130	0·875	0·015	0·055	0·045	0·050	0·055	0·005	0·015	0·010	1·820
11	0·170	0·345	0·130	0·720	0·000	0·040	0·050	0·090	0·050	0·005	0·005	0·035	1·640
12	0·510	0·560	0·230	0·275	0·130	0·115	0·060	0·110	0·025	0·002	0·000	0·010	2·027
13	0·465	1·100	0·215	0·220	0·010	0·175	0·060	0·075	0·035	0·003	0·150	0·315	2·823
14	1·010	0·720	0·225	0·175	0·010	0·020	0·105	0·045	0·040	0·000	0·170	0·015	2·535
15	0·730	1·685	0·000	0·255	0·060	0·030	0·505	0·020	0·030	0·030	0·000	0·135	3·480
16	0·585	0·010	0·050	0·225	0·005	0·025	0·015	0·015	0·015	0·003	0·000	0·215	1·163
17	0·665	0·140	0·550	0·410	0·000	0·015	0·020	0·005	0·000	0·040	0·000	0·425	2·270
18	0·465	0·040	0·400	0·170	0·070	0·230	0·015	0·025	0·060	0·109	0·000	0·050	1·634
19	0·230	0·000	0·195	0·155	0·000	0·185	0·035	0·135	0·060	0·045	0·000	0·040	1·080
20	0·745	0·155	0·535	0·305	0·000	0·000	0·000	0·110	0·010	0·040	0·000	0·150	2·050
21	0·190	0·225	0·485	0·060	0·000	0·000	0·025	0·040	0·230	0·008	0·000	0·060	1·323
22	0·190	0·000	0·095	0·170	0·000	0·005	0·015	0·085	0·195	0·045	0·090	0·080	0·970
23	0·195	0·070	0·080	0·100	0·030	0·035	0·155	0·130	0·015	0·045	0·250	0·375	1·480
24	0·325	0·010	0·360	0·105	0·005	0·100	0·000	0·105	0·170	0·010	0·055	0·085	1·330

DURATION of RAINFALL in MINUTES, in each HOUR of the DAY in each MONTH, as derived from the RECORDS of the BECKLEY PLUVIOGRAPH.

For the Hour ending.	1903.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.	mins.
1h	240	...	175	78	50	40	10	75	40	80	55	25	868
2	190	90	255	40	...	20	40	80	35	70	35	35	890
3	150	125	195	137	55	175	55	30	50	100	50	45	1167
4	90	105	330	160	80	93	45	100	5	100	45	75	1228
5	75	30	375	67	110	55	65	65	50	35	...	80	1007
6	145	30	240	65	70	105	27	105	50	10	10	120	977
7	150	25	180	130	65	60	48	45	55	60	30	10	858
8	195	95	110	110	20	85	67	25	100	70	10	25	912
9	195	55	120	105	40	135	15	65	75	60	...	20	885
10	110	50	60	160	25	65	15	35	30	5	10	5	570
11	70	80	130	235	...	65	35	115	30	10	15	20	805
12	95	110	90	63	45	70	20	65	20	5	...	15	598
13	210	190	135	60	10	90	23	85	40	5	40	80	968
14	150	175	80	105	10	30	60	50	25	...	40	25	750
15	230	235	...	125	30	65	115	10	30	40	...	30	910
16	145	30	40	120	10	15	15	25	5	20	...	80	505
17	240	40	120	85	...	20	10	5	...	70	...	95	685
18	195	30	145	65	45	70	10	40	45	110	...	20	775
19	140	...	150	135	...	47	35	65	60	105	...	15	752
20	150	80	240	110	...	...	...	60	15	30	...	65	750
21	80	100	285	70	...	...	20	65	105	30	...	25	780
22	110	...	40	115	...	5	20	55	90	50	20	35	540
23	115	20	70	110	20	35	105	40	25	55	50	100	745
24	130	10	120	75	20	70	...	25	60	20	25	55	610

(1) Hourly Values of North and East Components, with Resulting Direction and Velocity of the Wind.

Monthly Mean North and East Components of the Wind, at every Hour of the Day, as derived from the Hourly Measures of the Anemograms (Miles per hour).

Hour, Mauritius Civil Time.	1903. January. North.	January. East.	February. North.	February. East.	March. North.	March. East.	April. North.	April. East.	May. North.	May. East.	June. North.	June. East.
Midnight	− 1·9	+ 4·1	− 1·4	+ 4·3	+ 0·1	+ 6·7	− 2·8	+ 6·9	− 3·4	+ 6·2	− 3·3	+ 7·1
1h	− 2·1	+ 3·8	− 1·6	+ 4·1	− 0·3	+ 6·4	− 3·3	+ 7·3	− 3·6	+ 5·9	− 3·3	+ 6·9
2	− 2·1	+ 3·6	− 1·3	+ 4·0	− 0·3	+ 6·4	− 3·2	+ 6·6	− 3·5	+ 5·9	− 3·4	+ 6·8
3	− 2·0	+ 3·6	− 0·9	+ 4·1	0·0	+ 6·6	− 2·4	+ 6·3	− 3·4	+ 5·6	− 3·4	+ 6·2
4	− 1·7	+ 3·6	− 1·0	+ 3·7	− 0·1	+ 6·5	− 3·5	+ 6·0	− 3·2	+ 5·3	− 3·3	+ 6·2
5	− 1·8	+ 3·9	− 1·2	+ 4·1	− 0·3	+ 6·1	− 3·6	+ 6·3	− 2·8	+ 6·0	− 3·5	+ 6·4
6	− 1·3	+ 3·8	− 1·3	+ 4·5	− 0·5	+ 6·5	− 3·4	+ 6·6	− 3·1	+ 6·4	− 3·6	+ 6·6
7	− 1·8	+ 4·4	− 1·2	+ 4·1	− 0·4	+ 6·3	− 3·0	+ 6·5	− 3·6	+ 6·5	− 3·5	+ 7·2
8	− 1·2	+ 6·8	− 0·8	+ 5·2	− 0·2	+ 8·9	− 3·1	+ 8·6	− 3·9	+ 7·3	− 4·0	+ 7·8
9	− 0·6	+ 6·3	− 0·1	+ 5·1	+ 1·1	+ 10·1	− 3·3	+ 10·0	− 3·5	+ 9·6	− 3·9	+ 9·4
10	0·0	+ 6·5	+ 1·2	+ 5·0	+ 3·5	+ 12·1	− 3·0	+ 12·1	− 3·4	+ 12·2	− 4·5	+ 11·5
11	+ 0·6	+ 6·9	+ 1·4	+ 3·4	+ 3·0	+ 11·6	− 2·4	+ 12·0	− 3·4	+ 12·8	− 3·7	+ 12·1
Noon	+ 1·3	+ 5·9	+ 1·6	+ 4·6	+ 3·2	+ 11·2	− 2·9	+ 12·0	− 3·2	+ 13·2	− 3·0	+ 13·3
13h	+ 0·2	+ 4·7	+ 1·5	+ 4·4	+ 3·4	+ 11·4	− 2·3	+ 12·0	− 3·0	+ 12·6	− 2·9	+ 12·8
14	+ 0·7	+ 4·6	+ 0·9	+ 5·3	+ 2·7	+ 10·9	− 3·1	+ 12·6	− 3·3	+ 12·8	− 4·0	+ 13·5
15	− 0·4	+ 3·9	+ 0·1	+ 5·5	+ 1·9	+ 10·3	− 3·8	+ 11·5	− 4·0	+ 12·0	− 3·1	+ 13·2
16	− 0·2	+ 4·4	− 0·3	+ 5·3	+ 1·1	+ 10·0	− 4·7	+ 10·9	− 3·9	+ 10·8	− 3·6	+ 12·4
17	− 1·1	+ 3·8	− 0·8	+ 5·0	+ 0·9	+ 9·2	− 4·5	+ 9·4	− 3·4	+ 7·6	− 3·1	+ 9·1
18	− 1·6	+ 4·2	− 1·1	+ 4·5	− 0·4	+ 7·4	− 3·9	+ 7·6	− 3·0	+ 5·4	− 2·9	+ 7·4
19	− 1·6	+ 3·5	− 0·8	+ 4·3	− 0·3	+ 6·6	− 3·8	+ 7·0	− 3·2	+ 4·9	− 3·6	+ 7·0
20	− 1·5	+ 3·3	− 0·7	+ 4·7	− 0·6	+ 6·6	− 3·5	+ 7·3	− 3·1	+ 5·0	− 3·6	+ 6·1
21	− 2·0	+ 4·1	− 0·9	+ 4·5	− 0·6	+ 6·8	− 3·1	+ 6·9	− 3·3	+ 5·5	− 3·2	+ 6·2
22	− 1·6	+ 4·0	− 1·8	+ 4·7	− 0·4	+ 6·7	− 2·9	+ 7·1	− 3·3	+ 5·4	− 3·3	+ 7·3
23	− 1·4	+ 4·0	− 1·7	+ 4·6	− 0·2	+ 6·6	− 2·9	+ 7·3	− 3·2	+ 5·4	− 3·5	+ 7·3
24	− 1·9	+ 4·1	− 1·3	+ 4·8	0·0	+ 6·5	− 2·8	+ 7·1	− 3·4	+ 6·0	− 3·2	+ 7·1
Number of Days employed.	31		28		31		30		31		30	

Hour, Mauritius Civil Time.	July. North.	July. East.	August. North.	August. East.	September. North.	September. East.	October. North.	October. East.	November. North.	November. East.	December. North.	December. East.	Year. North.	Year. East.
Midnight	− 3·7	+ 6·7	− 3·7	+ 8·2	− 4·2	+ 7·6	− 3·2	+ 6·8	− 2·3	+ 5·6	− 2·1	+ 6·9	− 2·7	+ 6·4
1h	− 3·8	+ 6·2	− 3·2	+ 7·2	− 3·4	+ 7·1	− 3·2	+ 7·4	− 2·3	+ 5·5	− 2·0	+ 6·9	− 2·7	+ 6·2
2	− 3·7	+ 6·4	− 3·8	+ 8·3	− 3·9	+ 6·6	− 3·3	+ 7·3	− 2·7	+ 5·8	− 2·5	+ 6·9	− 2·8	+ 6·2
3	− 3·8	+ 6·6	− 3·6	+ 7·7	− 4·1	+ 6·3	− 3·3	+ 6·5	− 3·1	+ 5·6	− 2·5	+ 6·9	− 2·7	+ 6·0
4	− 3·6	+ 6·8	− 3·5	+ 7·6	− 4·2	+ 7·1	− 3·2	+ 6·7	− 2·9	+ 5·5	− 2·2	+ 6·8	− 2·7	+ 6·0
5	− 3·6	+ 6·4	− 3·8	+ 7·7	− 4·5	+ 6·5	− 3·2	+ 6·8	− 3·1	+ 5·5	− 2·6	+ 6·5	− 2·8	+ 6·0
6	− 3·8	+ 7·0	− 3·3	+ 7·4	− 3·8	+ 7·7	− 3·6	+ 7·2	− 3·0	+ 5·7	− 2·3	+ 6·6	− 2·8	+ 6·3
7	− 3·9	+ 6·0	− 3·7	+ 7·9	− 4·4	+ 8·1	− 4·0	+ 9·1	− 3·3	+ 8·4	− 2·7	+ 8·5	− 3·0	+ 6·9
8	− 4·6	+ 8·1	− 4·2	+ 11·2	− 3·8	+ 12·8	− 3·5	+ 13·2	− 1·0	+ 12·1	− 1·5	+ 12·9	− 2·7	+ 9·6
9	− 4·1	+ 9·9	− 3·7	+ 12·8	− 4·8	+ 13·1	− 3·4	+ 13·8	+ 0·8	+ 12·1	− 0·8	+ 13·2	− 2·2	+ 10·4
10	− 4·5	+ 13·6	− 4·5	+ 16·5	− 4·7	+ 15·3	− 3·3	+ 15·4	+ 1·2	+ 13·0	+ 0·6	+ 13·1	− 1·8	+ 12·2
11	− 4·4	+ 14·1	− 4·3	+ 16·1	− 3·8	+ 14·2	− 2·0	+ 15·4	+ 2·3	+ 12·8	+ 2·2	+ 12·6	− 1·2	+ 12·0
Noon	− 4·3	+ 14·7	− 4·2	+ 16·4	− 3·3	+ 14·6	− 2·6	+ 14·2	+ 3·1	+ 12·6	+ 1·6	+ 12·6	− 1·1	+ 12·1
13h	− 4·8	+ 15·1	− 3·7	+ 16·6	− 4·1	+ 13·9	− 1·6	+ 14·4	+ 1·9	+ 12·0	+ 0·9	+ 11·3	− 1·2	+ 11·8
14	− 4·1	+ 14·7	− 5·0	+ 16·7	− 5·6	+ 14·5	− 2·1	+ 14·0	+ 1·7	+ 12·4	+ 0·8	+ 11·1	− 1·7	+ 11·9
15	− 4·6	+ 13·5	− 4·4	+ 15·6	− 4·7	+ 14·9	− 2·9	+ 13·2	+ 0·6	+ 11·1	− 0·2	+ 10·7	− 2·1	+ 11·3
16	− 4·1	+ 12·9	− 5·4	+ 15·7	− 5·6	+ 14·7	− 3·3	+ 13·6	+ 1·5	+ 11·2	− 0·6	+ 11·0	− 2·4	+ 11·1
17	− 4·3	+ 10·0	− 3·7	+ 13·3	− 5·5	+ 13·4	− 3·4	+ 12·6	− 0·1	+ 9·6	− 1·0	+ 11·1	− 2·5	+ 9·5
18	− 3·7	+ 7·7	− 3·9	+ 10·6	− 4·8	+ 11·1	− 3·6	+ 10·3	− 1·3	+ 8·5	− 2·4	+ 11·1	− 2·7	+ 8·0
19	− 3·5	+ 6·6	− 3·4	+ 8·5	− 4·0	+ 8·6	− 3·0	+ 8·3	− 1·4	+ 6·1	− 2·3	+ 9·0	− 2·6	+ 6·7
20	− 3·5	+ 6·3	− 3·6	+ 8·7	− 5·1	+ 7·6	− 3·2	+ 7·5	− 1·7	+ 5·6	− 2·2	+ 8·0	− 2·7	+ 6·4
21	− 3·7	+ 6·6	− 3·4	+ 8·2	− 3·8	+ 8·1	− 3·5	+ 7·3	− 1·9	+ 5·4	− 2·1	+ 7·7	− 2·6	+ 6·4
22	− 2·8	+ 6·5	− 3·3	+ 8·3	− 4·0	+ 8·3	− 3·1	+ 7·4	− 1·9	+ 5·2	− 2·3	+ 7·3	− 2·6	+ 6·5
23	− 3·5	+ 6·7	− 3·1	+ 8·4	− 3·9	+ 7·9	− 3·3	+ 7·1	− 2·4	+ 5·2	− 2·4	+ 7·3	− 2·6	+ 6·5
24	− 3·8	+ 6·7	− 3·6	+ 8·3	− 4·3	+ 7·7	− 2·9	+ 6·6	− 2·3	+ 5·5	− 2·2	+ 7·1	− 2·7	+ 6·4
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.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Midnight	65	72	91	68	61	65	61	66	61	65	68	73	67
1h	61	69	87	66	59	64	59	66	64	67	67	74	66
2	60	72	87	64	59	63	60	65	59	66	65	70	66
3	61	78	90	69	59	61	60	65	57	63	61	70	66
4	65	75	89	60	59	62	62	65	59	65	62	72	66
5	65	74	87	60	64	61	61	64	55	65	61	68	65
6	71	74	86	63	64	61	61	66	64	63	62	71	65
7	68	74	86	65	61	64	57	65	61	66	69	72	66
8	80	81	89	70	62	63	60	69	74	75	85	83	74
9	85	89	96	72	70	67	67	74	70	76	94	86	78
10	90	104	106	76	74	69	72	75	73	78	95	93	82
11	95	112	105	79	75	73	73	75	75	83	100	100	84
Noon	102	109	106	76	76	77	74	76	77	80	104	97	85
13h	92	109	107	79	76	77	72	77	74	84	99	95	84
14	99	100	104	76	76	74	74	73	69	82	98	94	82
15	84	91	101	72	72	77	71	74	72	78	93	89	80
16	87	87	96	67	70	74	72	71	69	76	98	87	78
17	74	81	96	64	66	71	67	74	68	75	89	85	75
18	69	76	87	63	61	69	64	70	67	71	81	78	71
19	65	80	87	61	57	63	62	68	65	70	77	76	69
20	66	81	85	64	58	59	61	68	56	67	73	75	67
21	64	79	85	66	59	63	61	68	65	64	71	75	68
22	68	69	87	68	59	66	67	68	64	67	70	73	68
23	71	70	88	68	59	64	62	70	64	65	65	72	68
24	65	75	90	68	60	66	60	67	61	66	67	73	67
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. (MILES PER HOUR.)

