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RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

MADE AT

THE ROYAL ALFRED OBSERVATORY, MAURITIUS,

IN THE YEAR

1907.

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ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1907.

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MAURITIUS MAGNETICAL AND METEOROLOGICAL OBSERVATIONS,

1907.

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 mean sea level.

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

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

The Main Building, the foundation stone of which was laid on 1870, May 30, 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. In the latter are placed two Standard barometers, Newman No. 128 and Negretti and Zambra No. 2,170. There are two mean solar chronometers, Kullberg No. 3,400 and Webster No. 925, for magnetic and actinometric observations and for use with the photoheliograph, and one sidereal chronometer, Muirhead No. 450, for use with the 12-inch

theodolite, and occasionally with the transit instrument. The Standard mean solar clock, Dent No. 1,686, was removed to the Magnet Basement on September 20, and converted into a sidereal clock. In its place have been fixed two electric dials, one driven by the Standard mean time clock and one by the Standard sidereal clock. Between them is placed a commutator in connexion with the accelerating and retarding apparatus of the mean time clock, and below is the Morse chronograph, on the tape of which the beats of the sidereal clock are recorded.

For further particulars concerning the new electric time service reference may be made to the Appendix to the Annual Report for the year 1906.

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 west rooms serving as a library and the east as sleeping apartments. On the second floor is an attic, with three doors opening into domes and a staircase leading to the roof, upon which is mounted the Campbell-Stokes sunshine recorder. 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. In the North-East Dome is a 6-inch equatorial by Cooke, and in the South Dome the transit instrument and, since July 1, the Morse chronograph. The sidereal clock by Parkinson and Frodsham was transferred from the South Dome to the Magnet Basement on 1907 September 20, and converted into a mean solar clock. An electric dial has been mounted in its place. On 1905, August 21, the old transit instrument by Troughton and Simms was dismounted and a more modern instrument, of the same (3-inch) aperture and by the same maker, put up in its place. The new instrument is of the portable type and is provided with reversing gear.

A Dines 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, barograph, seismograph and, since 1906 September 20, the Standard sidereal and mean time clocks. 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 served as a means of communication between the Magnet Basement and the Photographic Room until November 1903, when, in order to check the temperature changes produced on entering and leaving the Magnet Basement, the east door of the lobby was permanently closed and a new door built in the outer wall, 10 feet to the north, communicating with the Magnet Basement through the north and west doors of the lobby. The air space between the walls was closed at its north end. 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 November of the present year the Magnet Basement was further ventilated by means of pipes leading from each of the lamps of the self-registering instruments to a ventilator in the ceiling through which the noxious gases are discharged.

The Magnetic Pavilion, for absolute determinations of declination, horizontal force and dip, stands 180 feet to the west of the Magnetic Observatory. It was built in the year 1875, and 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 checking the azimuth of the Magnetic Mark, a stone pillar 450 feet to southward. But as only a few stars could be conveniently observed through the original opening, in May 1900 it was extended, and the doorway heightened to admit of observations of stars up to an altitude of 25°. The pillars on which the instruments are placed are built of non-magnetic bricks and rise from substantial foundations below the floor; they are at equal distances apart, and lie in a direction nearly at right angles to the Astronomical Meridian. The Unifilar instrument is placed on the central pillar, and the Dip Circle on the western; the eastern pillar is not at present in use.

On account of the anomalous vibration of the magnets used for absolute determinations of declination, horizontal force and dip, caused by the rafters of the floor resting on the foundations of the instrument pillars, in 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.

The Declinometer Hut, for additional observations of declination, was erected in October 1904, at a distance of 90 feet to the south (magnetic) of the Magnetic Pavilion. It is a wooden building, 12 feet long by 7 feet wide and 12 feet high, with shutters on the south side which admit of observations of circumpolar stars, up to an altitude of about 30°, for determining the circle reading of the astronomical meridian on the 12-inch theodolite with which, in conjunction with collimator magnet No. 24 B, the observations of declination are made.

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.

At a distance of 30 feet to the south-south-east of the Main Building stands the Transit Hut, erected in the year 1906 for the reception of the old transit instrument which was formerly in use in the South Dome. The Hut is constructed of wood and is 7 feet long by 8 feet wide and 7 feet high. The instrument pillars rest on a foundation of concrete 6 feet square by 4 feet deep.

About 120 feet to the east of the Main Building is a circular enclosure 33 feet in diameter. In it are placed (1) a wooden stand 4 feet high, carrying two solar radiation thermometers; (2) a 6-inch brass stand carrying a terrestrial radiation thermometer with an adjacent mercurial thermometer for standardizing it; (3) an evaporometer, consisting of a shallow cylindrical brass vessel 8 inches in diameter, surrounded by a wire cage; (4) a Symons' earth thermometer suspended in a pipe, for registering the temperature of the soil at a depth of 62 inches below the surface; (5) a similar thermometer for registering the temperature of the soil at a depth of 118 inches below the surface. On April 25 a second thermometer was attached to the chain of this thermometer with its bulb at a depth of 62 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; and since November 1902 automatic records of the pressure of the wind have been obtained with a Dines 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.

During the year 48 complete determinations of magnetic horizontal force were made with the Kew Unifilar Instrument on 31 days, and the time of vibration of the deflecting magnet observed on 54 other days, an interpolated value of m being used in deducing the value of X on these days. Absolute determinations of declination are made twice daily with the New Declinometer. The dip is observed eight times in each month, four 3-inch needles being used in rotation. Eye observations of the principal meteorological elements are made daily at 0^h, 6^h, 12^h, and 18^h Mauritius Standard Time*; the day commencing at midnight and counting from 0^h to 23^h. Since October, 1903, hourly observations of the amount of cloud

* The Standard Time of the 60th. Meridian East of Greenwich was adopted in Mauritius, Rodrigues and Seychelles on 1907 January 1.

have been made. Daily readings are taken of solar and terrestrial radiation thermometers and of earth thermometers whose bulbs are at depths of 62 inches and 118 inches, respectively, below the surface of the ground. Actinometric observations are taken at about noon, and at about 9^h and 15^h, when the sky in the neighbourhood of the sun is free from cloud at these times.

The magnetical, meteorological, and seismographical records are measured at each hour of Mauritius Standard Time.

The direction of motion of the various types of cloud are observed, as often as possible, with a Marvin Nephoscope.

Photographs of the sun are taken daily, weather permitting, and the negatives forwarded to the Secretary of the Solar Physics Committee, London.

Observations for Time are made daily with few exceptions. Until March 2 the Time-Ball on the Signal Mountain at Port Louis was dropped by hand daily (on receipt of a signal from the Observatory) except on Saturdays, Sundays and Public Holidays. The exact time at which the ball crossed the yard arm was observed from the Observatory and telephoned to the Harbour Master. On March 4 the new Electric Time-Ball at the Port Office was brought into use. It is dropped automatically by the Standard Mean Time Clock daily, at 13^h (Mauritius Standard Time) except on Sundays and Public Holidays, when it is not hoisted.

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 connexion with the monsoon predictions. For the same period monthly departures from average of the principal meteorological elements are cabled to the Director-General of the Egyptian Survey Department.

The meteorological observations made at Seychelles, Rodrigues, Cocos, the Botanic Gardens (Pamplemousses), the Nursery Gardens and St. Joseph's College (Curepipe), 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 obtained from vessels trading with Mauritius, and from the Islands in the Indian Ocean.

During the year 1907 the Staff consisted of Mr. A. Walter, F.R.A.S., Chief Assistant, Mr. A. N. Figon, Second Assistant, with usually four or five extra assistants.

§ III.—*Magnetic Instruments.*

With the exception of the New Declinometer, all the Magnetic instruments in use at the

Observatory are 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 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.

For Deflecting Magnet (24 A).

The correction for decrease of magnetic moment of the magnet to reduce to 0° Centigrade = c = 0·000306 t + 0·00000148 t^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 = 5·202.

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

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

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

NEW DECLINOMETER.—With a view to obtain more accurate and rapid determinations of declination, collimator magnet No. 24 B was mounted on a solid teak stand in the Declino-

meter Hut in October 1904, and the 12-inch theodolite by Troughton and Simms set up on a massive concrete pillar 4 feet to the south, in a position suitable for observing the magnet scale.

The horizontal circle of the theodolite is graduated to 5′ and read by two micrometers, the heads of which are graduated to 1″. The vertical circle, which is 12 inches in diameter, is graduated to 5′ and read by two verniers to 5″. The length of the telescope is 18 inches, and the aperture of its object glass 2 inches. It is carried by a horizontal axis $10\frac{1}{2}$ inches long, the pivots of which are supported in Y's by two vertical pillars which branch from the central pillar of the theodolite and carry also the micrometers. On the wire plate are fixed three spider threads, two vertical and one horizontal, the field of view being illuminated when necessary through the pivot of the horizontal axis on the side carrying the clamp.

From observations made on 1904 October 7 and 11, it appeared that a correction of $-$ 0″·37 for inequality of pivots should be applied to the level readings with clamp west. On 1903 July 28 the value of 1 division of the striding level was found to be 1″·67.

On 1904 October 12 the distance between the scale and the lens of the collimator magnet was increased by placing a washer on the screw of the lens cell in order to bring the scale to the principal focus of the lens. The angular value of the scale was then found to be 1′·725.

Experiments on 1904 October 13 showed that no correction was necessary on account of the glass in the small window through which the magnet scale is observed.

The reading of the magnet scale is observed twice daily, at the approximate times of maximum and minimum declination; that is to say, at times varying from $8\frac{1}{2}^h$ and $14\frac{1}{2}^h$ in February to $10\frac{1}{2}^h$ and $15\frac{1}{2}^h$ in August. In practice the observed scale reading (converted into arc), added to the reading of the azimuthal circle, is subtracted from a constant $(a + b + c)$ in which a is the circle reading corresponding to the Astronomical Meridian, b the reading of the magnet scale (converted into arc) corresponding to its line of collimation, and c the correction for torsion.

The value of a is determined from observation of the Astronomical Mark, distant 34,256 feet to southward, the azimuth of which is 24′·0 East of South, according to observations made in the year 1905. The results of the observations are given in the Introduction for that year.

The value of b is determined usually once a week, as is also the value of c, a brass plummet of the same weight being substituted for the collimator magnet No. 24 B, and the amount of torsion of the suspension thread observed. The effect of such torsion on the position of the magnet is determined by observing the reading of the magnet scale with the torsion circle set successively at the readings $(x°)$, $(x° + 180°)$, $(x°)$, $(x° - 180°)$, $(x°)$.

The correction necessary for each degree of torsion of the suspension thread was found to be 0′·031 on January 7, 0′·044 on May 20, 0′·034 on July 1 and 0′·027 on December 18.

The observed values of *a*, *b*, *c* during the year 1907 were as follows :—

Date.		*a*.	*b*.	*c*.	Date.		*a*.	*b*.	*c*.
	d	° ′	′	′		d	° ′	′	′
January	7 ...	297.29·01	48·85	+1·53	July	15 ...	297.28·60	49·01	−0·10
	28 ...	28·95	48·71	+1·68		22 ...	28·51	48·94	−0·10
February	5 ...	29·01	48·96	+1·53		29 ...	28·75	48·95	−0·07
	11 ...	29·03	48·47	+0·61	August	5 ...	28·54	49·02	0·00
	18 ...	29·02	...	+0·76		21 ...	28·33	...	0·00
	25 ...	29·04	48·68	+0·92		30 ...	28·40	48·67	0·00
March	11 ...	29·05	48·73	+1·23	September	7 ...	28·20	49·24	0·00
	18 ...	29·07	48·84	+1·45		18 ...	28·13	48·86	0·00
April	3 ...	29·20	48·87	+1·68		26 ...	28·16	49·02	−0·16
	8 ...	29·28	49·06	+1·68	October	7 ...	28·37	48·98	−0·15
	16 ...	29·28	48·86	+1·53		14 ...	28·68	48·89	+0·30
	29 ...	29·50	48·80	+1·53		21 ...	28·94	49·03	0·00
May	6 ...	29·28	48·80	+1·53	November	4 ...	29·28	48·97	0·00
	20 ...	29·01	48·73	+2·20		12 ...	29·28	49·00	0·00
	28 ...	28·97	48·87	+0·22		15 ...	28·40	49·00	+0·28
June	1 ...	28·90	48·95	−0·22		18 ...	28·62	48·99	+0·28
	4 ...	28·85	49·02	−0·13		25 ...	28·51	48·83	+0·55
	18 ...	28·67	48·66	0·00	December	9 ...	28·69	49·02	+0·42
	24 ...	28·42	49·04	−0·13		16 ...	28·83	48·90	+0·27
July	1 ...	28·42	48·94	−0·34		30 ...	29·33	48·82	+0·27
	8 ...	28·33	48·74	−0·10					

Torsion eliminated on February 5 and May 20. Theodolite removed for transit of Mercury on November 14.

DIP INSTRUMENT.—Observations of magnetic dip are made with a Kew Dip Circle (Dover No. 89), mounted on a brick pier to the west of the unifilar instrument. The needles employed are 3½ inches long, and are numbered 1, 2, 3, and 4, respectively. The needle to be used is magnetised by double touch, and after wiping it with chamois leather and cleaning the pivots with cork it is placed in position in the instrument, and by means of a lever gently lowered on to the agate bearings, which are previously dusted. The circle readings of the needle points are then read and the observations repeated in the positions indicated on pages (*iv*) and (*v*). 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. The instrument was cleaned on March 20.

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 before and after trimming the lamps (usually between noon and 13^h), and also at 16^h. These observations served to standardise the records of a Richard thermograph placed near the magnetograph clock until April 13, when a mercurial thermometer was installed near the cylinder of the barograph, so as to record the temperature of the magnet Basement photographically on the barograph sheet.

Several attempts were made in the years 1886, 1887, and 1901 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 of the magnet for several days subsequent to each renewal of the absorbent.

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

The 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.

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 millimetre of ordinate, and of 1 division of the reading scales, the curvature of which makes each division equidistant from the mirror.

The length of 500 divisions on each scale is 10 inches, or 254 millimetres.

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	·710
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 1907 are as follows :—

Date 1907.	Value of 1 Millimetre of Ordinate (C.G.S. Unit).	
	Horizontal Force.	Vertical Force.
d		
April 3	0·0000490	0·0000334
June 19	0·0000500	0·0000350
November 11	0·0000472	0·0000481

The vertical force magnet was adjusted on March 9, 15, 23, September 30, November 7, and was dismounted from October 17 to November 7 while ventilators were being fitted in the magnet Basement.

For converting the scale values into absolute units mean annual values of horizontal force and vertical force are used. The angular movement of the declination magnet produced by the deflector in the standard positions for horizontal force and vertical force deflections is determined usually once a year.

To facilitate the measures of the photographs, on 1904 August 22 the base line mirror of the declinometer was removed, the registering slit widened, and a glass scale inserted in place of the plano-convex cylindrical lens ; a scaled image of the slit is thus photographed on the paper and the variations of declination readily measured, the scale having been constructed to show minutes of arc.

To preserve, as far as possible, a constant scale zero, the adjustable slit plate was screwed to the end of the photographic telescope, and the latter securely clamped to its slate base, so that the steadiness of the zero now depends upon the steadiness of the slit and telescope ; whereas formerly it depended upon the steadiness of the base-line mirror.

Similar alterations to the horizontal force and vertical force magnetometers were made in December 1905, and the photographic arrangements modified to allow the declination, horizontal force and vertical force registers to run continuously for ten days, the two former on the same sheet. The paper is wound round the horizontal force cylinder and carried over a horizontal brass roller supported in a convenient position to intercept the beam of light from the horizontal force mirror ; it then passes over a second roller similarly placed with respect to the declination cylinder to which the end of the paper is attached. It is thus unwound from the horizontal force cylinder and wound up on the declination cylinder by the driving clock. In the same manner the paper from a vertical spool is wound up on the vertical force cylinder as the latter rotates, after passing over a vertical roller placed so as to intercept the beam of light from the vertical force mirror. The spool is made to turn with sufficient friction to prevent the paper from becoming slack.

On March 7 the lenses of the photographic telescopes were removed, and concave silver-backed glass mirrors, $1\frac{1}{2}$ inch in diameter, and 20 inches focal length, were substituted for the old plane glass mirrors, in order to improve the definition of the register. The necessary re-

arrangement of the declination and horizontal force telescopes and scales for eye observations was made on June 3-5. The vertical force scale was not re-mounted.

The distances from the backs of the mirrors to the scales and to the surface of the photographic paper are now as follows.

Magnetometer.	Distance from Back of Mirror.	
	To Scale.	To Photographic Paper.
	m.m.	m.m.
Declination	485	1,514
Horizontal Force	459	1,521
Vertical Force	...	1,499

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	1′.48″·0	1′.8″·1	1·586
Horizontal Force	1.54·2	1.7·8	1·684
Vertical Force	...	1.8·8	...

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

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

This result, differs considerably from that obtained in the year 1897 by artificially heating the magnet and noting the changes of scale reading produced thereby, but has been used in the horizontal force reductions 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, which furnish apparent corrections to the photographic measures (corrected for temperature in the case of horizontal force). These are plotted on a curve from which daily corrections are obtained and applied to the mean daily values of the element as derived from the magnetograms.

A correction of $-$ 1°.30′ has been applied to all observations of declination with the New Declinometer in the Declinometer Hut, in order to make the results comparable with those of former years, when the observations were taken in the Magnetic Pavilion.

An account of the comparisons made to determine the difference of declination on the two sites is given in the Introduction for 1905.

The results of the absolute determinations of horizontal force are given on pp. (ii) and (iii). The practice of deducing X from the observed value of T, and using an interpolated value of m appears to be justified by the steadiness of m, as revealed by the complete determinations. It should be mentioned that the vibration magnet is not touched between each set of vibration observations. It remains suspended except when used for deflecting the mirror magnet.

The Kew notation has been used in the reductions and in the headings of the Table.

At the beginning of the present year two new tables for facilitating the reductions were brought into use ; one giving the true values of $\log \frac{1}{2}r^3 + \log (1 + 2\mu/r^3 + c)$ for different values of t when the apparent values of r are 1·0 ft. and 1·3 ft. respectively, and the other the value of $\log \pi^2 K - \log (1 + H/F + \mu X/m - c)$ for different values of t when $(1 + H/F + \mu X/m) = 1{\cdot}002 = \beta$. A correction for small variations in the value of β is obtained from a subsidiary table.

A third table giving the values of P_1, $\log (1 - P/r_1^2)$ and $\log (1 - P/r_2^2)$ for different values of $(\log A_1 - \log A_2)$ when $\log A_1 = 3{\cdot}53$, is also used. The small variations in the observed value of $\log A_1$ give rise to no appreciable error. The adopted value of P is the mean of the values obtained on three successive days of observation.

The separate observations of dip in the several positions of the needle and instrument, together with the mean monthly dip from each needle, are given on pages (iv) and (v).

The mean daily values in each month of horizontal force and declination, with the diurnal ranges of horizontal force, vertical force and declination, and the mean daily temperature within the glass shade of the horizontal force magnetometer are presented in vertical columns in one table, pp. (vi) to (xi), as in the Meteorological section. The monthly mean diurnal inequalities have been similarly collected on pp. (xii) and (xiii), and the mean diurnal inequalities for the year on p (xiv).

The mean monthly values of the magnetic elements are given on page (xiv).

In computing the monthly mean diurnal inequality of vertical force for the year 1907, all available days were used ; but in horizontal force the following days were rejected on account of magnetic disturbance : January 5, 11, 15 ; February 7, 9, 10, 14 ; March 10, 21, 22 ; April 14 ; May 29 ; June 19 : July 11 ; August 30 ; September 10, 11, 17 26, 30 ;

October 1, 13, 14, 15, 22, 27 ; November 10, 11, 21, 22. Of these January 11 ; February, 7, 9, 10 ; March 10, 21, 22 ; May 29 ; June 19 ; September 10, 11 ; October 13, 14, 22 ; November 21, 22, were days of great disturbance. In declination the following days were rejected on account of disturbance—March 10 ; May 29 ; July 11 ; October 13, 14, 15.

The ordinates of the photographic curves are measured at each hour of the day, commencing at midnight and counting from 0^h to 23^h. The declination scale is graduated to show minutes of arc, each division being equal to 0·88 millimetre. The vertical force scale is graduated to millimetres, the mean hourly ordinates in each month being multiplied by the scale values given on page *xii* to convert them into absolute units. In the case of horizontal force, where the scale value is practically constant, one division on the scale is equal to 2·1 millimetres, the magnetometer having been so adjusted, in December 1905, that a change of 10 γ of horizontal force will produce a change of 2·1 millimetres of ordinate in place of 3·0 millimetres ; for though the magnetometer works well at the latter sensibility, the former suffices for all purposes except the clear registration of minute tremors (for which a more extended time scale is also necessary), the former sensibility has been adopted as, with a fixed slit and two registers on the same sheet, it is desirable that the range of motion should be as small as is consistent with accurate interpretation of the records which, under present conditions, can be measured to 1 γ of horizontal force and vertical force, and 0′·2 of declination.

Correction for any variation of scale value in the horizontal force magnetometer is made when necessary, by multiplying the diurnal inequalities and the daily ranges by the quantity S′/S ; S being the value of 1 millimetre of ordinate used in the construction of the glass scale (4·74 γ), and S′ the observed value.

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 Introductions for 1901 and 1902.

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

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 :

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

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 on pages (xii) and (xiii) 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.

A brief description of the principal magnetic disturbances recorded in the year 1907 is given at the foot of pages (vi) to (xi). In horizontal force and vertical force the unit of measurement is ·0001 of the Millimètre-Milligramme-Second Unit, or ·00001 of the Centimètre-Gramme-Second Unit. When any 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 on page (xv) except when the disturbance is of only a few hours 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.

Curves which do not admit of brief description in this way are reproduced on Plates (I) to (III).

§ 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.

In the month of May, 1904, the slate support for the barograph was cut, and the relative distances between the barometer, the lens, and the recording cylinder re-adjusted, so as to decrease the value of 1 inch of barograph ordinate from 0·63 to 0·196 inch of mercury.

As with this increased magnification the image of the slit is too wide for satisfactory registration, a disc, with fine vertical slit, was introduced near to the recording cylinder and arranged to carry a glass scale, by means of which the correct barometer scale is photographed on the sheet, white horizontal lines appearing at intervals of 0·051 inch (true) or 0·01 inch of mercury. The scale value was determined from measures of the barograms at the times of eye observations of the Standard barometer from 1904 May 15 to June 5.

The above alterations have effected a very considerable saving of time and labour in measuring the ordinates. Greater accuracy is also obtained, on account of the improved definition which the use of a fine slit near the cylinder ensures.

STANDARD BAROMETER.—The standard barometer, Negretti and Zambra No. 2,170, was purchased in the year 1904, and brought into regular use on 1906 January 1.

The instrument is mounted on a wooden stand 6 feet from the southern and 9 feet from the eastern wall of the Principal Computing Room. It 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 diameters of the tube is $0^{in}\cdot6$, and of the glass cistern $2^{ins}\cdot8$. The bulb of the attached thermometer is $0^{in}\cdot2$ in diameter and $0^{in}\cdot9$ long.

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

The barometer is read daily at 0^h, 6^h, 12^h, and 18^h, Mauritius Standard Time. The readings are reduced to temperature 32° Fahrenheit, but not to sea-level or to Standard gravity at latitude 45°.

Barometer Newman No. 128, which had been used as a Standard since 1891 September 26, was discarded on 1905 December 31, on account of the accumulation of scum on the mercury in the cistern. The history of this barometer, and of others used at different times as Standards, is given in the Introduction to previous Volumes.

From a discussion of the photographic records of the barograph and inter-comparison of the various Standard barometers, the following corrections to the published results have been deduced :—

CORRECTIONS APPLICABLE to the PUBLISHED OBSERVATIONS of BAROMETRIC PRESSURE.

Year. \ Month.	Jan.	Feb.	Mar.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1875	—·020	—·019	—·016	—·018	—·020	—·020	—·017	—·018	—·019	—·018	—·019	—·021
1876	—·019	—·019	—·019	—·018	—·018	—·018	—·018	—·019	—·021	—·021	—·022	—·020
1877	—·019	—·019	—·019	—·021	—·019	—·019	—·018	—·019	—·020	—·017	—·018	—·019
1878	—·020	—·020	—·019	—·018	—·018	—·018	—·018	—·018	—·018	—·018	—·019	—·019
1879	—·019	—·019	—·019	—·019	—·018	—·019	—·018	—·017	—·018	—·019	—·018	—·019
1880	—·019	—·019	—·019	—·020	—·017	—·018	—·017	—·019	—·018	—·019	—·018	—·019
1881	—·019	—·019	—·018	—·020	—·019	—·018	—·017	—·016	—·017	—·016	—·018	—·020
1882	—·020	—·018	—·019	—·020	—·019	—·018	—·017	—·017	—·018	—·017	—·018	—·020
1883	—·018	—·018	—·018	—·020	—·019	—·017	·000	+·001	—·002	—·001	—·001	—·001
1884	·000	—·001	—·001	·000	·000	+·001	+·001	—·001	—·001	—·002	—·001	—·001
1885	·000	—·001	—·001	—·001	—·002	+·001	+·001	—·001	—·001	+·001	+·001	·000
1886	—·001	—·001	—·001	·000	·000	·000	·000	·000	·000	·000	—·001	—·001
1887	·000	·000	·000	·000	·000	·000	·000	·000	·000	+·001	·000	—·001
1888	·000	+·001	·000	—·001	·000	—·001	·000	·000	·000	·000	·000	—·001
1889	—·001	—·001	—·001	·000	—·001	—·001	·000	—·001	·000	·000	—·001	·000
1890	—·001	·000	—·001	·000	·000	·000	·000	·000	·000	·000	·000	·000
1891	·000	—·001	·000	·000	·000	·000	+·001	+·001	·000	—·001	—·001	—·002
1892	—·001	·000	+·001	·000	·000	+·001	·000	·000	·000	·000	·000	·000
1893	·000	·000	·000	·000	·000	·000	·000	·000	·000	·000	·000	·000
1894	·000	·000	·000	+·001	·000	·000	·000	·000	·000	+·001	·000	·000
1895	·000	·000	·000	·000	·000	·000	·000	·000	·000	·000	·000	·000
1896	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001
1897	—·002	—·002	—·002	—·002	—·002	—·002	—·002	—·002	—·002	—·002	—·002	—·002
1898	—·003	—·003	—·003	—·003	—·003	—·003	—·003	—·003	—·003	—·003	—·003	—·003
1899	—·004	—·004	—·004	—·004	—·004	—·004	—·004	—·004	—·004	—·004	—·004	—·004
1900	—·005	—·005	—·005	—·005	—·005	—·005	—·005	—·005	—·005	—·005	—·005	—·005
1901	—·006	—·006	—·006	—·006	—·006	—·006	—·006	—·006	—·006	—·006	—·006	—·006
1902–5	—·007	—·007	—·007	—·007	—·007	—·007	—·007	—·007	—·007	—·007	—·007	—·007

The numbers in the above table, up to the end of the year 1891, include a small additional correction for temperature owing to the introduction, on 1892 January 1, of the International Tables of temperature corrections, which differ slightly from those formerly in use; also a further correction, up to the end of the year 1895, on account of incomplete standardisation of the barograph records.

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 0^h, 6^h, 12^h, and 18^h, and the observations used to standardise the photographic records of the Thermograph.

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

Observations of air and evaporation temperatures in the Principal Computing Room, and in a Stevenson screen on the lawn, were discontinued on 1903 December 31.

PHOTOGRAPHIC THERMOMETERS.—To facilitate measurement of the thermograms, in the month of September thermometers with wide flat bores, and carrying their own scales, were substituted for the old round bore thermometers with an air bubble in their stems. For photographic registration a metal plate with fine vertical slit is fixed to the stem of each thermometer in such a manner that the rays from the lamp, passing through the slit, produce a fine vertical band of light on the photographic paper. In the case of the dry bulb thermometer the length of the band is determined by the height of the mercury in the stem, but in the wet bulb thermometer the length of the band is constant, being the image of an air bubble let into the mercury, which rises and falls with the temperature. The lamps and mirrors are so arranged that the wet bulb register falls immediately below the dry bulb register.

RADIATION THERMOMETERS.—The solar radiation thermometers, Hicks No. 521,214 and M. O. No. 583, are mounted horizontally in the thermometer enclosure on a wooden stand 4 feet above the grass. 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 18^h.

The values given in column 14 of the "Daily Results of Meteorological Observations" are the readings of Hicks No. 521,214 after the application of the following corrections to make them comparable with the former Standard (Hicks No. 211,682) :—

Reading of Hicks No. 521,214	110°	120°	130°	140°	150°	160°
Correction	−6°·8	−7°·3	−7°·8	−8°·1	−8°·4	−8°·8

The corrections are derived from daily comparisons between Hicks No. 521,214 and Negretti and Zambra No. 65,011 from 1904 January 1 to 1906 August 23, combined with similar comparisons between the latter thermometer and Hicks No. 211,682 from 1890 September 1 to 1891 December 31.

The terrestrial radiation thermometer, N. &. Z. No. 41178, is a self-registering spirit minimum thermometer, with spherical bulb. It is mounted horizontally in the thermometer enclosure on a metal stand 6 inches above the grass. The index is read daily at 0^h and 6^h and

a correction obtained by comparing the readings of the spirit at these hours with the corrected readings of a mercurial thermometer, M.O. No, 932 which is mounted close to the radiation thermometer with its bulb at the same height above the grass.

EARTH THERMOMETERS.—The earth thermometers Casella Nos. 12,380 and 109,087 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 cast-iron pipes let into the ground, in the thermometer enclosure, and their bulbs are respectively 62 inches and 118 inches below the surface. Both are read daily at 9^h.

The pipe containing thermometer No. 109,087 having become unserviceable through rust, was replaced on April 25, and a second thermometer, No. 109, 088, attached to the chain with its bulb at a depth of 62 inches below the surface of the ground, in order that its readings might be compared with those of thermometer No. 12,380. At the same time it was found that the bulb of thermometer No. 109,087 was 118 inches below the surface of the ground and not 120 inches as stated in former volumes.

The mean results of the comparisons for each month from May to December are as follows.—

Month.	Thermometer.		(a—b)
	Attached to chain of 10 feet thermometer (a).	At end of chain in adjacent pipe (b).	
	°	°	°
May	78·19	78·35	— 0·16
June	77·05	76·60	+ 0·45
July	75·63	75·06	+ 0·57
August...	74·85	74·23	+ 0·62
September	74·92	74·47	+ 0·45
October	75·60	75·40	+ 0·20
November	76·70	77·02	— 0·32
December	78·29	78·86	— 0·57

COMPARISON OF THERMOMETERS.—The ordinary mercurial thermometers for eye observations are compared twice a year, near mid-winter and mid-summer, with Standard thermometer No. 701, specially constructed at the Kew Observatory, and calibrated in the year 1891. 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 1906 and 1907 are given below ; together with the correction adopted in the Reductions for the year 1907. The mean of three consecutive determinations is adopted as the correction for the following six months :—

Exposure.	Thermometer.	Temperature during Comparisons.	Correction.					
			1906 January.	1906 July.	1907 January.	1907 July.	Adopted in 1907. January to June.	Adopted in 1907. July to December.
Thermograph Screen.	Dry bulb, No. 714.	° 63 70 80 83	° — 0·09	° — 0·13 — 0·07	° — 0·10 — 0·10	° — 0·14 — 0·10	° — 0·11	° — 0·11
	Wet bulb, No. 715.	63 70 80 83	— 0·11	— 0·12	— 0·14 — 0·12	— 0·16 — 0·12 — 0·13	— 0·12	— 0·13
62 inches below surface of ground.	Earth, No. 12,380.	67 70 76	— 0·59	— 0·70	— 0·64	— 0·63	— 0·6	— 0·6
118 inches below surface of ground.	Earth, No. 109,087.	66 70 76	— 0·14	— 0·30	— 0·31	— 0·30	— 0·25	— 0·30
On Barometer (Negretti and Zambra No. 2,170).	Dry bulb, No. 109,841.	66 70 73	— 0·25	— 0·15		— 0·21	— 0·2	— 0·2
On grass.	Dry bulb, No. 23,024.	64 70 76	— 0·66	— 0·59	— 0·63		— 0·6	
	Dry bulb, No. 932.	42 82				0·0 0·0 (Kew)		— 0·0
Magnetic Pavilion.	For deflections, No. 134.	18 22 25	— 0·09		— 0·11	— 0·13	— 0·10	— 0·11
	For vibrations, No. 120,566.	18 25			— 0·09	— 0·15	— 0·05	— 0·12

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

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 on 1903 May 7. The results of comparisons with Standard No. 701 are as follows :—

Date.	Excess of 701 over 774.	Number of Comparisons.	Temperature.
	°		°
1903 May 7	0·00	17	66
1903 June 25	—0·03	12	65
1904 January 19	—0·02	56	71
1904 July 1	—0·03	24	63
1905 January 12	—0·05	8	73
1905 July 20	—0·07	12	60
1906 January 6	—0·02	12	70
1906 July 7	—0·04	10	66
1907 January 11	—0·05	12	76
1907 June 21	—0·05	20	65

The comparisons indicate that thermometer No. 774 has developed a small positive error, rather than that No. 701 which was received in 1891, has developed a negative error.

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 midnight.

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 11·28 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 midnight, and the difference between two successive readings, after due allowance for any rain which may have fallen and for water added or removed, gives the amount of water evaporated in the interval.

OZONOMETER.—The ozonometer is of the pattern recommended by Sir James Clarke, and is suspended at the south-east corner of the verandah of the Main Building. It consists of a double cylindrical wire gauze cage 10 inches high, the outer cage being 6½ inches in diameter and the inner cage 3½ inches. The 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 midnight, 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 in summer than in winter, as the ends are not cut parallel to the horizon. Under favourable atmospheric conditions the instrument will record from about 8 minutes after sunrise until 8 minutes before sunset in June, while in December no record is obtained within about 20 minutes of sunrise and sunset.

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

ACTINOMETER.—The actinometer is of the pattern described by the late Professor Balfour Stewart (*Nature*, Vol. XIII., page 118), and admits of observation of the heating effect of the sun upon a sensitive thermometer. The bulb of the thermometer is alternately shaded and exposed to the concentrated rays of the sun for exactly 2 minutes, and the reading at the instant of opening and closing the shutter noted, 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.

NEPHOSCOPE.—On 1904 February 12 a Marvin Nephoscope was set up on a massive brass tripod 200 feet to the north-north-west of the Main Building. The instrument is fully described in Prof. Bigelow's *Report on the International Cloud Observations (Report of the Chief of the Weather Bureau, U.S.A.*, 1898–9, Vol. II.)

Observations of the direction of motion of the clouds are made as follows :—The images of the cloud and knob of the sighting staff are made to coincide at the centre of the mirror ; then, still keeping the image of the knob at the centre of the mirror, the latter is rotated on on its axis until the cloud appears to move along a graduated line etched diametrically on the surface of the mirror. The azimuth of this line, and hence the direction of motion of the cloud is then read off on the graduated circle.

§ 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 Standard 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 0^h, 6^h, 12^h, and 18^h ; the corrections for intermediate hours being found by interpolation. A mean daily correction is adopted for periods during which it is sensibly constant.

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, 8,23, 24, and 29 are derived from the hourly measures of the several registers, taking into account the difference between the ordinate at 0^h and 24^h on each day, as explained on page *xv* in the case of magnetic declination and horizontal force. 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, and degree of humidity are deduced directly from the mean daily temperature of the air and of evaporation, by the aid of tables based upon Glaisher's *Hygrometrical Tables*, which give the temperature of the dew point to 0°·1 and the relative humidity to 0·1 per cent, for every degree of air temperature and every 0°·1 difference between air and evaporation temperatures.

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. These hours have been used to render the results comparable with those of former years; though observations of the amount of cloud have been made hourly since October 1903, The mean monthly amount of cloud as derived from the 24 hourly values was less than that derived from the values at 6^h, 9^h, 13^h and 15^h by the following amounts in the years 1904, 1905, 1906, and 1907.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1904	+ 0·8	+ 0·6	+ 0·6	+ 0·6	+ 0·8	+ 0·9	+ 0·9	+ 0·7	+ 0·5	+ 0·5	+ 0·6	+ 0·5	+ 0·67
1905	+ 0·2	+ 0·8	+ 0·6	+ 0·7	+ 1·0	+ 0·9	+ 0·4	+ 0·7	+ 1·3	+ 0·7	+ 0·5	+ 0·9	+ 0·72
1906	+ 0·9	+ 0·7	+ 0·5	+ 1·3	+ 1·1	+ 0·8	+ 0·7	+ 0·4	− 0·2	− 0·1	− 0·7	+ 0·2	+ 0·47
1907	− 0·1	+ 0·1	0·0	+ 0·2	+ 0·1	+ 0·4	+ 1·2	+ 0·8	+ 0·7	+ 0·7	+ 1·1	+ 0·5	+ 0·47

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 direction *from* which the wind blows. In column 29 is given the mean 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 daily departures from average of Barometric Pressure, Mean Temperature of the Air and of the Dew Point, Mean Resultant 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 these elements.

The monthly values of the principal meteorological elements are collected on page (xlii) and their normals given on page (xliii). The normal monthly rainfall as derived from the daily readings of the Glaisher gauge, made until 1903 June 30 at 9 a.m., has been 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.

In counting days of thunderstorm, those days are included on which thunder was recorded, even though no lightning was seen: those on which lightning was seen, but no thunder heard, have not been counted.

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

In the monthly and annual mean diurnal inequalities of the meteorological elements pages (xlv) to (li), 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 reductions the quantity $(x_0 - x_{24})$ signifies a real change in the element, only a portion of which (that due to the 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. In order to make the diurnal inequalities of the amount and duration of rainfall and the duration of bright sunshine comparable with those of the other elements mean values have been given, whereas in former volumes previous to 1905, monthly totals were published. It should be mentioned also that in these elements the numbers represent the inequality during the hour *beginning* 0^h, 1^h, 2^h, &c.

In the table "Direction of Motion of the Various Types of Cloud," pages (lii) and (liii), the azimuth rotation adopted is from South (0°) through East (90°), North (180°), and West (270°); the values indicate the direction from which the clouds come.

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

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

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

In computing the transmissibility of the air the exponential formula of Pouillet has been used :—

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

where x is the coefficient of transmission of a ray from a zenith sun through the atmosphere, when its pressure is equivalent to 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.

Even assuming the above formula to be correct for composite rays, in determining P_0 and x from two observation equations it is further necessary to assume that these quantities, and also the sensibility of the instrument, have the same value in each equation ; but as all three are variable, the mean value of P_0 (11°·21) derived from 17 years' observations has been used in computing the values of x given on page (lvi), which are therefore affected by variations in P_0 and the sensibility of the instrument. They show approximately, however, the variability of x from day to day.

The Rainfall tables, pages (lvii) to (lxi), have been compiled from information furnished by the proprietors of sugar estates, and other amateur observers. 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 1907.

The information concerning cyclones, in the South Indian Ocean (appendix 1) has been derived from log books placed at the disposal of the Director by the Commanders of vessels touching at Mauritius, and also from observations received from various Islands in the Indian Ocean in addition to those made at Mauritius. For these observations special acknowledgments are due to the Rev. E. Colin S.J., (Madagascar) Mr. Bertho (Réunion), Mr. Besly (Rodrigues) and Mr. de Caila (Diego Garcia).

The tracks of cyclones in the South Indian Ocean from 1886 to 1907 are given in plates (IV)-(XII). Those for 1848 to 1885 were published by the London Meteorological office in the year 1891 (Official No. 90) from information supplied by the late Director Dr. Meldrum.

The results of Seismological Observations made during the year 1907 (Appendix 2) are explained in a separate Introduction.

T. F. CLAXTON,

ROYAL ALFRED OBSERVATORY, MAURITIUS.

RESULTS

OF

MAGNETICAL OBSERVATIONS.

1907.

DETERMINATIONS OF HORIZONTAL MAGNETIC FORCE in the YEAR 1907.

Mauritius Standard Time, 1907.		Deflecting Magnet.				Observed Deflection.		Temperature (Centigrade).	In Metric Measure.		
		Observed Time of one Vibration. T'.	Effect of 90° Torsion.	$\left(1 + \frac{H}{P} + \frac{\mu A}{m}\right)$	Temperature (Centigrade).	Distance. 1.0 feet.	Distance. 1.3 feet.		$\log A_1 - \log A_2$	Apparent value of P.	Adopted value of P.
	d h	Secs.	′		°	° ′	° ′	°		(−)	(−)
January	8. 10	3·7924	3·00	1·00212	25·7	...	...	...	...	...	...
	16. 11	3·7996	3·00	1·00212	28·0	13.36·42	6. 9·39	28·4	·00066	3·47	5·26
	16. 14	3·8011			29·8	13.35·79	6. 9·70	29·4	·00127	6·69	
	29. 9	3·7960	2·87	1·00209	26·3	13.35·97	6. 9·63	26·6	·00111	5·85	5·63
	31. 11	3·7947	2·87	1·00209	27·5	13.36·51	6. 9·90	26·7	·00113	5·95	5·90
February	16. 11	3·8011	2·90	1·00210	28·7	13.36·50	6. 9·87	28·9	·00111	5·85	5·63
	16. 14	3·7966			30·2	13.37·16	6.10·20	29·9	·00113	5·95	
	25. 10	3·8003	2·93	1·00211	27·5	13.37·22	6.10·22	27·9	·00114	6·01	5·00
	25. 13	3·8021			29·9	13.36·51	6. 9·58	29·6	·00075	3·94	
March	8. 9	3·7962	2·98	1·00212	27·1	...	...	...	...	...	...
	11. 9	3·8000	3·00	1·00212	25·7	...	...	...	...	...	...
	18. 10	3·7985	3·04	1·00213	26·9	13.36·58	6. 9·72	27·2	·00079	4·15	4·63
	30. 11	3·7943	3·12	1·00214	26·9	13.36·39	6. 9·72	26·5	·00098	5·16	4·47
	30. 14	3·7967			27·9	13.36·37	6. 9·56	27·8	·00080	4·21	
April	18. 10	3·7970	3·33	1·00217	25·4	13.37·57	6.10·06	24·7	·00076	4·00	4·52
	18. 14	3·7990			27·0	13.36·59	6. 9·78	27·4	·00095	5·00	
	26. 10	3·7983	3·75	1·00225	24·5	13.37·32	6.10·01	25·0	·00083	4·37	4·84
	29. 11	3·7943	3·90	1·00228	23·4	13.38·75	6.10·82	22·9	·00106	5·58	4·84
May	15. 10	3·7892	4·62	1·00241	20·0	13.39·83	6.11·15	20·9	·00086	4·52	5·69
	22. 10	3·7930	4·95	1·00248	22·4	13.38·77	6.11·06	21·7	·00131	6·91	5·74
	28. 10	3·7918	5·27	1·00254	22·2	13.38·18	6.10·47	22·8	·00094	4·95	5·90
	28. 14	3·7931			24·4	13.36·68	6.10·11	24·4	·00129	6·80	
June	17. 9	3·7902	6·10	1·00269	20·6	13.38·77	6.10·78	21·2	·00098	5·16	5·26
	17. 14	3·7932			22·6	13.38·84	6.10·74	22·4	·00091	4·79	
	26. 14	3·7927	6·43	1·00276	23·1	13.37·93	6.10·40	23·3	·00098	5·16	5·10
	27. 10	3·7896	6·43	1·00276	20·9	13.37·92	6.10·40	21·7	·00100	5·26	5·63
	27. 13	3·7954			24·4	13.37·21	6.10·10	24·5	·00099	5·21	
July	11. 10	3·7916	6·82	1·00282	17·6	13.40·21	6.11·75	19·1	·00136	7·17	5·79
	11. 14	3·7966			22·2	13.38·62	6.10·87	22·1	·00118	6·22	
	26. 10	3·7894	7·05	1·00287	17·4	13.38·87	6.10·75	20·5	·00090	4·74	5·53
	26. 13	3·7949			23·1	13.37·54	6.10·37	23·0	·00114	6·01	
	31. 11	3·7938	7·13	1·00289	20·1	...	...	...	...	...	...
August	6. 9	3·7930	7·20	1·00290	19·7	...	...	...	...	...	...
	9. 9	3·7872	7·25	1·00291	16·2	13.39·29	6.11·08	19·0	·00106	5·58	4·84
	9. 14	3·7933			22·7	13.39·14	6.10·62	23·0	·00062	3·26	
	16. 8	3·7899	7·30	1·00292	18·4	...	...	...	...	...	...
	20. 9	3·7895	7·32	1·00292	21·1	...	...	...	...	...	...
	23. 10	3·7910	7·34	1·00293	19·7	13.39·21	6.11·00	20·9	·00101	5·32	5·16
	23. 13	3·7933			24·0	13.38·16	6.10·33	25·4	·00077	4·05	
	29. 9	3·7940	7·35	1·00293	20·2	...	...	...	...	...	...
September	4. 8	3·7960	2·42	1·00201	19·4	...	...	...	...	...	...
	9. 10	3·7966	2·41	1·00201	21·5	13.37·85	6.10·48	22·5	·00112	5·90	5·74
	9. 13	3·7990			25·0	13.37·25	6.10·41	24·4	·00133	7·01	
	14. 8	3·7985	2·41	1·00201	22·9	...	...	...	...	...	...
	19. 9	3·7977	2·40	1·00201	20·9	...	...	...	...	...	...
	24. 10	3·7950	2·39	1·00201	22·0	13.38·58	6.10·50	23·0	·00076	4·00	5·26
	24. 13	3·8011			26·6	13.36·62	6.10·30	26·2	·00155	8·18	
	30. 9	3·8006	2·37	1·00200	24·6	...	...	...	...	...	...
October	5. 9	3·7998	2·34	1·00200	24·4	...	...	...	...	...	...
	11. 13	3·8057	2·31	1·00199	29·0	13.35·40	6. 9·07	30·6	·00074	3·89	4·15
	29. 10	3·8046	1·85	1·00189	26.2	13.36·92	6. 9·66	26·6	·00064	3·36	4·21
	29. 13	3·8060			28·3	13.36·58	6. 9·37	27·7	·00048	2·52	
	31. 9	3·8009	1·68	1·00187	25·3	13.37·48	6.10·59	25·9	·00144	7·59	4·89
	31. 14	3·8060			30·5	13.36·15	6. 9·61	29·7	·00097	5·11	
November	14. 12	3·8012	2·00	1·00193	29·6	13.35·15	6. 9·32	29·6	·00096	5·05	5·63
	15. 9	3·8041	2·00	1·00193	29·0	13.36·75	6. 9·99	27·1	·00112	5·90	5·63
	28. 13	3·8013	2·44	1·00201	28·9	13.35·20	6. 9·11	28·7	·00099	5·21	5·37
	28. 15	3·8068			30·1	13.35·70	6. 9·40	29·7	·00097	5·11	
December	16. 12	3·8050	1·67	1·00187	28·4	13.36·30	6. 9·42	28·4	·00068	3·57	4·84
	17. 12	3·8047	1·67	1·00187	27·9	13.36·57	6.10·15	27.3	·00139	7·33	4·84
	31. 9	3·8026	1·72	1·00187	27·2	13.36·47	6. 9·75	27·4	·00098	5·16	4·58
	31. 13	3·8056			29·4	13.35·99	6. 9·15	29·1	·00052	2·74	

DETERMINATIONS OF HORIZONTAL MAGNETIC FORCE in the YEAR 1907—*continued.*

Mauritius Standard Time, 1907.			In Metric Measure (C.G.S. Unit).										
			$\log T^2$.	$\log \frac{\pi^2 K}{H + \mu \frac{X}{m}(1+e)}$	$\log m X$.	$\log \frac{m}{X}$	log m. Observed.	log m. Inferred.	$\log X$.	X.	Magnetograph Reading.	Correction to Magnetograph.	Observer.
	d	h											
January	8.	10	1·15488	3·42712	2·27224	...	...	2·90041	9·37183	·23541	·23751	—·00210	W.
	16.	11	1·15948	3·43048	2·27100	3·52958	2·90029	...	9·37071	·23481	·23695	—·00214	W.
	16.	14	1·15982	3·43081	2·27099	3·52980	2·90039	...	9·37059	·23474	·23688	—·00216	W.
	29.	9	1·15866	3·43016	2·27150	3·52938	2·90044	...	9·37106	·23500	·23734	—·00234	W.
	31.	11	1·15836	3·43038	2·27202	3·52982	2·90092	...	9·37110	·23502	·23731	—·00229	W.
February	16.	11	1·15982	3·43060	2·27078	3·53012	2·90045	...	9·37033	·23460	·23693	—·00233	W.
	16.	14	1·15879	3·43091	2·27212	3·53067	2·90140	...	9·37072	·23481	·23686	—·00205	W.
	25.	10	1·15964	3·43042	2·27078	3·53009	2·90044	...	9·37034	·23461	·23703	—·00242	W.
	25.	13	1·16004	3·43086	2·27082	3·52984	2·90033	...	9·37049	·23469	·23723	—·00254	W.
March	8.	9	1·15870	3·43034	2·27164	...	...	2·90036	9·37128	·23511	·23758	—·00247	W.
	11.	9	1·15956	3·43010	2·27054	...	...	2·90036	9·37018	·23452	·23705	—·00253	W.
	18.	10	1·15922	3·43031	2·27109	3·52930	2·90020	...	9·37090	·23491	·23746	—·00255	W.
	30.	11	1·15826	3·43031	2·27205	3·52910	2·90057	...	9·37147	·23522	·23761	—·00239	W.
	30.	14	1·15882	3·43045	2·27163	3·52926	2·90044	...	9·37119	·23507	·23767	—·00260	W.
April	18.	10	1·15888	3·43000	2·27112	3·52930	2·90021	...	9·37091	·23491	·23759	—·00268	W.
	18.	14	1·15934	3·43027	2·27093	3·52940	2·90016	...	9·37076	·23483	·23754	—·00271	W.
	26.	10	1·15918	3·42982	2·27064	3·52938	2·90001	...	9·37063	·23476	·23774	—·00298	W.
	29.	11	1·15826	3·42962	2·27136	3·52984	2·90060	...	9·37076	·23483	·23750	—·00267	W.
May	15.	10	1·15710	3·42905	2·27195	3·53026	2·90110	...	9·37084	·23488	·23778	—·00290	W.
	22.	10	1·15796	3·42946	2·27150	3·53010	2·90080	...	9·37070	·23480	·23763	—·00283	W.
	28.	10	1·15769	3·42926	2·27157	3·52986	2·90072	...	9·37086	·23489	·23778	—·00289	W.
	28.	14	1·15798	3·42964	2·27166	3·52955	2·90060	...	9·37105	·23499	·23786	—·00287	W.
June	17.	9	1·15732	3·42893	2·27161	3·52967	2·90064	...	9·37097	·23495	·23773	—·00278	W.
	17.	14	1·15801	3·42927	2·27126	3·52987	2·90057	...	9·37070	·23480	·23767	—·00287	W.
	26.	14	1·15789	3·42933	2·27144	3·52950	2·90140	...	9·37140	·23493	·23756	—·00263	F.
	27.	10	1·15718	3·42895	2·27177	3·52944	2·90161	...	9·37117	·23506	·23777	—·00271	F.
	27.	13	1·15852	3·42955	2·27103	3·52961	2·90032	...	9·37071	·23481	·23765	—·00284	F.
July	11.	10	1·15766	3·42835	2·27069	3·53046	2·90057	...	9·37011	·23448	·23747	—·00299	F.
	11.	14	1·15879	3·42912	2·27033	3·53004	2·90018	...	9·37015	·23450	·23731	—·00281	F.
	26.	10	1·15715	3·42830	2·27115	3·52965	2·90040	...	9·37075	·23483	·23767	—·00284	F.
	26.	13	1·15841	3·42928	2·27087	3·52955	2·90021	...	9·37066	·23478	·23784	—·00306	F.
	31.	11	1·15815	3·42891	2·27076	...	...	2·90035	9·37041	·23465	·23763	—·00298	F.
August	6.	9	1·15734	3·42889	2·27155	...	...	2·90043	9·37112	·23503	·23768	—·00265	F.
	9.	9	1·15664	3·42811	2·27147	3·52943	2·90045	...	9·37102	·23497	·23766	—·00269	F.
	9.	14	1·15804	3·42921	2·27117	3·52985	2·90051	...	9·37066	·23478	·23761	—·00283	F.
	16.	8	1·15724	3·42873	2·27149	...	...	2·90045	9·37104	·23498	·23784	—·00286	F.
	20.	9	1·15716	3·42892	2·27176	...	...	2·90045	9·37131	·23513	·23795	—·00282	F.
	23.	10	1·15750	3·42869	2·27119	3·52981	2·90050	...	9·37069	·23479	·23763	—·00284	F.
	23.	13	1·15804	3·42943	2·27139	3·52962	2·90050	...	9·37088	·23490	·23756	—·00266	F.
	29.	9	1·15820	3·42914	2·27094	...	...	2·90042	9·37052	·23470	·23792	—·00322	F.
September	4.	8	1·15865	3·42901	2·27036	...	...	2·90025	9·37011	·23448	·23781	—·00333	F.
	9.	10	1·15879	3·42936	2·27057	3·52966	2·90012	...	9·37045	·23467	·23773	—·00306	F.
	9.	13	1·15934	3·42999	2·27065	3·52982	2·90024	...	9·37041	·23465	·23766	—·00301	F.
	14.	8	1·15922	3·42962	2·27040	...	...	2·90020	9·37020	·23453	·23767	—·00314	F.
	19.	9	1·15904	3·42927	2·27023	...	...	2·90022	9·37001	·23443	·23752	—·00309	F.
	24.	10	1·15842	3·42946	2·27104	3·52978	2·90041	...	9·37063	·23476	·23772	—·00296	F.
	24.	13	1·15982	3·43026	2·27044	3·52975	2·90059	...	9·37034	·23461	·23761	—·00300	F.
	30.	9	1·15970	3·42990	2·27020	...	...	2·90018	9·37002	·23443	·23780	—·00337	F.
October	5.	9	1·15952	3·42988	2·27036	...	...	2·89995	9·37031	·23459	·23686	—·00327	F.
	11.	13	1·16087	3·43072	2·26985	3·52915	2·89950	...	9·37035	·23461	·23789	—·00328	W.
	29.	10	1·16062	3·43023	2·26961	3·52913	2·89937	...	9·37024	·23455	·23787	—·00332	W.
	29.	13	1·16094	3·43061	2·26967	3·52909	2·89938	...	9·37029	·23458	·23800	—·00342	W.
	31.	9	1·15978	3·43008	2·27030	3·52994	2·90012	...	9·37018	·23452	·23778	—·00326	W.
	31.	14	1·16094	3·43102	2·27008	3·52975	2·89991	...	9·37016	·23451	·23774	—·00323	W.
November	14.	12	1·15984	3·43085	2·27101	3·52945	2·90023	...	9·37078	·23484	·23800	—·00316	W.
	15.	9	1·16050	3·43074	2·27024	3·52990	2·90007	...	9·37017	·23452	·23790	—·00338	W.
	28.	13	1·15986	3·43068	2·27082	3·52920	2·90001	...	9·37081	·23486	·23810	—·00324	W.
	28.	15	1·16112	3·43090	2·26978	3·52968	2·89973	...	9·37005	·23445	·23785	—·00340	W.
December	16.	12	1·16070	3·43063	2·26993	3·52940	2·89967	...	9·37026	·23456	·23804	—·00348	W.
	17.	12	1·16064	3·43056	2·26992	3·52970	2·89981	...	9·37011	·23448	·23798	—·00350	W.
	31.	9	1·16016	3·43043	2·27027	3·52936	2·89981	...	9·37045	·23467	·23802	—·00335	W.

The initials W. and F. are those of Mr. Walter and Figon respectively.

RESULTS OF OBSERVATIONS of MAGNETIC DIP made in the MAGNETIC PAVILION in the YEAR 1907.

NEEDLE No. 1.

Mauritius Standard Time, 1907.			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.	Monthly Means.	Observer.
	d	h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	4.	9	55·29·7	50.37·0	53.14·0	53· 5·7	54.19·0	54.28·3	52. 5·7	56.48·2	53·45·9	53·47·1	F.
	30.	9	55·38·7	50.33·0	53.22·5	53· 1·8	54.26·8	54.19·7	52.12·2	56.51·7	53·48·3		F.
February	2.	9	55·37·5	50.40·7	53.24·3	52.56·7	54.19·8	54.26·5	51.58·2	57· 1·2	53·48·1	53·48·6	F.
	28.	9	55·25·3	50.45·2	53.25·0	53· 3·8	54.18·7	54.36·2	52. 4·8	56.54·2	53·49·1		F.
March	2.	9	55·38·5	50.36·2	53.26·2	52.57·7	54.14·3	54.38·2	52. 4·7	56.55·8	53·48·9	53·49·1	F.
	28.	9	55·42·2	50.35·5	53.28·8	52.57·0	54.12·8	54.40·2	52. 6·2	56.50·7	53·49·2		F.
April	3.	9	55·43·2	50.41·2	53.18·8	53.11·2	54.21·7	54.38·2	52.13·3	56.55·3	53·52·9	53·53·2	F.
	29.	15	55·46·2	50.36·0	53.21·2	53· 7·8	54.23·5	54.40·2	52.19·0	56.55·3	53·53·6		F.
May	3.	9	55·35·3	50.44·0	53.13·2	53.13·2	54.13·2	54.27·7	52.13·3	56.48·7	53·48·6	53·48·6	F.
	28.	9	55·49·0	50.56·7	53.18·2	53· 1·3	54.14·8	54.20·8	52. 6·0	56.42·2	53·48·6		F.
June	4.	9	55·37·3	50.48·0	53.18·8	53· 6·7	54· 9·2	54.28·7	52. 7·3	56.39·2	53·46·9	53·47·7	F.
	21.	9	55·34·7	50.52·8	53.17·2	53.10·5	54· 5·8	54.36·2	52. 5·8	56.44·5	53·48·4		F.
July	2.	9	55·29·2	50.39·0	53.13·8	53· 3·3	54.11·2	54.41·8	52. 7·0	56.51·2	53·47·1	53·45·4	F.
	29.	9	55·28·5	50.39·5	53.14·5	53· 2·5	54.12·2	54.26·2	52. 8·7	56.37·7	53·43·7		F.
August	2.	9	55·35·5	50.44·2	53.22·7	53· 5·2	54· 5·2	54.28·8	52. 5·8	56.42·2	53·46·2	53·45·4	F.
	28.	9	55·15·0	50.50·7	53· 8·7	53· 4·7	54.10·5	54.37·2	52. 6·3	56.44·8	53·44·7		F.
September	2.	9	55·28·2	50.40·5	53.23·3	52.59·0	54.19·2	54.38·2	52. 9·8	56.42·2	53·47·6	53·48·7	F.
	28.	9	55·30·2	50.43·3	53.22·8	53· 3·0	54.21·2	54.38·2	52. 9·2	56.49·5	53·49·7		F.
October	2.	9	55·42·3	50.29·5	53.27·5	52.49·7	54.17·3	54.46·2	52.11·8	56.41·3	53·48·2	53·50·6	F.
	28.	9	55·25·2	50.50·2	53.17·2	53· 3·2	54.15·3	54.55·5	52.16·8	57· 1·2	53·53·1		F.
November	4.	9	55·25·3	50.55·0	53.20·0	53· 8·2	54· 9·8	54.47·5	52.16·2	56.49·2	53·51·4	53·49·0	F.
	28.	9	55·28·5	50.43·7	53.13·2	52.56·3	54· 4·8	54.47·5	52.10·5	56.48·2	53·46·6		F.
December	2.	9	55·30·2	50.31·5	53.17·0	52.41·5	54· 8·2	54.46·5	52.11·3	56.48·2	53·44·3	53·44·8	F.
	27.	9	55·25·0	50·57·2	52.55·0	52.46·8	54.22·8	54.34·3	52.11·8	56·49·2	53·45·3		W.

NEEDLE No. 2.

	d	h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	7.	9	54·44·8	52.57·3	52.52·0	54.55·5	54.50·7	52.54·5	52.54·2	54.45·8	53·51·8	53·49·6	F.
	24.	9	54·49·5	52.51·5	52.55·3	54.39·2	54.50·7	52.44·8	52.46·0	54.42·2	53·47·4		F.
February	6.	9	54·43·5	52.51·5	52.56·2	54.37·5	54.43·8	52.49·3	52.55·3	54.49·2	53·48·3	53·48·5	F.
	25.	9	54·47·7	52.57·2	52.55·2	54.41·8	54.44·8	52.44·7	52.50·0	54.49·0	53·48·8		F.
March	6.	9	54·33·8	53· 4·5	52.50·7	54.47·8	54.49·2	52.40·3	52.46·3	54.40·3	53·46·6	53·46·7	F.
	25.	9	54·41·2	53· 0·7	52.56·7	54.39·3	54.52·0	52.37·7	52.44·7	54.41·3	53·46·7		F.
April	6.	9	54·48·8	52.51·2	53· 5·0	54.34·3	54.47·2	52.43·0	52.44·3	54.46·7	53·47·6	53·48·3	F.
	24.	9	54·50·5	52.55·0	53· 0·3	54.40·3	54.50·8	52.43·5	52.48·3	54.43·8	53·49·1		F.
May	7.	10	54·43·3	52.59·3	52.56·7	54.43·0	54.52·8	52.47·8	52.46·5	54.42·2	53·49·0	53·48·0	F.
	23.	10	54·46·5	52.49·0	53· 0·3	54.38·5	54.48·2	52.39·5	52.43·0	54.50·3	53·46·9		F.
June	6.	9	54·45·0	52.53·8	52.57·7	54.37·8	54.50·7	52.46·5	52.41·5	54.40·0	53·46·6	53·47·0	F.
	24.	10	54·43·3	52.59·0	52.56·7	54.42·3	54.41·8	52.53·3	52.40·7	54.42·7	53·47·5		F.
July	6.	11	54·46·0	52.55·0	52.59·0	54.44·5	54.50·5	52.50·2	52.38·8	54.42·7	53·48·3	53·47·7	F.
	24.	9	54·32·8	53· 4·3	52.50·8	54.48·3	54.45·3	52.44·0	52.41·2	54.49·2	53·47·0		F.
August	5.	13	54·46·3	52.54·2	52.55·8	54.36·5	54.38·8	52.42·2	52.52·8	54.38·2	53·45·6	53·45·1	F.
	24.	9	54·38·5	52.57·2	52.56·0	54.37·8	54.44·3	52.38·2	52.44·5	54.40·3	53·44·6		F.
September	6.	9	54·41·2	52.52·2	52.56·7	54.34·0	54.45·5	52.48·0	52.47·5	54.39·2	53·45·5	53·45·1	F.
	25.	9	54·44·7	52.55·0	52.54·8	54.25·5	54.51·2	52.42·3	52.46·0	54.38·2	53·44·7		F.
October	7.	9	54·42·0	52.52·7	52.56·3	54.37·2	54.44·3	52.49·2	52.41·5	54.39·8	53·45·4	53·45·9	F.
	24.	9	54·43·0	52.56·2	52.54·0	54.37·0	54.46·5	52.47·7	52.46·7	54.40·0	53·46·4		F.
November	7.	9	54·44·0	52.52·7	52.56·8	54.35·3	54.54·3	52.46·7	52.42·8	54.53·2	53·48·2	53·47·3	F.
	25.	9	54·45·5	52.52·5	52.55·5	54.37·8	54.50·5	52.47·2	52.44·3	54.38·2	53·46·4		F.
December	6.	9	54·48·0	52.52·2	52.59·0	54.36·5	54.49·2	52.45·8	52.42·8	54.39·7	53·46·6	53·46·9	F.
	24.	9	54·47·3	52.49·2	52.58·5	54.31·3	54.46·7	52.49·7	52.57·0	54.37·5	53·47·2		C.

The initials C., W. and F. are those of Mr. Claxton, Mr. Walter and Mr. Figon.