Hour, Mauritius Civil Time.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Midnight	4·5	4·5	6·7	7·5	7·1	7·8	7·7	9·0	8·7	7·5	6·1	7·2	7·0
1h	4·3	4·4	6·4	8·0	6·9	7·7	7·3	7·9	7·9	8·1	6·0	7·2	6·8
2	4·2	4·2	6·4	7·4	6·8	7·6	7·4	9·2	7·7	8·0	6·4	7·4	6·8
3	4·1	4·2	6·6	6·7	6·6	7·1	7·6	8·5	7·5	7·3	6·4	7·4	6·6
4	4·0	3·8	6·5	7·0	6·2	7·0	7·7	8·4	8·3	7·5	6·2	7·1	6·6
5	4·3	4·2	6·1	7·3	6·6	7·3	7·3	8·6	7·9	7·5	6·3	7·0	6·6
6	4·0	4·7	6·5	7·4	7·1	7·5	8·0	8·1	8·6	8·0	6·5	7·0	6·9
7	4·7	4·3	6·3	7·2	7·5	8·0	7·2	8·7	9·2	9·9	9·0	8·9	7·5
8	6·9	5·3	8·9	9·2	8·3	8·8	9·3	12·0	13·4	13·7	12·1	13·0	10·0
9	6·3	5·1	10·2	10·6	10·2	10·2	10·7	13·3	14·0	14·2	12·1	13·2	10·7
10	6·5	5·1	12·6	12·5	12·7	12·4	14·4	17·1	16·0	15·8	13·1	13·1	12·3
11	7·0	3·7	12·0	12·3	13·2	12·7	14·8	16·7	14·7	15·5	13·0	12·8	12·1
Noon	6·1	4·9	11·7	12·4	13·6	13·6	15·3	16·9	15·0	14·4	13·0	12·7	12·2
13h	4·8	4·7	11·9	12·2	13·0	13·2	15·8	17·0	14·5	14·5	12·2	11·4	11·9
14	4·6	5·4	11·3	13·0	13·2	14·1	15·3	17·4	15·5	14·2	12·5	11·2	12·0
15	3·9	5·5	10·5	12·1	12·7	13·6	14·3	16·2	15·6	13·5	11·1	10·7	11·5
16	4·4	5·3	10·1	11·9	11·5	12·9	13·6	16·6	15·7	14·0	11·3	11·0	11·4
17	4·0	5·1	9·3	10·4	8·3	9·6	10·9	13·8	14·5	13·0	9·6	11·1	9·8
18	4·5	4·7	7·4	8·6	6·2	8·0	8·6	11·3	12·1	10·9	8·6	11·4	8·5
19	3·8	4·4	6·6	8·0	5·9	7·9	7·5	9·2	9·5	8·8	6·3	9·3	7·2
20	3·7	4·7	6·6	8·1	5·9	7·1	7·2	9·4	9·2	8·2	5·8	8·3	7·0
21	4·5	4·6	6·8	7·6	6·4	7·0	7·6	8·9	8·9	8·1	5·8	8·0	6·9
22	4·3	5·1	6·7	7·7	6·4	8·0	7·1	9·0	9·2	8·1	5·6	7·7	7·0
23	4·2	4·9	6·6	7·9	6·3	8·1	7·6	9·0	8·8	7·8	5·7	7·7	7·0
24	4·5	4·9	6·5	7·7	6·9	7·8	7·7	9·1	8·8	7·2	6·0	7·5	7·0
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	...

(lii) Velocity and Prevalence of each Wind : Comparison of Different Thermometer Exposures.

Monthly Mean Velocity of the Wind at every Hour of the Day, as recorded by the Beckley Anemograph. (miles per hour).

Hour, Mauritius Civil Time.	1903. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Midnight	6·6	6·0	8·2	8·1	7·3	8·6	8·2	9·5	9·2	8·3	6·8	8·0	7·90
1h	6·3	5·7	8·1	8·7	7·1	8·2	7·7	8·6	8·8	9·0	6·6	8·0	7·73
2	6·3	5·3	8·1	7·9	7·2	8·1	7·8	9·8	8·4	8·9	7·1	7·8	7·72
3	6·5	5·4	8·3	7·2	6·8	7·3	8·1	9·0	8·0	8·2	6·9	7·7	7·45
4	6·3	5·1	8·1	7·5	6·7	7·3	8·3	9·0	8·7	8·2	6·8	7·7	7·47
5	6·5	5·4	7·8	7·9	7·0	7·6	8·0	9·0	8·6	8·3	6·8	7·2	7·51
6	6·4	5·5	7·8	7·9	7·6	7·9	8·6	8·8	9·3	8·7	6·9	7·4	7·73
7	7·1	5·2	7·8	7·8	7·8	8·2	7·9	9·2	9·9	10·6	9·8	9·3	8·38
8	9·9	7·0	10·8	10·1	8·7	9·2	9·8	12·8	14·4	14·7	13·3	13·7	11·20
9	9·7	7·4	11·8	11·4	10·5	10·8	11·2	13·9	15·1	14·9	13·7	14·0	12·03
10	11·1	9·0	14·5	13·3	13·4	13·7	15·1	17·8	17·9	17·3	15·5	15·1	14·47
11	12·2	10·4	14·2	13·8	14·0	14·5	15·6	17·9	17·6	17·3	15·2	15·1	14·82
Noon	12·3	11·2	14·3	14·5	14·7	15·5	16·6	18·3	18·6	17·3	16·0	16·0	15·44
13h	11·7	11·1	14·1	14·0	14·0	15·0	17·1	18·4	18·0	17·4	15·3	15·0	15·09
14	12·4	11·7	14·3	14·6	14·1	15·8	16·7	18·9	18·9	17·5	15·7	15·2	15·07
15	11·2	11·2	13·0	13·4	13·4	15·2	15·5	17·9	17·3	16·4	14·6	14·8	14·49
16	11·1	10·1	12·8	13·0	12·2	14·4	14·4	17·6	17·2	16·1	14·5	14·5	13·99
17	9·4	8·7	11·4	11·2	8·7	10·4	11·6	14·6	15·7	14·8	12·8	13·6	11·91
18	8·6	7·5	9·3	9·2	6·5	8·6	8·9	11·8	12·7	11·8	10·8	12·7	9·87
19	6·6	6·6	8·2	8·5	6·4	8·7	7·7	9·7	10·2	9·6	7·6	10·0	8·32
20	5·8	6·5	7·9	8·6	6·4	7·8	7·5	9·9	9·8	9·0	7·0	8·9	7·92
21	6·3	5·9	8·1	8·2	6·9	7·4	8·0	9·4	9·8	9·0	6·7	8·7	7·87
22	6·1	6·1	8·0	8·3	6·6	8·3	7·8	9·4	9·9	8·9	6·2	8·4	7·83
23	5·9	6·1	8·1	8·6	6·8	8·5	8·0	9·5	9·6	8·4	6·6	8·4	7·87
24	6·6	6·4	8·1	8·3	7·1	8·5	8·2	9·6	9·3	8·1	6·7	8·2	7·92
Number of Days employed.	31	28	31	30	31	30	31	31	30	31	30	31	...

Number of Hours of Prevalence of each Wind referred to Different Points of Azimuth, as recorded by the Beckley Anemograph.

Month, 1903.	1903. 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.	hrs.	hrs.	hrs.	hrs.
January ...	27	6	17	70	143	214	58	19	0	5	61	22	7	21	34	34	6
February ...	20	35	34	118	110	131	58	32	10	7	37	36	15	14	3	8	4
March	15	18	58	193	177	196	22	8	14	1	7	7	4	9	4	11	0
April	3	10	9	67	175	330	66	47	6	0	0	2	1	3	1	0	0
May	0	0	8	35	169	370	101	41	15	3	0	0	1	1	0	0	0
June	0	2	11	45	170	345	80	38	9	4	7	6	2	1	0	0	0
July	4	0	12	43	168	380	95	30	6	3	0	1	0	1	0	1	0
August... ...	2	0	9	36	247	314	96	32	2	0	2	1	1	2	0	0	0
September ...	2	2	3	48	195	266	144	33	7	3	4	7	2	2	2	0	0
October ...	2	6	3	63	216	362	37	2	11	2	4	11	19	4	1	1	0
November ...	12	16	21	92	204	285	5	1	26	8	8	2	5	13	11	11	0
December ...	12	8	12	107	255	241	42	14	4	6	2	10	2	7	7	14	1
Totals ...	99	103	197	917	2229	3434	804	297	110	42	132	105	59	78	63	80	11

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 1903.

Month, 1903.	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	74·68	− 1·09	+ 0·96	82·58	+ 1·23	− 1·92	72·74	− 0·72	+ 0·06	76·82	+ 0·62	− 1·13
February	73·73	− 1·79	+ 1·45	82·59	+ 1·10	− 2·03	72·20	− 0·92	+ 0·69	77·11	+ 0·56	− 1·07
March	75·19	− 1·31	+ 1·07	82·64	+ 1·01	− 1·92	73·78	− 0·39	+ 0·53	76·90	+ 0·45	− 1·29
April	72·08	− 1·55	+ 1·60	79·47	+ 0·46	− 2·66	70·20	− 0·65	+ 0·73	73·93	+ 0·21	− 1·69
May	67·25	− 2·25	+ 2·18	77·90	+ 1·46	− 2·42	64·90	− 1·13	+ 1·07	69·67	+ 0·24	− 1·79
June	65·39	− 1·77	+ 1·72	75·37	+ 1·06	− 1·82	62·97	− 0·84	+ 0·85	67·47	+ 0·30	− 1·05
July	63·49	− 2·06	+ 1·49	74·10	+ 1·10	− 1·40	60·64	− 1·11	+ 0·60	64·86	+ 0·13	− 1·20
August	64·02	− 1·78	+ 1·44	73·03	+ 0·95	− 1·49	61·01	− 0·99	+ 0·67	64·77	+ 0·27	− 1·24
September	63·64	− 1·70	+ 0·92	73·71	+ 1·21	− 1·62	60·86	− 0·77	+ 0·57	64·48	+ 0·25	− 1·14
October	64·91	− 1·51	+ 0·92	75·47	+ 1·43	− 1·40	62·04	− 0·77	+ 0·09	66·40	+ 0·20	− 1·19
November	68·18	− 0·81	+ 0·06	80·31	+ 2·85	− 1·82	64·96	− 0·44	− 0·90	68·40	+ 0·66	− 1·13
December	71·22	− 0·72	0·00	80·98	+ 1·83	− 1·53	68·71	− 0·28	− 0·69	72·02	+ 0·59	− 0·77
Means ...	68·65	− 1·53	+ 1·15	78·18	+ 1·31	− 1·84	66·25	− 0·75	− 0·36	70·24	+ 0·37	− 1·22

Month, 1903.	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	89·0	+ 5·0	− 2·0	86·00	+ 3·40	− 2·39	66·6	− 0·8	+ 1·9	73·39	− 1·71	+ 1·31
February	87·8	+ 4·1	− 2·5	85·83	+ 3·22	− 1·91	68·8	− 3·5	+ 2·1	72·92	− 2·00	+ 1·81
March	87·6	+ 2·7	− 2·4	84·65	+ 1·97	− 2·84	70·8	− 2·4	+ 1·2	74·57	− 1·42	+ 1·54
April	84·6	+ 2·3	− 4·7	81·63	+ 1·64	− 3·76	62·8	− 5·3	+ 3·3	70·35	− 2·40	+ 0·69
May	81·8	+ 2·2	− 4·0	80·09	+ 2·80	− 3·65	58·5	− 3·9	+ 3·4	65·02	− 3·04	+ 2·83
June	79·6	+ 1·8	− 5·2	77·51	+ 2·08	− 3·41	56·5	− 4·3	+ 2·5	63·81	− 2·44	+ 1·98
July	79·4	+ 2·7	− 4·1	76·40	+ 2·53	− 2·87	55·1	− 4·7	+ 2·1	61·00	− 3·14	+ 1·95
August	78·7	+ 3·3	− 3·8	75·87	+ 2·79	− 3·31	56·3	− 4·4	+ 2·7	62·24	− 3·24	+ 1·86
September	80·5	+ 4·6	− 2·5	76·53	+ 3·17	− 2·76	55·4	− 5·5	+ 2·9	61·63	− 2·70	+ 1·88
October	82·0	+ 3·9	− 3·8	78·71	+ 3·62	− 3·33	57·2	− 3·3	+ 3·2	63·10	− 2·46	+ 1·44
November	88·4	+ 8·3	− 0·1	82·72	+ 4·91	− 3·28	60·1	− 1·9	+ 2·4	64·89	− 2·50	+ 1·49
December	88·2	+ 6·6	− 1·2	83·77	+ 3·92	− 2·89	65·4	− 1·3	+ 2·1	69·06	− 1·43	+ 0·23
Means ...	84·0	+ 4·0	− 3·0	80·81	+ 3·00	− 3·03	61·1	− 3·4	+ 2·5	66·83	− 2·37	+ 1·58

ABSTRACT of the PRINCIPAL CHANGES of the DIRECTION of the WIND, as derived from the RECORDS of the BECKLEY ANEMOGRAPH in the YEAR 1903.

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				
1. 8½	1.12	S.E.	W.		20
1.13	1.20½	W.	E.S.E.	18	
2. 7½	2. 9	E.S.E.	E.N.E.		4
2.12½		E.N.E.	W.S.W.		16
2.17½		W.S.W.	E.S.E.		12
3.12		E.S.E.	W.S.W.	12	
3.18½	4. 6	W.S.W.	E.S.E.		12
8. 7½	8. 9½	E.S.E.	E.N.E.		4
8.13½		E.N.E.	S.W.		18
8.16½	9. 8½	S.W.	E.		12
11.11	11.12	E.	W.S.W.	14	
11.18		W.S.W.	E.S.E.		12
15.13	15.15½	E.S.E.	S.W.	10	
15.16½	15.22	S.W.	E.S.E.		10
16. 0	16.10	E.S.E.	W.S.W.		12
18. 9	18.15½	W.S.W.	W.S.W.	32	
18.17	19.16	W.S.W.	E.S.E.		44
20. 2	20.20	E.S.E.	N.N.W.		12
21.6½		N.N.W.	N.W.		2
21.15	21.16	N.W.	W.N.W.		2
22.7½		W.N.W.	N.N.W.	4	
23. 6½	23. 8	N.N.W.	E.N.E.	8	
24.14	24.17	E.N.E.	E.S.E.	4	
29. 9½	30. 7½	E.S.E.	N.W.	18	
31.10	31.11½	N.W.	N.N.W.	2	
31.13½		N.N.W.	N.N.E.	4	
31.14	31.19	N.N.E.	S.W.		14
February.					
1. 9½	1.10	S.W.	W.N.W.	6	
1.10½	1.11	W.N.W.	W.S.W.		4
2. 8	2.13	W.S.W.	S.S.E.		8
4. 9	4.14	S.S.E.	E.	26	
14.10	14.23	E.	W.S.W.	14	
15.5½		W.S.W.	E.		14
15.10	15.18	E.	S.S.E.		26
16. 9	16. 9½	S.S.E.	W.S.W.	8	
18.2½		W.S.W.	E.S.E.		12
18. 8½	18. 9½	E.S.E.	W.N.W.	16	
18.15	18.17	W.N.W.	E.S.E.		16
19. 8½	19.11	E.S.E.	W.N.W.		16
Feb.—*cont.*					
d h					
19.13		W.N.W.	N.N.E.	8	
19.20		N.N.E.	E.S.E.	8	
d h	d h				
20. 9½	20.10½	E.S.E.	W.N.W.		16
20.11½	20.14½	W.N.W.	E.S.E.	16	
21.11	21.12	E.S.E.	N.N.W.	20	
21.14	22. 8½	N.N.W.	E.S.E.		20
23. 6	23.12½	E.S.E.	E.N.E.	24	
24.11	24.13½	E.N.E.	S.S.W.		20
24.14	24.16½	S.S.W.	N.	46	
24.21½		N.	E.S.E.	10	
25. 8½	25.10	E.S.E.	N.W.		18
25.11	25.13	N.W.	S.W.	24	
25.13½	25.14½	S.W.	E.		12
March.					
1.21½	2. 0½	E.	N.E.		4
2.9		N.E.	N.N.E.		2
3. 6½	3.11½	N.N.E.	N.N.W.		4
4. 2		N.N.W.	W.N.W.		4
4.11½		W.N.W.	W.S.W.		4
4.20½		W.S.W.	S.		6
5.10	5.11	S.	N.N.W.	14	
5.12½	6.11	N.N.W.	E.N.E.		24
6.13		E.N.E.	S.W.	14	
6.15½	6.16½	S.W.	E.S.E.		10
April.					
4. 9	4.16	E.S.E.	N.N.E.		8
5. 0	5. 1	N.N.E.	E.N.E.	4	
5. 7½	5. 9	E.N.E.	S.		22
April—*cont.*					
d h					
5.11		S.	W.N.W.	10	
5.16½		W.N.W.	E.S.E.	16	
5.23½		E.S.E.	S.S.E.	4	
d h	d h				
22. 9½	22.10½	E.	N.N.E.		6
22.14½		N.N.E.	S.S.E.	12	
22.16½	22.17	S.S.E.	E.S.E.		4
May.					
8.10½	8.15	E.S.E.	S.S.W.	8	
8.17½	9. 0	S.S.W.	E.S.E.		8
9. 6½		E.S.E.	S.S.E.	4	
9.12		S.S.E.	W.N.W.	12	
9.15		W.N.W.	S.E.		14
10. 6½		S.E.	S.S.E.	2	
June.					
13. 9½	13.15	E.S.E.	N.N.E.		8
13.20	13.21½	N.N.E.	E.S.E.	8	
14. 8½	14. 9½	E.S.E.	W.S.W.	12	
14.16½	15. 2½	W.S.W.	S.S.E.		8
23. 9½	23.11½	E.S.E.	N.E.		6
23.13½	23.23½	N.E.	W.S.W.	18	
24.1½		W.S.W.	S.S.E.		8
24.10	24.14½	S.S.E.	S.S.W.	36	

ABSTRACT of the PRINCIPAL CHANGES of the DIRECTION of the WIND, as derived from the RECORDS of the BECKLEY ANEMOGRAPH in the YEAR 1903.—*concluded.*

Mauritius Civil Time. From	Mauritius Civil Time. To	Change of Direction. From	Change of Direction. To	Amount of Motion. Direct.	Amount of Motion. Retrograde.
				points.	points.
July.					
d h	d h				
18.12	18.14½	E.S.E.	W.N.W.		16
18.15½	18.16½	W.N.W.	E.S.E.	16	
19. 9½	19.11	E.S.E.	E.N.E.		4
20.7		E.N.E.	E.S.E.	4	
20.11	20.11½	E.S.E.	W.	14	
20.12½	20.14½	W.	N.		24
20.17½	21. 3	N.	S.S.W.	18	
21.9½		S.S.W.	S.S.E.		4
August.					
1. 8½	1.12	E.S.E.	N.E.		6
1.20½	2. 0	N.E.	S.E.	8	
2.10	2.16½	S.E.	N.		44
2.18½	2.19½	N.	S.S.E.	14	
September.					
5. 8½	5.10½	E.S.E.	W.S.W.	12	
5.14½	5.20	W.S.W.	S.S.E.		40
6. 7	6. 8	S.S.E.	S.E.		2
7.11	7.11½	S.E.	N.W.	16	
7.11¾	7.14	N.W.	E.S.E.		18
7.16½	8. 6	E.S.E.	S.S.E.	4	
8. 9½	8.12	S.S.E.	N.N.E.		44
8.12	8.15	N.N.E.	S.S.E.	12	
9.10½	9.11½	S.S.E.	W.S.W.	12	
9.13½	9.16½	W.S.W.	S.E.	22	
19. 9	19.11	E.S.E.	W.S.W.		20
19.14½	19.17½	W.S.W.	N.N.E.		20
Sept.—*cont.*					
d h	d h				
19.19	19.21½	N.N.E.	S.S.W.	16	
20. 3	20. 6	S.S.W.	S.E.		6
October.					
5.13	5.13½	E.S.E.	W.S.W.	12	
5.19	5.22	W.S.W.	S.		6
6.10		S.	W.	8	
6.17		W.	E.S.E.		14
8.10½	8.11	E.S.E.	E.S.E.	32	
8.11½	8.12½	E.S.E.	N.W.		14
8.12½	8.13	N.W.	N.N.E.	6	
8.20½		N.N.E.	E.S.E.	8	
9. 7½	9.10½	E.S.E.	W.N.W.		16
10. 8½	10.10	W.N.W.	E.	14	
10.13		E.	E.N.E.		2
10.19	11. 5	E.N.E.	E.S.E.	4	
11.11½		E.S.E.	W.S.W.	12	
11.15½		W.S.W.	E.S.E.		12
November.					
23. 7½	23. 9	E.S.E.	E.N.E.		4
23.15	23.18½	E.N.E.	S.		22
24. 7	24.18	S.	S.		32
25. 7	25.16	S.	W.N.W.		22
25.21	26. 2	W.N.W.	E.S.E.	16	
26. 6½	26.14½	E.S.E.	N.		10
26.16½	27. 3	N.	E.	8	
27. 7	27.12	E.	N.N.W.		10
27.20½		N.N.W.	S.W.		10
28. 7½		S.W.	N.N.W.	10	
Nov.—*cont.*					
d h	d h				
28.11½	28.13½	N.N.W.	W.S.W.		8
28.14½	28.23½	W.S.W.	E.S.E.	20	
29.8½		E.S.E.	E.		2
29.11½	29.22	E.	E.S.E.	34	
30. 7½	30.13½	E.S.E.	N.N.E.		8
30.16½	30.20	N.N.E.	E.N.E.	8	
December.					
1. 7½	1.13½	E.N.E.	N.N.W.		8
2.1½		N.N.W.	E.N.E.	8	
2. 9½	2.11½	E.N.E.	N.N.W.		8
2.17	3. 5½	N.N.E.	E.	6	
3.9½		E.	N.N.E.		6
3.13	3.16	N.N.E.	W.N.W.		8
3.17	3.18	W.N.W.	E.S.E.	16	
4. 7½	4. 9	E.S.E.	E.N.E.		4
4.13½	4.14½	E.N.E.	W.	18	
4.15½	4.21½	W.	S.E.		12
5.7		S.E.	E.N.E.		6
5.10½	5.17½	E.N.E.	S.E.		26
6.9½		S.E.	W.		20
6.12	6.13½	W.	W.S.W.	30	
6.15½	6.16½	W.S.W.	S.E.		12
7.10	7.11	S.E.	W.N.W.	18	
7.13	7.19½	W.N.W.	S.	22	
8.2½		S.	S.E.		4
8. 9	8. 9½	S.E.	E.		4
8.11	8.17½	E.	W.	48	
8.17½	8.18½	W.	E.S.E.		14
10. 7½	10. 9½	E.S.E.	E.N.E.		4
10.10	10.15½	E.N.E.	S.S.W.	12	
10.17		S.S.W.	E.S.E.		8
11.10½	11.16	E.S.E.	S.W.	10	
11.17	11.19	S.W.	E.S.E.		10

(lvi) Actinometric Observations made at the Royal Alfred Observatory, Mauritius, in the Year 1903.

Month and Day, 1903.	Mean Heating Effect (P).	Mean Altitude of Sun.	Height of Barometer.	Relative Humidity.	Aspect of Sky.	Coefficient of Transmissibility. (x).
	°	° ′	ins.	%		
January 21	9·38	89· 2	29·640	70	2	·808
February 18	9·46	81·47	29·764	72	2	·825
26	9·44	78·42	29·776	92	2	·827
March 13	9·16	72·56	29·697	66	2	·813
31	9·44	65·55	29·858	65	2	·853
April 13	9·15	61· 7	29·771	67	2	·840
20	8·95	55·32	29·804	79	2	·836
May 5	9·01	53·51	29·838	64	2	·849
18	9·03	50·28	29·841	54	2	·861
27	8·50	48·41	29·959	52	2	·829
June 20	8·75	46·21	29·946	50	1	·855
July 1	8·87	46·32	29·914	50	2	·863
4	8·86	46·45	29·961	51	3	·863
17	9·17	48·22	29·884	49	2	·881
July 22	9·12	49·12	29·980	53	2	·876
24	9·30	49·35	30·037	43	2	·888
August 1	9·25	51·26	29·979	43	1	·880
September 5	9·09	62·27	29·910	51	2	·843
21	9·57	68· 8	29·974	51	2	·869
30	9·39	71·58	29·996	46	3	·847
October 9	9·82	75·15	29·927	43	2	·877
10	9·44	75·55	29·958	48	2	·844
20	9·61	79·33	29·919	55	3	·832
27	10·06	81·54	29·915	42	2	·881
November 7	10·15	85·17	29·914	42	2	·889
12	10·10	86·42	29·967	43	2	·882
21	10·11	88·54	29·889	48	2	·879
December 4	9·92	87·29	29·759	53	2	·862
10	9·82	86·32	29·752	53	3	·850
15	9·90	86·27	29·811	50	2	·854
29	9·80	85·47	29·893	57	3	·845

Each observation furnishes an equation of the form—

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

where x is the coefficient of transmission of a ray from a zenith sun through the atmosphere when its pressure is equivalent to 30 inches of mercury ; P, the observed heat ; P_0 the original 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 ; and δ the secant of the sun's zenith distance.

Even assuming this formula to be correct for composite rays, it is further necessary, in combining two observations for the determination of P_0 and x, to assume that these quantities and the sensibility of the instrument are the same in both observations ; but as all three are variable a mean value of P_0 (11°·21), derived from 17 years observations has been used in computing the values of x given in the above table, which are therefore affected by variations in P_0 and in the sensibility of the instrument.

In the column headed " Aspect of Sky " the figure 1 indicates deep blue, 2 blue, and 3 light blue.

APPROXIMATE ALTITUDES OF RAINFALL STATIONS and the NAMES of OBSERVERS.

District.	Station.	Observer.	Altitude.	Reference Number of Station.
			Feet.	
Rivière du Rempart.	St. Antoine... ...	R. de Chazal ...	50	1
	Bel Mont	R. de Chazal ...	50	2
	Poudre d'Or ...	R. de Chazal ...	20	3
	Mon Loisir (R) ...	H. Rouillard ...	300	4
	Mon Loisir ...	E. Alizart ...	300	5
	Labourdonnais ...	A. Wiéhé ...	290	6
	Beau Séjour ...	W. P. Ebbels ...	300	7
	Mon Choix... ...	W. P. Ebbels ...	700	8
	Mont Piton ...	W. P. Ebbels ...	860	9
	Antoinette	G. Martin ...	640	10
	Mon Songe... ...	W. P. Ebbels ...	620	11
Pamplemousses.	Botanical Gardens...	P. Kœnig ...	225	12
	The Observatory ...	T. F. Claxton ...	179	13
	Beau Plan	E. D'Unienville ...	195	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. Sumeire, C.M.G.	18	18
Flacq.	Beau Bois Estate ...	E. Wilson ...	500	19
	Constance d'Arifat...	P. Adam ...	100	20
	Union Régnard ...	A. Marquay ...	600	21
	Beau Champ ...	S. R. Cochran ...	20	22
	Sans Souci	F. Montocchio ...	910	23
	Olivia	L. Bulau... ...	400	24
	Etoile	C. Barlow ...	400	25
Moka.	The Bower	C. F. Shand ...	1,080	26
	Gentilly	H. Telfair ...	1,150	27
	Bon Air Estate ...	E. Blandin de Chalain.	1,050	28
	Lynnwood	H. Stein	1,100	29
	Alma, Verdun ...	Hon. H. Léclézio, C.M.G.	1,460	30
	Le Réduit Gardens...	P. Kœnig ...	1,000	31
	Val Ory	G. Régnard ...	1,100	32

District.	Station.	Observer.	Altitude.	Reference Number of Station.
			Feet.	
Plaines Wilhems.	The Manse, Beau Bassin.	Rev. G. Mc Irvine M. A.	850	33
	Villa Fantaisie ...	H. Ducray ...	830	34
	Trianon	E. Lagesse ...	950	35
	Salency (Rose Hill)..	A. Boulé... ...	923	36
	Military Camp, (Vacoas)	Capt. J. Matheson, R.E.	1,370	37
	Bernica, (Vacoas) ...	E. Mayer ...	1,615	38
	Réunion, (Vacoas)...	H. Robinson ...	1,420	39
	Curepipe Gardens ...	P. Kœnig ...	1,840	40
	Mare-aux-Vacoas ...	P. Lejuge de Segrais, A.M.I.C.E.	1,850	41
Black River.	Albion Estate ...	G. R. Lagane ...	30	42
Grand Port.	Ferney	G. Antelme ...	20	43
	Cent Gaulettes ...	A. Ducray ...	800	44
	Cluny Estate ...	J. Desplaces ...	1,000	45
	Riche-en-Eau ...	P. de St. Romain..	1,200	46
	Union Park Estate...	E. Lemaire ...	900	47
	Astrœa	A. Daniel ...	700	48
	Beau Vallon ...	L. Daruty de Grand Pré.	60	49
	Gros Bois	G. D'Unienville...	500	50
Savanne.	Colmar	A. Constantin ...	400	51
	Beau Bois	E. Labat ...	350	52
	Britannia	T. N. Innis ...	730	53
	Bénarès (Residence).	A. Constantin ...	300	54
	Bénarès (Sugar House).	A. Constantin ...	200	55
	St. Aubin	E. Labat ...	300	56
	Union Bel Air ...	E. de St. Félix ...	90	57
	Terracine	O. Pilot	50	58

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1903.