RESULTS of OBSERVATIONS of MAGNETIC DIP made in the MAGNETIC PAVILION in the YEAR 1907—*concluded.*

NEEDLE No. 3.

Mauritius Standard Time, 1907.		Poles Direct (A dipping).				Poles Reversed (B dipping).				Means.	Monthly 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. 9	56.27·5	51.37·7	54.39·2	53.27·5	53.18·7	54. 6·8	51.29·2	55.50·8	53.52·2	53.51·9	F.
	21. 9	56.21·0	51.43·2	54.33·7	53.27·2	53.15·8	54.12·3	51.25·8	55.55·0	53.51·7		F.
February	11. 9	56.23·0	51.54·5	54.37·8	53.37·8	53.23·7	54.22·8	51.24·7	55.47·2	53.56·4	53.54·9	F.
	20. 9	56.16·0	51.50·7	54.32·7	53.35·7	53.22·0	54. 6·2	51.30·2	55.53·3	53.53·3		F.
March	11. 14	56.31·8	51.47·7	54.38·3	53.36·5	53.25·0	54. 5·2	51.30·2	55.56·3	53.56·4	53.54·5	F.
	20. 9	56.22·7	51.37·8	54.34·0	53.37·2	53.19·5	54. 4·0	51.27·3	55.58·0	53.52·6		F.
April	10. 9	56.20·7	51.37·5	54.25·8	53.42·5	53.24·2	53.57·7	51.35·7	55.47·5	53.51·4	53.51·6	F.
	20. 10	56.20·5	51.41·5	54.29·7	53.33·7	53.20·0	54. 4·0	51.28·7	55.57·2	53.51·9		F.
May	10. 10	56.18·8	51.38·0	54.23·5	53.38·5	53.17·8	54. 4·7	51.22.2	55.53·8	53.49·7	53.51·0	F.
	20. 9	56.24·3	51.37·5	54.30·3	53.36·3	53.20·2	54. 4·3	51.29·5	55.55·2	53.52·2		F.
June	11. 9	56.22·3	51.35·7	54.27·5	53.38·3	53.17·5	54. 4·5	51.28·8	55.55·8	53.51·3	53.51·7	F.
	21. 8	56.16·5	51.43·8	54.24·3	53.45·0	53.14·2	54. 6·0	51.26·0	56. 1·2	53.52·1		F.
July	10. 9	56.15·3	51.34·8	54.24·3	53.38·0	53.16·2	54. 7·3	51.27·7	55.55·0	53.49·8	53.50·0	F.
	20. 10	56.21·0	51.37·3	54.23·2	53.38·3	53.15·8	54. 3·2	51.29·7	55.53·0	53.50·2		F.
August	10. 9	56.15·3	51.39·2	54.21·2	53.39·0	53.18·0	54. 7·3	51.26·2	55.56·7	53.50·4	53.49·5	F.
	20. 9	56.16·5	51.37·7	54.27·5	53.37·5	53.12·8	54. 2·5	51.23·7	55.50·5	53.48·6		F.
September	10. 9	56.20·0	51.39·3	54.25·7	53.33·2	53.17·7	54. 1·3	51.24·5	55.53·0	53.49·3	53.50·9	F.
	20. 9	56.24·0	51.31·8	54.30·7	53.40·3	53.20·3	54. 7·7	51.27·2	55.58·0	53.52·5		F.
October	10. 9	56.23·2	51.33·5	54.26·7	53.38·0	53. 3·8	54.11·2	51.11·8	56. 0·7	53.48·6	53.48·6	F.
	21. 9	56.19·7	51.42·0	54.25·5	53.37·3	53. 9·0	54. 5·8	51.13·2	55.57·2	53.48·7		F.
November	11. 9	56.33·5	51.32·0	54.35·8	53.29·8	53.16·0	54. 6·3	51.18·2	55.56·7	53.51·0	53.50·9	F.
	21. 9	56.23·5	51.35·0	54.26·5	53.34·2	53.13·7	54. 8·7	51.24·8	55.59·0	53.50·7		F.
December	10. 9	56.24·8	51.30·5	54.27·7	53.36·8	53. 5·0	54.14·0	51. 7·7	56. 6·7	53.49·2	53.49·1	F.
	20. 8	56.22·8	51.35·2	54.23·7	53.34·8	53.17·2	54. 5·3	51.18·3	55.55·2	53.49·1		F.

NEEDLE No. 4.

	d h	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
January	14. 14	54.45·3	51.43·5	52.43·8	53.56·2	55.56·8	53.14·7	53.49·3	55.13·8	53.55·4	53.55·4	F.
	18. 9	54.44·0	51.42·8	52.36·2	53.38·7	55.22·5	54. 2·8	53.18·7	55.56·7	53.55·3		F.
February	13. 14	54.47·7	51.38·8	52.42·7	53.38·2	55. 8·0	54. 7·5	53. 7·3	56. 7·0	53.54·6	53.55·2	F.
	18. 9	54.46·7	51.50·0	52.41·0	53.50·5	55. 5·0	54. 4·7	53. 4·8	56. 3·8	53.55·8		F.
March	14. 10	54.48·0	51.49·0	52.44·0	53.42·8	55. 5·2	53.59·2	53.14·8	55.58·8	53.55·2	53.52·3	F.
	18. 13	54.35·8	51.44·3	52.26·8	53.38·2	55. 4·8	53.59·8	53. 5·8	56. 0·5	53.49·5		F.
April	15. 10	54.52·2	51.33·2	52.40·7	53.35·5	55. 8·2	53.53·2	53. 8·7	56. 0·0	53.51·5	53.52·6	F.
	18. 9	54.44·3	51.32·7	52.42·2	53.42·2	55. 8·8	54. 2·0	53.14·2	56. 3·5	53.53·7		F.
May	14. 10	54.47·2	51.34·3	52.36·0	53.18·0	55. 4·3	54. 7·0	53. 1·3	56. 6·0	53.49·3	53.49·3	F.
	17. 10	54.37·5	51.42·0	52.30·5	53.30·5	55.13·0	53.56·3	53. 7·0	55.57·3	53.49·3		F.
June	14. 9	54.44·0	51.30·8	52.43·8	53.26·2	55.15·7	53.58·8	53. 1·8	56. 7·7	53.51·1	53.49·4	F.
	18. 9	54.42·0	51.28·3	52.37·7	53.22·7	55. 7·0	53.58·0	53. 7·5	55.58·5	53.47·7		F.
July	13. 9	54.39·2	51.26·7	52.31·2	53.32·2	55.11·5	53.56·5	53.12·3	56. 1·7	53.48·9	53.48·9	F.
	17. 9	54.41·0	51.34·0	52.32·7	53.25·2	55. 4·3	54. 4·8	53. 2·5	56. 5·7	53.48·8		F.
August	14. 9	54.36·5	51.40·0	52.29·7	53.22·5	55. 4·8	53.58·0	53. 6·8	55.56·0	53.46·8	53.46·2	F.
	17. 9	54.26·7	51.43·8	52.27·2	53.12·8	55. 6·7	54. 1·2	53. 4·5	56. 2·2	53.45·6		F.
September	14. 9	54.35·8	51.36·0	52.43·3	53. 7·0	54.57·3	54. 0·0	53. 7·8	56. 7·3	53.46·8	53.47·0	F.
	17. 9	54.30·0	51.43·8	52.34·3	53.19·0	54.58·3	54. 1·2	53. 6·2	56. 5·8	53.47·3		F.
October	14. 10	54.35·8	51.44·3	52.35·0	53.10·8	54.59·2	54. 1·8	53. 8·3	56. 3·0	53.47·3	53.46·8	F.
	18. 13	54.40·0	51.35·2	52.37·0	53. 5·5	55. 9·7	53.53·8	53.14·0	55.55·3	53.46·3		F.
November	16. 9	54.26·3	51.42·0	52.23·3	53.17·0	55. 9·2	53.55·3	53.11·5	55.57·3	53.45·2	53.45·5	F.
	18. 9	54.35·3	51.31·0	52.37·3	53. 7·8	55. 5·2	54. 5·2	53. 3·0	56. 0·8	53.45·7		F.
December	14. 9	54.39·3	51.29·8	52.36·3	53. 8·0	55.13·8	53.53·8	53.14·8	55.55·2	53.46·4	53.45·9	F.
	18. 9	54.37·2	51.36·0	52.31·0	53. 8·5	55. 5·5	53.57·5	53. 5·8	56. 2·5	53.45·5		F.

The initial F. is that of Mr. Figon.

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0′·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
	° ′				°
Jan. 1	9. 13·3	·23507	45	44	80·2
2	13·2	491	70	47	80·2
3	13·2	495	79	26	80·3
4	13·0	494	80	22	80·5
5	13·4	505	72	...	80·7
6	13·3	484	78	43	80·2
7	13·3	484	51	42	80·9
8	13·4	507	31	52	80·9
9	14·2	467	68	32	80·9
10	13·8	500	61	60	80·7
11	13·5	484	90	...	81·0
12	13·8	464	60	48	81·1
13	13·2	477	100	42	80·9
14	13·7	...	80	...	81·1
15	13·7	478	119	...	81·0
16	13·8	471	169	20	80·9
17	13·8	480	174	26	81·5
18	14·2	487	145	38	81·7
19	13·0	494	121	29	81·3
20	13·0	491	108	41	81·3
21	12·4	498	85	53	82·3
22	12·6	488	60	44	82·1
23	12·2	489	90	41	82·2
24	12·4	492	64	37	82·4
25	13·6	480	60	26	81·9
26	13·7	476	70	43	81·9
27	13·4	477	105	34	82·0
28	...	...	...	...	82·0
29	...	...	...	...	81·9
30	13·2	481	90	18	82·2
31	13·0	492	80	28	81·8
Mean	9. 13·32	·23487	86·4	37·4	81·3

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0′·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
	° ′				°
Feb. 1	9. 13·2	·23486	70	33	81·8
2	12·5	488	110	49	81·7
3	13·1	485	60	20	81·7
4	13·4	494	100	48	81·7
5	12·5	496	100	33	82·0
6	13·1	505	105	29	82·1
7	12·1	456	90	...	82·1
8	13·1	470	79	78	82·2
9	13·8	411	127	...	82·0
10	12·2	366	100	...	81·5
11	13·8	422	41	45	81·5
12	12·8	447	100	18	81·7
13	12·6	452	81	37	81·7
14	12·5	442	135	...	81·8
15	11·5	434	111	78	81·8
16	12·9	434	65	36	81·9
17	12·2	451	108	43	82·0
18	13·1	460	69	51	82·0
19	12·5	460	90	43	82·0
20	13·1	455	61	45	82·0
21	12·4	451	70	21	81·8
22	12·6	453	69	53	82·0
23	12·5	452	87	34	82·1
24	12·5	436	80	66	82·1
25	13·0	455	60	46	82·1
26	12·6	453	55	17	82·1
27	12·0	460	65	27	82·2
28	12·4	464	62	53	82·2
Mean	9. 12·71	·23455	83·9	35·8	81·9

MAGNETIC DISTURBANCES.

Jan. 5d. 1h to 23h. Occasional small fluctuations in H.F. 4h to 4¼h. Decrease in H.F. (15). 9h to 11½h. Wave in H.F. (+30), steep at end.

8d. 0h to 1½h. Wave in H.F. (+20); 3h to 4h. Wave in H.F. (+17). 5¾h. Sudden increase in H.F. (16). 20h 40m. Sudden increase in H.F. (14), followed by rapid fluctuations (±8) till 9d. 3½h. Occasional small rapid fluctuations in Dec. from 23h to 9d. 3½h, with wave 9d. 0½h (+20).

10d. 20½h to 11d. 0h. Rapid fluctuations in H.F. (±10).

11d. 11h to 12d. 13h. *See* Plate I.

12d. 11h to 17h. Wave in H.F. (−45); in Dec. (+15). 22h to 13d. 1h. Two successive waves in H.F. (+19) and (+16).

13d. 17h to 14d. 8h. Loss of H.F., V.F. and Dec. registers.

14d. 23h. 35m. Sudden increase in H.F. (27). 15d. 0h to 4h. Double wave in H.F. (+40 to −35); in Dec. (−20 to +12). 6h to 9h. Wave in H.F. (−15). 11¼h to 12½h. Decrease in H.F. (62). 13h to 15h. Double wave in H.F. (+12 to −12).

24d. 14h to 16h. Wave in H.F. (−20). 19h to 21h. Wave in H.F. (−22). 22½h to 24h. Wave in H.F. (+16).

25d. 17h to 19h. Wave in H.F. (−16).

27d. 18½h to 20h. Wave in H.F. (+20). 28d. 1¼h to 3¼h. Wave in H.F. (+15).

Jan. 28d. 11h to 29d. 9h. Loss of H.F. and Dec. register.

31d. 10h to 21h. Occasional small fluctuations in H.F.

Feb. 7d. 12h to 8d. 14h. *See* Plate I.

9d. 8h to 10d. 10h. *See* Plate I.

10d. 21½h to 23h. Wave in H.F. (+15). 11d. 0h to 3h. Small rapid fluctuations in H.F. 11d. 22h to 12d. 0h. Wave in H.F. (+24). 12d. 1½h to 3¼h. Wave in H.F. (+54); in Dec. (−27); followed by small fluctuations in H.F. till 6h.

13d. 23¾h to 14d. 1h. Wave in H.F. (+17), steep at commencement. 14d. 2¾h to 3½h. Wave in H.F. (−9). 8¼h to 8¾h. Wave in H.F. (−15). 8¾h. Sudden increase in Dec. (30). 12h to 18h. Decrease in H.F. (94). 19h to 19¾h. Wave in H.F. (+36); in Dec. (+30). 22½h to 23½h. Wave in H.F. (+30).

17d. 21¼h to 22½h. Wave in H.F. (+14).

22d. 18½h to 20h. Wave in H.F. (−17). 23d. 1½h to 3h. Wave in H.F. (+16). 5½h to 6½h. Wave in H.F. (+13). 20½h to 21¼h. Wave in H.F. (+15).

24d. 23½h to 25d. 1¼h. Two successive waves in H.F. (+18) and (+8); in Dec. (+12) and (+10). 25d. 15½h to 16½h. Wave in H.F. (−18). 26d. 0½h to 2½h. Wave in H.F. (+18).

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0'·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.	Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0'·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
d	° '				°	d	° '				°
Mar. 1	9. 12·9	·23475	110	33	82·1	Apr. 1	9. 13·8	·23484	110	34	82·3
2	13·0	469	110	30	82·1	2	...	480	...	25	82·2
3	12·5	468	100	17	82·0	3	13·9	490	68	38	82·2
4	12·5	479	100	33	82·0	4	13·6	497	85	35	82·5
5	12·4	482	130	24	82·1	5	13·3	488	93	53	82·1
6	13·0	490	100	26	82·2	6	13·8	472	73	42	82·1
7	13·2	489	100	13	82·3	7	13·3	475	62	37	81·4
8	13·6	500	80	22	82·4	8	13·5	480	87	38	81·3
9	13·4	497	119	36	82·3	9	13·8	481	61	25	81·4
10	12·6	478	...	...	82·3	10	13·4	482	71	20	81·6
11	12·9	...	70	...	82·1	11	13·7	482	62	31	81·8
12	11·8	...	85	...	82·3	12	13·1	480	50	25	82·4
13	13·0	...	99	...	82·5	13	13·4	488	50	35	82·2
14	12·6	...	95	...	82·5	14	12·9	468	78	...	82·2
15	12·5	485	112	35	82·8	15	13·4	467	80	30	82·2
16	12·7	482	90	39	82·8	16	12·6	462	91	59	82·1
17	13·0	476	90	23	83·3	17	12·9	464	60	36	82·0
18	12·7	485	80	30	83·1	18	13·3	472	60	33	81·8
19	12·8	...	100	...	83·5	19	12·8	468	58	27	81·5
20	12·1	468	100	34	83·1	20	13·6	471	70	24	81·2
21	12·9	465	103	...	82·6	21	13·3	473	61	17	81·2
22	13·3	439	71	...	82·7	22	13·3	479	60	29	81·2
23	13·6	452	77	22	82·7	23	12·9	473	59	43	81·0
24	13·4	461	65	17	82·6	24	13·4	476	74	28	81·3
25	12·8	473	70	45	82·8	25	...	...	...	...	81·4
26	13·4	468	74	38	82·8	26	12·9	479	39	41	81·2
27	13·1	463	68	29	82·9	27	13·1	476	75	58	81·2
28	13·3	473	88	39	82·7	28	...	465	...	40	80·7
29	13·9	474	105	19	82·7	29	...	474	...	25	80·2
30	13·1	481	89	34	82·6	30	13·3	485	55	18	80·0
31	14·1	478	90	20	82·3						
Mean	9. 12·97	·23475	92·3	28·6	82·6	Mean	9. 13·32	·23477	68·9	33·8	81·6

MAGNETIC DISTURBANCES.

Mar. 1d. 19h. 40m to 45m. Decrease in H.F. (13). 2d. 0h. 7m to 14m. Increase in H.F. (14). 6h to 8½h. Wave in H.F. (+21).

4d. 10h to 14h. Occasional small fluctuations in H.F.

5d. 23h. 10m. Sudden increase in H.F. (8). 6d. 1h to 2½h. Wave in H.F. (+20).

7d. 15½h to 21h. Two successive waves in H.F. (+10) and (+13).

10d. 8h to 11d. 10h. *See* Plate I.

11d. 22h to 12d. 13h. Occasional small rapid fluctuations in Dec. (H.F. register defective from 11d. 11h to 15d. 12h).

21d. 17h to 22d. 19h. *See* Plate II.

25d. 10h to 26d. 2h. Occasional small fluctuations in H.F. with wave 15½h to 16h (+13).

Apr. 6d. 2¼h to 4h. Wave in H.F. (+30). 12h to 14½h. Fluctuations in H.F. (±8). 7d. 1h to 2½h. Wave in H.F. (+18).

8d. 11h to 12½h. Wave in H.F. (−10).

11d. 12½h to 14h. Decrease in H.F. (40).

12d. 0h to 1h. Wave in H.F. (+10).

13d. 19h to 22h. Small fluctuations in H.F. 14d. 4h to 15h. Small fluctuations in H.F., followed by waves 16h to 19½h (−30), 15d. 1½h to 3h (+30).

16d. 2h to 17d. 2h. Occasional small fluctuations in H.F. with waves 16d. 15h to 16h (−21), 21h to 22h (−16).

19d. 0h to 4h. Two successive waves in H.F. (+28) and (+20); in Dec. (−21) and (−22).

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0'.1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.	Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0'.1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
d	° ′				°	d	° ′				°
May 1	9. 13·8	·23487	80	21	79·7	June 1	9. 13·7	·23470	60	41	77·0
2	13·9	488	58	12	79·7	2	14·1	470	49	25	77·0
3	13·8	484	58	32	79·7	3	13·4	471	40	25	76·4
4	14·0	479	57	30	79·3	4	13·6	473	55	42	76·4
5	13·9	482	65	15	79·5	5	13·3	473	27	25	76·0
6	14·3	483	65	32	79·6	6	13·7	479	45	46	75·7
7	13·7	476	40	27	79·8	7	14·0	471	30	47	75·7
8	14·0	484	42	26	79·7	8	13·8	...	20	...	75·5
9	13·9	487	50	31	79·8	9	13·9	478	49	43	75·3
10	13·9	493	50	42	80·0	10	14·1	465	19	48	75·5
11	14·1	481	49	40	80·1	11	14·3	465	44	33	75·6
12	13·5	473	41	22	80·0	12	14·4	464	25	39	75·4
13	13·9	458	31	66	80·1	13	14·6	467	31	21	75·5
14	13·3	460	50	42	79·7	14	14·0	469	40	21	75·4
15	13·6	463	49	43	79·3	15	14·3	468	32	23	75·5
16	13·6	467	42	42	79·2	16	14·3	470	46	18	75·4
17	13·8	468	50	27	79·0	17	...	...	...	...	75·6
18	13·9	470	62	31	78·7	18	...	...	...	...	75·2
19	13·3	449	53	35	78·3	19	...	...	...	...	75·3
20	13·5	454	35	32	78·1	20	13·4	438	52	65	75·1
21	13·9	464	45	...	77·9	21	14·2	450	43	23	75·1
22	13·3	466	47	...	77·7	22	13·7	456	62	68	75·1
23	13·4	467	35	33	77·4	23	14·2	452	40	40	75·2
24	13·0	462	28	59	77·4	24	14·0	453	38	39	75·3
25	...	469	...	35	77·1	25	14·1	458	35	32	75·2
26	13·2	473	65	46	77·3	26	14·1	461	45	35	75·0
27	13·4	476	41	21	77·2	27	13·3	468	37	34	75·4
28	13·8	483	29	28	77·2	28	13·6	470	32	57	75·6
29	13·2	458	...	...	77·2	29	13·9	470	25	41	75·8
30	13·8	454	39	28	77·0	30	14·1	476	33	40	75·6
31	13·6	475	45	54	77·0						
Mean	9. 13·68	·23472	48·3	34·0	78·7	Mean	9. 13·93	·23466	39·0	37·3	75·6

MAGNETIC DISTURBANCES.

May 10d. 23h to 11d. 2h. and 11d. 11h to 16h. Small fluctuations in H.F.

12d. 19½h to 21h. Wave in H.F. (+14).

13d. Accentuated diurnal variation in H.F. with wave 23½h to 14d. 1h (+20).

14d. 23h to 15d. 1h. Wave in H.F. (+21).

15d. 22h to 16d. 0h. Wave in H.F. (+31).

18d. 22¼h to 19d. 1h. Wave in H.F. (+40) ; in Dec. (+24). 19d. 7½h to 9h. Wave in H.F. (−16).

22d. 14½h to 18½h. Wave in H.F. (−32).

24d. 3h to 4h. Wave in H.F. (+14).

25d. 3½h to 4½h. Wave in H.F. (+16).

26d. Accentuated diurnal variation in H.F.

29d. 2h to 30d. 4h. *See* Plate II.

June 4d. 3h to 4h. Wave in H.F. (+30), steep at commencement ; in Dec. (−20).

11d. 15h to 17h. Wave in H.F. (−15).

12d. 13h to 17h. Wave in H.F. (−30).

19d. 12h to 20d. 14h. *See* Plate II.

22d. 1h to 23d. 3h. Occasional small fluctuations in H.F., with wave 23d. 1h to 3h (+20).

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0'·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.	Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0'·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
d	° ′				°	d	° ′				°
July 1	9. 14·6	·23476	40	49	75·7	Aug. 1	9. 14·5	·23468	64	35	74·2
2	14·2	466	37	34	75·4	2	14·0	461	63	44	74·0
3	14·2	466	58	25	75·2	3	14·1	463	50	25	74·2
4	14·4	467	39	24	75·3	4	14·0	468	58	40	74·3
5	13·9	470	59	26	75·4	5	14·0	464	84	21	74·2
6	13·5	476	41	30	75·5	6	14·4	471	71	22	74·3
7	13·5	470	38	30	75·4	7	14·2	467	68	25	74·1
8	13·4	470	50	30	75·3	8	14·2	471	72	20	73·9
9	13·3	475	38	29	75·2	9	14·4	468	61	20	73·8
10	13·6	472	40	41	75·0	10	14·5	472	51	38	73·7
11	11·8	442	79	...	75·0	11	13·9	466	43	31	73·5
12	13·4	451	40	49	74·9	12	14·6	465	53	20	73·6
13	13·7	454	28	28	74·9	13	14·1	473	70	20	73·8
14	13·4	455	48	34	74·8	14	14·3	473	71	38	74·0
15	14·5	466	40	44	74·7	15	13·9	478	53	35	73·7
16	14·5	472	49	27	74·7	16	14·1	480	74	30	73·8
17	15·0	467	42	16	74·7	17	13·8	472	62	37	73·8
18	15·0	469	50	22	74·7	18	13·8	469	57	43	73·9
19	14·8	468	65	30	74·7	19	13·8	472	50	37	73·9
20	14·6	472	40	42	74·7	20	14·6	484	68	39	74·2
21	14·4	473	70	25	74·5	21	14·0	457	52	63	74·1
22	14·8	481	51	54	74·8	22	14·3	455	90	38	74·1
23	13·9	477	50	31	74·7	23	13·8	460	81	25	74·4
24	14·4	469	57	25	74·6	24	14·4	461	87	30	74·0
25	14·3	477	42	67	74·3	25	13·8	462	89	27	74·2
26	14·0	466	37	49	74·3	26	14·1	462	95	29	74·1
27	14·6	461	63	54	74·2	27	14·2	463	88	32	74·2
28	...	...	...	...	73·9	28	14·2	475	89	29	74·9
29	14·6	452	42	45	74·1	29	14·6	481	81	29	75·1
30	14·4	461	48	27	74·1	30	14·1	479	71	...	75·1
31	14·2	462	61	39	74·1	31	...	458	...	23	74·8
Mean	9. 14·10	·23467	48·1	35·4	74·8	Mean	9. 14·16	·23468	68·9	31·5	74·1

MAGNETIC DISTURBANCES.

July 1^d. 9^h to 13^h. Double wave in H.F. (+18 to −12). 1^d. 20^h to 2^d. 4^h. Undulations in H.F.

3^d. 1^h to 3^h. Wave in H.F. (+16).

3^d. $23\frac{1}{2}^h$ to 4^d.$0\frac{1}{2}^h$. Wave in H.F. (+10).

5^d. $14\frac{1}{2}^h$ to 19^h. Wave in H.F. (−24).

7^d. $10\frac{1}{2}^h$ to 17^h. Wave in H.F. (+25). $19\frac{1}{2}^h$ to $21\frac{1}{2}^h$. Wave in H.F. (−15).

8^d. 22^h to 23^h. Wave in H.F. (+12). 9^d. 2^h to 4^h. Wave in H.F. (+15).

10^d. 18^h. 22^m. Sharp increase in H.F. (17), followed by fluctuations (±8) till 11^d. 15^h, with wave 11^d. 1^h to 3^h (+40). Occasional undulations in Dec., with wave 11^d. 1^h to $1\frac{1}{2}^h$ (+20).

25^d. $13\frac{1}{2}^h$ to 15^h. Decrease in H.F. (51), followed by occasional small fluctuations till 26^d. 2^h., and an increase (22) from 26^d. $2\frac{1}{2}^h$ to 3^h.

28^d. 0^h to 7^h. Loss of H.F., and Dec. registers.

28^d. 8^h to 10^h. Decrease in H.F. (+42), followed by occasional small fluctuations from 29^d. 0^h to 7^h.

Aug. 1^d. 10^h to 3^d. 2^h. Occasional small fluctuations in H.F., with double waves 1^d. 13^h to 20^h (−30 to +22), 2^d. 1^h to 3^h (−10 to +20), 3^d. 9^h to 12^h. Wave in H.F. (−19).

Aug. 9^d. $23\frac{3}{4}^h$ to 10^d.$0\frac{1}{2}^h$. Increase in H.F. (21).

14^d. 19^h. 0^m. Sudden increase in H.F. (9), followed by occasional small fluctuations till 15^d. 3^h.

18^d. 19^h to 19^d.$2\frac{1}{2}^h$. Wave in H.F. (−30).

20^d. $0\frac{1}{2}^h$ to 1^h. Wave in H.F. (+14); in Dec. (+9). 5^h to 14^h. Occasional small fluctuations in H.F. and Dec. 21^d. $0\frac{1}{2}^h$ to $2\frac{1}{2}^h$. Two successive waves in H.F. (+12) and (+14); in Dec. (+4) and (+14). 10^h to $13\frac{1}{2}^h$. Irregular decrease in H.F. (47). 22^d. $16\frac{1}{2}^h$ to $18\frac{1}{2}^h$. Wave in H.F. (−20). 17^h. 15^m to 20^m. Increase in Dec. (24).

23^d. 23^h to 24^d. 0^h. Wave in H.F. (+14). 23^d. 22^h to 24^d. 9^h. Occasional undulations in Dec. 24^d. 12^h to 16^h. Wave in H.F. (+25); in Dec. small undulations. 22^h to $23\frac{1}{2}^h$. Wave in H.F. (+18).

25^d. 23^h to 26^d. 1^h. Wave in H.F. (+24).

30^d. 11^h. 10^m. Sudden increase in H.F. (12), followed by wave 12^h to $13\frac{1}{2}^h$ (+18). Small fluctuations followed till 17^h. 40^m., when a sudden decrease in H.F. occurred (30). 18^h to 21^h. Wave in H.F. (−68); in Dec. small fluctuations from 15^h to 22^h.

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean *Horizontal* Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0′·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
d	° ′				°
Sep. 1	9. 14·4	·23467	88	24	74·7
2	14·5	466	89	22	74·6
3	14·6	469	105	15	74·8
4	15·0	470	76	38	74·8
5	14·7	467	95	42	74·7
6	14·7	470	101	49	74·7
7	14·9	472	84	33	74·8
8	15·5	473	102	18	74·7
9	14·7	471	102	14	74·9
10	15·0	461	70	...	74·9
11	14·0	436	75	...	75·1
12	13·6	410	60	67	75·4
13	13·9	440	89	46	75·7
14	13·8	453	103	27	76·0
15	14·2	473	78	35	76·2
16	14·6	462	62	67	76·3
17	14·5	470	89	...	76·1
18	14·7	440	59	38	76·1
19	14·6	448	96	21	75·8
20	14·8	453	79	25	75·6
21	14·3	459	68	49	75·4
22	14·4	457	86	16	75·3
23	14·4	464	105	40	75·2
24	14·7	463	112	15	75·4
25	14·8	461	85	44	75·3
26	14·8	449	89	...	75·5
27	14·3	455	86	27	75·7
28	14·8	458	92	66	75·7
29	14·1	460	63	49	75·8
30	15·4	463	88	...	76·3
Mean	9. 14·56	·23459	85·9	35·5	75·4

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean *Horizontal* Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0′·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
d	° ′				°
Oct. 1	9. 15·1	·23446	85	...	76·5
2	14·4	453	61	34	77·0
3	14·6	455	76	29	77·0
4	14·6	456	91	43	77·3
5	14·6	459	78	33	77·4
6	14·3	458	78	19	77·7
7	15·1	465	78	41	77·8
8	14·8	465	114	55	77·8
9	13·6	444	83	28	77·9
10	...	453	...	29	78·0
11	15·1	459	100	45	78·2
12	14·4	460	96	61	78·2
13	14·0	...	...	...	77·7
14	14·4	433	...	...	77·6
15	13·8	415	...	...	77·8
16	15·2	424	69	31	77·8
17	14·0	436	79	26	77·8
18	14·0	438	95	26	77·5
19	14·2	440	91	20	77·0
20	14·4	441	89	28	76·5
21	14·5	454	69	39	76·9
22	13·8	428	108	...	76·9
23	14·0	430	69	42	77·2
24	14·0	442	95	21	77·7
25	13·5	456	99	48	77·7
26	14·0	439	105	21	77·8
27	...	430	...	...	78·3
28	...	438	...	68	77·9
29	13·3	451	92	46	78·3
30	14·2	449	49	30	78·5
31	14·3	447	85	12	78·7
Mean	9. 14·29	·23445	85·4	35·0	77·6

MAGNETIC DISTURBANCES.

Sep. $1^d.0^h.48^m$ to 1^h0^m. Increase in H.F. (15).

$6^d.1\frac{1}{2}^h$ to 3^h. Wave in H.F. (+25). 11^h to $14\frac{1}{2}^h$. Wave in H.F. (+28).

$10^d.5^h.48^m$. Sudden increase in H.F. (15).

$10^d.15^h$ to $11^d.17^h$. *See* Plate II.

$12^d.8\frac{1}{2}^h$ to $9\frac{1}{2}^h$. Two successive waves in Dec. (+21) and (+21); small fluctuations in H.F.

$16^d.4\frac{1}{2}^h$ to $5\frac{1}{2}^h$. Wave in H.F. (+10). $16^d.17^h$ to $19^d.0^h$. Fluctuations in H.F. (±5); in Dec. small. $17^d.12\frac{3}{4}^h$ to 13^h. Sharp wave in H.F. (+25); in Dec. (−14) $17^d.17\frac{1}{2}^h$ to $21\frac{1}{4}^h$. Decrease in H.F. (110), followed by an increase (40) till $22\frac{3}{4}^h$. $18^d.17\frac{3}{4}^h$ to $18\frac{3}{4}^h$. Wave in H.F. (−28); in Dec. (+15). $19^d.11\frac{1}{2}^h$ to 14^h. Wave in H.F. (+17). $21\frac{3}{4}^h$ to $23\frac{3}{4}^h$. Wave in H.F. (+14).

$21^d.3\frac{1}{4}^h$ to $4\frac{1}{2}^h$. Wave in H.F. (+20).

$26^d.13\frac{1}{2}^h$ to $16\frac{1}{2}^h$. Decrease in H.F. (72), followed by small fluctuations till $27^d.1^h$. $27^d.1^h$ to 3^h. Double wave in H.F. (+10 to −11). $4\frac{1}{2}^h$ to $7\frac{1}{2}^h$. Wave in H.F. (−20); in Dec. (+10).

$28^d.14^h$ to $29^d.4^h$. Smooth wave in H.F. (−50). $29^d.16^h$ to $17\frac{1}{2}^h$. Wave in H.F. (−12), with small superposed fluctuations.

Sep. $30^d.17^h$ to $23\frac{1}{2}^h$. Two successive waves in H.F. (−40) and (−25), the first steep at commencement. October $1^d.1\frac{3}{4}^h$ to $2\frac{1}{2}^h$. Wave in H.F. (+40), steep at commencement. $11\frac{1}{2}^h$ to $21\frac{1}{2}^h$. Wave in H.F. (−88); in Dec. occasional small undulations.

Oct. $2^d.23\frac{1}{2}^h$ to $3^d.3\frac{1}{2}^h$. Two successive waves in H.F. (+10) and (+14).

$9^d.2^h$ to 3^h. Wave in H.F. (+27).

$10^d.0\frac{1}{2}^h$ to 2^h. Wave in H.F. (+7).

$11^d.1\frac{1}{2}^h$ to 3^h. Wave in H.F. (+8).

$12^d.0\frac{1}{2}^h$ to $1\frac{1}{2}^h$. Wave in H.F. (+14).

$13^d.11^h$ to $14^d.13^h$. *See* Plate II.

$14^d.12^h$ to $15^d.1^h$. Wave in H.F. (−90), with superposed undulations (±10); undulations in Dec. (±10): $15^d.6\frac{1}{2}^h$ to 13^h. Decrease in H.F. (50).

$16^d.15^h$ to $17^d.1^h$. Long wave in H.F. (−32). $17^d.20^h$ to 21^h. Wave in H.F. (+11).

$22^d.5^h$ to $23^d.7^h$. *See* Plate III.

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0′·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
	° ′				°
Nov. 1	9. 14·5	·23456	69	17	78·8
2	14·2	465	74	22	78·7
3	14·1	454	79	57	78·8
4	14·4	434	56	28	79·3
5	13·7	435	72	42	79·2
6	13·0	442	71	52	79·8
7	13·9	451	71	42	79·8
8	13·7	451	95	57	79·9
9	13·6	458	80	52	79·9
10	13·4	420	117	...	80·2
11	13·4	424	103	51	80·6
12	13·0	426	89	24	80·3
13	13·9	440	75	20	80·8
14	13·1	446	70	26	80·7
15	13·2	456	59	45	81·1
16	12·9	453	83	29	81·3
17	12·9	445	52	28	81·1
18	13·1	447	95	33	81·0
19	12·6	441	74	13	81·3
20	13·4	442	107	45	81·5
21	13·3	427	95	...	81·3
22	13·3	402	110	...	81·3
23	13·2	411	94	31	81·1
24	13·6	422	50	17	81·2
25	13·3	438	97	41	81·7
26	13·8	441	89	31	81·8
27	14·0	451	69	30	81·8
28	13·5	446	44	36	81·1
29	13·1	443	41	26	81·7
30	12·9	447	76	38	81·7
Mean	9. 13·47	·23440	78·5	34·6	80·7

Month and Day. 1907.	Mean Magnetic Declination (West).	Mean Horizontal Magnetic Force (C.G.S. Unit).	Diurnal Range of Declination (0′·1).	Diurnal Range of Horizontal Force. (·00001 C.G.S. Unit.)	Temperature of Horizontal Force Magnet.
	° ′				°
Dec. 1	9. 14·5	·23444	56	10	81·8
2	13·4	446	74	38	82·4
3	14·1	448	58	32	82·2
4	13·6	451	68	59	82·1
5	13·9	443	135	53	82·1
6	12·1	437	150	47	82·1
7	12·5	440	130	...	82·1
8	13·4	428	75	29	82·1
9	...	...	...	...	82·1
10	...	...	...	...	82·6
11	...	...	...	...	82·8
12	...	...	...	...	83·1
13	13·4	423	55	22	83·2
14	13·5	433	54	29	83·3
15	12·8	435	79	24	83·3
16	13·1	434	39	39	83·2
17	12·7	426	56	48	83·0
18	12·7	427	64	30	82·9
19	12·6	431	85	23	82·5
20	12·5	432	29	53	82·4
21	12·0	435	101	20	82·9
22	12·9	439	84	32	83·1
23	12·9	442	136	19	83·3
24	13·3	451	95	17	83·5
25	13·1	450	98	25	83·5
26	12·7	453	110	22	84·0
27	13·5	445	109	23	83·7
28	13·4	452	76	23	83·5
29	13·6	441	65	23	83·3
30	13·5	442	79	52	83·3
31	13·7	443	54	35	83·3
Mean	9. 13·16	·23440	82·0	31·8	82·9

MAGNETIC DISTURBANCES.

Oct. 23d. 21h to 24d. 1h. Two successive waves in H.F. (+10) and (+12).

25d. 8h to 26d. 0h. Occasional fluctuations in H.F. (±5).

27d. 14h to 19h. Steady decrease in H.F. (83), followed by an increase (34) from 20h to 20⅓h, and a further increase (30) from 28d. 1h to 2h.

29d. 10h to 21½h. Small rapid fluctuations in H.F. followed till 30d. 1h by a double wave (−12 to +13).

Nov. 3d. 1h to 4½h. Double wave in H.F. (−10 to +10). 8h to 15h small fluctuations in H.F. 22h to 4d. 0h. Wave in H.F. (+19), followed by small fluctuations till 6h.

8d. 0½h to 1½h. Wave in H.F. (+16).

9d. 22h to 10d. 0h. Undulations in H.F. (±6). 10d. 12½h to 11d. 2h. Wave in H.F. (−77), with superposed undulations (±8). 17½h to 21h. Undulations in Dec. (±10); in V.F. small.

11d. 19h to 12d. 0h. Wave in H.F. (−47). 12d. 2½h to 3½h. Wave in H.F. (+23); small undulations in Dec. and V.F.

Nov. 17d. 3h to 5h. Wave in H.F. (+9).

20d. Accentuated diurnal variations in H.F. and Dec.

21d. 14h to 22d. 16h. *See* Plate III.

23d. 14h to 20h. Wave in H.F. (−25).

26d. 12h to 18h. Small fluctuations in H.F.

27d. 16h to 18½h. Wave in H.F. (−50), followed by occasional small fluctuations till 28d. 2h.

30d. Accentuated diurnal variation in H.F.

Dec. 4d. Accentuated diurnal variation in H.F.

7d. 14h to 16h. Decrease in H.F. (27). 17h to 19¼h. Wave in H.F. (−20). 8d. 0h to 6⅓h. Three successive waves in H.F. (+9), (+10), (+15). 8d. 4h to 5h. Wave in Dec. (−15). 6h to 7½h. Wave in Dec. (−18).

20d. 12h to 20h. Three successive waves in H.F. (−13), (−11), (−10).

26d. 22h to 28d. 8h. Occasional small fluctuations in H.F.

MEAN DIURNAL INEQUALITY of the MAGNETIC ELEMENTS, and of the TEMPERATURE within the SHADES covering the HORIZONTAL FORCE and VERTICAL FORCE MAGNETS.

(The results in each case are diminished by the smallest hourly value. Those for Horizontal Force and Vertical Force are corrected for Temperature).

Hour Mauritius Standard Time.	Declination. (0'·1).	Horizontal Force (·000001 C.G.S. Unit).	Vertical Force (·000001 C.G.S. Unit).	Temperature within the Shade covering the Horizontal Force Magnet (0°·01 C.).	Temperature within the Shade covering the Vertical Force Magnet (0°·01 C.).	Declination. (0'·1).	Horizontal Force (·000001 C.G.S. Unit).	Vertical Force (·000001 C.G.S. Unit).	Temperature within the Shade covering the Horizontal Force Magnet (0°·01 C.).	Temperature within the Shade covering the Vertical Force Magnet (0°·01 C.).	Declination. (0'·1).	Horizontal Force (·000001 C.G.S. Unit).	Vertical Force (·000001 C.G.S. Unit).	Temperature within the Shade covering the Horizontal Force Magnet (0°·01 C.).	Temperature within the Shade covering the Vertical Force Magnet (0°·01 C.).
	January.					February.					March.				
Midnight	38	1	83	3	3	44	36	90	4	4	44	24	190	9	9
1h	38	27	80	2	2	43	73	86	3	3	45	37	191	8	8
2	39	31	82	1	1	43	99	82	3	3	47	62	187	7	7
3	43	31	85	1	1	43	112	79	2	2	47	57	181	6	6
4	44	34	84	1	1	44	130	78	2	2	48	62	180	4	4
5	47	46	87	1	1	45	126	81	1	1	50	61	182	2	2
6	55	97	100	0	0	49	154	85	0	0	53	76	192	1	1
7	63	146	109	0	0	64	162	92	1	1	62	87	215	0	0
8	67	167	107	0	0	76	148	80	3	3	82	72	233	0	0
9	63	173	97	0	0	69	162	54	4	4	88	75	218	0	0
10	57	198	63	0	0	54	213	36	4	4	76	94	172	1	1
11	41	182	26	12	12	40	246	19	5	5	58	143	113	3	3
Noon	23	102	3	12	12	23	255	12	5	5	35	175	48	6	6
13h	12	53	0	17	17	7	248	0	7	7	14	191	1	9	9
14	3	31	1	22	22	0	199	3	9	9	0	163	0	13	13
15	0	13	1	19	19	2	143	23	7	7	1	109	34	12	12
16	3	5	11	15	15	11	91	43	4	4	15	70	81	11	11
17	12	18	35	13	13	22	60	67	5	5	29	46	123	11	11
18	24	17	52	10	10	33	27	76	6	6	38	31	144	11	11
19	27	11	58	8	8	38	13	79	7	7	40	31	152	9	9
20	31	3	64	6	6	42	11	82	9	9	40	12	161	8	8
21	33	2	74	6	6	41	0	83	8	8	42	7	171	7	7
22	36	2	81	6	6	42	7	87	7	7	43	4	182	7	7
23	37	0	83	5	5	42	13	89	6	6	42	0	187	6	6
Mean	34·8	57·9	61·1	6·7	6·7	38·2	113·7	62·7	4·7	4·7	43·3	70·4	147·4	6·3	6·3
Number of Days employed.	29	24	21	31	31	28	24	20	28	28	30	23	19	30	30
	April.					May.					June.				
Midnight	28	20	129	10	8	25	18	102	10	9	18	8	67	0	0
1h	26	44	123	8	6	24	25	101	11	9	18	17	69	2	3
2	27	66	119	5	4	23	44	100	11	10	16	54	65	4	5
3	26	86	115	4	3	24	51	99	9	9	16	79	64	5	6
4	29	87	115	3	2	22	85	99	7	7	16	100	65	6	7
5	28	93	114	2	1	22	106	98	5	6	14	123	73	6	7
6	26	117	114	1	1	18	116	94	4	4	12	149	81	5	7
7	29	143	121	0	0	12	154	93	2	2	4	184	79	4	7
8	46	162	154	0	0	18	193	109	0	0	4	229	83	3	6
9	62	168	169	3	4	34	194	128	2	2	16	241	90	7	10
10	66	192	152	7	8	43	187	120	5	5	28	251	90	12	15
11	51	218	82	12	10	38	199	72	12	11	29	249	72	17	19
Noon	26	247	13	12	10	26	182	34	10	9	27	230	49	18	19
13h	10	212	0	14	11	15	142	16	10	9	19	197	20	18	18
14	1	140	1	16	12	7	109	2	10	9	8	146	5	17	17
15	0	92	16	18	13	0	63	0	10	9	0	80	0	18	17
16	7	77	45	20	16	1	21	27	11	10	1	28	17	18	17
17	16	62	80	19	15	11	6	66	11	10	11	26	44	17	16
18	22	70	97	18	15	22	23	98	11	10	21	31	63	16	15
19	23	40	107	16	13	27	17	105	9	8	24	6	71	13	12
20	24	22	117	13	10	28	17	110	7	6	24	8	77	10	9
21	27	0	127	9	7	28	0	110	7	6	24	4	75	6	5
22	28	9	129	5	3	26	6	108	8	7	22	0	71	1	1
23	27	8	129	2	0	26	12	108	5	5	19	1	70	0	0
Mean	27·3	99·0	98·7	9·0	7·2	21·7	82·1	83·3	7·8	7·2	16·3	101·7	60·8	9·3	9·9
Number of Days employed.	26	28	25	14	14	29	28	23	31	31	27	26	19	30	30

MEAN DIURNAL INEQUALITY of the MAGNETIC ELEMENTS, and of the TEMPERATURE within the SHADES covering the HORIZONTAL FORCE and VERTICAL FORCE MAGNETS.

(*The results in each case are diminished by the smallest hourly value. Those for Horizontal Force and Vertical Force are corrected for Temperature*).

Hour Mauritius Standard Time.	Declination. (0'·1).	Horizontal Force (·000001 C.G.S. Unit).	Vertical Force (·000001 C.G.S. Unit).	Temperature within the Shade covering the Horizontal Force Magnet (0°·01 C.).	Temperature within the Shade covering the Vertical Force Magnet (0°·01 C.).	Declination. (0'·1).	Horizontal Force (·000001 C.G.S. Unit).	Vertical Force (·000001 C.G.S. Unit).	Temperature within the Shade covering the Horizontal Force Magnet (0°·01 C.).	Temperature within the Shade covering the Vertical Force Magnet (0°·01 C.).	Declination. (0'·1).	Horizontal Force (·000001 C.G.S. Unit).	Vertical Force (·000001 C.G.S. Unit).	Temperature within the Shade covering the Horizontal Force Magnet (0°·01 C.).	Temperature within the Shade covering the Vertical Force Magnet (0°·01 C.).
	July.					August.					September.				
Midnight	22	22	91	8	8	30	20	109	10	11	35	38	132	1	1
1h	20	21	87	6	6	29	42	106	8	10	34	74	132	1	1
2	20	35	82	4	4	28	53	102	7	8	33	97	130	1	1
3	18	66	83	3	3	27	64	99	6	6	31	125	129	1	1
4	19	71	82	1	1	25	93	97	4	4	30	144	126	1	1
5	18	88	82	0	0	25	115	98	3	3	30	153	127	1	1
6	16	115	83	0	0	24	135	97	3	3	26	156	123	0	0
7	8	182	72	0	0	18	191	97	2	2	26	189	135	0	0
8	7	227	78	1	1	27	218	116	0	0	40	197	165	1	1
9	19	236	99	3	3	45	208	139	3	3	62	180	192	3	3
10	33	220	129	8	8	61	174	147	7	7	77	166	198	6	6
11	40	208	113	9	9	63	143	114	13	14	80	178	173	15	15
Noon	37	190	85	9	9	48	139	65	14	16	66	180	111	13	13
13h	25	182	38	9	9	28	115	29	14	16	34	187	42	10	10
14	11	154	6	8	8	12	95	5	14	16	14	165	0	6	6
15	0	85	0	9	9	0	81	0	14	16	0	134	4	7	7
16	0	35	20	9	9	18	30	23	15	17	1	90	30	7	7
17	12	21	59	9	9	14	7	57	14	16	14	51	66	7	7
18	25	35	79	8	8	28	21	90	13	15	26	23	92	6	6
19	29	34	89	7	7	31	21	91	14	16	29	17	108	6	6
20	29	25	91	5	5	33	12	98	15	17	31	9	119	6	6
21	28	14	93	5	5	34	0	104	14	16	34	0	131	6	6
22	26	2	93	4	4	32	2	106	13	14	35	9	140	7	7
23	25	0	92	3	3	32	12	108	12	13	36	14	136	8	8
Mean	20·3	94·5	76·1	5·3	5·3	29·7	83·0	87·4	9·7	10·8	34·3	107·3	114·2	5·0	5·0
Number of Days employed.	29	29	24	30	30	30	30	22	30	30	30	25	18	30	30
	October.					November.					December.				
Midnight	46	15	Magnet dismounted.	0	0	40	21	150	3	2	36	59	117	8	8
1h	46	32		0	0	41	49	149	3	3	36	63	117	8	8
2	45	60		0	0	39	52	148	3	3	38	74	120	7	7
3	45	69		0	0	42	57	149	2	2	42	80	122	5	5
4	47	75		0	0	44	56	152	1	1	48	81	128	3	3
5	48	87		0	0	48	59	157	0	0	54	75	131	2	2
6	47	94		0	0	51	43	167	0	0	61	80	150	0	0
7	58	102		1	1	65	45	193	1	1	75	98	179	2	2
8	69	100		3	3	72	63	198	2	2	81	117	182	4	4
9	76	124		4	4	70	108	165	5	5	66	153	141	6	6
10	80	176		5	5	60	153	129	9	9	52	211	105	8	8
11	75	231		20	20	46	205	85	20	19	31	209	54	9	9
Noon	54	256		21	21	29	214	45	15	14	14	180	22	11	11
13h	25	254		20	20	12	225	8	14	13	2	170	0	14	14
14	0	217		18	18	0	192	0	13	11	0	153	5	14	14
15	1	168		16	16	1	116	17	12	10	8	92	31	13	13
16	15	126		14	14	10	75	58	11	9	14	28	57	12	12
17	33	77		13	13	25	34	97	11	9	23	7	77	13	13
18	41	43		11	11	34	19	117	11	9	29	0	93	14	14
19	43	21		10	10	34	9	117	12	10	29	13	99	14	14
20	42	18		9	9	34	0	124	13	12	29	29	99	15	15
21	42	4		8	8	37	0	137	13	12	29	40	102	14	14
22	43	4		7	7	37	10	142	13	12	30	55	108	13	13
23	47	0		7	7	38	13	148	13	12	34	64	112	13	13
Mean	44·5	98·0		7·8	7·8	37·9	75·7	118·8	8·3	7·5	35·9	88·8	98·0	9·3	9·3
Number of Days employed.	25	25		28	28	30	26	23	30	30	27	26	25	26	26

MEAN DIURNAL INEQUALITIES of MAGNETIC DECLINATION, HORIZONTAL FORCE, and VERTICAL FORCE, and of the TEMPERATURE within the GLASS SHADES of the HORIZONTAL FORCE and VERTICAL FORCE MAGNETS.

(Each result is the mean of twelve monthly mean values, the annual means for each element being diminished by the smallest hourly value). Those for Horizontal Force and Vertical Force are corrected for Temperature).

1907.

Hour, Mauritius Standard Time.	Declination (West) (0′·01).	Horizontal Force (·000001 C.G.S.)	Vertical Force (·000001 C.G.S.).	Temperature within the Glass Shade covering the Horizontal Force Magnet (0°·01 F.).	Temperature within the Glass Shade covering the Vertical Force Magnet (0°·01 F.).	Hour, Mauritius Standard Time.
Midnight	327	18	112	4	4	Midnight
1h	322	36	110	4	4	1h
2	321	55	108	3	3	2
3	326	67	107	3	2	3
4	336	79	107	2	1	4
5	347	89	109	1	1	5
6	354	105	114	0	0	6
7	392	134	123	0	0	7
8	480	152	134	0	0	8
9	547	163	133	2	2	9
10	562	180	119	5	5	10
11	483	195	81	11	11	11
Noon	329	190	42	11	11	Noon
13h	158	175	11	12	11	13h
14	38	141	0	12	12	14
15	0	92	9	12	11	15
16	69	50	35	11	10	16
17	174	29	68	11	10	17
18	275	22	88	10	10	18
19	301	13	95	9	9	19
20	312	8	102	9	8	20
21	322	0	107	8	7	21
22	323	3	111	7	6	22
23	337	6	112	6	5	23
Mean	309·8	83·4	89·0	6·4	6·0	Mean
Column	1	2	3	4	5	Column

MEAN MONTHLY VALUES of MAGNETIC DECLINATION, HORIZONTAL FORCE, VERTICAL FORCE, and TOTAL FORCE in the YEAR 1907.

Month, 1907.	Declination (West).	Dip (South).	In Metric Measure (C.G.S. Unit). Horizontal Force.	Vertical Force.	Total Force.	In English Measure (F.G.S Unit). Horizontal Force.	Vertical Force.	Total Force.
	° ′	° ′						
January	9.13·32	53.51·0	·23487	·32150	·39815	5·0939	6·9727	8·6351
February	9.12·71	53.51·8	·23455	·32122	·39774	5·0869	6·9666	8·6262
March	9.12·97	53.50·6	·23475	·32125	·39788	5·0913	6·9673	8·6292
April	9.13·32	53.51·4	·23477	·32144	·39805	5·0917	6·9714	8·6329
May	9.13·68	53.49·2	·23472	·32094	·39761	5·0906	6·9605	8·6234
June	9.13·93	53.49·0	·23466	·32082	·39748	5·0893	6·9579	8·6205
July	9.14·10	53.48·0	·23467	·32064	·39734	5·0895	6·9540	8·6175
August	9.14·16	53.46·5	·23468	·32036	·39712	5·0897	6·9480	8·6127
September	9.14·56	53.47·9	·23459	·32051	·39719	5·0878	6·9512	8·6143
October	9.14·29	53.48·0	·23445	·32034	·39697	5·0848	6·9475	8·6095
November	9.13·47	53.48·2	·23440	·32031	·39691	5·0837	6·9469	8·6082
December	9.13·16	53.46·7	·23440	·32001	·39668	5·0837	6·9404	8·6032
Year	9.13·64	53.49·0	·23463	·32078	·39743	5·0886	6·9570	8·6194
Column	1	2	3	4	5	6	7	8

HOURLY VARIATIONS of MAGNETIC DECLINATION and HORIZONTAL FORCE above or below the MEAN for the MONTH, on DAYS of MAGNETIC DISTURBANCE.

(*The unit is* 0′·1 *for Declination, and* 0·00001 *of the Centimètre-Gramme-Second Unit for Horizontal Force. No correction for temperature has been applied to the Horizontal Force values*).

1907.

Hour, Mauritius Standard Time.	January.			Feb.	April.	May.		July.				August.			September.	
	5d.	8d.	15d.	14d.	14d.	13d.	26d.	10d.	11d.		25d.	1d.	21d.	30d.	17d.	
	H.F.			H.F.	H.F.	H.F.		H.F.	H.F.	Dec.	H.F.	H.F.			H.F.	Dec.
Midnight	+10	−4	+6	−2	+23	−7	−7	−1	−14	0	+1	−12	−6	+7	−5	+3
1h	+16	+14	+11	−12	+27	−9	−8	−4	−25	+5	+1	−14	−1	+9	0	−2
2	+26	+4	−24	+2	+23	−13	−11	−3	+8	0	+8	−10	+11	+8	+4	−4
3	+28	+9	−19	−3	+23	−9	−11	0	−11	+3	+13	−9	+3	+8	−3	−2
4	+32	+9	−4	+1	+25	−12	−4	+5	−1	−15	+12	−6	+4	+10	+1	−7
5	+18	+10	+1	0	+25	−10	−1	+4	−2	−45	+14	−1	+11	+11	+12	−13
6	+19	+37	+7	+8	+28	−10	0	+7	+2	−63	+21	+1	+7	+13	+11	−7
7	+28	+44	−4	+23	+29	−6	+6	+9	+8	−55	+25	+8	+16	+20	+15	−8
8	+38	+39	+6	+20	+30	+12	+13	+15	−7	−74	+31	+10	+14	+27	+18	−2
9	+48	+45	+21	+23	+30	+13	+13	+18	−12	−67	+41	+16	+12	+31	+20	+22
10	+57	+44	+26	+16	+34	+19	+18	+18	−17	−46	+44	+16	+19	+31	+29	+34
11	+58	+39	+26	+26	+19	+19	+19	+20	−19	−35	+34	+18	−12	+30	+34	+42
Noon	+30	+34	−4	+23	+17	+10	+29	+27	−25	−27	+30	+20	−6	+45	+40	+33
13h	+27	+18	−26	+13	+18	−4	+29	+24	−23	−27	+31	+19	−18	+58	+52	+3
14	+18	+10	−34	−14	+20	−15	+12	+18	−37	−35	+23	+3	−22	+37	+47	−25
15	+20	+10	−19	−38	+2	−30	+7	+9	−42	−36	−15	−2	−25	+38	+49	−36
16	+18	+4	−4	−48	−5	−37	−11	−2	−46	−34	−10	−6	−35	+33	+42	−47
17	+16	+8	−14	−62	−17	−44	−15	+1	−46	−15	−7	−4	−31	+27	+42	−31
18	+9	+10	−18	−69	−41	−43	−12	0	−51	+3	−8	−4	−26	+2	+33	−11
19	−1	+12	−29	−52	−27	−33	−11	+4	−50	0	−1	−11	−29	−48	+14	−11
20	−12	+13	−29	−46	−27	−33	−11	−13	−46	+5	−5	−13	−36	−55	−26	+15
21	−20	+19	−26	−47	−26	−34	−10	−3	−45	+5	−1	−9	−42	−26	−72	+23
22	−24	+20	−24	−46	−25	−30	−8	−13	−44	+5	−17	−1	−36	−23	−51	+15
23	−23	+14	−24	−16	−17	−21	−6	−5	−34	+5	−21	−1	−29	−22	−31	+18
24	−22	+6	−23	−22	−11	−5	−2	−14	−34	+3	−19	−7	−26	−18	−36	+18
Daily Range	92	52	85	98	80	68	47	46	69	100	69	45	63	123	144	101

Hour, Mauritius Standard Time.	September.			October.							November.					
	26d.	28d.	30d.	1d.	14d.		15d.		16d.	27d.	10d.	11d.	20d.		27d.	30d.
	H.F.			H.F.	H.F.	Dec.	H.F.	Dec.	H.F.		H.F.		H.F.	Dec.	H.F.	
Midnight	−32	−11	−1	+10	−44	+15	−21	+25	−22	−4	+5	−29	−1	0	−1	0
1h	−28	−11	0	−4	+11	−4	+2	−2	−17	−2	+2	−22	−1	+3	+2	0
2	−19	−10	+1	+20	−23	+15	−8	+9	−17	−2	+5	−16	−1	+3	+5	0
3	−13	−6	+3	+3	−22	+15	−17	−1	−17	−1	+1	−12	+1	+3	+3	0
4	−11	−1	+4	+4	−13	0	−18	−6	−18	−1	+1	−11	+3	+3	+9	0
5	−6	−2	+4	+4	−14	+15	−19	−11	−18	+3	−2	−15	+2	+3	+8	0
6	−3	−1	+3	+4	−14	+16	−14	−15	−19	+3	0	−11	−2	+9	+12	0
7	−3	+1	+9	+7	−9	−5	−12	−15	−19	+3	−9	−12	−6	+27	+14	0
8	−3	+5	+10	+15	+5	0	−28	+4	−23	+5	−4	−18	−12	+41	+22	+2
9	−3	+10	+8	+18	+2	+24	−27	−26	−28	+11	−3	−10	−25	+50	+27	+11
10	+2	+16	+9	+26	+25	+25	−32	−7	−25	+15	−3	−8	−20	+47	+22	+25
11	+10	+22	+18	+27	+30	+16	−41	−5	−23	+11	0	−9	−6	+18	+24	+36
Noon	+19	+21	+24	+31	+36	+20	−52	−6	−18	+8	0	−1	+7	−12	+19	+36
13h	+21	+20	+30	+24	+26	−24	−51	−26	−19	+3	−3	+2	+15	−42	+24	+31
14	+18	+18	+30	+17	+6	−35	−43	−25	−12	+9	−23	+2	+19	−57	+19	+19
15	−2	+15	+21	+2	0	−50	−36	−17	−13	−4	−29	−11	+16	−43	+18	+6
16	−25	+9	+23	−24	−19	−34	−41	−17	−19	−18	−39	−15	+14	−31	+14	0
17	−45	+15	+14	−46	−31	−16	−46	−6	−20	−34	−47	−10	+8	−7	−16	−1
18	−38	0	−21	−51	−54	0	−46	−7	−28	−52	−59	−9	+4	+9	−14	−1
19	−26	−6	−20	−23	−58	0	−41	−5	−42	−68	−73	−10	+4	+3	0	0
20	−29	−20	−10	−14	−39	+17	−42	−1	−25	−71	−48	−26	+4	+1	+2	+1
21	−25	−25	−18	0	−34	+16	−32	+14	−31	−42	−45	−39	+5	−1	−2	+1
22	−19	−31	−22	−14	−21	+24	−36	+15	−23	−49	−54	−48	+5	−7	+2	+3
23	−17	−32	−16	−10	−44	0	−27	+15	−19	−52	−35	−44	+6	−7	+6	+3
24	−14	−11	−6	+13	−23	+25	−22	+23	−12	−46	−29	−23	+8	−7	+12	+3
Daily Range	72	62	63	88	103	75	54	52	31	88	60	60	44	110	60	39

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ROYAL ALFRED OBSERVATORY, MAURITIUS.

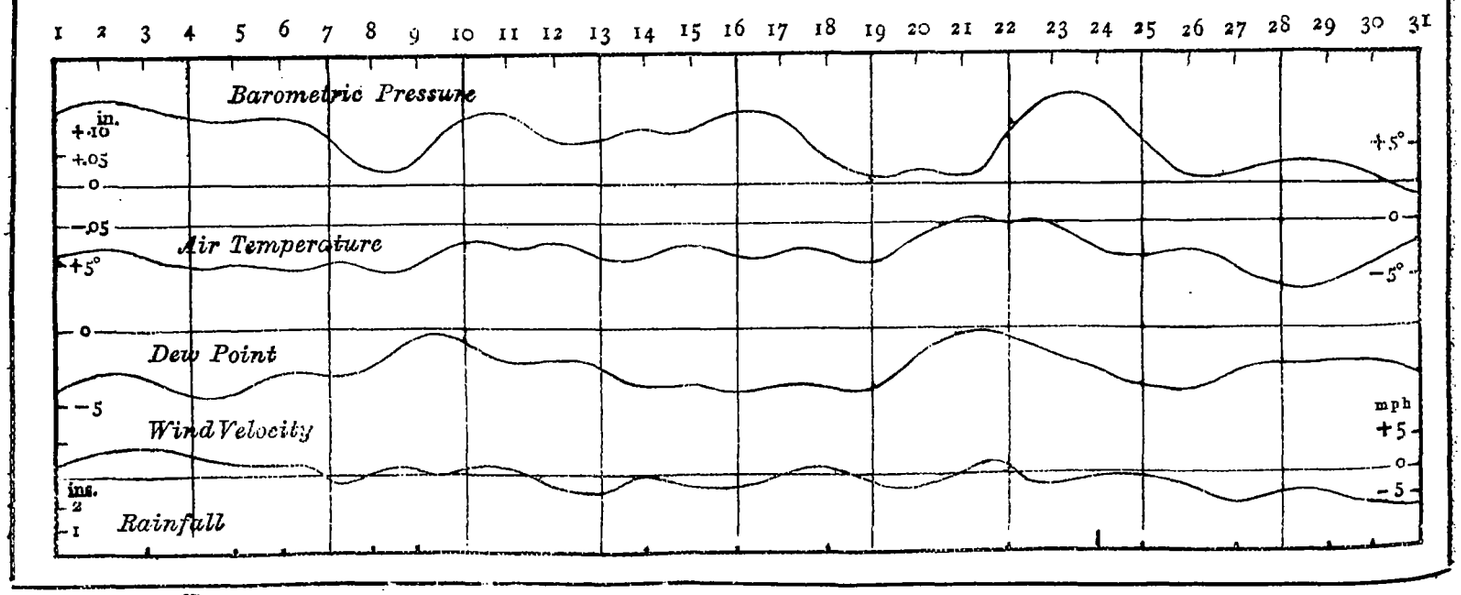
RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1907.