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	10·92	17	3·40	13	7·44	19	9·78	19	2·17	10	2·01	13	1·52	11	2·03	8
2	12·70	19	3·91	12	9·54	22	13·79	19	2·60	12	3·14	15	1·14	8	1·32	9
3	13·39	16	4·55	9	8·40	18	12·53	14	2·52	9	3·15	11	1·46	6	1·58	8
4	9·43	16	3·97	17	5·68	19	10·74	15	0·99	7	1·88	9	1·52	9	1·81	12
5	...	...	...	...	...	...	...	...	...	...	...	...	1·12	11	1·60	13
6	8·78	13	4·11	11	7·24	18	9·05	14	1·52	6	2·03	6	0·48	3	1·09	4
7	11·63	13	6·51	13	9·26	18	10·60	20	1·58	9	2·29	13	1·01	9	2·07	10
8	13·39	12	6·63	11	9·25	17	9·65	16	2·07	7	2·75	9	0·85	3	1·87	6
9	12·70	13	8·00	12	10·15	20	12·55	20	2·23	8	3·65	13	1·10	6	3·20	13
10	14·42	18	6·78	14	10·10	17	14·00	16	1·82	5	3·54	11	0·74	7	2·46	7
11	14·55	15	5·45	11	14·09	24	15·34	19	2·82	11	3·34	16	1·16	12	2·42	11
12	11·25	18	6·94	15	8·92	24	7·79	21	1·78	12	2·64	15	1·38	16	2·06	13
13	9·26	18	6·00	16	7·49	22	6·18	22	0·94	12	1·98	16	1·52	16	1·77	19
14	10·80	...	18·25	...	5·64	...	6·55	...	0·81	...	1·65	...	1·61	...	1·99	...
15	13·43	17	9·08	16	10·13	23	14·08	18	2·31	6	2·85	11	1·29	7	3·12	10
16	14·74	18	8·02	14	13·81	21	16·52	20	2·70	5	2·99	10	1·42	6	2·70	8
17	11·42	15	9·19	20	12·35	18	8·44	19	...	...	...	...	...	...	...	...
18	6·81	13	4·04	11	5·80	10	4·52	9	1·22	4	0·44	3	0·29	2	...	...
19	15·22	18	5·93	15	14·07	21	17·13	19	...	...	...	...	...	...	...	...
20	19·00	15	4·53	11	14·13	20	21·13	19	2·83	8	4·20	11	1·03	4	1·35	6
21	15·92	13	5·20	...	13·89	...	15·95	...	5·06	...	4·06	...	1·45	13	2·51	11
22	12·46	...	5·58	...	9·35	...	12·08	...	1·15	...	3·37	...	0·96	...	2·07	...
23	22·17	18	10·63	17	23·65	24	24·02	24	4·04	12	8·89	17	2·97	10	8·04	21
24	14·10	21	4·99	15	13·33	22	14·29	17	1·80	8	3·80	18	1·04	12	4·49	21
25	16·65	20	6·94	18	19·42	28	21·73	22	3·15	12	7·01	17	2·24	10	5·51	17
26	10·95	20	8·04	17	10·93	22	8·02	18	1·02	14	2·21	17	1·71	16	2·61	20
27	12·71	17	8·81	11	10·54	15	10·03	14	1·24	7	2·56	9	1·66	6	3·32	9
28	11·17	18	7·77	13	9·78	19	8·91	12	0·52	4	1·97	10	1·42	8	2·47	9
29	11·49	15	8·28	13	11·83	21	9·88	13	0·71	6	1·99	12	1·65	11	2.90	17
30	18·41	25	8·88	26	14·63	28	19·62	23	2·71	14	5·92	23	2·71	17	6·73	24
31	9·70	19	6·09	18	8·75	23	7·32	19	0·71	9	1·41	13	1·49	13	2·17	20
32	11·04	24	8·57	21	10·61	25	7·76	22	0·73	13	1·88	24	1·44	24	2·22	23

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1903—*continued.*

Reference Number of Station.	September.		October.		November.		December.		Total Rainfall in 1903.		Average Annual Rainfall.		Number of years employed.		Greatest Daily Rainfall in the year 1903.	
	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.	
1	1·49	14	1·51	14	0·93	4	0·78	8	43·98	150	48·92	129	35	4	4·90	Jan. 14
2	1·15	10	2·17	14	1·89	6	1·23	6	54·58	152	59·30	124	8	8	5·08	Jan. 14
3	1·40	7	0·17	2	1·10	3	1·36	5	51·61	108	52·46	118	17	17	4·75	Jan. 14
4	2·11	15	1·76	9	1·27	7	1·58	6	42·74	141	49·87	138	11	11	5·27	Jan. 15
5	2·64	18	1·77	17	0·97	7	3·58	14	...	...	...	...	...	...	...	...
6	0·94	3	0·77	6	0·70	2	1·81	7	38·52	93	62·22	132	41	42	4·07	Jan. 15
7	2·93	12	2·11	16	0·42	5	3·37	11	53·78	149	76·80	145	23	3	4·67	Jan. 15
8	2·31	7	1·79	8	0·77	3	4·64	8	55·97	107	64·23	106	3	3	5·00	Jan. 15
9	3·15	9	2·05	12	0·40	2	5·10	10	64·28	138	71·05	142	3	3	4·65	Jan. 15
10	2·79	10	1·84	12	0·67	3	6·04	13	65·20	133	67·05	169	13	11	4·80	Apr. 22
11	3·66	15	2·96	20	1·35	8	6·09	16	73·23	178	72·99	164	21	21	5·49	Jan. 15
12	1·83	16	1·50	16	0·70	7	3·55	17	50·34	190	62·40	169	36	36	3·54	Jan. 15
13	1·66	20	1·20	18	0·96	8	2·74	21	41·70	208	47·77	199	29	29	3·49	Jan. 15
14	1·77	...	1·56	...	0·52	...	3·38	...	54·53	...	49·89	111	18	16	...	...
15	2·87	12	3·17	17	1·25	3	7·42	15	71·00	155	71·50	155	23	22	4·30	Jan. 14
16	3·33	11	3·22	14	0·96	2	6·86	14	77·27	143	77·03	132	11	11	5·07	Apr. 22
17	...	...	...	...	...	...	...	...	...	...	52·18	138	7	7	...	...
18	...	...	...	...	0·30	1	3·31	6	...	...	35·92	75	8	8	...	...
19	...	...	...	...	...	...	...	...	...	...	68·80	184	9	9	...	...
20	1·60	9	2·22	11	1·65	4	2·90	7	76·57	125	62·91	154	18	8	9·00	Apr. 23
21	2·05	9	2·12	12	1·99	7	3·75	10	73·95	...	72·60	181	27	18	5·79	Jan. 14
22	1·56	...	0·86	...	1·61	...	1·61	...	52·66	...	52·24	161	14	2	...	...
23	6·29	19	6·00	11	1·97	4	7·12	8	125·79	185	128·97	202	20	16	7·50	Jan. 14
24	3·78	19	1·99	14	1·67	6	2·52	12	67·80	185	67·26	173	7	7	6·41	Apr. 22
25	4·84	20	3·22	15	2·02	7	4·54	13	97·27	199	101·79	198	22	19	6·70	Jan. 15
26	2·74	18	2·03	16	1·25	10	5·06	17	56·57	204	66·43	257	17	17	3·18	Apr. 23
27	3·65	7	2·54	12	1·36	4	4·42	13	62·84	124	79·94	195	29	29	3·88	Apr. 23
28	2·81	5	1·02	6	1·47	4	4·72	10	54·03	118	65·21	176	20	20	4·01	Apr. 22
29	2·59	12	2·14	17	1·08	6	5·10	13	59·64	156	74·23	154	11	2	4·03	Apr. 23
30	5·80	24	5·00	23	1·99	10	6·78	20	99·18	257	126·85	253	31	28	6·81	Apr. 22
31	1·50	17	1·27	17	1·28	8	4·16	15	45·85	191	57·76	188	17	16	3·31	Apr. 23
32	2·57	23	1·87	25	1·00	11	4·54	21	54·23	256	55·00	218	4	4	3·06	Apr. 23

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1903.—*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.	
33	8·83	17	5·92	12	6·33	23	6·47	16	0·58	8	1·20	13	1·10	13	1·69	19
34	9·14	17	6·45	14	6·19	22	6·49	14	0·48	6	1·37	13	1·35	14	1·79	19
35	10·30	16	8·21	12	9·54	19	10·06	14	1·30	6	1·63	5	1·23	5	2·47	6
36	10·28	17	8·72	14	8·77	19	7·87	20	0·42	4	1·15	11	1·03	9	1·20	9
37	15·02	17	9·63	16	9·87	22	10·46	23	2·17	12	3·34	19	2·04	16	2·50	15
38	17·92	16	9·30	13	12·61	13	9·03	10	1·66	6	3·95	12	2·13	5	5·12	12
39	17·52	18	9·62	23	12·09	24	10·41	22	2·05	15	4·37	18	2·31	11	5·22	16
40	20·36	22	12·16	22	15·32	27	16·23	24	3·11	21	6·47	24	3·17	23	7·77	23
41	22·80	23	16·37	23	14·45	29	18·16	28	4·22	18	9·16	23	4·75	20	12·02	23
42	10·91	15	3·04	9	4·34	10	3·63	8	0·51	3	0·57	3	0·20	1	0·26	4
43	20·19	20	7·12	16	14·83	19	18·41	21	1·69	10	6·54	16	1·11	9	2·47	15
44	20·37	...	14·17	...	20·07	...	23·15	...	2·54	...	6·47	...	1·53	...	8·03	...
45	21·68	25	10·90	22	19·67	31	19·94	28	4·57	24	7·63	26	4·14	30	8·01	29
46	15·44	22	7·13	19	16·47	26	18·35	22	1·76	12	6·01	19	2·83	15	3·59	19
47	18·07	26	12·66	22	15·47	30	23·40	26	2·89	13	7·48	19	3·61	19	7·90	23
48	16·46	24	7·46	22	16·74	28	22·36	28	2·42	16	6·67	20	1·46	19	3·94	25
49	8·58	18	3·34	15	8·93	19	11·01	17	0·64	11	4·21	20	0·92	13	2·06	18
50	18·96	20	7·24	14	14·11	27	18·84	22	2·31	11	6·76	17	2·26	13	3·11	11
51	16·21	23	8·06	20	11·34	24	20·56	24	2·94	14	7·66	19	1·72	18	4·40	21
52	17·03	20	12·57	15	10·77	21	21·15	23	3·76	10	8·33	18	2·11	10	5·69	16
53	24·69	18	10·36	14	10·64	22	24·50	19	2·37	8	5·60	12	1·87	7	7·91	13
54	15·28	23	6·64	17	9·48	23	19·15	24	2·46	14	6·27	17	1·32	15	2·94	20
55	14·05	18	5·70	15	9·34	19	19·40	20	1·92	10	5·49	14	1·21	11	2·80	15
56	13·42	22	5·26	21	8·07	25	19·48	24	1·89	12	5·90	18	1·26	11	2·72	15
57	11·83	16	5·62	17	10·91	24	10·86	21	1·85	10	6·36	17	0·74	6	2·93	11
58	10·27	14	3·39	14	5·28	19	11·40	17	0·83	8	3·60	13	0·46	7	1·27	10

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1903—*concluded.*

Reference Number of Station.	September.		October.		November.		December.		Total Rainfall in 1903.		Average Annual Rainfall.		Number of years employed.		Greatest Daily Rainfall in the year 1903.	
	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.	
33	1·08	12	1·01	13	1·21	7	4·63	14	40·05	167	48·26	170	7	7	3·47	Apr. 23
34	1·17	11	1·17	16	1·03	3	4·53	15	41·16	164	47·41	140	7	7	3·37	Apr. 22
35	1·74	6	1·43	3	1·30	1	3·57	7	52·78	100	63·11	186	37	35	4·42	Apr. 23
36	1·18	6	1·59	12	1·36	4	3·30	9	46·87	134	56·14	140	6	6	2·80	Jan. 15
37	3·12	18	3·61	21	2·49	9	4·18	23	68·43	211	89·28	232	3	3	3·75	Apr. 23
38	3·86	4	3·78	7	2·34	5	3·24	8	74·94	111	88·01	...	3	3	5·00	Jan. 14
39	4·56	19	4·28	18	2·27	6	3·37	15	78·07	205	87·61	228	26	23	4·10	Jan. 15
40	5·69	23	5·16	24	3·96	14	6·38	23	105·78	270	125·41	274	20	20	4·95	Jan. 15
41	6·98	18	6·29	21	0·79	7	4·61	18	120·60	251	141·50	248	15	15	4·80	Jan. 15
42	0·26	3	0·20	3	1·29	3	2·95	6	28·16	68	31·96	80	10	10	3·17	Jan. 8
43	3·01	18	2·13	13	2·89	5	3·40	13	83·79	175	90·32	183	26	26	6·37	Apr. 23
44	5·97	...	3·77	...	1·37	...	9·94	...	117·38	...	133·67	236	23	3	...	...
45	7·80	29	4·63	26	1·70	15	8·99	29	119·66	314	143·84	240	40	40	6·22	Jan. 15
46	4·89	18	2·29	16	1·75	8	6·12	18	86·63	214	89·19	237	26	22	5·65	Jan. 15
47	6·40	24	4·86	23	2·16	6	6·69	22	111·59	253	122·00	233	10	10	5·65	Apr. 22
48	4·03	26	1·88	18	2·33	8	9·75	18	95·50	252	105·22	224	22	19	5·10	Apr. 22
49	2·35	15	0·68	9	1·97	8	1·40	11	46·09	174	63·34	204	39	38	5·85	Apr. 23
50	5·12	20	2·48	13	1·70	6	4·56	14	87·45	188	96·31	200	40	40	6·20	Apr. 23
51	3·48	24	2·48	19	0·95	7	4·03	21	83·83	234	92·74	192	32	32	5·14	Apr. 6
52	5·30	19	4·30	16	1·12	6	6·53	17	98·66	191	100·54	193	7	7	5·60	Jan. 15
53	6·36	17	2·39	9	0·77	3	4·77	19	102·23	161	97·77	178	18	6	8·52	Jan. 14
54	3·20	21	2·05	15	1·11	6	2·44	15	72·34	210	68·80	183	18	17	5·53	Apr. 23
55	2·34	16	1·39	14	0·67	4	1·79	10	66·10	166	69·86	162	12	11	5·71	Apr. 23
56	2·14	17	1·86	16	1·15	6	3·23	16	66·38	203	81·07	214	36	36	4·95	Apr. 5
57	1·71	8	2·25	9	0·60	2	2·01	7	57·67	148	76·09	155	35	35	3·52	Jan. 14
58	0·92	10	1·05	6	1·30	4	1·98	4	41·75	126	59·19	132	15	14	3·40	Apr. 11

The Mean Rainfall at 54 Stations during the year 1903 was 69·61 inches against an average of 78·02 inches.

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APPENDIX.

RESULTS

OF

SEISMOLOGICAL OBSERVATIONS.

1903.

APPENDIX.

RESULTS

OF

SEISMOLOGICAL OBSERVATIONS,

1903.

The instrument used for the registration of unfelt earth movements is of the Milne 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 the year 1896. Details of installation are given in the Introduction to this volume.

Particulars of 80 Earthquakes recorded in the year 1903 are given on pages (lxviii) to (lxix).

On 1902 February 7, a second pendulum was added to the pillar, for the registration of earth movements in a North-South direction, and arranged to record on the same strip of paper as the original pendulum which registers the East-West component. The new pendulum is mounted on the eastern side of the pillar ; it is 125 m.m. long and at its outer end carries a solid cylinder of brass weighing about five ounces. The other end is fitted with an agate cup, which pivots upon a steel point, the latter projecting nearly horizontally from an iron block clamped to the base of the pillar. The pendulum is supported by a thin silver wire terminating in a silk thread which passes over an endless screw to a small windlass, both attached to the head of the pillar ; the former serves for adjustment in azimuth and the latter for adjustment in altitude.

With only one pendulum, adjustment in azimuth is readily made by a finely threaded foot screw ; but with two pendulums the adjustment should be made without altering the level of the bed plate. In the second (North-South) pendulum, the maker made provision for this by leading the suspension thread over a grooved bar, movable laterally by pulling screws ;

but as this method was not sufficiently delicate, an endless screw was substituted for the bar and pulling screws. (On 1902 February 22, a similar device was fitted for the East-West pendulum).

The recording index is a tapering aluminium boom, 1·068 metres long, securely fixed at right angles to the pendulum proper at a point 20 m.m. from the pivot end of the latter, and 115 m.m. from the south end of the former ; it thus lies parallel with the East-West boom. At its northern end it carries a black horizontal disc of aluminium, 20 m.m. long and 15 m.m. wide,* pierced with a fine slit in a North-South direction. The boom is counterpoised by a small weight at its southern extremity and stayed by a silk thread running North and South from a slender mast fixed to the cross joint. This mast, which can be clamped at any azimuth, furnishes an additional adjustment in altitude ; the end of the boom rising or falling as the silk is twisted or untwisted round the mast.

The centre of gravity is 80 m.m., the centre of the brass weight 107 m.m., the point of suspension 74 m.m., and the point of registration 953 m.m., from the agate cup. (The corresponding distances in the East-West pendulum are 110, 100, 127, and 957 m.m., respectively).

In addition to earthquake movements the instrument records gradual changes of level, for the study of which the seismogram ordinates are measured at every hour of the day (commencing with Greenwich Mean Midnight until May 30 and subsequently Mauritius Mean Midnight). To facilitate measurement, and to insure accuracy, a scale is photographed on the register by means of fine threads inserted at every second millimetre, those at 10, 30 and 50 millimetres being duplicated and at 0, 20, 40 and 60 millimetres triplicated.