Month and Day. 1907.	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	29·906	+·128	84·5	71·6	12·9	76·8	−1·9	70·3	65·6	− 3·7	69	− 4	·630	143·8	67·2	0·000	...	·276
2	29·907	+·131	84·7	70·5	14·2	76·7	−2·0	70·5	66·1	− 3·2	70	− 3	·641	145·4	66·9	0·000	...	·260
3	29·888	+·114	82·8	69·7	13·1	75·9	−2·8	69·5	64·9	− 4·5	69	− 4	·615	148·1	66·2	0·055	35	·290
4	29·875	+·103	83·3	70·6	12·7	76·1	−2·6	69·3	64·4	− 5·1	67	− 7	·605	146·8	66·1	0·020	15	·250
5	29·872	+·102	82·5	70·1	12·4	75·4	−3·4	70·2	66·4	− 3·2	74	0	·648	143·9	65·7	0·070	70	·250
6	29·872	+·103	83·8	68·6	15·2	75·7	−3·1	69·9	65·8	− 3·8	71	− 3	·635	144·5	63·4	0·070	25	·290
7	29·816	+·049	83·2	68·7	14·5	76·1	−2·7	70·3	66·1	− 3·6	71	− 3	·641	143·9	63·1	0·000	...	·260
8	29·793	+·028	82·3	69·6	12·7	75·3	−3·5	71·1	68·0	− 1·8	78	+ 4	·684	147·3	63·7	0·170	90	·240
9	29·855	+·092	83·5	70·7	12·8	77·3	−1·5	72·7	69·5	− 0·3	77	+ 2	·721	147·4	67·1	0·060	20	·250
10	29·877	+·116	84·3	71·1	13·2	77·3	−1·6	71·6	67·5	− 2·4	72	− 3	·673	145·8	65·9	0·000	...	·260
11	29·834	+·075	85·3	69·6	15·7	77·3	−1·6	71·7	67·8	− 2·2	73	− 2	·680	145·7	63·4	0·010	10	·230
12	29·826	+·069	84·5	70·5	14·0	76·9	−2·0	71·2	67·1	− 2·9	72	− 3	·664	144·9	65·0	0·000	...	·240
13	29·843	+·088	84·5	69·7	14·8	76·1	−2·8	70·1	65·9	− 4·2	71	− 4	·637	150·5	63·4	0·000	...	·175
14	29·831	+·078	84·5	70·0	14·5	76·1	−2·8	70·0	65·6	− 4·5	70	− 5	·630	150·4	63·9	0·045	20	·260
15	29·830	+·079	85·2	70·1	15·1	77·2	−1·7	70·7	66·1	− 4·1	69	− 6	·641	150·6	64·2	0·000	...	·240
16	29·862	+·113	85·1	68·6	16·5	76·7	−2·2	70·2	65·5	− 4·7	68	− 7	·628	147·9	62·5	0·050	20	·290
17	29·859	+·112	84·2	71·1	13·1	76·9	−2·0	70·6	66·1	− 4·2	69	− 7	·641	144·0	67·7	0·025	50	·245
18	29·810	+·065	84·4	70·7	13·7	76·5	−2·5	70·4	66·0	− 4·3	70	− 6	·639	144·8	63·7	0·090	35	·290
19	29·760	+·017	85·8	69·6	16·2	76·0	−3·0	69·9	65·5	− 4·9	70	− 6	·628	146·8	64·4	0·015	10	·245
20	29·757	+·016	88·1	66·0	22·1	76·0	−3·0	70·1	65·8	− 4·6	71	− 5	·635	146·7	60·4	0·000	...	·265
21	29·768	+·028	88·6	71·3	17·3	78·8	−0·2	73·3	69·5	− 1·0	74	− 2	·721	147·8	65·3	0·000	...	·220
22	29·757	+·019	86·3	74·7	11·6	79·0	+0·1	73·7	70·0	− 0·5	74	− 2	·733	147·4	71·1	0·130	95	·290
23	29·825	+·088	86·3	74·0	12·3	79·2	+0·3	73·3	69·3	− 1·2	72	− 4	·716	148·4	69·2	0·000	...	·250
24	29·872	+·137	83·7	72·3	11·4	77·8	−1·1	72·2	68·3	− 2·3	73	− 3	·692	142·8	67·4	0·710	170	·290
25	29·846	+·112	84·7	69·9	14·8	76·3	−2·6	70·6	66·6	− 4·0	72	− 4	·652	153·0	64·4	0·030	10	·210
26	29·797	+·064	84·8	69·8	15·0	76·7	−2·2	70·8	66·6	− 4·0	71	− 5	·652	148·7	65·1	0·010	15	·230
27	29·742	+·010	86·0	68·6	17·4	76·6	−2·3	71·0	66·7	− 4·0	72	− 4	·655	147·4	62·7	0·000	...	·220
28	29·749	+·018	82·6	68·6	14·0	75·6	−3·3	71·1	67·8	− 2·9	77	+ 1	·680	137·8	61·4	0·030	20	·140
29	29·770	+·040	84·7	67·0	17·7	74·2	−4·7	70·5	67·7	− 3·0	80	+ 4	·678	145·4	60·7	0·065	70	·120
30	29·754	+·025	84·8	66·9	17·9	74·7	−4·2	70·8	68·0	− 2·7	79	+ 3	·684	147·4	61·1	0·035	15	·120
31	29·720	−·008	88·1	67·0	21·1	76·5	−2·4	71·2	67·4	− 3·3	74	− 2	·671	146·8	60·7	0·030	20	·210
Mean	29·822	+·072	84·7	69·9	14·8	76·6	−2·3	70·9	66·9	− 3·3	72·2	−2·9	·660	146·5	64·6	Sum 1·720	Sum 815	·239
Average	29·750	...	86·1	72·9	13·2	78·9	...	73·8	70·2	...	75·1	...	·737	146·8	68·8	7·809	2139	·242
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



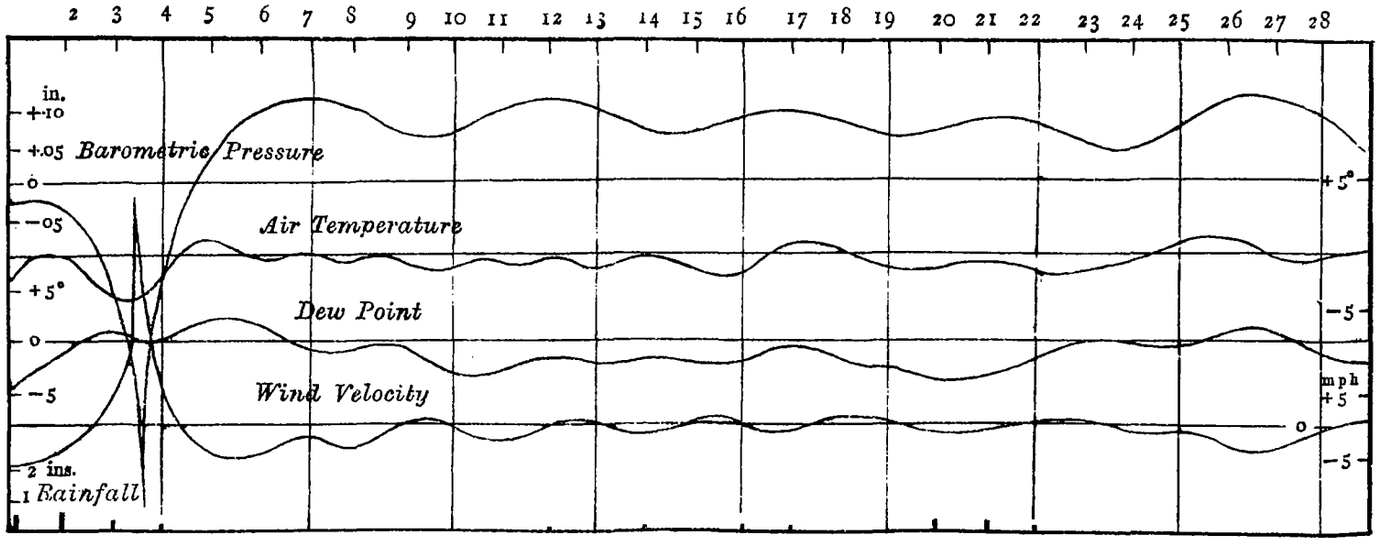
Month and Day 1907.	Ozone (Scale 0—10).	Mean Amount of Cloud (Scale 0—10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind. Components. North.	Wind. Components. East.	Wind. Resultants. Direction.	Wind. Resultants. Velocity.	Wind. Excess above Average. Direction.	Wind. Excess above 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	3·5	4·0	10·7	80	− 0·1	+10·7	89	10·7	− 2	+ 2·2	10·8	78·4	75·70	c.p. : c.f.
2	2·0	3·5	9·7	73	− 2·3	+10·8	78	11·0	− 12	+ 2·5	11·1	78·4	75·60	c.f.
3	3·0	6·5	11·2	84	− 3·6	+10·1	70	10·7	− 20	+ 2·2	11·0	78·4	75·70	o.p. : c.f. : b.
4	0·0	7·2	8·5	64	− 2·1	+10·0	78	10·2	− 12	+ 1·7	10·5	78·4	75·70	c.f. : c. : c.f.
5	3·0	5·5	10·4	79	+ 0·9	+ 9·1	96	9·2	+ 7	+ 0·7	9·2	78·5	75·75	c.p. : c.f. : b.
6	4·0	4·5	11·5	87	− 1·0	+ 8·8	84	8·8	− 5	+ 0·3	9·0	78·5	75·75	c.p. : c.f.
7	4·0	5·8	11·4	86	− 0·2	+ 7·2	88	7·2	− 1	− 1·3	7·6	78·5	75·75	c.f.
8	3·0	9·0	5·6	42	+ 1·7	+ 8·3	102	8·5	+ 13	0·0	8·6	78·5	75·75	c. : o.p.
9	0·0	9·0	7·6	58	+ 3·3	+ 7·7	113	8·4	+ 25	− 0·1	8·3	78·5	75·75	o. : c. : c.f. : o.
10	4·0	6·2	11·6	88	+ 1·4	+ 9·3	99	9·4	+ 11	+ 0·9	9·6	78·5	75·75	c.f.
11	3·5	7·0	6·7	51	+ 0·1	+ 6·7	91	6·7	+ 3	− 1·8	7·8	78·5	75·80	c.p. c.f. c. o.
12	3·0	7·4	7·7	58	+ 0·4	+ 6·2	94	6·2	+ 7	− 2·2	6·4	78·5	75·80	o. c. c.f. b.
13	3·0	8·5	3·9	30	− 1·1	+ 7·6	82	7·7	− 5	− 0·7	7·8	78·5	75·80	c.f.: c. : c.f.
14	3·0	7·0	7·4	56	− 2·1	+ 7·4	74	7·7	− 13	− 0·7	8·3	78·6	75·80	c.f. :c.p.: c. :c.f.
15	2·0	9·3	6·6	50	+ 1·6	+ 6·3	104	6·5	+ 18	− 1·9	7·2	78·6	75·85	c.f. : c. : o.
16	3·0	4·0	9·9	75	+ 1·8	+ 6·1	106	6·3	+ 20	− 2·1	6·4	78·6	75·85	c.f. : c.
17	3·0	8·0	7·9	60	− 1·7	+ 7·3	77	7·5	− 9	− 0·9	7·9	78·6	75·85	o.p.: c. : c.f.
18	3·0	5·2	11·6	89	− 0·5	+ 8·8	87	8·8	+ 1	+ 0·4	8·9	78·6	75·90	o.p. : c.f. : c.
19	3·0	5·0	10·8	82	+ 2·2	+ 6·9	108	7·3	+ 22	− 1·1	7·6	78·7	75·90	o.p. : c.f. : b.
20	3·0	3·8	12·0	92	+ 2·9	+ 5·4	118	6·1	+ 33	− 2·3	6·2	78·7	75·90	c.f.
21	3·0	6·0	11·3	86	+ 4·3	+ 4·9	131	6·5	+ 46	− 1·9	6·8	78·7	75·90	c.f.
22	3·5	7·7	10·6	81	+ 4·3	+ 8·1	118	9·2	+ 33	+ 0·8	9·3	78·8	75·95	c.p. : c.f.
23	2·0	6·5	10·2	78	+ 2·4	+ 6·8	109	7·2	+ 24	− 1·2	7·4	78·9	76·00	c. : c.f.
24	3·0	5·8	11·2	85	+ 0·8	+ 7·7	96	7·7	+ 12	− 0·7	8·2	78·9	76·00	o.r. : c.f.
25	2·0	6·0	8·3	64	− 1·8	+ 7·1	76	7·3	− 8	− 1·0	7·4	78·9	76·00	c.f. c. o.
26	3·5	5·7	8·6	66	− 1·3	+ 6·5	79	6·7	− 5	− 1·6	6·9	79·0	76·05	c.f.: c.p. : c.f. o.
27	2·0	5·5	9·9	76	− 4·2	+ 2·8	34	5·0	− 50	− 3·3	6·5	79·0	76·05	o. : c.f. : c.
28	2·0	6·3	6·0	36	− 2·2	− 1·1	333	2·5	+249	− 5·8	5·0	79·1	76·10	c. : c.f. : c.p. : o.
29	0·0	7·0	5·5	42	− 0·2	− 4·2	273	4·2	+190	− 4·1	4·9	79·1	76·10	o. : c.f. : c.p. : c.f.
30	0·0	5·9	6·1	47	− 1·8	− 2·4	307	3·0	+224	− 5·3	4·6	79·1	76·10	c.f. : c.p.
31	0·0	3·7	8·7	67	+ 0·9	− 0·2	192	0·9	+109	− 7·4	5·3	79·2	76·15	c.f. : c.p.
Mean	2·5	6·2	9·00	68·5	+ 0·09	+ 6·35	90·8	6·35	+ 4·4	− 2·07	7·82	78·68	75·87	...
Average	3·2	6·4	7·69	58·6	− 0·52	+ 8·40	86·4	8·42	...	...	11·07	79·92	77·12	...
Column	19	20	21	22	23	24	25	26	27	28	29	30	31	32

An unusually prolonged positive wave of pressure from December 30 to January 19 was accompanied by negative waves of temperature and vapour-tension. The wind velocity was slightly above normal from December 23 to January 6, and below from January 11 to 17. A superposed negative wave of pressure from the 6th. to the 9th. was accompanied by increasing temperature and vapour-tension.

A positive wave of pressure from the 22nd. to the 27th. was accompanied by decreasing temperature, vapour-tension and wind velocity.

The principal rainfall occurred during these negative and positive waves of pressure. Only 1·70 in. of rain fell during this month : the least on record for January. The previous record was 2·13 inches in 1886.

Month and Day. 1907.	Barometric Pressure.		Temperature of the Air.					Temperature of Evaporation.	Temperature of the Dew-Point.		Degree of Humidity (Saturation=100).		Elastic Force of Vapour.	Temperature of Radiation.		Rainfall.		Amount of Evaporation.
	Mean.	Excess above Average.	Highest.	Lowest.	Range.	Mean.	Excess above Average.		Mean.	Excess above Average.	Mean.	Excess above Average.		Highest in the Sun's Rays.	Lowest on the Grass.	Amount recorded by the Beckley Pluviograph.	Duration.	
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
Feb. 1	29·715	−·012	86·3	67·1	19·2	77·2	−1·7	70·9	66·3	−4·5	69	− 7	·646	141·0	61·4	0·000	...	·270
2	29·712	−·014	88·1	72·6	15·5	79·1	+0·3	73·5	69·5	−1·3	73	− 3	·721	145·0	66·7	0·000	...	·300
3	29·625	−·101	84·2	72·7	11·5	77·6	−1·2	73·9	71·4	+0·6	81	+ 5	·769	141·6	70·7	0·480	285	·130
4	29·402	−·324	79·9	72·3	7·6	76·0	−2·8	73·1	71·0	+0·2	84	+ 7	·759	115·1	69·0	0·730	455	·130
5	29·675	−·050	84·8	74·2	10·6	79·8	+1·0	75·4	72·4	+1·5	78	+ 1	·796	142·8	70·4	0·335	25	·200
6	29·777	+·052	86·1	73·2	12·9	78·8	0·0	74·8	72·0	+1·1	80	+ 3	·785	143·6	68·4	0·110	55	·250
7	29·819	+·094	87·8	71·1	16·7	78·7	0·0	74·1	70·9	0·0	77	0	·756	145·6	67·4	0·000	...	·210
8	29·842	+·117	87·8	73·1	14·7	78·6	−0·1	73·9	70·7	−0·2	77	0	·751	144·9	69·4	0·000	...	·200
9	29·812	+·087	84·3	74·0	10·3	78·4	−0·3	73·6	70·3	−0·6	77	0	·741	143·9	70·4	0·015	10	·245
10	29·796	+·070	84·1	69·3	14·8	77·3	−1·4	72·0	68·2	−2·7	74	− 3	·689	144·5	64·4	0·000	...	·255
11	29·813	+·087	86·3	71·4	14·9	77·9	−0·7	72·5	68·8	−2·1	74	− 3	·704	143·8	65·5	0·000	...	·230
12	29·849	+·122	85·0	70·9	14·1	77·8	−0·8	72·4	68·7	−2·3	74	− 3	·701	142·2	64·6	0·000	...	·240
13	29·845	+·118	86·2	73·2	13·0	78·3	−0·3	72·7	68·8	−2·2	73	− 4	·704	141·8	68·4	0·040	40	·260
14	29·816	+·089	85·2	70·1	15·1	77·4	−1·1	72·3	68·6	−2·4	74	− 3	·699	151·2	63·1	0·000	...	·240
15	29·806	+·078	86·2	73·1	13·1	78·0	−0·5	72·9	69·2	−1·8	74	− 3	·713	143·8	66·2	0·060	30	·255
16	29·812	+·083	88·1	74·3	13·8	78·4	−0·1	73·1	69·5	−1·5	74	− 4	·721	144·0	68·9	0·000	...	·240
17	29·826	+·096	85·8	72·7	13·1	76·0	−2·5	72·7	70·3	−0·7	87	+ 9	·741	146·9	67·9	0·080	120	·250
18	29·810	+·079	87·1	71·0	16·1	77·4	−1·1	72·0	68·2	−2·8	70	− 8	·689	149·3	66·4	0·080	10	·230
19	29·798	+·066	86·4	72·5	13·9	79·0	+0·6	72·3	67·6	−3·4	68	−10	·675	149·2	66·8	0·000	...	.255
20	29·810	+·077	86·8	71·8	15·0	78·4	0·0	72·0	67·5	−3·5	69	−10	·673	144·1	65·2	0·025	10	·260
21	29·818	+·084	86·3	71·0	15·3	77·6	−0·7	72·3	68·5	−2·5	74	− 5	·697	147·8	65·9	0·335	60	·245
22	29·830	+·095	84·4	71·8	12·6	77·6	−0·7	72·9	69·7	−1·3	77	− 2	·726	149·8	67·9	0·365	70	·275
23	29·806	+·070	84·1	73·0	11·1	77·1	−1·2	73·3	70·6	−0·4	81	+ 2	·749	149·3	69·4	0·070	35	·210
24	29·787	+·050	83·3	73·0	10·3	77·2	−1·0	73·3	70·6	−0·4	80	+ 1	·749	148·4	70·7	0·020	15	·170
25	29·790	+·052	83·7	74·0	9·7	78·0	−0·2	73·8	70·7	−0·2	79	0	·751	127·9	70·4	0·000	...	·130
26	29·832	+·093	88·1	73·0	15·1	79·0	+0·9	74·3	71·0	+0·1	77	− 2	·759	148·8	69·4	0·000	...	·210
27	29·853	+·113	84·3	71·5	12·8	77·2	−0·9	73·7	71·2	+0·3	82	+ 3	·764	140·6	67·4	0·030	15	·120
28	29·822	+·081	86·0	72·5	13·5	78·0	−0·1	73·0	69·4	−1·5	75	− 4	·718	144·7	67·9	0·000	...	·250
Mean	29·782	+·052	85·6	72·2	13·4	77·9	−0·6	73·1	69·7	−1·2	76·1	−1·6	·727	143·6	67·5	Sum 2·775	Sum 1235	·224
Average	29·730	...	85·7	73·1	12·6	78·5	...	74·1	70·9	...	77·7	...	·757	147·1	68·8	7·309	1955	·213
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

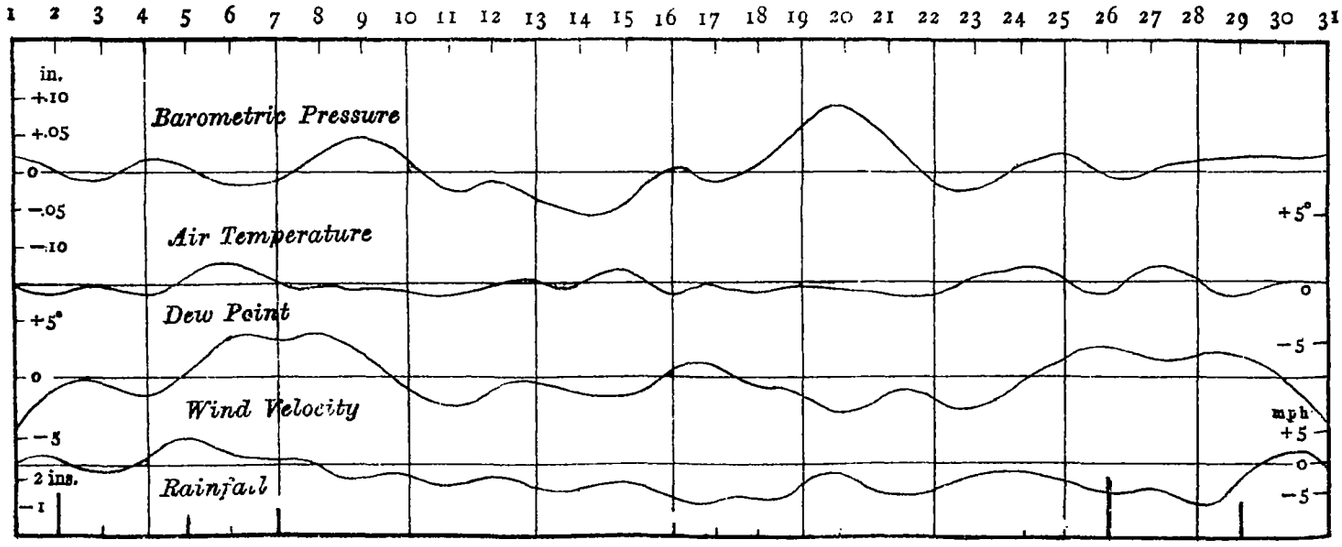


Month and Day. 1907.	Ozone (Scale 0–10)	Mean Amount of Cloud (Scale 0–10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind: Components. North.	Wind: Components. East.	Wind: Resultants. Direction.	Wind: Resultants. Velocity.	Wind: Excess above Average. Direction.	Wind: Excess above 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	3·0	3·0	10·8	83	+ 2·7	+ 3·0	132	4·0	+ 49	− 4·3	6·2	79·2	76·15	c.f.
2	4·0	5·2	11·3	88	− 1·8	+ 8·7	78	8·9	− 5	+ 0·6	9·1	79·3	76·20	c.f.
3	2·0	8·0	4·1	32	− 6·8	+12·5	61	14·3	− 22	+ 6·0	14·5	79·3	76·20	c. : c.f. : o.p. : o.q.r.
4	0·0	10·0	0·0	0	−10·6	− 5·5	333	12·0	+251	+ 3·8	26·7	79·2	76·20	o.p.q. : o.p.l.
5	2·0	7·8	11·4	88	+ 1·6	− 8·8	260	8·9	+178	+ 0·7	9·7	79·2	76·20	o.p.l.t. : c.f. : o.r.
6	0·0	8·2	10·3	80	+ 2·6	− 2·5	224	3·6	+142	− 4·6	5·7	79·2	76·20	o.p.l.t. : c. : c.f.
7	0·0	6·0	10·6	82	+ 6·0	+ 0·5	175	6·0	+ 93	− 2·2	6·4	79·2	76·20	c.f.
8	2·0	8·3	9·9	77	+ 4·2	+ 3·3	142	5·4	+ 60	− 2·8	6·0	79·2	76·20	c.f.
9	2·0	7·5	10·0	78	+ 2·2	+ 8·2	105	8·5	+ 23	+ 0·3	8·6	79·3	76·25	c.f.: o.p. : c.f. : b.
10	2·0	5·2	11·8	92	+ 2·0	+ 7·5	105	7·7	+ 23	− 0·5	7·8	79·3	76·25	c.f.
11	1·0	5·0	11·5	90	+ 0·7	+ 6·4	96	6·5	+ 14	− 1·7	6·6	79·3	76·25	o.p. : c.f. : b.
12	1·0	5·3	10·4	81	− 0·5	+ 8·0	86	8·0	+ 5	− 0·1	8·2	79·4	76·30	b. : c.f. : o.
13	2·0	6·8	11·6	91	− 1·7	+ 8·0	78	8·2	− 3	+ 0·1	8·3	79·4	76·30	o. : c.f.
14	2·0	5·0	11·3	89	+ 1·3	+ 6·6	101	6·7	+ 20	− 1·4	6·8	79·4	76·35	o. : c.f.
15	3·0	3·7	9·8	77	+ 0·4	+ 7·8	93	7·8	+ 12	− 0·3	8·0	79·4	76·30	c.f.: c.p. : c.f.
16	3·0	4·3	10·3	81	− 2·7	+ 8·5	72	8·9	− 9	+ 0·8	9·1	79·5	76·35	c.f.
17	2·0	6·2	9·9	78	− 2·7	+ 7·2	69	7·7	− 12	− 0·4	8·0	79·5	76·35	c.f.: o.p. : c.f.
18	1·0	6·6	9·8	77	− 2·6	+ 8·0	72	8·4	− 9	+ 0·3	8·4	79·5	76·35	c.f. : c.p. : c.f.
19	2·0	5·5	9·9	79	− 2·0	+ 8·6	77	8·9	− 4	+ 0·8	9·1	79·6	76·40	c.f.
20	2·0	5·8	9·7	77	− 2·6	+ 8·0	72	8·4	− 9	+ 0·3	8·7	79·6	76·40	c.f. :c.p.: c.f.
21	2·0	5·7	9·9	78	− 1·9	+ 7·6	76	7·9	− 5	− 0·1	8·0	79·6	76·40	c.f. : c.p.
22	2·0	7·0	10·0	79	− 0·3	+ 7·4	88	7·4	+ 8	− 0·6	7·6	79·7	76·40	o. : c.p. : c.f. :o.r.
23	1·0	6·3	8·7	69	− 2·1	+ 7·1	73	7·4	− 7	− 0·6	8·1	79·7	76·40	c.p. : c.f. : c.p.
24	1·0	8·0	5·4	43	− 1·0	+ 7·9	83	7·9	+ 3	− 0·1	8·2	79·7	76·40	c.p. : o.
25	1·0	9·4	0·4	3	+ 1·2	+ 5·8	102	5·9	+ 22	− 2·1	6·1	79·7	76·45	o. : c.f. : c. :c.f.
26	2·0	7·0	8·3	66	+ 2·7	+ 5·0	118	5·7	+ 38	− 2·3	6·0	79·8	76·50	c. : c.f. : c.t.l.
27	2·0	8·5	4·0	32	+ 0·5	+ 2·6	101	2·7	+ 21	− 5·3	5·3	79·8	76·50	o. : c.f.t. : c.t.l. :t-sm.: c.
28	2·0	5·0	10·4	83	− 1·9	+ 6·8	74	7·0	− 6	− 1·0	7·8	79·8	76·55	c.f. : o.
Mean	1·7	6·4	8·98	70·5	− 0·47	+ 5·51	85·1	5·53	+ 3·9	− 2·60	8·54	79·46	76·32	...
Average	3·0	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 steep negative wave of pressure from the 2nd. to the 8th. caused by the passage of a cyclone to the East of Mauritius, was accompanied by positive waves of vapour-tension and wind velocity, and a negative wave of temperature. After the passage of this cyclone the pressure remained considerably above normal until the end of the month. The vapour-tension remained considerably below normal until the 22nd. The temperature and wind velocity remained nearly normal except for a negative wave of temperature from the 16th. to the 18th. and a negative wave of wind velocity from the 24th. to the 28th.

The principal rainfall occurred from the 1st. to the 4th. and from the 21st. to the 23rd.