For converting the scale readings into angular measure it was formerly the practice to tilt the bed plate through a small angle, by means of the finely threaded foot screw, and note the corresponding displacement on the photograph ; but with two booms this method is objectionable for various reasons. Even with one boom it was not altogether satisfactory ; in spite of the precautions taken to ensure accuracy the probable error of observation was frequently 10% of the observed quantity, and occasionally much greater than this. Moreover, on account of the spontaneous variations in the sensibility which occur from time to time, it is necessary to determine the scale value at short intervals, thus causing frequent dislocations which tend to vitiate the registers. Throughout the year 1903, therefore, the scale value has been determined by noting the time of vibration of the boom either from direct observation or by measuring, on the seismograms, the time interval between a given number of vibrations, as the booms come to rest after disturbance produced by the daily trimming of the lamps &c.

The results of the observations made to establish the relation between the scale value and the time of vibration of the booms, are given in the Volume of Observations for 1902 :

The formulæ used throughout the year 1903 were :—

$$\delta = \cdot 0407/\tau^2 - \cdot 028 \quad \text{for the North–South boom}$$
$$\delta = \cdot 0372/\tau^2 - \cdot 125 \quad \text{for the East–West boom}$$

where δ is the angular value (in seconds of arc) of 1 mill of ordinate and τ the time of vibration (in minutes).

* The disc of the East-West boom has been reduced to nearly the same width.

The Scale values thus found were as follows :—

Month and Day, 1903.		Value of 1 m.m. of ordinate. N.-S. Boom.	Value of 1 m.m. of ordinate. E.-W. Boom.
	d	"	"
January ...	7	1·02	0·64
	8	0·97	0·42
	10	1·02	0·43
	11	1·02	0·38
	13	1·02	0·43
	17	0·62	0·58
	18	...	0·74
	20	0·40	...
	21	0·57	...
	22	0·71	...
	24	...	0·66
	30	...	0·66
February ...	3	0·80	0·66
	18	0·92	0·79
	19	0·52	...
	20	0·81	...
	22	...	0·98
	25	...	1·00
March ...	1	0·86	0·60
	15	...	0·50
	17	...	0·27
	20	...	0·27
	27	...	0·31
	28	...	0·27
	29	...	0·27
April ...	2	0·83	...
	3	...	0·36
	4	0·74	0·27
	6	0·74	0·27
	8	0·85	...
	9	1·15	0·30
	15	0·74	...
	17	0·85	0·31
	18	...	0·27
	21	0·74	0·27
	23	0·74	0·24
	25	0·74	0·27
	30	0·66	0·49
May ...	4	...	0·25
	5	0·26	0·46
	6	0·48	0·36
	7	0·26	...
	8	0·40	0·26
	9	0·56	...
	10	0·44	0·36
May ...	11	0·19	0·20
	12	0·29	0·31
	13	0·15	0·16
	14	1·15	...
	15	0·90	0·22
	18	...	0·22
	20	...	0·43
	21	...	0·32
	22	...	0·32
	26	...	0·32
	27	...	0·35
	30	...	0·28
June ...	5	...	0·61
	7	0·16	0·38
	8	0·15	...
	9	...	0·41
	11	0·30	0·31
	12	...	0·31
	16	0·69	...
	17	...	0·29
	20	...	0·29
	25	0·40	...
	26	...	0·30
	27	0·40	...
	28	0·40	0·29
	29	0·15	0·29
	30	0·27	...
July ...	1	0·72	0·28
	2	...	0·29
	3	...	0·26
	4	0·90	0·35
	6	...	0·35
	10	0·72	0·30
	11	0·40	0·25
	14	0·55	0·39
	20	0·39	0·25
	30	0·56	0·29
	31	0·56	0·48
August ...	4	0·41	0·45
	7	0·41	...
	8	0·72	0·57
	10	0·31	...
	11	0·36	...
	12	0·39	...
	13	0·39	0·57
	16	0·39	...
	25	0·44	0·57
August ...	26	0·31	0·57
	28	0·39	...
	29	0·37	...
September ...	1	0·34	0·28
	4	0·33	0·36
	5	0·33	0·30
	6	0·34	0·30
	12	0·35	0·31
	13	0·33	0·26
	14	0·36	0·40
	19	0·36	0·35
	23	...	0·44
	24	0·33	...
	25	0·33	0·44
	26	0·33	0·40
	28	0·33	0·33
October ...	4	0·35	0·39
	5	0·29	0·32
	9	0·32	0·30
	12	0·49	0·46
	14	0·46	0·61
	17	0·42	0·48
	21	0·71	0·38
	24	0·56	0·30
	27	0·52	0·38
	29	...	0·30
November ...	1	0·42	0·29
	2	...	0·29
	3	...	0·31
	5	0·77	0·29
	7	...	0·29
	13	0·66	0·31
	16	0·61	0·38
	18	...	0·28
	20	0·52	0·30
	21	0·52	0·28
	23	0·52	0·21
	24	...	0·30
	29	0·45	0·28
December ...	2	0·66	0·31
	7	0·71	0·38
	11	...	0·31
	14	...	0·31

The scale values used for converting the diurnal range and progressive change of ordinate into angular measure are obtained by smoothing the separate determinations for periods in which no adjustments have been made, and for the hourly ordinates a mean scale value is used for periods during which no large change of scale value has occurred.

The diurnal range of level given on pages lxx to lxxii refers to the Mauritius Civil Day, and the progressive change of level (Table III) is the excess of the ordinate at 0^h over the ordinate at 24^h on each day, the sign (+) indicating a tilt to Eastward and Northward, and the sign (—) a tilt to Westward and Southward.

The amount and direction of tilt from day to day (from 0^h to 24^h) is shown graphically on (Plate III). The diagram has been constructed in a similar manner to those on (Plate VI) by plotting the accumulated values on pages (lxx) to (lxxii) as rectangular co-ordinates from a fixed point. From January 6^d to 12^d the pillar tilted 5″ to Southward ; from January 23^d to February 10^d tilted 8″ to East-North-East, from February 10^d to March 13^d tilted 8″ to South by West, after a tilt of 7″ to South-West and return. From March 13^d to 20^d it tilted 7″ to West-South-West. Thence to the middle of November the tilting was 46″ to North-Westward, by very irregular movements. From November 15^d to December 1^d the pillar tilted irregularly $3\frac{1}{2}$″ to South-ward and thence to December 15^d tilted 6″ to East-North-East Ward, after which the movement was generally Westward. On pages (lxxiv) are given particulars of changes of level produced by heavy rain during the year 1903.

In forming the mean diurnal inequality of level for each month only those days have been included for which complete and undisturbed registers of both north and east components are available. The non-periodic variations are eliminated by applying to each mean hourly value the correction :—

$$(h - 12)\,\frac{x_0 - x_{24}}{24}$$

where h is the hour, counted from midnight, and x_0, x_{24}, the mean monthly value of the converted ordinate at 0^h, and 24^h respectively.

In order to refer the Diurnal Inequality of Level to Mauritius Civil Time, the mean monthly ordinates from January to May (when they were measured at each hour of Greenwich Civil Time) were plotted on a curve and fresh ordinates measured at each hour of Mauritius Civil Time (pages lxxiii).

The North component (Plate IV) shows a double oscillation ; the tilt to north which sets in at about 15^h is reversed at about 18^h for a period which varies considerably in different months. This effect is probably due to the lamp used to prevent tremors during the night. The lamp is lighted between 17^h and 18^h and is placed on the floor about 4 feet to the North-East of the pillar, its position varying slightly from day to day. As, in the position, this lamp clearly produces a tilt to South it may be assumed that it also produces a tilt to west. Such an effect is, however, masked in the East component, as the turning point in this element occurs approximately at the times of lighting the lamp. For a similar reason, the effect of extinguishing the lamp in the morning is not apparent in either component.

To illustrate more fully the nature of the diurnal tilting of the pillar, vector diagrams for each month and for the year, showing the amount and direction of tilt from hour to hour, have been constructed by plotting the values given on pages (lxxiii) as rectangular co-ordinates from a fixed point (Plate VI).

The diagrams are widely different in different months. In January there is a steady tilt to the North-North-West until shortly before 6^h, when a rapid reversal takes place the tilt becoming relatively rapid (towards South-East) until Noon and then decreasing. After 13^h the movement becomes more easterly, gradually changing to northerly, westerly and southerly, thus forming a closed loop between 14^h and $18\frac{3}{4}^h$. By 20^h the movement is again westerly, gradually becoming north-north-westerly. In the winter months the curves are irregular, showing on the whole a north-westerly tilt until about 6^h with return until the afternoon. The form of the closed loop in the evening is determined principally by the lamp which produces a considerable tilt to Southward. The November and December curves are similar in character with very small evening loops and enclose larger areas than any other except the February curve which encloses about the same area as that for November.

TABLE I.—LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1903.

Slide Register Number.	Mauritius Register Number.	Date, 1903.		Commencement of Preliminary Tremors (G.C.T.)	Commencement of 2nd Phase (G.C.T.)	Commencement of Large Waves (G.C.T.)	Time of Maximum (G.C.T.)	End of Disturbance (G.C.T.)	Amplitude.		Remarks.
			d	h. m.	h. m.	h. m.	h. m.	h. m.	m.m.	"	
	349	Jan.	2	...	...	12.58·9	13. 0·8	13. 1·8	0.55	0·20	Loss of register after 13h. 4m.
	350	"	3	...	...	23.19·0	23.23·2	23.25·2	...	...	} Isolated thickenings of the trace.
	351	"	3	...	...	23.36·9	23.39·3	23.40·5	...	...	
668	352	"	4	5.26·6	5.34·6	...	6.11·9	7.	1·00	0·36	Sheet changed at 5h. 50m.
	353	"	5	...	...	...	12.43·8	...	...	...	Slight thickening of trace.
	354*	"	6	1.30·2	...	...	2.13·0	3. 5	...	...	Frequent thickenings of trace.
	355	"	9	2.24·3	...	...	2.31·5	2.45·7	...	...	Several thickenings of trace.
				...	...	...	2.37·5	...	...	...	*See* Plate.
671	356	"	14	2.18·8	...	2.22·4	2.24·7	2.47·8	1·5	0·49	Continuous small movements (till No. 357).
	357	"	14	...	3. 5·1	3.19·0	3.21·4	4. 7·2	...	...	Small tremors for several hours afterwards.
676	358	Feb.	1	10. 1·3	10. 8·0	10.11·8	10.16·7	10.59·1	0·55	0·27	A few slight movements for several hours afterwards.
				...	...	...	10.26·6	...	0·65	0·32	
	359	"	1	...	...	15.18·5	15.19·1	15.21·5	0·35	0·17	Isolated thickening of trace.
	360	"	2	10.14·5	10.16·6	10.21·7	10.22·5	10.28·8	0·25	0·12	
682	361	"	11	16.16·1	...	16.25·0	16.25·0	17.13·7	0·85	0·46	A few faint tremors afterwards.
686	362	"	27	0.53·6	1. 1·0	1.30·9	1.35·8	3. 0·4	2·25	1·57	*See* Plate.
	363	March	2	...	...	0. 3·1	0. 3·9	0. 6·5	0·25	0·16	Isolated.
	364	"	11	7.58·0	...	...	8. 4.3	8.12·3	...	...	Several very slight thickenings.
690	365	"	15	15.35·3	...	15.53·6	15.56·4	16. 8.0	...	...	Thickening of trace.
692	366	"	22	15. 0·1	...	15. 7·9	15. 9·9	15.20·8	...	...	" "
698	367	"	29	16.42·4	...	...	17.26·2	18.24·6	...	...	" "
				...	...	...	17.48·8	...	...	...	
699	368	"	30	3.42·5	3.47·2	3.58·5	4. 3·4	4.15·4	0·60	0·13	Small movements until 4h. 34m.
	369	April	1	7.20·5	....	...	7.25·0	7.26·9	0·15	0·03	Isolated.
	370	"	3	8. 5·8	...	...	...	8. 8·3	...	...	Several slight thickenings of trace.
	371	"	4	7.24	...	...	...	7.27	...	...	Slight thickening of trace.
	372	"	10	19.16	...	...	...	19.22·6	...	...	" "
703	373	"	12	3.46·2	...	3.54·0	3.54·7	5.10·2	0·20	0·05	" "
	374	"	12	23. 2·7	...	...	23. 4·2	23. 8·6	0·20	0·05	Isolated.
	375	"	27	...	...	...	8.12·9	...	...	...	Isolated : very slight thickenings of trace.
704	376	"	29	0. 5	0.12·5	0.15·0	0.17·5	0.52·9	1·50	0·34	
705	377	"	29	4.10·7	5. 1·2	5.12·0	5.14·8	7.16·2	1·45	0·33	Sheet changed between 5h. 36m. to 46m.
	378	May	9	13.54·4	...	...	...	14. 0·6	...	...	Isolated thickening of trace.
707	379	"	13	6.47·5	...	6.58·0	7. 1·3	13.	2·0	0·46	Faint movements commenced at 6h.14m.5.
	380	"	13	...	7.17·2	7.23·3	7.25·5	7.40	...	...	Faint movements for several hours afterwards.
	381	"	13	15.23·6	...	...	...	15.27·6	...	...	Isolated : very slight.
708	382	"	15	12½	...	...	...	13. 5	...	...	Several thickenings of trace.
	383	"	16	3. 4·6	...	3.10·0	3.13·1	3.22·3	...	...	Slight thickening of trace.
	384	"	17	0.30	0.58·9	1. 5.2	1. 7·2	3.48	0·85	0·20	
	385	"	23	20.31·1	...	...	...	20.32·1	...	...	Thickening of trace.
710	386	"	23	22.30	22.46·0	22.49·0	22.50·9	23.11	0·50	0·12	
	387	"	28	4.36·7	...	...	...	5.16·0	...	...	Several slight thickenings of trace.
	388	June	2	1.30	...	...	...	3	...	...	
718	389	"	4	15.11·8	...	15.17·2	15.18·9	15.46·5	0·40	0·10	
720	390	"	7	9.28·0	9.43·7	9.49·7	9.53·9	10. 2·1	0·35	0·09	Isolated : slight.
	391	"	8	5.45·9	...	5.55·2	5.56·4	6.32·7	0·60	0·15	
722	392	"	9	11.51·6	12. 5·0	12. 7·8	12. 9·1	12.26·9	0·40	0·10	

TABLE I.—*concluded.*—LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1903.