Month and Day. 1907.	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	29·782	+·038	85·4	71·0	14·4	78·0	0·0	72·4	68·4	− 2·5	73	− 6	·694	151·6	66·4	0·070	35	·240
2	29·743	−·002	84·4	72·3	12·1	77·1	−0·9	73·0	70·0	− 0·9	79	0	·733	142·5	68·4	1·320	175	·180
3	29·732	−·015	83·2	72·0	11·2	77·8	−0·1	73·3	70·1	− 0·8	78	− 1	·736	144·5	68·1	0·230	25	·260
4	29·765	+·016	83·8	72·0	11·8	77·4	−0·5	72·8	69·5	− 1·4	77	− 2	·721	141·3	68·4	0·000	...	·220
5	29·753	+·004	83·5	74·0	9·5	78·6	+0·8	74·5	71·6	+ 0·7	79	− 1	·774	139·9	70·7	0·580	75	·200
6	29·734	−·016	84·3	75·3	9·0	79·4	+1·6	76·1	73·8	+ 3·0	83	+ 3	·834	137·4	74·1	0·065	55	·205
7	29·743	−·009	81·9	75·3	6·6	77·9	+0·1	75·0	73·1	+ 2·3	85	+ 5	·815	129·1	73·4	0·405	115	·145
8	29·782	+·029	82·5	74·8	7·7	77·5	−0·2	75·2	73·5	+ 2·7	88	+ 8	·826	137·3	72·4	0·665	85	·175
9	29·799	+·045	84·2	74·0	10·2	77·4	−0·3	74·4	72·3	+ 1·5	84	+ 4	·793	144·5	70·4	0·020	10	·200
10	29·761	+·005	83·9	71·0	12·9	77·3	−0·3	72·7	69·5	− 1·3	77	− 3	·721	147·9	67·4	0·020	20	·210
11	29·730	−·028	85·3	68·0	17·3	76·7	−0·9	71·9	68·5	− 2·2	76	− 4	·697	143·8	63·1	0·000	...	·200
12	29·743	−·016	86·3	67·3	19·0	77·4	−0·1	73·2	70·1	− 0·6	79	− 1	·736	139·8	64·4	0·000	...	·215
13	29·715	−·046	84·6	71·0	13·6	77·7	+0·2	73·4	70·3	− 0·4	78	− 2	·741	141·6	65·4	0·000	...	·215
14	29·695	−·067	86·2	68·7	17·5	77·3	−0·1	72·8	69·5	− 1·2	77	− 3	·721	143·1	62·9	0·000	...	·220
15	29·730	−·034	86·5	71·0	15·5	78·4	+1·1	72·9	69·0	− 1·7	73	− 7	·708	146·4	65·4	0·000	...	·235
16	29·768	+·002	82·5	71·2	11·3	76·3	−1·0	73·6	71·6	+ 1·0	85	+ 5	·774	143·0	65·8	0·335	65	·175
17	29·760	−·007	84·4	71·5	12·9	77·1	−0·1	73·7	71·2	+ 0·6	82	+ 2	·764	146·6	66·9	0·175	15	·150
18	29·792	+·023	85·5	70·2	15·3	76·5	−0·7	72·8	70·1	− 0·5	81	+ 1	·736	155·3	66·1	0·215	35	·165
19	29·851	+·081	83·8	70·4	13·4	76·9	−0·2	72·4	69·2	− 1·3	77	− 3	·713	140·9	65·2	0·000	...	·180
20	29·864	+·092	84·1	70·1	14·0	76·6	−0·5	71·4	67·7	− 2·8	74	− 6	·678	141·3	63·7	0·060	15	·200
21	29·805	+·031	84·1	71·0	13·1	76·1	−0·9	72·2	69·4	− 1·0	80	0	·718	146·9	66·7	0·000	...	·130
22	29·758	−·017	84·1	68·3	15·8	76·2	−0·8	71·6	68·3	− 2·1	77	− 4	·692	141·8	62·7	0·000	...	·180
23	29·748	−·029	85·7	68·6	17·1	77·0	+0·1	72·3	68·8	− 1·6	76	− 5	·704	142·9	63·4	0·025	10	·225
24	29·789	+·010	85·4	71·5	13·9	77·6	+0·7	73·3	70·3	0·0	78	− 3	·741	144·8	67·6	0·200	20	·215
25	29·806	+·025	80·6	73·0	7·6	76·8	0·0	73·7	71·6	+ 1·3	84	+ 3	·774	138·7	70·6	0·080	50	·095
26	29·782	−·001	76·6	73·0	3·6	75·3	−1·4	74·1	73·2	+ 3·0	93	+12	·818	89·0	70·7	1·975	515	·115
27	29·784	·000	82·7	72·5	10·2	77·2	+0·5	74·4	72·3	+ 2·1	85	+ 4	·793	143·9	69·6	0·000	...	·130
28	29·797	+·011	80·7	74·0	6·7	76·9	+0·3	74·2	72·3	+ 2·2	86	+ 5	·793	101·0	71·5	0·030	40	·070
29	29·811	+·023	82·4	72·2	10·2	76·0	−0·6	73·2	71·2	+ 1·1	85	+ 4	·764	149·3	66·7	0·830	160	·130
30	29·814	+·024	82·4	71·0	11·4	76·4	−0·1	72·2	69·2	− 0·8	79	− 2	·713	139·3	66·5	0·010	10	·170
31	29·816	+·024	82·4	69·5	12·9	76·2	−0·3	70·2	66·0	− 4·0	71	−10	·639	136·5	64·1	0·000	...	·200
Mean	29·773	+·007	83·7	71·5	12·2	77·1	−0·2	73·2	70·4	− 0·2	80·0	−0·2	·744	139·7	67·4	Sum 7·310	Sum 1530	·182
Average	29·766	...	84·1	72·2	11·9	77·3	...	73·3	70·6	...	80·2	...	·747	144·7	68·2	9·808	2836	·181
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1907.	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	3·0	8·9	8·4	67	− 1·9	+ 8·0	77	8·2	− 3	+ 0·2	8·4	79·8	76·55	c. : c.p.
2	3·0	7·2	8·0	65	+ 0·2	+ 7·9	91	7·9	+ 11	− 0·1	8·2	79·9	76·55	c.p. : c.f. :c.p.: c.r.
3	3·0	6·8	8·8	71	+ 1·7	+ 7·2	103	7·4	+ 23	− 0·6	7·4	79·9	76·55	o.p. : c.f. :o.r.
4	3·0	4·2	10·5	85	− 0·6	+ 9·1	86	9·1	+ 6	+ 1·1	9·1	79·9	76·60	c.f. : o.
5	2·0	8·4	2·4	19	− 2·8	+11·9	77	12·3	− 5	+ 4·3	12·6	79·9	76·60	o. : c. : o.p.
6	2·0	8·7	9·4	76	+ 4·2	+ 8·9	115	9·8	+ 36	+ 1·8	10·4	79·9	76·60	o.p. : c. : o.p.
7	2·0	9·6	5·6	46	+ 3·5	+ 7·8	114	8·6	+ 35	+ 0·6	8·6	79·9	76·60	o.p. : c.p. : c. : o.
8	3·0	8·1	5·0	41	+ 3·7	+ 5·8	122	6·9	+ 43	− 1·1	7·8	79·9	76·60	o. :c.p.:o.r.: c. :c.p.
9	2·0	6·5	11·0	89	+ 3·3	+ 5·5	121	6·4	+ 42	− 1·6	6·6	79·9	76·60	c.f.
10	2·0	5·8	9·4	76	+ 3·3	+ 5·1	123	6·0	+ 44	− 2·0	6·2	79·9	76·60	c.p. : c.f.
11	3·0	4·2	11·3	92	+ 3·9	+ 2·3	149	4·5	+ 70	− 3·5	5·9	80·0	76·65	c.f.
12	1·0	5·8	10·5	85	+ 5·0	− 2·4	206	5·6	+127	− 2·4	6·3	80·0	76·65	c.f.
13	2·0	2·7	10·6	87	+ 3·6	+ 2·3	147	4·2	+ 68	− 3·8	5·3	80·0	76·65	c.f.
14	2·0	3·5	9·7	80	+ 3·0	+ 3·9	128	4·9	+ 49	− 3·1	5·0	80·0	76·65	c.f.
15	2·0	3·0	11·0	90	+ 2·1	+ 4·6	115	5·1	+ 36	− 2·9	5·3	80·0	76·70	c.f. : b.
16	2·0	7·6	6·3	52	− 1·7	+ 2·4	55	2·9	− 23	− 5·2	4·5	80·0	76·70	b. : c.f. : c.f. : c.f.
17	2·0	5·5	6·7	55	− 2·6	+ 1·6	32	3·1	− 46	− 5·0	4·4	80·0	76·70	o. : c.f. : c.p.t. : c.f.
18	2·0	7·3	6·6	55	− 1·8	+ 2·4	53	3·0	− 25	− 5·1	5·0	80·0	76·75	c.f. :c.l.t.: c.f. :c.p.
19	3·0	4·7	11·1	92	+ 0·7	+ 5·7	97	5·7	+ 19	− 2·4	6·2	80·1	76·80	c.f.
20	3·0	4·5	10·6	88	− 1·9	+ 6·0	72	6·3	− 6	− 1·8	6·6	80·1	76·80	c.p.: c.f.
21	3·0	6·0	7·4	61	− 2·2	+ 2·2	45	3·1	− 32	− 5·0	5·3	80·1	76·85	c.f. :c.t.: c.f.
22	3·0	4·0	11·0	91	+ 2·0	− 2·7	233	3·4	+156	− 4·7	5·9	80·1	76·85	o. : c.f. :c.f.l.
23	3·0	4·8	10·3	85	+ 6·1	+ 0·8	173	6·1	+ 96	− 2·1	6·6	80·1	76·85	o.l. : c.f. : o.l.
24	3·0	9·0	10·5	87	+ 3·9	+ 4·9	128	6·3	+ 52	− 1·9	7·1	80·2	76·85	c.l. : c.t. : c.f. : o.l.r.
25	3·0	9·1	1·8	15	+ 1·9	+ 5·2	110	5·5	+ 34	− 2·7	5·6	80·2	76·85	o.p.t.l.
26	3·0	10·0	0·0	0	+ 0·2	+ 4·5	93	4·5	+ 17	− 3·8	6·2	80·1	76·80	o.r.t.l. o.p.t.l. :t-sm.r.: o.p.l.
27	1·0	9·6	3·8	32	+ 2·6	+ 4·2	122	4·9	+ 46	− 3·4	5·6	80·1	76·80	o.
28	1·0	9·9	0·0	0	0·0	+ 0·9	90	0·9	+ 15	− 7·4	4·1	80·1	76·85	o. : o.p. : o.
29	3·0	8·9	2·5	21	− 2·3	+ 4·8	64	5·3	− 11	− 3·0	5·7	80·0	76·90	c. : o.r. : c.
30	3·5	8·7	9·6	81	− 4·2	+ 9·3	66	10·2	− 9	+ 1·9	10·3	80·1	76·90	c.p. : c.f.
31	3·0	2·5	10·3	87	− 4·6	+ 5·8	52	7·4	− 23	− 0·9	7·4	80·0	76·90	c.f.
Mean -	2·5	6·6	7·75	63·6	+ 0·91	+ 4·71	100·9	4·80	+ 23·1	− 3·28	6·76	80·01	76·72	...
Average	3·5	6·4	6·72	55·3	− 1·70	+ 7·90	77·8	8·08	...	...	10·42	81·15	78·06	...
Column	19	20	21	22	23	24	25	26	27	28	29	30	31	32

A double wave of pressure (from negative to positive) from the 5th. to the 10th. was accompanied by a positive wave of vapour-tension, a feeble positive wave of temperature, and decreasing wind velocity.

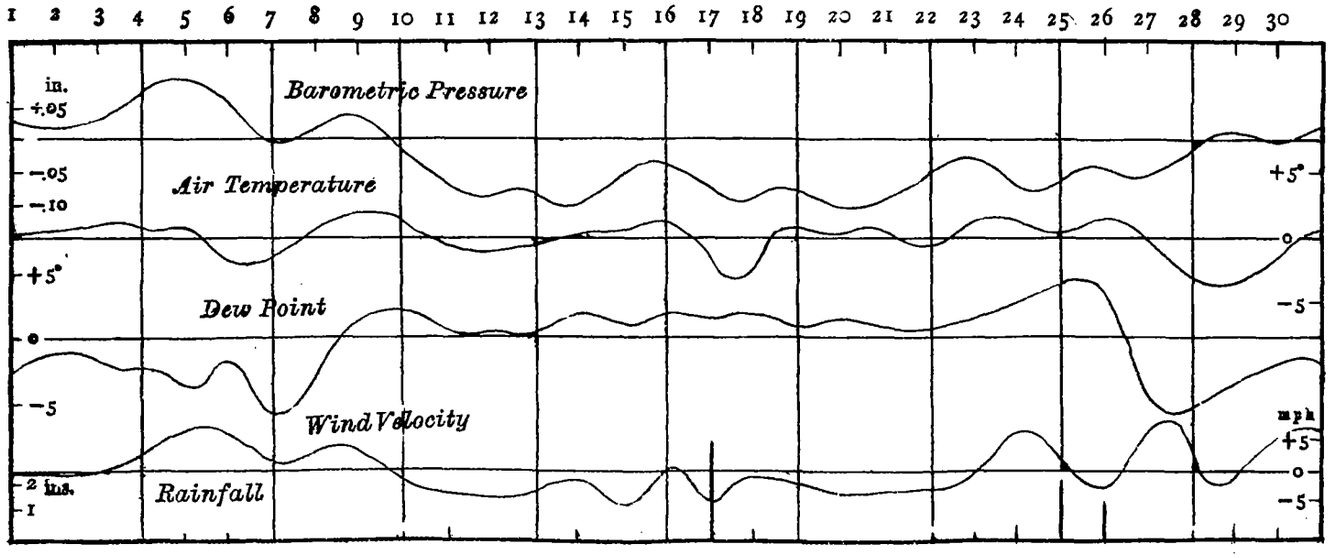
A double-crested negative wave of pressure from the 10th. to the 16th. was accompanied by a similar wave of vapour-tension, nearly normal temperature and wind velocity below normal.

A positive wave of pressure from the 17th. to the 22nd. was accompanied by a double-crested negative wave of vapour-tension, a feeble negative wave of temperature and a positive wave of wind velocity superposed on a long negative wave.

A feeble wave of pressure from the 25th. to the 30th. was accompanied by a double wave of temperature (from negative to positive), a large positive wave of vapour-tension and a negative wave of wind velocity.

The principal rainfall occurred from the 1st. to the 8th., the 16th. to the 18th. on the 26th. and on the 29th.

Month and Day. 1907.	Barometric Pressure.		Temperature of the Air.					Temperature of Evaporation.	Temperature of the Dew-Point.		Degree of Humidity (Saturation=100).		Elastic Force of Vapour.	Temperature of Radiation.		Rainfall.		Amount of Evaporation.
	Mean.	Excess above Average.	Highest.	Lowest.	Range.	Mean.	Excess above Average.		Mean.	Excess above Average.	Mean.	Excess above Average.		Highest in the Sun's Rays.	Lowest on the Grass.	Amount recorded by the Beckley Pluviograph.	Duration.	
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
Apr. 1	29·815	+·021	83·3	71·3	12·0	76·6	+0·2	71·1	67·1	−2·8	73	− 8	·664	141·6	67·9	0·000	...	·215
2	29·815	+·019	83·3	71·8	11·5	76·9	+0·6	72·0	68·4	−1·4	75	− 6	·694	141·4	67·2	0·000	...	·190
3	29·831	+·033	83·3	73·1	10·2	77·4	+1·1	72·2	68·3	−1·5	74	− 7	·692	137·4	69·7	0·000	...	·195
4	29·880	+·080	83·3	71·9	11·4	77·0	+0·8	71·7	67·9	−1·8	74	− 7	·682	140·5	67·5	0·000	...	·180
5	29·896	+·094	82·4	71·5	10·9	76·8	+0·7	70·5	66·0	−3·7	69	−12	·639	138·8	68·9	0·105	60	·255
6	29·850	+·046	79·3	71·3	8·0	74·7	−1·4	70·6	67·7	−1·9	79	− 2	·678	134·0	68·6	0·190	150	·170
7	29·805	−·001	80·6	67·0	13·6	74·9	−1·1	68·4	63·7	−5·8	68	−13	·590	138·7	62·1	0·000	...	·200
8	29·820	+·012	82·3	71·1	11·2	76·4	+0·5	71·2	67·4	−2·1	74	− 7	·671	135·4	66·7	0·000	...	·180
9	29·845	+·035	83·6	74·9	8·7	78·2	+2·3	73·6	70·5	+1·1	77	− 4	·746	137·2	72·3	0·000	...	·185
10	29·800	−·011	83·6	73·3	10·3	77·3	+1·5	73·6	70·9	+1·6	81	0	·756	143·1	71·2	0·070	50	·150
11	29·750	−·063	83·0	70·9	12·1	75·6	−0·2	72·0	69·4	+0·1	81	0	·718	142·8	64·9	0·275	220	·195
12	29·730	−·085	83·0	68·5	14·5	75·1	−0·6	71·7	69·3	+0·1	82	+ 1	·716	144·3	63·4	0·025	25	·145
13	29·738	−·079	82·7	69·2	13·5	75·4	−0·2	71·8	69·2	+0·1	81	0	·713	140·5	63·4	0·000	...	·160
14	29·737	−·082	83·4	68·1	15·3	75·9	+0·4	72·9	70·8	+1·8	84	+ 3	·754	142·4	64·6	0·125	25	·165
15	29·790	−·030	84·2	71·7	12·5	76·1	+0·7	72·4	69·8	+0·9	81	0	·728	140·8	69·4	0·000	...	·130
16	29·786	−·036	81·9	73·0	8·9	76·9	+1·5	73·3	70·7	+1·9	82	+ 1	·751	132·8	70·2	0·000	...	·095
17	29·742	−·082	77·1	69·0	8·1	72·8	−2·5	71·4	70·3	+1·5	92	+11	·741	81·7	64·2	3·380	425	·100
18	29·734	−·092	81·8	69·0	12·8	75·3	+0·1	72·5	70·6	+1·9	85	+ 4	·749	134·2	63·9	0·320	100	·160
19	29·749	−·079	81·6	69·2	12·4	75·6	+0·5	72·1	69·6	+1·0	82	+ 1	·723	144·3	64·6	0·000	...	·145
20	29·729	−·102	83·3	69·5	13·8	75·6	+0·6	72·3	69·9	+1·4	83	+ 2	·731	141·0	63·4	0·000	...	·160
21	29·741	−·092	82·5	67·9	14·6	75·1	+0·2	71·7	69·3	+0·9	82	+ 1	·716	137·5	61·4	0·000	...	·160
22	29·784	−·051	81·9	67·2	14·7	74·6	−0·2	71·5	69·1	+0·8	83	+ 2	·711	137·2	61·2	0·070	65	·100
23	29·801	−·036	83·1	69·9	13·2	76·1	+1·4	72·1	69·2	+1·0	79	− 2	·713	142·4	63·9	0·060	60	·125
24	29·763	−·076	81·0	72·8	8·2	75·5	+0·9	72·7	70·6	+2·5	85	+ 4	·749	130·6	71·2	0·420	270	·200
25	29·778	−·064	78·9	73·1	5·8	74·9	+0·4	73·1	71·9	+3·9	90	+ 9	·782	116·0	71·7	1·520	465	·150
26	29·784	−·060	82·8	70·8	12·0	75·9	+1·5	73·2	71·2	+3·3	86	+ 5	·764	143·5	69·5	1·060	265	·190
27	29·780	−·066	78·4	65·6	12·8	73·6	−0·7	67·4	62·9	−4·9	69	−11	·574	127·4	59·0	0·015	10	·215
28	29·837	−·011	78·6	64·1	14·5	70·6	−3·6	66·1	62·6	−5·1	76	− 4	·568	134·8	56·2	0·045	15	·130
29	29·859	+·009	76·7	62·2	14·5	70·1	−4·0	66·9	64·3	−3·3	82	+ 2	·603	127·8	55·0	0·555	310	·135
30	29·853	·000	76·8	69·1	7·7	72·6	−1·4	68·6	65·6	−1·8	79	− 1	·630	127·4	65·8	0·330	235	·180
Mean	29·794	−·028	81·6	69·9	11·7	75·3	0·0	71·4	68·5	−0·3	79·6	−1·3	·698	135·2	65·6	Sum 8·565	Sum 2750	·165
Average	29·822	...	82·1	70·0	12·1	75·3	...	71·4	68·8	...	80·9	...	·704	140·8	65·2	4·678	1681	·166
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



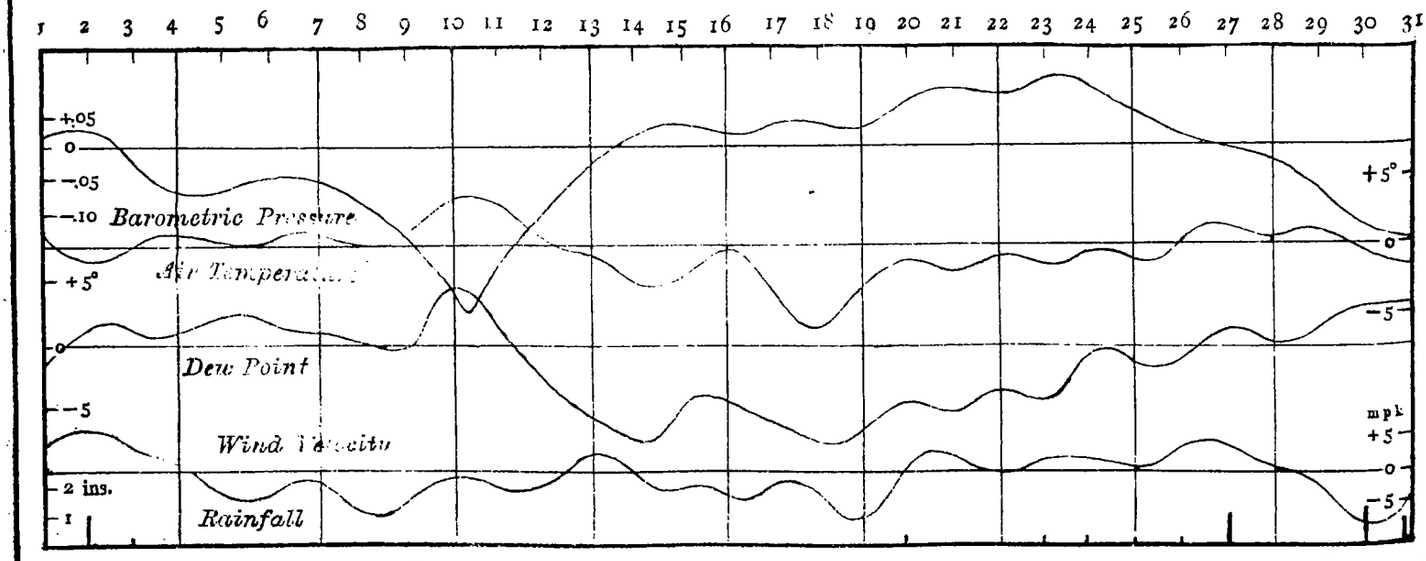
Month and Day. 1907.	Ozone (Scale 0–10)	Mean Amount of Cloud (Scale 0–10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind: Components. North.	Wind: Components. East.	Wind: Resultants. Direction.	Wind: Resultants. Velocity.	Wind: Excess above Average. Direction.	Wind: Excess above 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	3·5	5·4	10·6	89	− 4·3	+ 7·2	59	8·4	− 15	0·0	8·6	80·0	76·90	o. : c.f.
2	3·0	6·5	10·7	90	− 2·4	+ 7·9	73	8·2	− 1	− 0·2	8·5	80·1	76·95	c.f.: o. : c.f.
3	3·0	6·0	9·8	83	− 1·7	+ 8·0	78	8·2	+ 4	− 0·2	8·3	80·0	...	o. : c.f.
4	2·0	6·0	10·5	89	− 5·4	+ 9·2	60	10·7	− 13	+ 2·3	10·7	79·9	...	o. : c.f. : c. :c.f.
5	3·0	6·7	10·0	85	− 4·4	+14·5	73	15·1	0	+ 6·7	15·3	79·8	...	o.p.: c.f.q.
6	3·0	9·3	5·6	47	− 4·4	+13·9	72	14·6	− 1	+ 6·1	14·8	79·8	...	c.f.: o.p. : c.
7	2·0	5·8	10·4	88	− 0·4	+ 9·2	87	9·2	+ 15	+ 0·7	9·6	79·7	...	o. : c.f.
8	3·0	4·0	10·3	88	− 1·8	+10·7	80	10·9	+ 8	+ 2·4	10·9	79·6	...	c.f.
9	3·0	5·0	10·8	92	− 1·9	+11·3	80	11·4	+ 8	+ 2·9	11·5	79·5	...	c.l. : c.f. :c.p.
10	3·0	7·5	8·6	74	+ 0·7	+ 7·1	96	7·2	+ 24	− 1·3	7·3	79·5	...	c.p. : c.f.
11	2·0	8·5	6·6	56	+ 1·5	+ 4·1	110	4·3	+ 39	− 4·3	5·0	79·4	...	o.p. : c. : c.f.
12	2·0	6·9	6·5	56	+ 4·4	+ 0·0	180	4·4	+109	− 4·2	5·2	79·4	...	o. : c.f. : o.p.
13	0·0	5·7	8·6	74	+ 4·5	− 2·6	210	5·2	+139	− 3·4	5·3	79·4	...	o. : c.l.: c.f. : c.l.
14	0·0	7·3	7·5	65	+ 5·9	− 3·0	207	6·6	+136	− 2·0	7·0	79·4	...	c.f. :o.l.p.
15	2·0	8·6	5·9	51	+ 0·9	+ 1·6	119	1·9	+ 49	− 6·7	5·1	79·4	...	o.l. : c. : o.l.t.
16	1·0	9·4	1·7	15	− 0·6	+ 8·9	86	8·9	+ 16	+ 0·3	9·4	79·3	...	o.l. : c. : o. : o.l.
17	3·5	10·0	0·0	0	+ 0·8	+ 4·5	100	4·5	+ 30	− 4·1	7·1	79·3	...	o.l.t.r. : o.r.t-sm. : o.p.t.: o. : c.
18	2·0	8·7	8·8	76	+ 3·0	+ 6·1	116	6·8	+ 46	− 1·8	8·8	79·3	...	c.l. : c.p. : c. : o.r.
19	3·0	6·5	10·0	87	+ 0·8	+ 6·3	97	6·4	+ 28	− 2·2	8·8	79·3	...	c.f. : c. : c.f.
20	2·0	5·5	10·0	87	+ 4·4	+ 3·3	143	5·5	+ 74	− 3·1	5·7	79·3	...	c.f.
21	1·0	4·0	10·8	94	+ 4·1	+ 4·1	135	5·8	+ 66	− 2·8	6·0	79·3	...	c.f.
22	1·0	5·4	7·7	67	+ 2·5	+ 5·5	114	6·0	+ 45	− 2·6	6·5	79·3	...	c.f. : c.p. : c.f.
23	3·5	6·0	10·3	89	− 1·6	+ 7·4	78	7·6	+ 9	− 1·0	8·0	79·2	...	c.f.: o. : c.f. :o.p.
24	3·0	8·0	8·4	73	− 4·7	+14·1	72	14·9	+ 4	+ 6·3	15·2	79·2	...	o.p. : c. : o.p.
25	2·0	9·9	1·3	11	+ 2·2	+ 8·2	105	8·5	+ 37	− 0·1	9·0	79·2	...	c.p. : o.r.q.
26	3·5	8·3	8·7	76	+ 0·4	+ 4·9	95	4·9	+ 27	− 3·8	6·9	79·1	76·65	o.r.l.t. : c. : c.t. : c.
27	2·0	3·5	10·6	93	−13·5	+ 6·1	24	14·8	− 44	+ 6·1	14·9	79·2	76·75	c.p. : c.f. : b.
28	3·5	7·5	7·3	64	− 6·8	+ 6·1	42	9·2	− 26	+ 0·5	9·3	79·2	76·75	c.f. : c.p.q. : c.f.
29	3·5	6·2	7·4	65	− 5·1	+ 7·8	57	9·3	− 10	+ 0·6	9·7	79·1	76·60	c. : o.r.
30	3·5	8·3	5·3	46	− 5·6	+13·5	67	14·6	0	+ 5·9	14·7	79·0	76·45	o.p. :c.f.: o.p.q. : o.
Mean	2·4	6·9	8·02	69·0	− 0·95	+ 6·86	82·1	6·93	+11·7	− 1·63	9·10	79·44	76·72	...
Average	4·1	5·7	7·31	63·1	− 2·87	+ 8·06	70·4	8·56	...	...	10·51	80·82	78·31	...
Column	19	20	21	22	23	24	25	26	27	28	29	30	31	32

A general decrease of pressure from the 5th. to the 12th. was interrupted by a positive wave culminating on the 9th. and accompanied by positive waves of temperature, vapour-tension and wind velocity.

The temperature remained below normal till the 28th. and the vapour-tension above till the 26th., when a rapid decrease set in, accompanied by a decrease of temperature and an increase of wind velocity, and followed on the 27th. by an increase of pressure.

The principal rainfall occurred on the 17th. and 18th., and from the 22nd. to the 30th.

Month and Day. 1907.	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	29·872	+·017	79·3	69·8	9·5	74·3	+0·4	69·1	65·4	− 1·9	74	− 6	·626	137·0	64·0	0·100	35	·120
2	29·879	+·022	74·2	70·4	3·8	72·7	−1·1	69·8	67·7	+ 0·5	84	+ 4	·678	96·8	68·7	1·150	395	·170
3	29·853	−·006	79·8	69·9	9·9	74·0	+0·3	70·3	67·6	+ 0·5	80	0	·675	136·8	65·5	0·030	35	·140
4	29·800	−·061	80·1	70·3	9·8	74·1	+0·5	70·8	68·4	+ 1·4	82	+ 2	·694	141·7	65·0	0·020	20	·130
5	29·788	−·076	80·5	68·0	12·5	73·7	+0·2	70·9	68·8	+ 1·9	85	+ 5	·704	141·7	62·5	0·000	...	·125
6	29·815	−·051	81·6	66·9	14·7	73·8	+0·4	70·4	68·0	+ 1·2	82	+ 2	·684	145·9	62·0	0·000	...	·125
7	29·812	−·056	80·6	67·4	13·2	73·8	+0·5	70·3	67·7	+ 1·0	82	+ 2	·678	134·1	61·0	0·000	...	·135
8	29·782	−·088	81·7	65·4	16·3	73·2	0·0	69·6	66·8	+ 0·3	81	+ 1	·657	130·1	57·8	0·000	...	·130
9	29·730	−·142	80·5	65·5	15·0	73·9	+0·8	69·6	66·4	0·0	78	− 2	·648	134·1	57·5	0·000	...	·105
10	29·648	−·227	80·9	72·9	8·0	76·0	+3·1	72·6	70·2	+ 3·9	82	+ 2	·738	114·7	68·0	0·000	...	·055
11	29·671	−·206	81·5	67·8	13·7	74·5	+1·7	69·8	66·3	+ 0·2	76	− 4	·646	133·9	60·0	0·000	...	·200
12	29·765	−·115	80·3	66·9	13·4	72·8	+0·1	67·1	62·9	− 3·1	71	− 9	·574	133·3	59·3	0·000	...	·175
13	29·854	−·028	78·0	66·2	11·8	72·1	−0·5	65·3	60·2	− 5·7	66	−14	·522	126·2	56·3	0·000	...	·190
14	29·892	+·007	77·0	62·6	14·4	69·1	−3·3	62·7	57·7	− 8·0	67	−13	·477	132·0	53·0	0·000	...	·150
15	29·911	+·024	75·7	63·9	11·8	70·0	−2·3	65·1	61·4	− 4·2	74	− 6	·545	128·4	56·5	0·000	...	·100
16	29·903	+·013	79·0	64·9	14·1	71·9	−0·3	65·7	60·9	− 4·5	68	−11	·535	132·8	57·0	0·000	...	·170
17	29·919	+·027	78·0	62·4	15·6	69·7	−2·3	63·9	59·3	− 6·0	70	− 9	·505	135·7	52·5	0·000	...	·160
18	29·920	+·026	76·0	56·2	19·8	66·3	−5·6	61·3	57·1	− 8·0	73	− 6	·467	132·8	48·0	0·000	...	·180
19	29·926	+·029	76·9	54·5	22·4	67·7	−4·0	62·7	58·8	− 6·1	74	− 5	·496	133·1	46·5	0·000	...	·150
20	29·961	+·062	75·7	65·5	10·2	70·5	−1·1	65·2	61·1	− 3·7	72	− 7	·539	130·3	60·5	0·100	80	·140
21	29·977	+·075	75·6	65·2	10·4	69·9	−1·6	64·3	60·0	− 4·6	71	− 8	·518	130·8	58·0	0·000	...	·145
22	29·983	+·079	77·2	64·2	13·0	70·2	−1·1	65·2	61·3	− 3·2	73	− 6	·543	131·3	57·7	0·030	40	·165
23	29·997	+·090	77·6	63·2	14·4	69·6	−1·6	64·6	60·8	− 3·5	74	− 5	·533	135·0	54·0	0·190	50	·160
24	29·990	+·081	76·9	66·8	10·1	70·4	−0·6	66·8	63·9	− 0·2	80	+ 1	·594	134·8	60·2	0·320	135	·190
25	29·967	+·056	76·6	61·4	15·2	69·8	−1·1	65·9	63·0	− 1·0	79	+ 1	·576	129·0	55·0	0·200	95	·170
26	29·932	+·018	76·9	65·4	11·5	71·1	+0·3	66·5	62·9	− 0·9	75	− 3	·574	125·4	59·5	0·070	60	·180
27	29·916	·000	78·1	66·1	12·0	71·4	+0·7	67·8	65·0	+ 1·3	80	+ 2	·617	133·3	60·7	0·860	110	·180
28	29·897	−·022	77·3	66·3	11·0	70·9	+0·4	66·8	63·6	+ 0·1	78	0	·588	125·4	60·5	0·000	...	·140
29	29·834	−·087	77·8	65·2	12·6	71·2	+0·8	67·8	65·3	+ 1·9	82	+ 4	·624	130·1	57·7	0·000	...	·140
30	29·796	−·128	73·1	67·8	5·3	69·5	−0·8	67·7	66·4	+ 3·2	90	+12	·648	106·1	65·3	1·010	425	·110
31	29·777	−·149	70·0	66·9	3·1	68·4	−1·8	66·9	65·6	+ 2·6	91	+13	·630	84·6	66·0	0·670	640	·080
Mean	29·863	−·027	77·9	65·7	12·2	71·5	−0·6	67·2	63·9	− 1·4	77·2	−2·1	·598	128·9	59·2	Sum 4·750	Sum 2120	·145
Average	29·890	...	78·9	66·3	12·6	72·1	...	68·1	65·3	...	79·3	...	·625	135·1	60·5	3·215	1432	·145
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1907.	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	2·5	9·5	3·2	28	− 2·8	+ 12·9	78	13·2	+ 11	+ 4·5	13·3	79·0	76·40	c.f.
2	4·0	10·0	0·0	0	− 1·4	+ 14·0	84	14·5	+ 17	+ 5·8	14·3	79·0	76·35	c.
3	3·5	7·2	8·3	73	− 1·2	+ 11·1	84	11·1	+ 17	+ 2·4	11·1	79·0	76·30	c.f. : b.
4	3·5	6·3	9·2	81	− 1·1	+ 9·2	83	9·3	+ 16	+ 0·5	9·2	79·0	76·20	c.f. : b.
5	3·0	7·0	8·3	73	+ 1·6	+ 4·3	110	4·6	+ 44	− 4·2	5·2	78·9	76·20	b. : c.
6	2·0	4·5	10·0	88	+ 1·2	+ 5·7	102	5·8	+ 36	− 3·0	6·1	78·8	76·15	b. : c.f. : b.
7	2·0	3·5	10·7	95	+ 0·5	+ 6·4	94	6·4	+ 28	− 2·4	6·4	78·7	76·15	b.
8	2·0	1·0	10·8	96	+ 1·9	+ 0·5	165	1·9	+ 99	− 6·9	5·0	78·7	76·10	b. : c.p.: c.f. : b.
9	3·0	6·7	8·0	71	− 3·0	+ 5·0	59	5·8	− 7	− 3·0	9·9	78·6	76·05	b. : c.f. : b.
10	2·0	9·8	0·1	1	− 5·8	+ 5·7	46	8·2	− 20	− 0·6	8·2	78·5	76·00	b. : c.f. : b.
11	2·0	3·7	10·8	96	− 5·4	− 3·6	326	6·5	+ 261	− 2·3	7·8	78·5	75·95	b. : c.f. : b.
12	3·0	3·3	9·6	86	− 8·3	+ 1·2	8	8·4	− 57	− 0·4	8·8	78·5	75·95	c.f.: c.p. : c.f. : b.
13	3·0	4·5	8·9	79	− 8·8	+ 8·1	43	11·9	− 22	+ 3·1	12·1	78·4	76·00	b. : c.f. : b.
14	3·0	4·0	9·9	88	− 4·8	+ 5·5	49	7·3	− 16	− 1·6	7·7	78·4	76·05	b. : c.f. : b.
15	2·0	8·4	2·1	19	− 3·0	+ 5·3	61	6·1	− 4	− 2·8	6·6	78·4	76·05	b. : c. : p.
16	2·0	5·2	9·4	85	− 5·4	+ 0·6	6	5·4	− 59	− 3·5	6·4	78·4	76·10	c. : c.p. : c. : c.f.
17	3·0	3·3	9·7	87	− 6·4	+ 5·6	41	8·5	− 24	− 0·4	8·6	78·3	76·15	b. : c.f.
18	2·0	4·7	7·8	70	− 4·1	+ 1·2	16	4·3	− 48	− 4·7	6·4	78·3	76·15	c.p. : c.
19	3·0	3·0	9·7	87	− 2·3	− 1·4	329	2·7	+ 265	− 6·3	5·9	78·3	76·15	c.p. : c.f. : b.
20	4·0	9·1	2·4	22	− 8·5	+ 7·3	41	11·2	− 23	+ 2·2	11·4	78·1	76·15	b. : c.p. : b.
21	3·0	5·0	9·3	84	− 6·4	+ 7·8	51	10·1	− 13	+ 1·0	10·4	78·1	76·20	b. : c.f. : b.
22	3·0	5·3	10·2	92	− 4·9	+ 7·4	51	8·9	− 13	− 0·2	9·2	78·1	76·25	b. : c.f. : b.
23	2·0	4·5	9·0	81	− 3·8	+ 9·6	68	10·4	+ 4	+ 1·3	10·4	78·1	76·35	b. : c.f.
24	3·0	5·0	8·4	76	− 5·0	+ 9·2	62	10·5	− 2	+ 1·3	10·7	78·1	76·35	c.f.: b. c.f.
25	4·0	5·0	7·8	71	− 3·4	+ 9·2	70	9·8	+ 7	+ 0·6	10·1	77·9	76·25	c.f.: b. : c.f. : b.
26	3·5	6·5	9·4	85	− 2·6	+ 12·9	79	13·2	+ 16	+ 3·9	13·3	77·9	76·25	b. : c.f. : p.
27	4·0	9·0	5·8	53	− 2·4	+ 10·9	78	11·2	+ 15	+ 1·9	11·5	77·9	76·35	c. : b.
28	4·0	3·5	9·8	89	− 3·8	+ 9·1	67	9·9	+ 4	+ 0·6	9·9	77·9	76·45	c.f.
29	4·0	5·2	9·4	85	+ 2·1	+ 5·7	110	6·0	+ 47	− 3·4	6·7	77·8	76·40	c.f.
30	4·0	10·0	0·0	0	0·0	− 1·0	270	1·0	+ 208	− 8·4	4·5	77·7	76·40	c. : c.f.
31	3·0	10·0	0·0	0	− 3·5	+ 3·2	42	4·8	− 20	− 4·7	6·3	77·6	76·35	c.f.
Mean	3·0	5·9	7·35	65·8	− 3·25	+ 6·08	61·9	6·89	− 2·8	− 2·11	8·82	78·35	76·20	...
Average	4·4	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

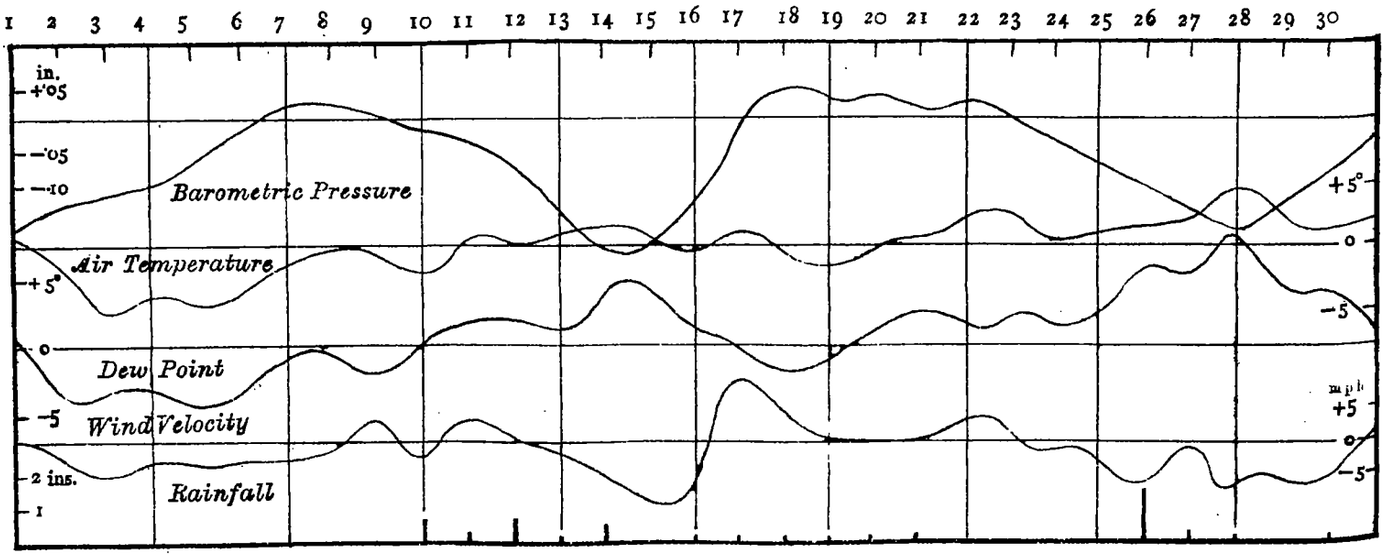
A large negative wave of pressure from the 7th. to the 14th., caused by the passage of a cyclone to the east of Mauritius, was accompanied by positive waves of temperature and vapour-tension and a negative wave of wind velocity. The increase of pressure from the 10th. to the 14th. was accompanied by a large decrease of temperature and vapour-tension.

A prolonged positive wave of pressure from the 14th. to the 27th., was accompanied by negative waves of temperature and vapour-tension with superposed positive waves culminating on the 16th.

The decrease of pressure during an unusually large negative wave from the 27th. to June 6 was accompanied by nearly normal temperature, increasing vapour-tension and decreasing wind velocity : the increase of pressure was accompanied by large negative waves of temperature, vapour-tension and wind velocity.

The principal rainfall occurred on the 1st. and 2nd. ; from the 24th. to the 27th. and on the 30th. and 31st.

Month and Day. 1907.	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	29·752	−·177	75·5	66·5	9·0	70·1	+0·1	66·1	63·1	+0·3	79	+ 1	·578	132·3	63·3	0·000	...	·115
2	29·785	−·147	75·0	58·0	17·0	67·3	−2·6	62·2	58·2	−4·5	73	− 5	·485	129·5	50·8	0·000	...	·140
3	29·809	−·126	74·6	56·1	18·5	64·7	−5·1	61·6	59·0	−3·5	82	+ 5	·500	132·3	49·2	0·000	...	·110
4	29·848	−·090	75·1	59·2	15·9	65·8	−3·9	61·9	58·6	−3·8	78	+ 1	·492	131·5	53·0	0·000	...	·105
5	29·897	−·043	74·6	56·3	18·3	64·9	−4·7	60·7	57·3	−4·9	77	0	·470	128·6	49·3	0·000	...	·130
6	29·937	−·006	75·4	58·4	17·0	66·0	−3·5	62·3	59·4	−2·7	79	+ 2	·507	133·4	49·0	0·000	...	·115
7	29·969	+·023	76·6	60·0	16·6	68·0	−1·4	64·1	61·1	−0·8	79	+ 2	·539	138·0	55·5	0·000	...	·135
8	29·967	+·018	76·3	62·9	13·4	68·9	−0·4	64·5	61·0	−0·8	76	− 1	·537	130·3	54·8	0·000	...	·120
9	29·957	+·005	74·4	63·2	11·2	69·2	0·0	63·9	59·7	−2·0	72	− 5	·512	128·1	56·7	0·000	...	·140
10	29·944	−·010	74·0	63·7	10·3	67·3	−1·8	64·4	62·1	+0·5	83	+ 6	·558	123·2	58·0	0·595	175	·140
11	29·934	−·023	75·0	65·7	9·3	69·8	+0·8	66·2	63·4	+2·0	80	+ 3	·584	126·4	63·5	0·395	220	·145
12	29·893	−·066	74·1	66·1	8·0	68·9	0·0	66·0	63·7	+2·4	84	+ 8	·590	134·3	60·3	0·550	240	·170
13	29·824	−·138	76·0	65·0	11·0	69·7	+0·9	65·9	63·0	+1·8	79	+ 3	·576	130·5	60·8	0·150	75	·140
14	29·755	−·210	74·4	63·5	10·9	69·9	+1·2	68·0	66·4	+5·3	89	+13	·648	105·9	62·0	0·270	125	·090
15	29·774	−·193	77·3	62·1	15·2	69·5	+0·9	66·4	63·9	+2·9	82	+ 6	·594	131·6	54·0	0·000	...	·120
16	29·847	−·122	77·1	59·0	18·1	68·2	−0·3	64·7	61·8	+0·9	80	+ 4	·552	128·5	52·8	0·120	80	·140
17	29·952	−·020	74·1	66·4	7·7	69·2	+0·8	64·3	60·4	−0·4	74	− 2	·526	125·2	58·8	0·125	95	·200
18	30·018	+·044	74·1	63·8	10·3	67·7	−0·7	62·6	58·4	−2·3	73	− 3	·489	131·2	57·5	0·055	60	·135
19	30·000	+·024	74·0	58·3	15·7	67·0	−1·3	62·8	59·5	−1·1	77	+ 1	·509	126·2	53·0	0·040	35	·160
20	30·004	+·026	74·5	63·3	11·2	68·1	−0·1	64·3	61·3	+0·8	79	+ 3	·543	130·1	57·0	0·110	60	·110
21	29·994	+·015	74·4	63·7	10·7	68·4	+0·2	65·4	63·1	+2·7	83	+ 7	·578	135·9	58·0	0·060	60	·135
22	30·005	+·024	75·4	65·8	9·6	69·9	+1·8	65·4	62·0	+1·7	76	0	·556	124·2	63·0	0·000	...	·120
23	29·989	+·007	76·5	66·7	9·8	70·3	+2·2	65·9	62·5	+2·3	77	+ 1	·566	128·0	62·4	0·000	...	·140
24	29·955	−·029	74·4	61·8	12·6	68·1	+0·1	64·7	61·9	+1·7	81	+ 5	·554	131·0	53·0	0·020	15	·115
25	29·918	−·067	75·7	62·7	13·0	68·7	+0·8	65·0	62·0	+1·9	79	+ 3	·556	133·1	57·0	0·000	...	·100
26	29·881	−·106	73·6	64·6	9·0	69·3	+1·4	67·2	65·6	+5·6	88	+12	·630	117·5	61·0	1·140	405	·150
27	29·841	−·147	75·8	65·3	10·5	70·3	+2·4	67·3	65·0	+5·1	84	+ 8	·617	123·9	64·0	0·320	155	·180
28	29·809	−·181	76·3	67·5	8·8	71·7	+3·9	69·6	68·0	+8·1	88	+12	·684	113·0	59·5	0·195	203	·090
29	29·851	−·140	75·9	61·6	14·3	68·4	+0·6	65·5	63·2	+3·4	84	+ 8	·580	122·0	55·8	0·000	...	·140
30	29·917	−·076	75·9	61·7	14·2	68·9	+1·2	66·0	63·6	+3·8	83	+ 7	·588	121·5	57·5	0·065	40	·090
Mean	29·901	−·064	75·2	62·6	12·6	68·5	−0·2	64·8	61·9	+0·8	79·9	+3·5	·557	127·6	57·0	Sum 4·210	Sum 2043	·131
Average	29·965	...	76·1	62·6	13·5	68·7	...	64·4	61·1	...	76·4	...	·538	131·3	56·3	2·178	1312	·126
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



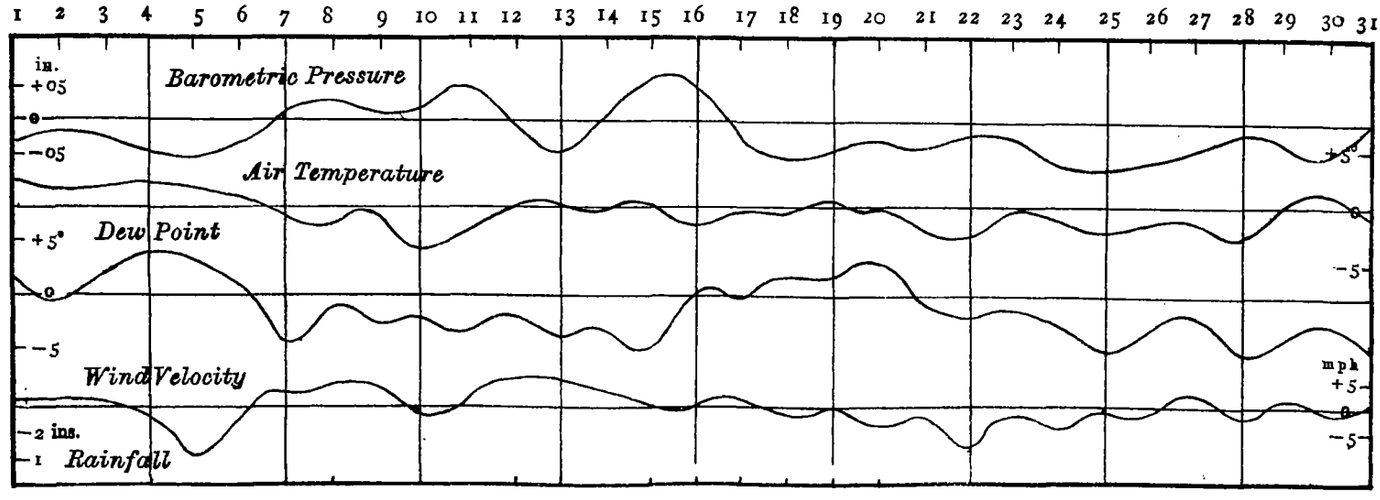
Month and Day. 1907.	Ozone (Scale 0—10)	Mean Amount of Cloud (Scale 0—10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind: Components. North.	Wind: Components. East.	Wind: Resultants. Direction.	Wind: Resultants. Velocity.	Wind: Excess above Average. Direction.	Wind: Excess above 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	3·0	8·5	6·3	57	− 7·8	+ 5·8	37	9·7	− 25	+ 0·2	9·8	77·5	76·35	o. : c.f. : b.
2	3·0	4·7	9·5	86	− 6·8	+ 4·5	34	8·2	− 28	− 1·4	8·2	77·4	76·40	b. : c.f.
3	3·5	5·0	6·7	61	− 4·1	+ 2·1	27	4·6	− 34	− 5·0	5·4	77·4	76·40	b. : c.f. : b.
4	3·0	4·5	7·2	66	− 5·5	+ 2·9	28	6·2	− 33	− 3·5	6·6	77·3	76·40	b. : c.f. : b.
5	3·0	3·0	10·6	97	− 1·8	+ 5·5	72	5·8	+ 11	− 3·9	6·9	77·3	76·35	b. : c.f. : b.
6	3·0	4·8	6·6	61	− 1·0	+ 6·2	81	6·3	+ 20	− 3·5	6·5	77·3	76·35	b. : c.f. : b.
7	3·0	6·2	9·3	85	− 2·9	+ 6·7	67	7·3	+ 6	− 2·5	7·6	77·2	76·35	c.f.
8	3·5	5·0	7·2	66	− 5·6	+ 6·5	49	8·6	− 12	− 1·3	8·6	77·2	76·45	c.f.
9	3·0	3·5	9·5	87	− 8·5	+ 9·7	49	12·9	− 12	+ 3·0	13·0	77·1	76·45	c.f.
10	3·0	9·0	4·1	38	− 2·6	+ 7·8	72	8·2	+ 11	− 1·8	9·2	77·0	76·40	b. : c.p.
11	3·0	8·4	5·6	51	− 5·4	+12·5	67	13·6	+ 7	+ 3·6	13·8	76·9	76·35	o.p. : c.q. : o.p.
12	3·5	8·9	5·2	48	− 2·5	+ 9·9	76	10·2	+ 16	+ 0·1	10·5	76·8	76·35	o.p. : c. : o.p.
13	3·5	5·5	9·3	85	− 1·3	+ 8·5	81	8·6	+ 21	− 1·5	9·0	76·7	76·35	o.p. : c.f. : o.p.
14	3·0	9·8	0·9	8	+ 3·9	+ 3·1	141	5·0	+ 81	− 5·2	5·8	76·7	76·35	c.f.: o.p.
15	2·0	9·5	6·2	57	+ 0·4	− 1·8	257	1·8	+197	− 8·4	4·8	76·6	76·30	o. : c.f.
16	3·5	3·2	10·3	94	− 6·1	+ 6·2	46	8·7	− 14	− 1·6	10·0	76·6	76·30	b. : c.f. : o.p.
17	3·5	7·5	9·4	86	− 9·4	+15·4	59	18·0	− 1	+ 7·7	18·2	76·5	76·30	o.p. : c.q. : c.p.
18	3·0	7·3	8·1	74	− 5·9	+11·7	63	13·1	+ 3	+ 2·8	13·3	76·4	76·25	f. : o. : c.q. : o.p.
19	3·5	5·2	8·2	75	− 6·0	+ 8·2	54	10·2	− 6	− 0·2	10·4	76·4	76·20	o.p.: c.f. : o.p.
20	3·0	6·5	6·7	61	− 6·1	+ 8·5	54	10·4	− 6	0·0	10·8	76·3	76·15	o. : c. : o.
21	3·0	6·3	6·5	60	− 4·3	+10·0	67	10·9	+ 7	+ 0·5	11·1	76·3	76·15	o. : c.f. : c.p.
22	3·0	4·5	10·1	93	− 7·4	+10·9	56	13·2	− 4	+ 2·8	13·2	76·2	76·15	c. : c.f.
23	3·0	4·0	9·7	89	− 3·7	+12·5	74	13·0	+ 13	+ 2·5	13·3	76·2	76·25	c.f.
24	3·0	4·2	8·7	80	− 0·5	+ 8·6	87	8·6	+ 26	− 1·9	8·8	76·1	76·20	c.f.: b. : c.
25	3·0	9·1	7·5	69	− 0·0	+ 6·7	90	6·7	+ 29	− 0·8	6·7	76·0	76·15	c.f. : o.
26	3·0	10·0	1·7	16	− 1·3	+ 2·5	62	2·8	+ 1	− 7·7	5·3	75·9	76·10	o.p. : o.r.t.l.
27	3·0	7·8	6·7	61	− 3·2	+ 9·3	71	9·9	+ 10	− 0·6	10·2	75·8	76·05	o.r. : c.f. : c.
28	3·0	10·0	0·4	4	+ 3·0	+ 2·2	144	3·7	+ 83	− 6·9	8·0	75·7	76·00	c.f.: o.r. : b.
29	3·0	1·5	10·4	95	− 2·7	− 4·6	300	5·3	+238	− 5·3	5·9	75·7	75·95	b.
30	2·5	9·6	1·6	15	− 3·5	− 3·1	319	4·7	+257	− 5·9	6·3	75·6	75·95	o. : c. : o.p. : c.
Mean	3·1	6·4	7·01	64·2	− 3·62	+ 6·50	61·0	7·44	+ 0·2	− 2·72	9·24	76·60	76·26	...
Average	4·7	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

An unusually large negative wave of pressure from the 9th. to the 17th. was accompanied by positive waves of temperature and vapour-tension and a negative wave of wind velocity, the increase in the latter being very rapid during the increase of pressure.

A second large negative wave of pressure from the 23rd. to July 2nd. was accompanied by positive waves of temperature and vapour-tension (large in the latter) and a negative wave of wind velocity, with a small superposed positive wave culminating on the 27th.

The principal rainfall occurred from the 10th. to the 21st. and from the 26th. to the 28th.

Month and Day. 1907.	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	29·965	−·029	73·8	67·2	6·6	69·5	+1·8	64·3	60·2	+ 0·5	72	− 4	·522	131·5	64·0	0·000	...	·100
2	29·983	−·012	73·9	65·6	8·3	69·1	+1·4	63·5	59·2	− 0·5	71	− 5	·503	129·3	63·5	0·000	...	·130
3	29·967	−·029	74·6	65·3	9·3	69·4	+1·8	64·7	61·1	+ 1·5	75	− 1	·539	125·4	62·0	0·000	...	·140
4	29·947	−·050	76·3	63·1	13·2	69·4	+1·8	65·9	63·2	+ 3·6	80	+ 4	·580	126·9	57·2	0·000	...	·125
5	29·939	−·058	76·9	61·0	15·9	68·8	+1·2	65·0	61·9	+ 2·3	79	+ 3	·554	135·9	55·0	0·000	...	·120
6	29·963	−·035	75·8	63·5	12·3	68·4	+0·8	63·5	59·6	0·0	74	− 2	·511	133·9	54·5	0·000	...	·140
7	30·017	+·018	73·5	60·2	13·3	66·6	−0·9	60·5	55·5	− 4·0	68	− 8	·441	122·2	51·1	0·000	...	·125
8	30·028	+·028	72·6	60·1	12·5	66·3	−1·2	61·8	58·1	− 1·4	75	− 1	·483	122·4	51·3	0·035	20	·145
9	30·014	+·013	73·9	62·4	11·5	67·2	−0·3	61·4	56·8	− 2·7	69	− 7	·462	126·2	55·2	0·000	...	·150
10	30·018	+·017	73·1	55·7	17·4	64·1	−3·4	60·2	57·0	− 2·5	78	+ 2	·465	126·8	47·2	0·000	...	·105
11	30·045	+·043	73·5	56·5	17·0	65·6	−1·8	60·3	55·9	− 3·5	71	− 5	·447	129·7	49·5	0·000	...	·140
12	29·988	−·014	72·6	62·6	10·0	67·1	−0·3	61·9	57·7	− 1·7	72	− 4	·477	125·3	58·1	0·060	55	·160
13	29·954	−·049	73·8	62·6	11·2	67·3	−0·1	61·3	56·5	− 2·9	68	− 8	·457	125·4	53·3	0·000	...	·140
14	30·001	−·003	73·4	62·9	10·5	67·4	0·0	61·3	56·4	− 3·0	68	− 8	·456	127·6	54·8	0·000	...	·160
15	30·059	+·055	72·6	61·6	11·0	67·2	−0·2	60·6	55·3	− 4·1	66	−10	·437	121·1	54·0	0·020	15	·130
16	30·059	+·054	72·0	62·2	9·8	66·0	−1·4	62·5	59·6	+ 0·2	80	+ 4	·511	123·6	54·9	0·060	45	·100
17	29·976	−·029	73·7	61·2	12·5	67·0	−0·4	62·6	59·1	− 0·2	76	0	·501	123·1	50·8	0·020	55	·145
18	29·950	−·056	74·2	61·4	12·8	67·1	−0·3	63·5	60·6	+ 1·3	80	+ 4	·529	134·0	53·5	0·040	35	·125
19	29·956	−·051	73·9	63·3	10·6	67·7	+0·3	63·8	60·6	+ 1·3	78	+ 2	·529	132·5	54·1	0·070	50	·135
20	29·968	−·039	74·1	60·2	13·9	67·2	−0·2	64·0	61·3	+ 2·0	82	+ 6	·543	125·3	53·0	0·030	15	·110
21	29·966	−·041	74·4	58·2	16·2	66·7	−0·7	62·3	58·8	− 0·5	76	0	·496	128·2	49·8	0·000	...	·115
22	29·977	−·030	76·2	55·0	21·2	64·9	−2·4	60·6	57·5	− 1·8	77	+ 1	·473	132·6	46·0	0·000	...	·115
23	29·969	−·039	73·9	58·3	15·6	66·9	−0·5	62·1	58·2	− 1·1	74	− 2	·485	131·1	54·3	0·000	...	·130
24	29·922	−·086	73·9	57·2	16·7	66·1	−1·3	61·0	56·9	− 2·4	72	− 3	·464	132·5	47·5	0·000	...	·130
25	29·917	−·091	73·5	58·1	15·4	65·5	−1·9	59·5	54·6	− 4·7	68	− 7	·427	127·0	46·2	0·000	...	·135
26	29·925	−·083	73·5	58·4	15·1	65·8	−1·6	60·2	55·5	− 3·7	70	− 5	·441	125·9	48·7	0·030	25	·155
27	29·952	−·056	72·9	58·7	14·2	65·9	−1·5	60·9	56·9	− 2·3	73	− 2	·464	131·1	47·5	0·000	...	·140
28	29·987	−·022	73·3	55·7	17·6	64·6	−2·8	58·9	54·1	− 5·1	69	− 6	·419	128·8	47·0	0·000	...	·145
29	29·969	−·040	73·7	62·1	11·6	67·6	+0·2	60·7	55·2	− 4·0	65	−10	·436	130·7	53·8	0·000	...	·135
30	29·943	−·066	73·9	62·5	11·4	67·9	+0·5	61·8	56·9	− 2·4	68	− 7	·464	120·3	51·4	0·000	...	·120
31	30·018	+·008	71·6	59·6	12·0	66·1	−1·4	59·4	53·9	− 5·4	65	−10	·416	126·3	49·0	0·000	...	·145
Mean	29·979	−·025	73·8	60·7	13·1	67·0	−0·5	61·9	57·9	− 1·5	72·9	−2·8	·482	127·8	52·8	Sum 0·365	Sum 315	·132
Average	30·004	...	75·0	61·6	13·4	67·5	...	63·1	59·4	...	75·7	...	·507	130·6	55·6	2·318	1528	·135
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1907.	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	3·5	8·7	2·7	25	− 9·6	+ 7·2	37	12·0	− 25	+ 1·4	12·0	75·5	75·90	c.
2	2·5	8·6	6·3	58	− 9·4	+ 7·4	38	12·0	− 24	+ 1·4	12·1	75·5	75·90	c.
3	4·0	5·0	9·8	90	− 6·6	+ 9·4	55	11·5	− 7	+ 0·8	11·7	75·5	75·85	c.f. : b.
4	3·0	5·3	9·7	89	− 1·1	+ 8·0	82	8·0	+ 19	− 2·7	8·4	75·5	75·85	c.f. : b.
5	2·0	4·9	7·3	67	− 2·3	+ 1·1	26	2·6	− 37	− 8·1	5·7	75·5	75·85	b. : c.
6	2·5	3·7	10·5	96	−10·2	+ 4·1	22	11·0	− 41	+ 0·3	11·4	75·5	75·85	b. : c.f. : b.
7	1·5	2·6	10·0	92	−10·0	+ 7·5	37	12·5	− 26	+ 1·8	12·6	75·5	75·85	b.
8	3·0	7·1	9·2	84	− 8·1	+11·5	55	14·0	− 8	+ 3·2	14·2	75·4	75·85	b. : c.p. : c.f. : b.
9	2·5	2·8	9·8	90	− 6·5	+10·7	59	12·6	− 5	+ 1·8	12·7	75·4	75·85	b. : c.f. : b.
10	1·0	5·7	8·0	73	− 4·2	+ 7·6	61	8·7	− 3	− 2·1	8·7	75·3	75·85	b. : c.f. : b.
11	3·0	7·8	8·3	76	− 8·5	+ 6·3	37	10·6	− 27	− 0·2	11·4	75·3	75·80	c.f. : b.
12	4·0	6·5	8·9	81	−10·1	+10·6	46	14·6	− 18	+ 3·8	14·8	75·3	75·80	c.p. : c.f. : b.
13	3·0	4·2	9·1	83	− 8·8	+12·2	54	15·0	− 10	+ 4·2	15·5	75·2	75·75	b. : c.f. : b.
14	1·0	5·8	10·3	94	− 7·4	+12·0	58	14·1	− 6	+ 3·2	14·2	75·1	75·70	b. : c.f. : b.
15	2·0	8·9	2·3	21	− 4·9	+10·0	64	11·2	0	+ 0·3	11·2	75·1	75·70	b. : c. :c.p.
16	4·0	9·0	4·3	39	− 5·9	+ 8·9	56	10·7	− 9	− 0·2	10·8	75·1	75·70	c. : c.p. : c.f.
17	3·0	5·5	8·9	81	− 5·7	+ 9·5	59	11·1	− 6	+ 0·2	11·3	75·1	75·75	b. : c.f. :c.p.
18	5·0	7·0	8·0	73	− 5·2	+ 8·3	58	9·8	− 7	− 1·1	9·9	75·1	75·75	c.p.:c.f.: c.p. : c.f.
19	4·0	7·5	9·1	83	− 4·7	+ 9·5	64	10·6	− 1	− 0·3	11·2	75·0	75·75	c.p. : c.f. : b.
20	3·0	5·7	7·1	65	− 4·0	+ 7·8	63	8·8	− 2	− 2·1	9·0	74·9	75·70	b. :c.p.: c.f. : b.
21	2·0	4·3	10·3	94	− 3·0	+ 8·6	71	9·1	+ 6	− 1·8	9·3	74·9	75·75	c.f. : b.
22	1·0	2·6	10·3	94	− 3·7	+ 2·2	31	4·4	− 34	− 6·6	5·7	74·8	75·75	b. : c.f. : b.
23	3·0	5·0	7·8	70	− 6·3	+ 5·4	41	8·3	− 24	− 2·7	8·5	74·8	75·75	c.f. : c.
24	3·0	3·9	7·8	70	− 5·9	+ 3·4	30	6·8	− 35	− 4·2	7·6	74·7	75·75	c.f.: b. : c.f.
25	4·0	3·0	10·3	93	− 7·6	+ 6·4	40	9·9	− 26	− 1·1	10·1	74·6	75·75	b. : c.f. : b.
26	3·0	4·2	9·5	86	− 6·3	+ 8·3	53	10·4	− 13	− 0·6	10·7	74·6	75·75	b. : c.f. :o.p.
27	4·0	6·5	8·5	77	− 9·6	+ 7·3	37	12·0	− 29	+ 1·0	12·2	74·6	75·70	c.f. : b.
28	5·0	6·3	8·7	78	− 6·4	+ 8·0	51	10·2	− 15	− 0·8	10·4	74·6	75·70	c.f.
29	3·0	6·5	5·7	51	− 6·5	+ 8·0	51	10·3	− 15	− 0·7	10·3	74·5	75·70	c.f. : o.
30	3·0	9·4	1·2	11	− 9·9	+ 3·8	21	10·6	− 45	− 0·5	11·0	74·5	75·70	c. :c.f.
31	4·0	7·7	6·4	57	−10·5	+ 5·6	28	11·9	− 38	+ 0·8	12·1	74·4	75·65	c.f. : o.
Mean	3·0	5·9	7·94	72·3	− 6·74	+ 7·63	48·6	10·18	− 13·8	− 0·68	10·86	75·06	75·77	...
Average	5·0	5·2	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

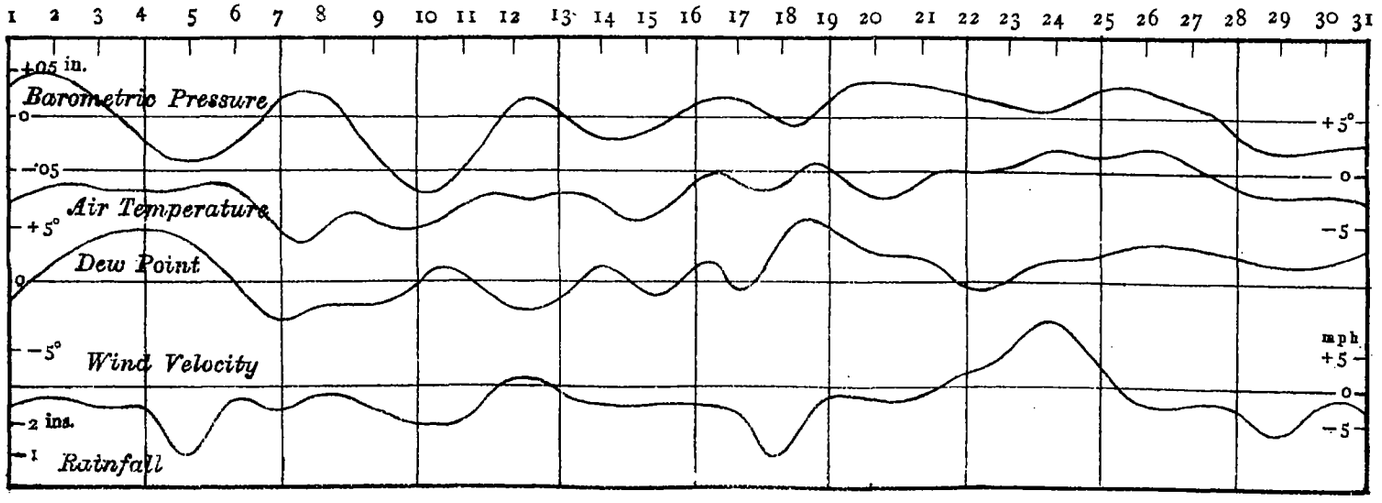
A negative wave of pressure from the 2nd. to the 7th., was accompanied by positive waves of temperature and vapour-tension, and a negative wave of wind velocity.