Shide Register Number	Mauritius Register Number.	Date, 1902.		Commencement of Preliminary Tremors (G.C.T.)	Commencement of 2nd Phase (G.C.T.)	Commencement of Large Waves (G.C.T.)	Time of Maximum (G.C.T.)	End of Disturbance (G.C.T.)	Amplitude.		Remarks.
			d	h. m.	h. m.	h. m.	h. m.	h. m.	m.m.	"	
	393	June	10	16.58·5	...	17. 2·5	17. 3·5	17.35	...	...	Faint movements for several hours afterwards.
724	394	,,	10	17.18·2	17.26·0	17.30·6	17.32·2	17.41·5	0·45	0·11	
	395	,,	15	23. 2·5	...	...	...	23.22·3	...	...	Several very slight thickenings of trace.
727	396	,,	17	20.28·4	...	...	...	20.37·7	...	...	Several slight tremors.
732	397	,,	24	19.25·6	...	...	14.14·3	14.16·4	0·25	0·06	
	398	,,	25	13.49·3	...	...	...	19.29·8	...	...	Very slight thickenings of trace.
738	399	July	2	21.37·1	...	22.14·8	22.16·1	22.31·8	0·35	0·11	
740	400	,,	4	5.17·0	...	5.21·1	5.25·2	5.36·0	0·35	0·11	
746	401	,,	12	6. 2·1	6.10·0	6.13·0	6.15·9	6.44.7	0·20	0·06	Very faint movements commenced at $5^h. 40^m. 6.$
	402	,,	14	...	...	...	8.34·3	...	...	...	Slight thickenings of trace.
				...	...	...	8.57·1	...	...	...	
759	403	August	11	...	...	4.53·2	4.54·3	...	0·50	0·27	Tremors lasted till 14^h.
				...	...	...	5.17·4	...	0·45	0·26	
	404	Sept.	3	3.51·8	...	...	4. 2·7	4.45·7	...	...	
	405	,,	3	6.41·5	...	...	6.44·6	7. 2·1	...	...	
				...	...	...	6.50·8	...	...	...	
	406	,,	6	13.25·8	...	...	14. 3·4	14.15·5	...	...	
	407	,,	7	7.37·7	...	...	...	7.54·9	...	...	Several isolated thickenings of trace.
764	408	,,	7	7.58·5	8. 4·4	8. 6.9	8.13·7	8.41·3	1·0	0·30	
765	409	,,	8	5.20·8	...	...	5.27·0	6. 3.1	...	...	
	410	October	1	22.56	...	...	...	23. 2	...	...	
	411	,,	4	17.19·8	...	...	...	17.27	...	...	
	412	,,	14	6.58·1	7. 3·6	7. 5·1	7. 7·4	...	0·5	...	
	413	,,	19	...	...	3.31·5	3.35·8	...	0·5	...	
	414	,,	20	3.32·5	3.43·0	3.47·2	3.48·0	...	0·25	...	
	415	,,	21	0.24	...	...	...	0.28	...	...	
777	416	,,	21	...	...	10. 2·2	...	11.10	...	...	E.-W. boom disturbed by insects. Max in N.-S. $10^h. 6^m.$ amplitude 6·5 mills.
	417	,,	21	17.36	...	...	...	17.41	...	...	
	418	,,	24	...	...	1.24·7	1.25·0	1.40	1·5	0·45	
	419*	,,	25	...	...	...	1.41·0	...	0·6	0·18	An apparent seismic movement among frequent A T_s.
	420*	,,	29	14.44·2	...	15.12·4	15.20·0	15.40	1·7	0·51	
	421	,,	30	3.50·4	...	4.50·4	4.55·9	...	2·0	0·60	
	422	Nov.	10	17.42·4	...	...	...	17.56·7	...	...	Frequent thickenings of trace.
	423	,,	10	18. 1·9	18. 8·4	18. 9·7	18.16·9	18.37.7	0·6	0·18	
	424	,,	10	...	21.44·2	21.50·0	21.51·5	...	0·5	0·15	
	425	Dec.	9	...	...	6. 9	6.11	6.16	1·0	0·30	Seismic origin doubtful.
	426	,,	10	...	...	17.16	17.24·6	...	...	...	Register faint.
				...	...	...	17.25·9	...	...	...	
	427	,,	13	19.44·4	...	...	20.47·3	23.59·1	...	...	Slight thickening of trace.
	428	,,	18	14. 1·4	14. 4·4	14. 6·8	14. 6·9	14.12	0·5	0·15	Seismic origin doubtful.

TABLE II.—DIURNAL RANGE and PROGRESSIVE CHANGE of LEVEL (NORTH and EAST COMPONENTS) as derived from the PHOTOGRAPHIC RECORDS of a MILNE SEISMOGRAPH. (*The Unit in the Table is* 0″·01.)

1903.

Day of Month.	January.				February.				March.				April.			
	Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.	
	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.
1	...	...	...	...	84	98	0	+ 42	258	168	+103	+ 84	396	102	−310	− 54
2	...	...	...	...	84	140	0	+ 14	189	132	...	...	206	108	−103	− 54
3	208	137	...	...	98	126	+ 17	+ 42	258	180	...	...	138	138	+120	− 30
4	...	...	...	...	98	112	0	+ 28	155	204	+ 52	+108	138	186	− 34	+ 66
5	162	103	...	...	84	126	− 17	+ 42	241	192	− 17	0	189	162	+138	+ 42
6	162	86	+139	+ 9	28	84	...	...	172	120	−120	+ 48	138	96	+138	− 60
7	232	112	− 70	+ 60	14	56	...	...	275	120	−138	− 48	275	90	−155	+ 18
8	186	69	− 93	− 9	...	70	...	...	172	48	+ 86	− 24	189	66	+ 34	− 42
9	232	112	− 93	+ 26	...	56	...	...	258	84	−224	− 36	189	96	− 34	+ 18
10	325	129	−139	− 9	...	56	...	...	138	96	− 17	− 48	69	138	+ 69	−114
11	209	146	+ 27	+ 34	98	154	+120	− 42	120	96	− 69	− 60	172	156	+ 34	−126
12	116	112	− 93	+ 34	98	112	+ 34	−112	69	60	...	...	138	84	− 34	+ 36
13	255	86	...	...	168	98	−189	− 14	138	90	− 86	+ 12	206	114	+206	+ 10
14	429	310	...	...	196	98	− 52	− 42	155	96	− 86	−108	155	114	+ 34	+ 54
15	...	...	...	...	140	84	+155	− 56	103	96	+ 34	+ 36	138	66	+ 69	− 18
16	...	86	...	...	196	140	−138	0	155	120	− 86	−144	69	42	0	− 24
17	133	260	...	...	266	126	− 34	−126	172	102	− 69	− 12	...	...	...	...
18	...	...	...	...	364	196	−138	− 42	103	132	− 86	−264	69	174	...	...
19	104	112	...	...	210	154	−120	−156	...	120	...	...	86	78	+ 69	− 6
20	133	155	...	...	112	210	+ 69	+ 70	34	72	− 17	−144	...	...	...	...
21	163	95	...	...	182	140	0	− 42	...	...	...	...	120	156	...	...
22	192	86	...	...	266	154	−155	0	...	...	...	...	224	174	+224	+156
23	118	104	+104	+ 78	154	140	+103	0	...	54	...	...	172	30	−138	− 42
24	74	182	+ 59	+156	154	280	+ 52	+126	86	42	+ 17	−180	172	66	+155	0
25	148	65	+148	+ 52	98	224	+ 52	+112	155	120	− 17	+ 12	120	168	0	+138
26	89	143	0	+ 91	350	210	...	...	...	138	...	...	...	...	...	...
27	118	78	+ 59	+ 52	98	168	...	...	...	144	...	...	...	48	...	...
28	163	91	−133	+ 26	126	154	...	...	103	96	+ 86	− 12	138	78	+120	+ 6
29	89	130	+ 89	+ 78					206	96	+189	− 24	172	66	+ 52	+ 18
30	89	117	+ 74	+ 65					86	114	− 17	+ 84	69	36	+ 17	− 36
31	44	104	+ 15	+ 26					138	108	+103	+ 12				
Mean -	167	123	+ 6	+ 48	151	134	− 12	− 8	158	112	− 17	− 32	159	105	+ 28	− 2
Since Jan. 1	...	...	+ 93	+769	...	...	−148	+613	...	...	−527	− 95	...	...	+144	−139

TABLE II.—DIURNAL RANGE and PROGRESSIVE CHANGE of LEVEL (NORTH and EAST COMPONENTS) as derived from the *continued.*—PHOTOGRAPHIC RECORDS of a MILNE SEISMOGRAPH. (*The Unit in the Table is* 0″·01.)

1903.

Day of Month.	May.				June.				July.				August.			
	Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.	
	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.
1	103	48	+103	+ 6	...	108	...	...	68	102	+ 57	+ 36	...	...	...	...
2	120	78	− 52	− 54	...	150	...	...	125	126	− 34	+ 30	...	...	...	...
3	...	...	...	...	...	132	...	...	80	66	+ 80	+ 12	...	...	...	...
4	...	...	...	...	...	...	...	...	114	...	...	...	107	36	− 74	+ 18
5	79	108	+ 72	+ 18	...	...	...	...	91	60	− 8	− 6	49	72	+ 49	− 45
6	115	90	+ 94	− 30	...	...	...	...	46	48	+ 23	− 6	90	108	− 57	+ 36
7	180	114	− 14	− 60	...	...	...	...	68	66	+ 23	− 24	...	...	...	...
8	173	96	+ 65	+ 18	...	...	...	...	114	90	+114	+ 72	139	72	...	...
9	194	126	+101	−108	...	...	...	...	80	54	0	− 12	...	...	...	...
10	151	132	+ 7	−132	...	...	...	...	46	54	+ 34	− 36	...	...	...	...
11	122	...	−144	− 36	144	114	− 72	− 54	57	54	+ 34	− 24	70	91	+ 23	0
12	...	...	...	...	132	150	+ 60	−150	103	72	+ 34	− 48	101	80	+ 62	− 34
13	742	...	...	...	66	144	+ 6	− 90	160	60	− 46	− 24	125	80	+140	− 57
14	...	108	...	...	90	168	+ 42	+ 48	57	72	+ 46	− 72	195	103	− 86	+ 23
15	224	138	− 52	132	96	228	− 24	−210	34	...	...	...	156	80	− 23	− 80
16	138	114	+120	−114	125	24	+ 83	+ 6	34	...	...	...	250	148	−101	−138
17	189	...	...	...	69	96	+ 69	+ 70	125	...	...	...	148	125	+125	− 80
18	258	...	...	...	97	66	− 56	+ 18	...	...	...	...	16	...	...	...
19	172	...	...	...	...	132	...	...	...	...	...	...	...	...	...	...
20	155	144	...	...	153	132	− 28	+ 6	86	66	+ 70	+ 36	...	...	...	...
21	...	...	...	...	167	60	+111	− 42	117	34	− 86	− 18	...	...	...	...
22	69	90	0	− 12	56	72	+ 56	+ 36	78	46	+ 16	+ 24	...	...	...	...
23	69	108	− 34	−108	167	102	+ 42	+ 18	86	46	+ 16	+ 6	...	...	...	...
24	52	156	+ 17	−156	153	186	+111	+ 36	31	...	...	...	...	...	...	...
25	69	54	+ 69	− 42	...	60	...	...	...	...	...	...	125	114	−125	− 11
26	69	78	− 34	− 12	282	54	−120	− 24	70	57	+ 55	− 12	101	103	− 55	− 91
27	155	60	+138	+ 12	282	84	+222	− 48	55	68	− 23	+ 6	62	91	+ 62	− 68
28	103	78	0	+ 12	148	102	+126	+ 54	47	114	0	− 6	101	103	− 62	0
29	206	102	+206	+ 60	240	102	−132	+ 60	...	...	...	...	226	91	+195	− 34
30	138	102	+103	+ 36	96	102	+102	+ 42	148	...	...	...	156	91	−133	− 34
31	...	...	...	...					23	...	...	...	...	...	...	...
Mean -	162	101	+ 38	− 42	142	112	+ 33	− 12	79	68	+ 20	− 3	123	93	− 4	− 37
Since Jan. 1	...	...	+909	−973	...	...	+1507	−1195	...	...	+1912	−1261	...	...	+1852	−1856

TABLE II.—(*concluded*).—DIURNAL RANGE and PROGRESSIVE CHANGE of LEVEL (NORTH and EAST COMPONENTS) as derived from the PHOTOGRAPHIC RECORDS of a MILNE SEISMOGRAPH. (*The Unit in the Table is* 0″·01.)

1903.

Day of Month.	September.				October.				November.				December.			
	Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.		Diurnal Range of Level.		Progressive Change of Level.	
	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.
1	90	70	− 49	− 70	...	...	...	...	...	...	−137	− 91	170	119	0	+ 7
2	135	42	− 41	− 14	147	91	−138	− 98	72	112	+130	− 21	227	126	+ 43	+ 70
3	156	77	− 66	− 63	138	49	+138	+ 7	137	70	− 72	+ 7	327	119	− 85	+ 35
4	139	105	+ 25	− 77	129	63	− 74	0	...	...	...	...	241	98	+ 14	+ 56
5	221	105	− 74	+ 28	147	119	+129	+ 28	295	189	−115	−140	213	84	− 43	+ 14
6	230	49	+205	+ 7	350	133	−120	+ 28	209	112	+ 79	− 14	142	49	+ 28	0
7	41	63	0	+ 21	120	49	+110	0	...	...	...	...	256	112	− 57	+ 70
8	131	105	− 33	− 63	...	...	...	...	151	91	+ 58	− 28	213	119	+ 14	+ 84
9	123	42	+ 33	+ 14	221	98	+ 83	+ 35	...	...	...	...	128	77	+ 85	+ 28
10	180	84	−123	− 77	267	126	− 18	+ 21	...	112	− 36	+ 35	170	91	+ 14	+ 56
11	74	56	...	...	...	98	...	...	36	119	+ 36	+ 56	213	119	+ 99	+ 77
12	156	84	+115	− 42	...	105	...	...	86	112	− 7	− 42	...	...	...	...
13	115	21	+107	+ 7	221	126	− 37	+ 35	65	105	+ 29	+ 28	99	...	...	...
14	98	77	− 57	− 70	202	70	+138	+ 35	79	49	+ 29	+ 14	213	126	+ 28	0
15	90	28	+ 25	− 14	...	98	...	...	58	70	− 7	− 42	142	119	0	+ 49
16	49	56	+ 16	+ 28	...	126	...	...	...	91	−122	+ 28	185	63	+ 57	− 42
17	115	84	−115	− 77	...	28	...	...	79	84	+ 43	+ 42	114	77	− 28	− 77
18	98	49	+ 33	0	175	63	+101	− 14	137	63	− 43	+ 14	128	56	+ 57	− 42
19	123	63	+107	− 70	156	98	...	...	86	77	− 65	− 21	99	49	+ 28	− 7
20	115	42	+ 90	− 14	...	91	+156	− 14	115	84	+ 65	+ 14	85	84	− 28	− 84
21	98	91	+ 82	+ 98	129	119	−101	− 28	144	70	− 22	0	142	42	+ 85	− 14
22	...	...	...	...	46	84	+ 46	− 7	180	77	+ 22	+ 14	85	70	+ 28	− 63
23	41	112	− 25	+ 84	46	112	0	− 21	281	105	−144	− 21	85	35	...	...
24	57	91	− 33	+ 21	92	84	+ 92	− 14	166	112	+ 14	+ 35	...	...	...	...
25	180	91	+221	+ 91	101	105	+ 18	+ 42	194	112	− 36	+ 42	99	77	− 71	− 21
26	238	49	−238	− 28	55	70	0	− 14	274	98	− 65	− 14	99	...	...	...
27	90	91	+ 25	− 91	64	98	+ 37	+ 21	72	84	+ 29	− 63	...	42	...	...
28	...	...	...	...	64	70	+ 64	+ 21	94	91	+ 7	− 91	170	...	...	...
29	98	105	− 16	−105	74	91	− 55	− 56	115	105	− 7	− 56	128	...	...	...
30	74	77	+ 16	− 98	83	77	+ 83	+ 49	65	105	− 22	+ 14	85	...	...	...
31					18	70	− 9	+ 14					85	28	...	...
Mean	120	72	+ 9	− 21	132	90	+ 28	+ 3	133	96	− 13	− 11	155	83	+ 13	+ 9
Since Jan. 1	...	...	+2082	−2430	...	...	+2725	−2360	...	...	+2366	−2661	...	...	+2634	−2465

TABLE III.—MONTHLY MEAN DIURNAL VARIATION of LEVEL (NORTH and EAST COMPONENTS) as derived from the PHOTOGRAPHIC RECORDS of a MILNE SEISMOGRAPH.

(The results in each case are diminished by the smallest hourly value, the unit in the Table being ·001 of a second of arc).

1903.

Hour, Mauritius Civil Time.	January.		February.		March.		April.		May.		June.	
	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.
Midnight	338	175	461	525	385	335	365	240	468	163	266	237
1h	476	125	580	446	502	274	490	192	490	128	281	184
2	592	78	692	360	585	228	593	152	539	98	330	140
3	702	44	800	290	643	195	630	118	602	60	431	98
4	795	18	899	212	744	140	654	92	648	37	484	60
5	855	4	1010	125	815	80	678	64	690	20	529	42
6	890	0	1079	36	870	19	693	37	685	0	551	19
7	852	17	970	0	925	0	705	0	635	5	536	4
8	756	64	817	42	792	56	590	14	568	30	506	0
9	646	180	715	176	640	182	470	70	453	94	461	60
10	522	310	607	326	540	305	353	142	322	167	334	184
11	424	416	529	505	450	400	286	230	224	270	169	323
Noon	315	522	442	660	365	541	207	371	142	398	64	398
13h	225	623	375	818	256	696	104	538	65	535	30	488
14	192	716	365	958	238	800	40	650	4	643	0	569
15	183	795	379	1093	254	905	60	728	0	716	11	619
16	236	868	417	1228	308	978	130	780	66	760	49	634
17	335	848	425	1335	400	1015	254	812	138	750	105	630
18	330	785	367	1308	350	972	202	780	142	712	154	585
19	124	686	139	1225	184	828	110	675	64	633	142	499
20	000	560	0	1085	88	670	0	546	10	500	146	467
21	015	418	28	905	0	518	12	430	75	382	169	398
22	75	308	139	760	70	417	122	350	205	282	210	318
23	193	230	295	638	233	379	265	298	353	216	251	267
Mean	420	366	522	627	443	456	334	346	316	317	259	301

Hour, Mauritius Civil Time.	July.		August.		September.		October.		November.		December.		Year.	
	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.	North.	East.
Midnight	144	123	117	285	54	12	281	214	627	45	156	171	258	192
1h	218	78	173	244	192	7	377	173	798	33	234	133	354	150
2	308	45	278	199	296	0	446	135	936	21	376	98	450	111
3	378	21	362	160	422	7	490	100	1038	22	490	52	535	79
4	413	12	395	132	491	15	580	66	1152	26	653	28	603	52
5	421	0	429	65	526	22	630	38	1230	24	788	0	670	22
6	390	12	468	57	507	15	672	18	1281	18	987	45	709	5
7	355	30	512	25	498	30	644	0	1170	0	1207	105	704	0
8	351	63	563	8	539	60	570	56	936	99	1250	147	639	35
9	308	141	590	0	485	90	465	180	744	237	1115	235	544	119
10	226	225	473	171	391	145	313	314	576	378	930	340	418	233
11	148	306	384	350	312	207	161	449	426	510	760	466	309	351
Noon	51	390	295	505	236	270	60	549	303	603	625	557	212	462
13h	12	465	234	619	195	322	18	639	207	675	554	620	142	568
14	0	519	273	700	217	370	0	690	141	717	476	669	115	649
15	4	561	306	782	249	412	28	732	114	756	478	707	125	716
16	62	565	373	798	290	447	106	780	120	771	518	719	176	759
17	117	561	479	765	416	462	262	749	156	759	554	729	256	767
18	117	537	379	733	372	432	248	694	138	663	547	712	232	725
19	74	453	173	676	167	342	170	590	18	486	170	616	81	624
20	55	378	50	595	79	257	124	466	0	348	14	480	0	512
21	55	294	0	497	41	167	143	380	84	231	0	371	5	398
22	78	201	11	391	0	80	184	314	216	138	92	291	70	303
23	109	147	67	334	25	22	244	252	357	69	142	221	164	238
Mean	183	255	308	379	292	175	301	357	532	318	546	355	324	336

TABLE IV.—RAINFALL and corresponding CHANGES OF LEVEL as recorded by the MILNE SEISMOGRAPH during the YEAR 1903.

Rainfall.			Corresponding change of Level.
From	To	Amount	
d h m	d h m	ins	
January.			
14. 7. 0	15. 3.20	4·00	Gradual tilt to North (4″·08) and to East (1″·72).
February.			
21.11.50	21.11.20	1·27	Small westerly wave.
24.13.50	21.14.50	1·22	Tilt to West (2″·05).
March.			
1. 3.30	1. 8.30	0·76	Gradual tilt to west (0″·66) from 3^h. 30^m to 5^h. 50^m N.-S. trace defective.
2.16. 0	3. 7. 0	1·08	Gradual tilt to West (2″·28) N.-S. trace defective.
21. 3.50	21. 4. 0	0·15	Slight tilt to West.
25.17.15	26. 4.50	0·98	Tilt to S.-W. (1″.52) until 25^d. 21^h. 40m, followed by tilt to N.-E. (1″14) until 26^d. 10^h. 10^m.
April.			
10.19.30	10.19.45	0·20	Rapid tilt to West (0″·30).
11. 6.50	11. 7.10	0·21	Slight tilt to west.
12. 6.40	12. 7.10	0·40	Slight westerly wave.
22. 9.20	22.17.20	1·01	Occasional slight undulations in both traces.
(Occasional heavy showers)			
24. 9.20	24. 9.30	0·20	Slight tilt to west.
July.			
11.17.20	11.17.30	0·19	Slight tilt to W. by N.
August.			
17.17.22	17.17.24	0·03	Tilt to South (0″·61) from 17^d. 22^m to 28^m.
17.20.20	17.20.40	0·08	Slight tilt to S.W.
December.			
5.16. 5	5.16.15	0·25	Slight tilt to West.
16.14.50	16.15.10	0·25	Slight tilt to West from 15^h. 0^m to 15^h. 15^m.
19.16.35	19.16.40	0·12	Slight tilt to West.

Plate 1

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL ALFRED OBSERVATORY MAURITIUS

DURING THE YEAR 1903.

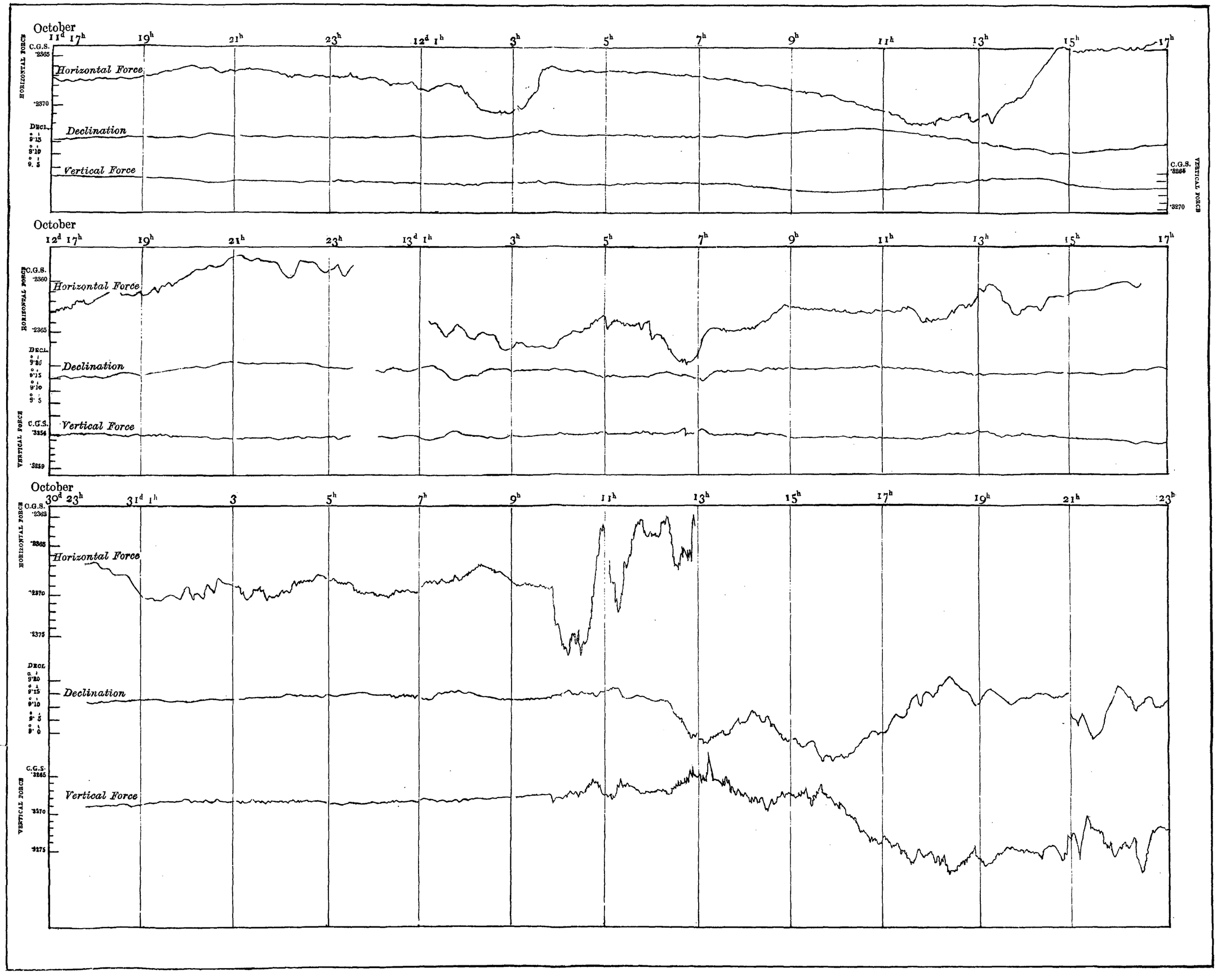


PLATE 2

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL ALFRED OBSERVATORY MAURITIUS

DURING THE YEAR 1903.

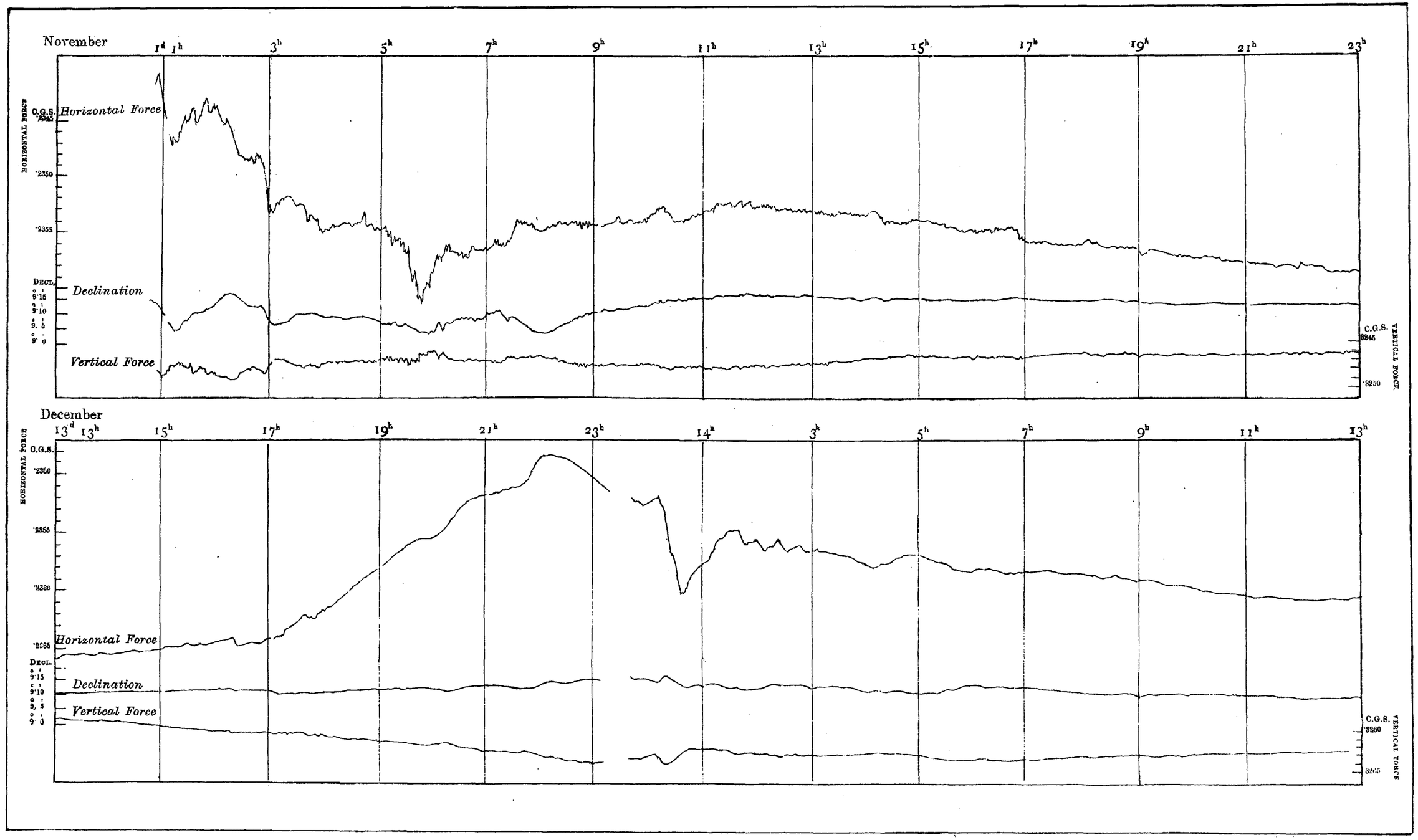


PLATE 3.

DIAGRAM SHOWING, THE PROGRESSIVE OF LEVEL AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS, DURING THE YEAR 1903 AS DERIVED FROM THE PHOTOGRAPHIC REGORDS OF A MILNE SEISMOGRAPH.

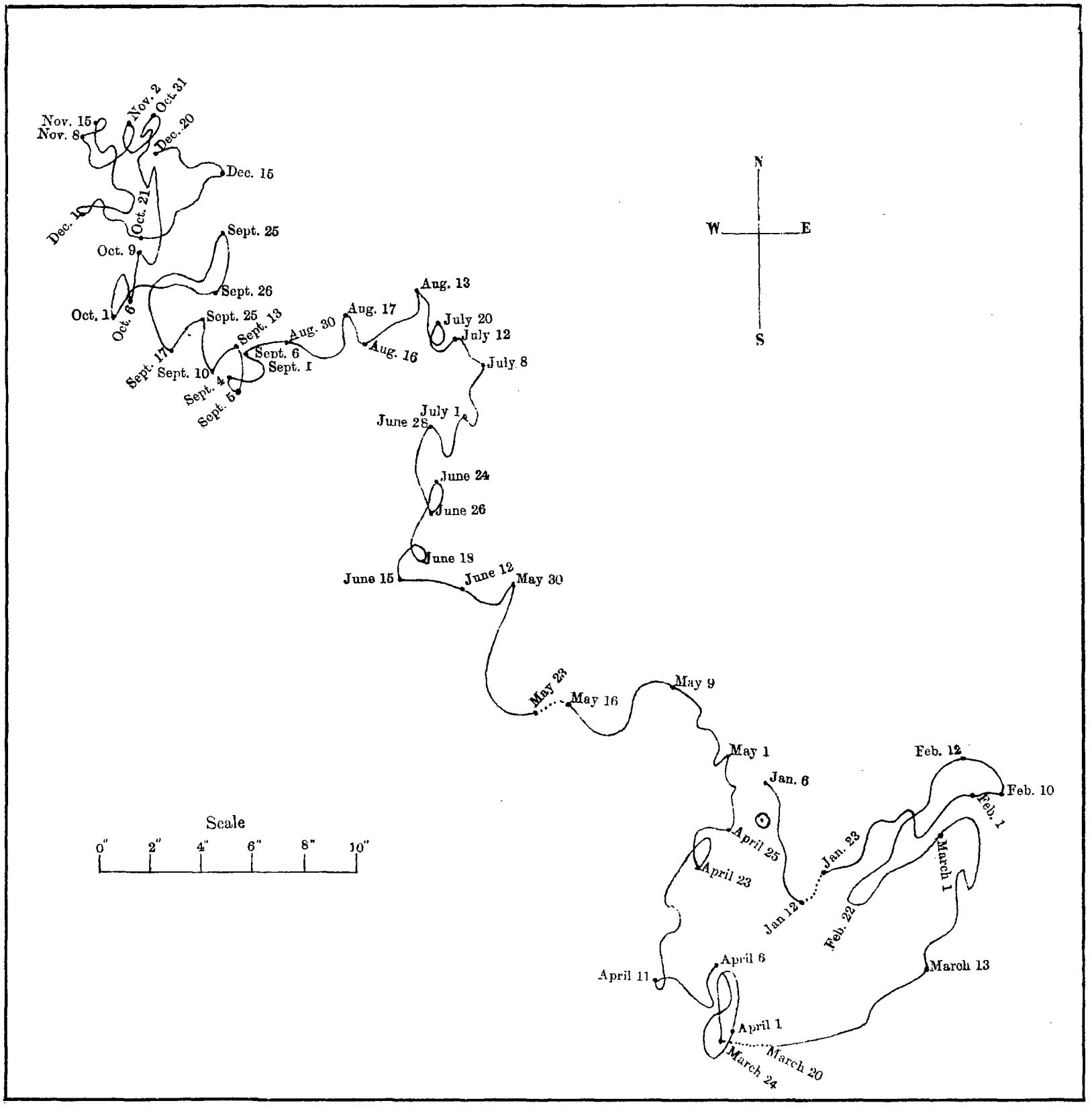


PLATE 4.

DIAGRAM SHOWING FOR EACH MONTH OF THE YEAR 1903, THE DIURNAL INEQUALITY OF LEVEL (NORTH COMPONENT) AT THE ROYAL ALFRED OBSERVATORY MAURITIUS, AS DERIVED FROM THE PHOTOGRAPHIC RECORDS OF A MILNE SEISMOGRAPH.

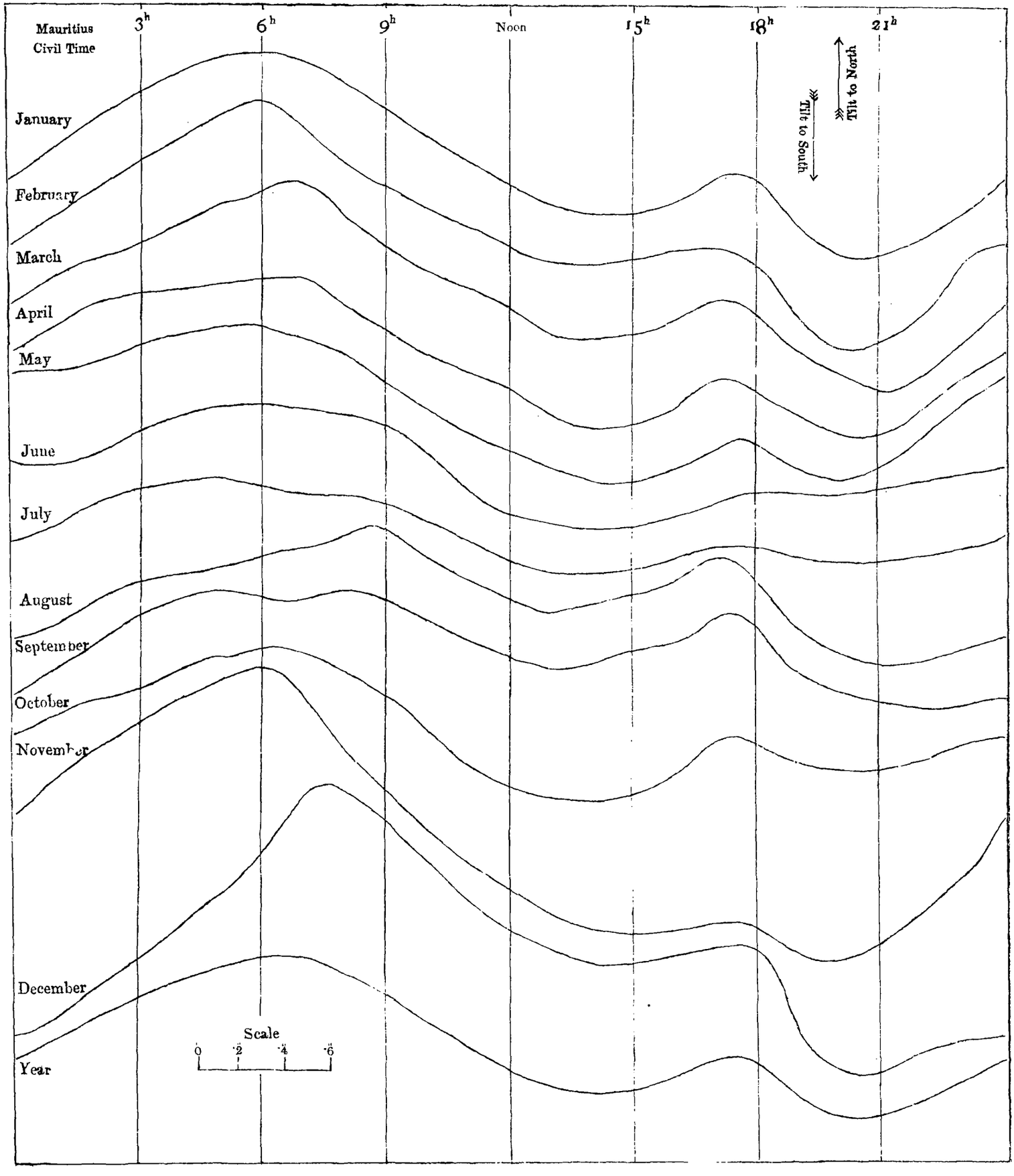


PLATE 5

DIAGRAM SHOWING FOR EACH MONTH OF THE YEAR 1903, THE DIURNAL INEQUALITY OF LEVEL (EAST COMPONENT) AT THE ROYAL ALFRED OBSERVATORY MAURITIUS. AS DERIVED FROM THE PHOTOGRAPHIC RECORDS OF A MILNE SEISMOGRAPH.

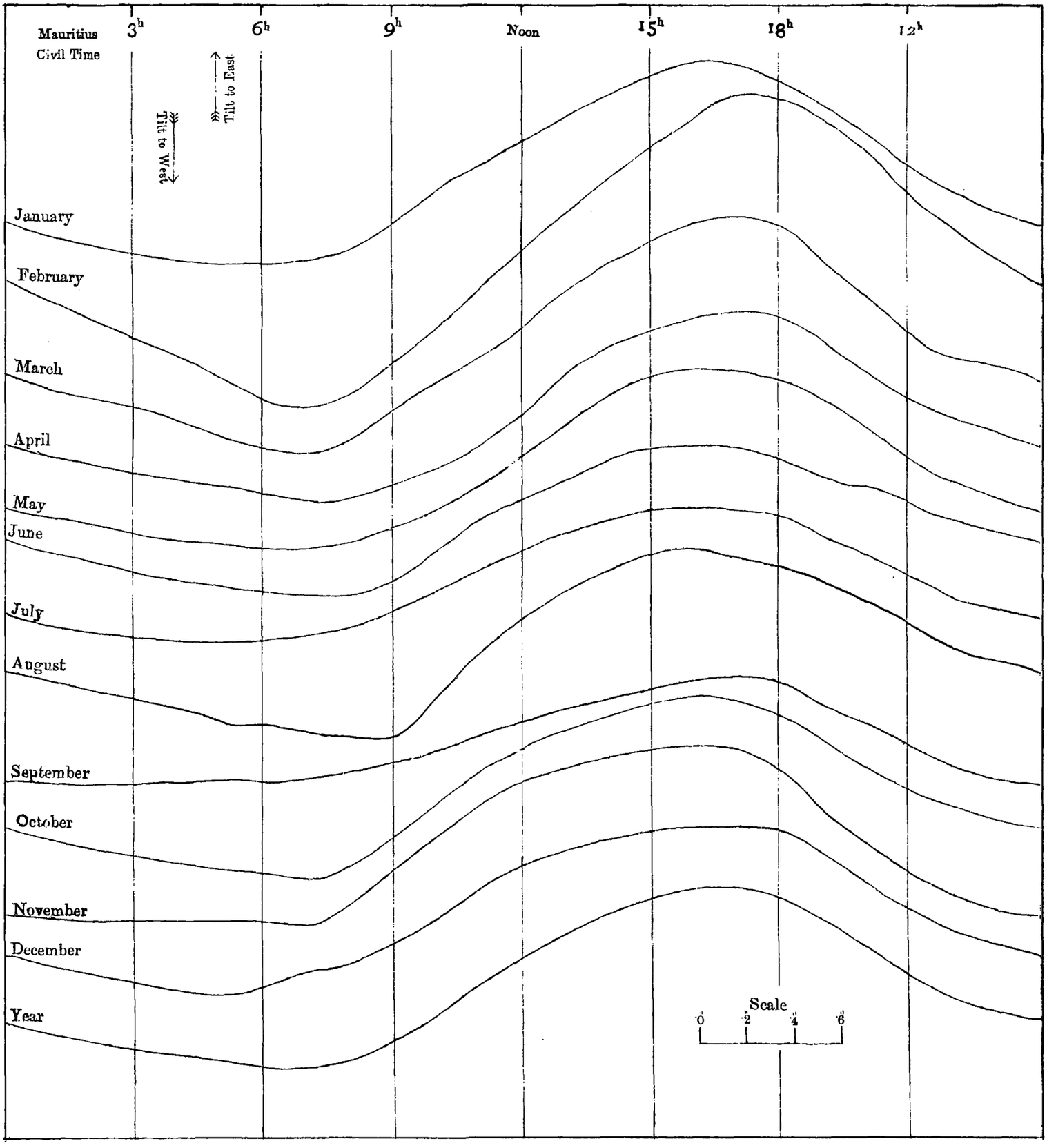


Plate 6

Vector diagram showing, for each month of the year 1903 the mean amount & direction of tilt of the pillar of the Milne seismograph from hour to hour, as derived from the photographic records.

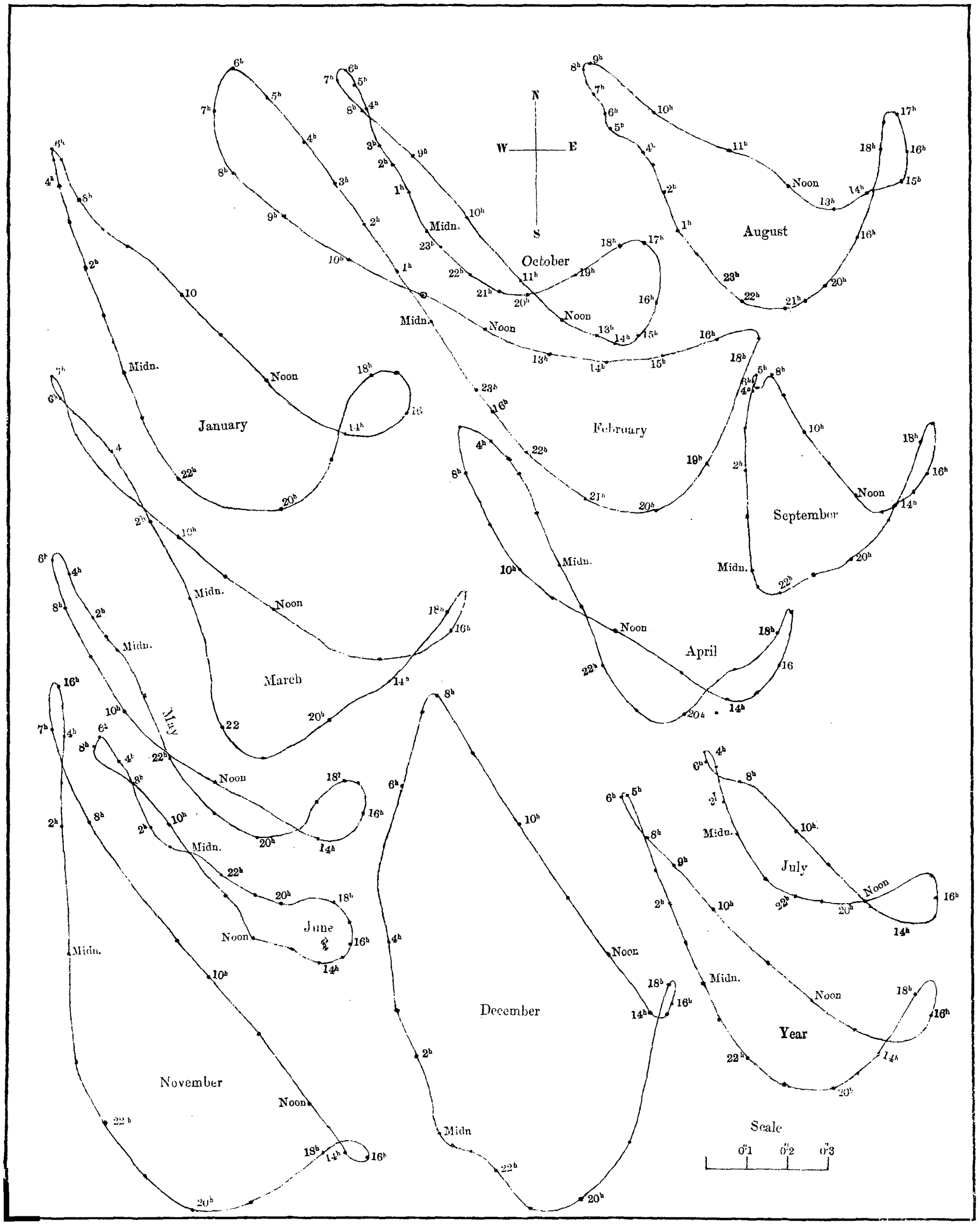
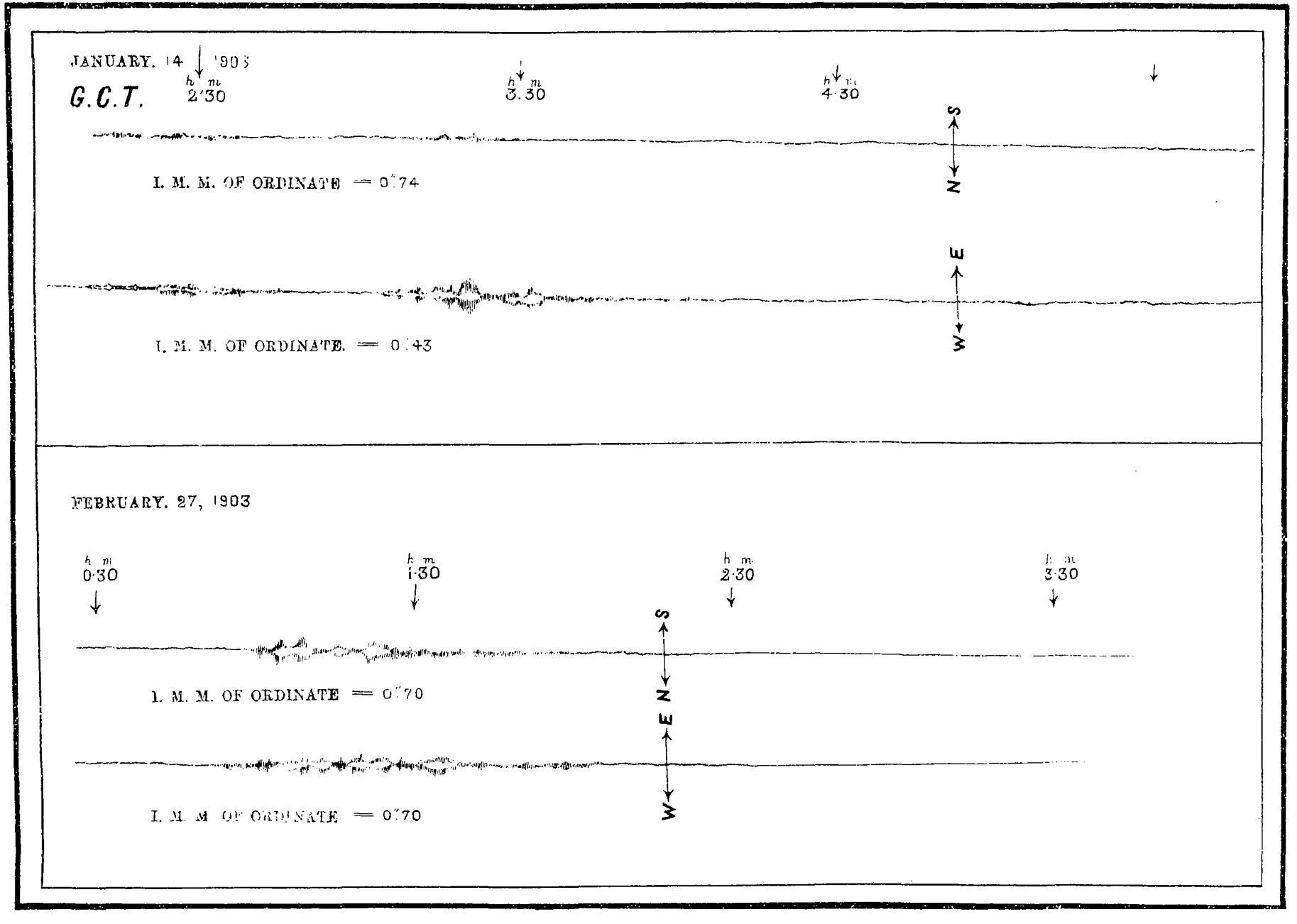


PLATE 7.

COPIES OF EARTHQUAKES RECORDED AT THE ROYAL ALFRED OBSERVATORY DURING THE YEAR 1903.