A negative wave of vapour-tension from the 7th. to the 16th., was accompanied by a positive wave of pressure with a superposed negative wave culminating on the 13th. A negative wave of temperature occurred from the 9th. to the 12th., and a double wave of wind velocity (from negative to positive) from the 9th. to the 15th.

A negative wave of pressure from the 17th. to the 31st. was accompanied by negative waves of temperature and wind velocity and a double wave of vapour-tension (from positive to negative).

The principal rainfall occurred from the 15th. to the 20th. Only 0·36 in. of rain fell during the month. This is the least fall on record for the month of July. The previous record was 0·72 in. in 1883.

Month and Day. 1907.	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	30·089	+·079	69·0	63·1	5·9	65·5	−2·0	58·4	52·6	−6·7	63	−12	·397	98·6	61·7	0·000	...	·100
2	30·110	+·100	73·3	59·3	14·0	66·6	−0·9	60·4	55·3	−4·0	67	−8	·437	132·3	50·5	0·000	...	·145
3	30·048	+·037	75·3	59·5	15·8	66·8	−0·7	61·9	58·0	−1·3	73	−2	·482	134·8	51·9	0·020	15	·160
4	29·968	−·043	76·0	59·2	16·8	66·3	−1·3	61·9	58·3	−1·0	76	+1	·487	128·2	50·0	0·000	...	·155
5	29·929	−·082	76·3	56·6	19·7	66·4	−1·2	61·9	58·2	−1·1	75	0	·485	127·8	48·8	0·000	...	·160
6	29·967	−·044	75·3	58·7	16·6	66·3	−1·3	60·1	55·1	−4·2	67	−8	·434	134·8	49·9	0·000	...	·155
7	30·038	+·027	73·8	53·2	20·6	62·9	−4·7	56·4	50·8	−8·5	65	−10	·371	129·3	43·8	0·000	...	·180
8	30·048	+·037	75·8	49·9	25·9	61·6	−6·1	56·6	52·4	−6·9	62	−13	·394	136·0	40·0	0·000	...	·160
9	29·977	−·034	74·1	52·8	21·3	63·7	−4·0	57·7	52·7	−6·6	68	−7	·399	127·2	42·9	0·000	...	·180
10	29·887	−·124	74·2	52·1	22·1	63·0	−4·7	58·0	53·7	−5·6	72	−3	·413	134·8	42·2	0·000	...	·140
11	29·903	−·108	73·8	54·5	19·3	64·8	−2·9	59·5	55·2	−4·2	71	−4	·436	121·5	45·0	0·000	...	·165
12	30·024	+·013	71·7	59·6	12·1	65·7	−2·1	58·3	52·2	−7·2	62	−13	·391	125·2	49·1	0·000	...	·150
13	30·022	+·011	73·7	61·5	12·2	66·2	−1·6	59·0	53·2	−6·2	63	−12	·406	132·9	53·8	0·000	...	·165
14	29·981	−·030	73·0	60·4	12·6	65·0	−2·9	59·6	55·1	−4·3	70	−5	·434	137·8	49·8	0·000	...	·120
15	29·998	−·013	74·9	52·1	22·8	64·0	−3·9	58·2	53·4	−6·0	69	−6	·409	133·8	40·6	0·000	...	·160
16	30·026	+·015	73·7	60·6	13·1	67·0	−0·9	60·7	55·5	−3·9	67	−8	·441	128·4	58·6	0·055	25	·140
17	30·031	+·020	76·3	60·6	15·7	67·4	−0·6	60·1	54·2	−5·2	63	−12	·421	132·9	53·7	0·000	...	·180
18	30·009	−·002	76·1	59·5	16·6	67·3	−0·7	62·9	59·3	−0·1	75	0	·505	132·9	52·2	0·000	...	·095
19	30·042	+·032	76·9	61·9	15·0	68·2	+0·2	62·8	58·4	−1·1	71	−3	·489	141·8	55·5	0·000	...	·160
20	30·087	+·077	75·5	57·4	18·1	66·3	−1·8	60·6	56·0	−3·5	70	−4	·449	131·9	47·8	0·045	40	·185
21	30·076	+·066	76·3	55·7	20·6	67·4	−0·7	61·0	55·8	−3·7	67	−7	·446	130·0	49·2	0·000	...	·190
22	30·059	+·049	75·2	62·8	12·4	68·3	+0·1	60·4	54·2	−5·3	61	−13	·421	127·0	57·5	0·000	...	·220
23	30·042	+·032	74·2	64·2	10·0	68·7	+0·5	60·7	54·4	−5·1	61	−13	·424	129·1	60·0	0·000	...	·210
24	30·034	+·024	76·3	66·2	10·1	69·9	+1·7	62·4	56·7	−2·8	63	−11	·461	133·4	60·2	0·000	...	·220
25	30·058	+·049	75·3	65·8	9·5	69·5	+1·2	62·5	57·1	−2·4	65	−9	·467	128·1	62·4	0·000	...	·180
26	30·046	+·037	76·2	63·8	12·4	69·5	+1·2	63·0	57·9	−1·7	67	−7	·480	135·8	59·2	0·000	...	·195
27	30·024	+·016	77·3	59·0	18·3	68·4	0·0	62·5	57·8	−1·8	69	−5	·479	136·1	49·9	0·000	...	·180
28	29·993	−·015	76·3	58·0	18·3	66·8	−1·6	61·7	57·5	−2·1	72	−2	·473	134·5	52·6	0·000	...	·170
29	29·951	−·057	77·3	57·7	19·6	66·3	−2·2	60·6	56·0	−3·6	70	−4	·449	136·7	50·2	0·000	...	·130
30	29·957	−·050	77·1	55·6	21·5	66·8	−1·7	61·0	56·4	−3·3	69	−4	·456	133·0	46·6	0·000	...	·200
31	29·960	−·047	76·6	57·7	18·9	66·7	−1·9	61·2	56·7	−3·0	70	−3	·461	138·3	49·2	0·000	...	·190
Mean	30·012	+·002	75·1	58·7	16·4	66·4	−1·6	60·4	55·5	−3·9	67·8	−6·7	·442	131·1	51·1	Sum 0·120	Sum 80	·166
Average	30·010	...	75·6	61·6	14·0	68·0	...	63·2	59·4	...	74·5	...	·508	134·1	55·6	2·538	1603	·158
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day. 1907.	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	3·0	10·0	0·4	4	− 6·3	+ 5·6	42	8·4	− 24	− 2·7	8·5	74·4	75·60	o.
2	1·0	7·5	7·8	69	− 5·8	+ 7·7	53	9·7	− 13	− 1·4	9·8	74·4	75·60	o. : c.f.
3	3·0	5·7	10·2	91	− 0·1	+ 8·2	89	8·2	+ 23	− 2·9	8·4	74·4	75·55	c.f.: c.p. : c.f. : b.
4	3·0	3·0	10·2	91	+ 0·2	+ 7·6	91	7·6	+ 24	− 3·5	7·7	74·4	75·60	b. : c.f. : b.
5	3·0	2·4	10·4	93	+ 0·8	− 0·1	187	0·8	+120	−10·3	6·2	74·4	75·55	b. : c.p.
6	4·0	3·8	9·7	87	− 8·1	+ 4·3	28	9·1	− 39	− 2·0	9·3	74·3	75·55	b. : c.f. : b.
7	4·0	2·4	10·8	96	− 6·9	+ 4·5	33	8·3	− 34	− 2·8	8·4	74·3	75·55	b. : c.f. : b.
8	3·0	4·7	10·6	94	− 9·3	+ 4·9	28	10·5	− 39	− 0·6	10·7	74·3	75·55	b. : c.f. : b.
9	3·0	2·5	10·6	94	− 6·0	+ 6·5	47	8·8	− 20	− 2·4	9·6	74·3	75·55	b. : c.f. : b.
10	4·0	3·5	9·1	81	− 1·1	+ 5·8	79	5·9	+ 12	− 5·3	6·2	74·3	75·55	b. : c.f. : b.
11	4·0	6·3	8·7	77	− 5·4	− 1·9	341	5·8	+274	− 5·4	10·1	74·3	75·50	b. : c.f. : b.
12	4·0	9·1	3·7	33	− 9·6	+ 6·5	34	11·6	− 33	+ 0·4	12·1	74·3	75·50	c.f. : o.q. : c.
13	3·0	7·5	6·7	59	− 7·8	+ 7·3	43	10·7	− 24	− 0·5	10·9	74·2	75·50	o. : c.f.
14	3·0	7·0	5·0	44	− 8·0	+ 4·0	27	8·9	− 41	− 2·2	9·4	74·3	75·50	c.f.
15	4·0	5·5	9·3	82	− 6·1	+ 6·2	46	8·7	− 22	− 2·4	8·7	74·3	75·50	c.f.
16	4·0	9·1	4·2	37	− 6·0	+ 6·0	45	8·5	− 23	− 2·6	8·6	74·3	75·50	c.p.: o. : c.
17	3·0	7·7	9·7	85	− 3·1	+ 8·1	69	8·7	+ 1	− 2·5	8·8	74·2	75·45	o. : c.f
18	4·0	8·4	4·2	37	− 1·9	+ 2·3	50	3·0	− 18	− 8·5	5·7	74·2	75·45	c.f. : c.
19	5·0	8·5	7·4	65	− 7·8	+ 5·9	37	9·8	− 31	− 1·4	10·6	74·2	75·45	c.f.: o. : c.f. : b.
20	4·0	5·0	11·0	96	− 5·7	+ 7·9	54	9·7	− 14	− 1·5	9·8	74·1	75·40	b. :c.p.: c.f. : b.
21	5·0	4·3	10·3	90	− 4·3	+ 9·2	65	10·2	− 3	− 1·0	10·2	74·1	75·35	c.f.
22	2·0	7·1	8·2	71	− 7·9	+10·7	54	13·3	− 14	+ 2·1	13·3	74·1	75·30	c.f.
23	8·0	8·7	5·5	48	− 8·8	+12·9	56	15·6	− 12	+ 4·4	15·7	74·1	75·30	c.
24	4·0	8·3	7·2	63	− 9·7	+17·6	61	20·0	− 8	+ 8·8	20·3	74·1	75·30	c.f. : c.q. : c.
25	3·0	6·0	8·2	71	− 4·4	+14·4	73	15·0	+ 4	+ 3·8	15·2	74·2	75·40	c.f.
26	3·0	7·6	7·9	69	− 2·1	+ 9·4	77	9·6	+ 8	− 1·6	9·7	74·2	75·20	c.f.
27	4·0	5·2	10·5	91	− 3·9	+ 7·2	62	8·2	− 7	− 3·0	8·2	74·1	75·25	c.f. : b.
28	3·0	5·0	10·3	89	− 4·6	+ 7·5	58	8·8	− 11	− 2·4	9·0	74·0	75·30	b. : c.f. : b.
29	3·0	4·8	6·5	56	− 3·7	+ 2·9	38	4·7	− 31	− 6·5	6·6	74·0	75·25	b. : c.f. : b.
30	4·0	2·7	11·0	95	− 5·5	+ 7·8	55	9·6	− 14	− 1·6	9·7	74·1	75·25	c.f.: b. : c.f. : b.
31	5·0	6·3	9·2	79	− 2·7	+ 8·2	72	8·6	+ 3	− 2·6	9·1	74·1	75·25	b. : c.f. : b.
Mean	3·6	6·0	8·21	72·2	− 5·21	+ 6·94	53·1	8·68	−14·6	− 2·50	9·89	74·23	75·44	...
Average	5·2	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

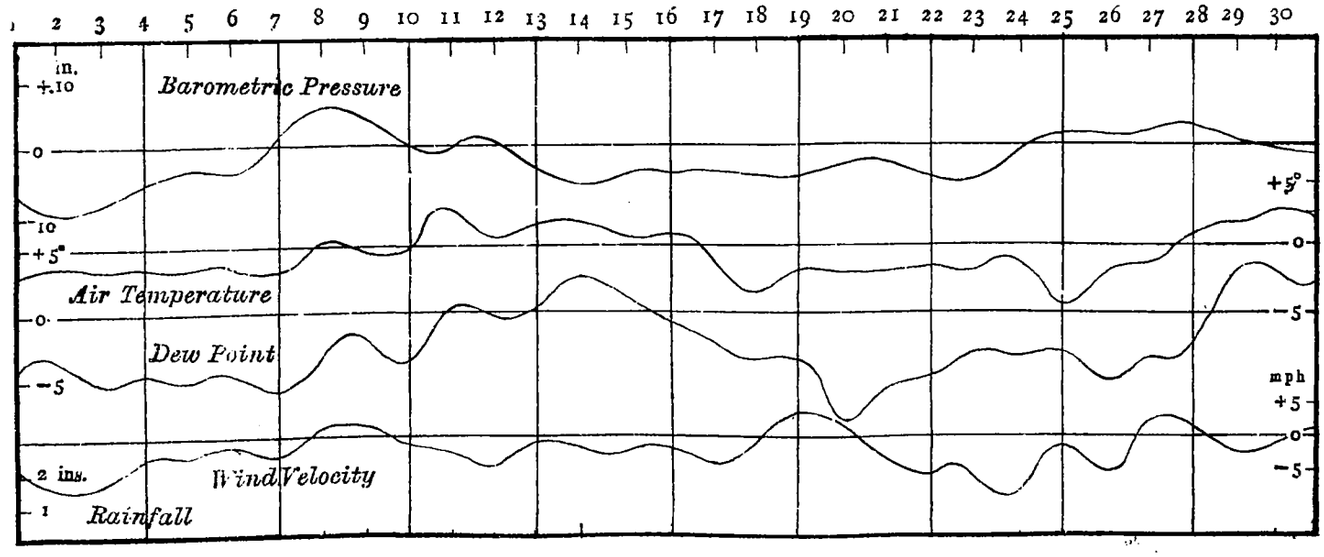
A double wave of pressure (from positive to negative) from July 31 to August 7 was accompanied by a double wave of vapour-tension (from negative to positive) and a negative wave of temperature : a negative wave of wind velocity coincided with the negative wave of pressure.

A negative wave of pressure from the 9th. to the 12th., was accompanied by increasing temperature, a positive wave of vapour-tension and a negative wave of wind velocity.

From the 16th. to the 27th. there was a positive wave of pressure with a superposed negative wave from the 17th. to the 20th. accompanied by a well-marked positive wave of vapour-tension and a negative wave of wind velocity. Positive waves of temperature and wind velocity culminated on the 24th. and of vapour-tension on the 27th.

Only 0·12 in. of rain fell during the month. This is the least fall on record for any month. The previous record for the month of August was 0·34 in. in 1884.

Month and Day. 1907.	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	29·950	−·057	78·0	55·5	22·5	66·4	−2·2	60·2	55·2	− 4·5	67	− 6	·436	135·1	46·6	0·000	...	·190
2	29·913	−·093	78·2	57·2	21·0	67·5	−1·2	61·5	56·7	− 3·1	68	− 5	·461	140·6	49·0	0·000	...	·200
3	29·932	−·074	78·7	56·0	22·7	67·5	−1·2	60·6	55·0	− 4·8	65	− 8	·433	133·3	46·0	0·000	...	·230
4	29·949	−·056	78·1	58·8	19·3	67·5	−1·3	60·3	54·5	− 5·3	63	−10	·425	138·7	47·8	0·000	...	·215
5	29·969	−·036	76·4	59·4	17·0	66·8	−2·1	59·8	54·2	− 5·6	64	− 9	·421	143·7	49·0	0·000	...	·180
6	29·969	−·035	77·4	57·4	20·0	67·4	−1·5	60·5	54·9	− 5·0	65	− 8	·431	143·1	50·3	0·000	...	·210
7	30·019	+·016	78·5	59·5	19·0	67·2	−1·8	59·9	53·9	− 6·0	62	−11	·416	146·1	47·2	0·000	...	·160
8	30·067	+·065	78·3	60·8	17·5	68·7	−0·3	61·8	56·5	− 3·4	65	− 8	·457	132·3	51·6	0·030	30	·200
9	30·038	+·037	76·7	62·1	14·6	68·9	−0·2	62·9	58·2	− 1·8	69	− 3	·485	132·1	52·3	0·020	30	·170
10	30·004	+·003	77·9	61·8	16·1	69·0	−0·1	62·0	56·5	− 3·5	65	− 7	·457	139·0	52·8	0·000	...	·220
11	30·003	+·003	79·1	64·7	14·4	71·6	+2·4	65·2	60·2	+ 0·2	67	− 5	·522	138·0	57·6	0·015	10	·235
12	30·011	+·012	79·1	62·0	17·1	69·7	+0·4	64·6	60·5	+ 0·4	73	+ 1	·528	140·6	53·1	0·010	10	·170
13	29·970	−·028	78·8	64·0	14·8	71·3	+1·9	65·3	60·6	+ 0·5	69	− 3	·529	138·7	56·7	0·090	20	·220
14	29·951	−·046	78·1	66·2	11·9	71·0	+1·5	66·4	62·9	+ 2·8	76	+ 4	·574	134·6	59·5	0·265	95	·205
15	29·950	−·046	78·6	63·5	15·1	70·3	+0·8	65·3	61·4	+ 1·2	74	+ 2	·545	135·3	54·8	0·010	15	·190
16	29·952	−·042	78·8	62·1	16·7	70·8	+1·2	64·5	59·6	− 0·6	68	− 4	·511	134·6	50·8	0·000	...	·200
17	29·955	−·038	77·7	59·9	17·8	67·8	−1·9	62·4	58·1	− 2·1	71	− 1	·483	130·0	49·2	0·000	...	·110
18	29·938	−·053	76·0	55·7	20·3	65·9	−3·8	60·8	56·6	− 3·7	72	0	·459	131·0	47·9	0·000	...	·110
19	29·940	−·050	75·5	61·7	13·8	67·8	−2·0	61·6	56·6	− 3·7	68	− 3	·459	134·4	52·6	0·000	...	·200
20	29·958	−·031	76·7	63·0	13·7	68·4	−1·5	59·3	52·2	− 8·1	56	−15	·391	140·8	56·2	0·000	...	·250
21	29·967	−·021	77·4	63·8	13·6	68·2	−1·8	60·6	54·7	− 5·7	62	− 9	·428	145·4	60·9	0·000	...	·160
22	29·942	−·045	78·3	59·8	18·5	68·6	−1·5	61·3	55·5	− 4·9	63	− 8	·441	140·2	49·0	0·000	...	·170
23	29·946	−·039	78·6	58·8	19·8	68·6	−1·5	62·6	57·8	− 2·7	69	− 2	·479	138·4	49·7	0·000	...	·140
24	29·984	·000	78·5	60·4	18·1	69·3	−0·9	62·5	57·1	− 3·4	65	− 6	·467	137·5	52·9	0·000	...	·180
25	29·997	+·015	76·0	58·4	17·6	65·8	−4·4	61·2	57·4	− 3·2	75	+ 4	·472	133·4	51·6	0·000	...	·130
26	30·003	+·022	79·2	59·4	19·8	68·7	−1·6	61·6	56·1	− 4·5	64	− 7	·451	142·4	50·6	0·000	...	·200
27	30·002	+·023	78·5	60·2	18·3	69·4	−1·0	63·3	58·5	− 2·2	69	− 2	·491	137·3	52·2	0·000	...	·220
28	30·004	+·026	80·6	64·9	15·7	71·4	+0·9	64·3	58·8	− 1·9	65	− 6	·496	135·0	57·5	0·000	...	·215
29	29·982	+·006	80·5	64·4	16·1	72·3	+1·7	67·7	64·2	+ 3·5	76	+ 5	·601	140·6	56·7	0·010	10	·160
30	29·974	·000	81·8	66·6	15·2	73·2	+2·6	67·3	63·0	+ 2·2	70	− 1	·576	133·6	58·8	0·025	30	·265
Mean -	29·975	−·018	78·2	60·9	17·3	68·9	−0·7	62·6	57·6	− 2·6	67·5	−4·4	·477	137·5	52·4	Sum 0·475	Sum 250	·190
Average	29·993	...	77·5	62·3	15·2	69·6	...	64·3	60·2	...	71·9	...	·522	138·6	56·5	1·316	923	·189
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1907.	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	3·0	1·4	9·4	80	− 4·5	+ 6·1	54	7·6	− 15	− 3·5	7·8	74·2	75·30	b. : c.f.: b.
2	2·0	4·0	9·1	78	− 1·3	+ 3·3	68	3·5	− 2	− 7·6	7·0	74·2	75·25	b. : c.f. : b.
3	6·0	2·0	11·1	95	− 3·5	− 3·5	45	5·0	− 25	− 6·1	7·3	74·2	75·20	b. : c.f. : b.
4	6·0	6·2	8·4	72	− 8·6	+ 1·7	11	8·7	− 59	− 2·4	9·5	74·3	75·25	b. : c.f. : b.
5	4·0	7·0	7·8	67	− 8·8	+ 3·2	20	9·4	− 50	− 1·7	9·6	74·3	75·20	b. : c.f.
6	7·0	5·8	10·5	90	− 7·2	+ 6·6	42	9·7	− 28	− 1·4	10·1	74·3	75·15	c.f.
7	5·0	5·5	5·4	46	− 6·1	+ 5·2	40	8·0	− 30	− 3·0	8·5	74·3	75·15	c.f. : b.
8	7·0	7·2	8·5	72	− 6·4	+ 10·1	58	12·0	− 12	+ 1·0	11·8	74·3	75·15	c. : c.p.q. : b.
9	6·0	8·1	8·0	68	− 6·3	+ 11·6	61	13·2	− 9	+ 2·2	13·5	74·3	75·10	c.f. : c.q. : o.p.
10	5·0	4·8	9·8	83	− 4·0	+ 9·7	68	10·5	− 2	− 0·5	10·9	74·4	75·15	c.f. : b.
11	6·0	6·5	9·0	76	− 0·4	+ 8·8	87	8·8	+ 16	− 2·1	9·1	74·4	75·15	c.f. : o.p.
12	7·0	6·1	6·2	52	− 2·3	+ 7·5	73	7·9	+ 2	− 3·0	8·0	74·4	75·15	c.f.: b. : c. : o.p.
13	9·0	4·0	10·6	89	− 3·9	+ 9·8	68	10·6	− 3	− 0·3	10·7	74·4	75·10	c. : b. : c.f. :c.p.
14	6·0	9·0	6·1	51	+ 0·9	+ 9·3	96	9·3	+ 25	− 1·5	9·5	74·4	75·10	o.p. : c. : p.
15	6·0	5·2	9·5	80	− 0·7	+ 8·1	85	8·2	+ 14	− 2·6	8·4	74·4	75·10	c.d.: c.f.
16	6·0	5·8	10·3	87	− 4·6	+ 8·4	61	9·6	− 11	− 1·1	9·8	74·5	75·05	c.f.
17	6·0	6·9	5·5	46	− 4·2	+ 5·7	54	7·1	− 18	− 3·6	7·3	74·5	75·05	b. : c.f. : b.
18	9·0	7·0	5·8	48	− 8·1	+ 5·6	35	9·9	− 37	− 0·7	10·0	74·5	75·05	b. : c.f.
19	7·0	7·2	8·5	71	−12·1	+ 8·4	35	14·7	− 37	+ 4·1	14·8	74·5	75·10	c.f. : c.f.q. : c.f.
20	8·0	4·8	11·0	92	− 9·7	+ 7·5	38	12·3	− 34	+ 1·7	12·4	74·6	75·10	c.f. : b. : c.f. : c.
21	5·0	8·9	3·3	27	− 4·8	+ 5·5	49	7·3	− 23	− 3·2	7·8	74·6	75·10	c.f. : o.
22	6·0	5·5	7·1	59	− 3·9	+ 3·9	45	5·5	− 27	− 5·0	7·2	74·6	75·10	o. : c.f.
23	3·0	6·7	5·9	49	− 3·7	+ 4·3	49	5·6	− 24	− 4·8	7·2	74·6	75·10	o. : b. : c.f.
24	5·0	5·5	8·8	73	− 1·6	+ 2·2	54	2·7	− 19	− 7·7	6·7	74·6	75·10	o. : c.f. : b.
25	6·0	8·3	4·8	40	− 5·9	+ 7·0	50	9·2	− 23	− 1·1	9·2	74·7	75·15	c.f. : c. : b.
26	6·0	3·4	9·7	80	− 4·6	+ 2·8	31	5·4	− 42	− 4·9	7·9	74·7	75·15	b. : c.f. : b.
27	6·0	6·7	9·4	78	− 3·0	+ 12·4	76	12·8	+ 3	+ 2·6	13·5	74·7	75·15	b. : c.f.
28	4·5	4·3	8·9	73	− 5·3	+ 9·8	62	11·1	− 12	+ 0·9	11·3	74·7	75·15	c.f. : b.
29	6·0	5·5	7·6	62	− 0·1	+ 7·6	89	7·6	+ 15	− 2·6	9·1	74·7	75·10	b. : c.f. : b.
30	5·0	5·2	10·7	88	− 0·6	+ 9·4	86	9·4	+ 12	− 0·7	9·9	74·7	75·15	o.p. : c.f. : b.
Mean	5·8	5·8	8·22	69·0	− 4·51	+ 6·60	55·6	7·99	− 15·9	− 2·70	9·53	74·47	75·14	...
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

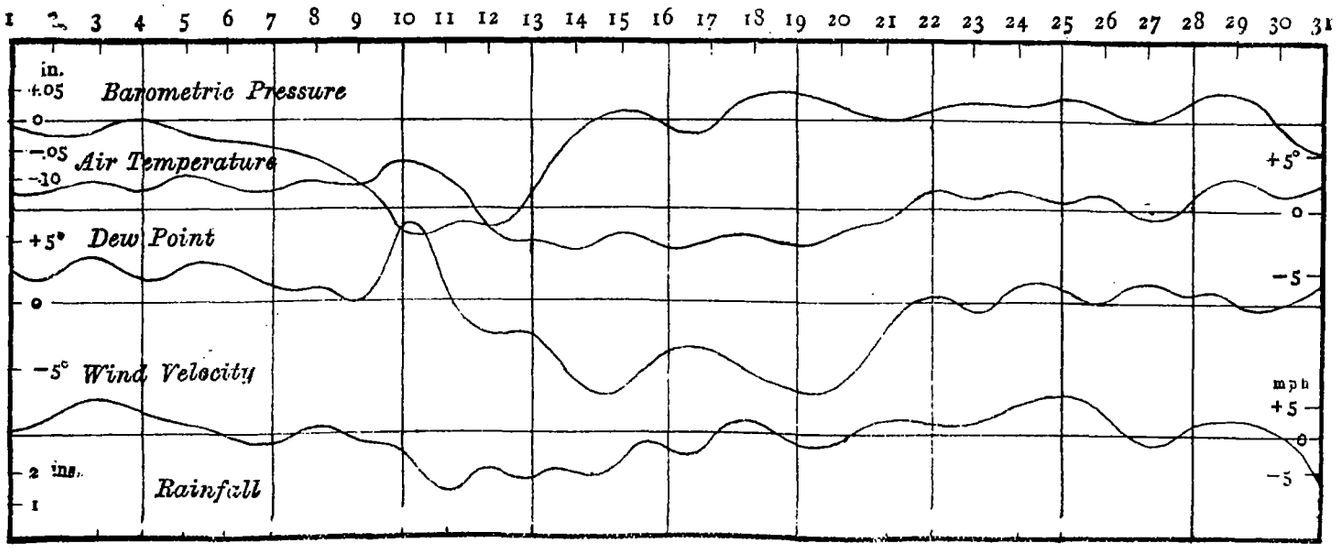
A negative wave of pressure from August 28 to September 7 was accompanied by negative waves of temperature, vapour-tension, and wind velocity; in the latter element a superposed positive wave culminated on August 31st.

A positive wave of pressure from the 7th. to the 10th. was accompanied by increasing temperature and vapour-tension, and a positive wave of wind velocity.

A negative wave of pressure from the 12th. to the 24th. was accompanied by double waves of temperature and vapour-tension (from positive to negative) and a negative wave of wind velocity with a superposed positive wave culminating on the 19th.

The principal rainfall occurred on the 13th. and 14th.

Month and Day. 1907.	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	29·965	−·007	80·6	65·0	15·6	72·4	+1·7	67·5	63·8	+2·9	74	+ 3	·592	137·9	58·3	0·000	...	·160
2	29·957	−·013	79·4	66·5	12·9	72·8	+2·0	67·1	62·8	+1·9	71	0	·572	138·0	60·0	0·000	...	·200
3	29·957	−·011	81·3	68·5	12·8	73·7	+2·8	68·4	64·4	+3·4	73	+ 2	·605	144·7	65·1	0·070	65	·230
4	29·966	·000	80·1	66·9	13·2	72·9	+1·9	67·2	62·8	+1·8	71	0	·572	136·8	62·3	0·035	45	·205
5	29·942	−·022	80·3	69·0	11·3	73·7	+2·7	67·9	63·7	+2·6	71	0	·590	137·8	65·9	0·040	40	·240
6	29·923	−·039	80·9	67·1	13·8	72·9	+1·8	67·7	63·8	+2·7	73	+ 2	·592	140·5	60·7	0·130	95	·230
7	29·916	−·044	82·1	65·5	16·6	72·7	+1·5	66·7	62·3	+1·1	70	− 1	·562	140·3	60·6	0·015	40	·225
8	29·881	−·077	81·6	66·4	15·2	73·6	+2·3	67·1	62·3	+1·1	68	− 3	·562	138·5	60·7	0·000	...	·260
9	29·829	−·127	83·1	65·7	17·4	73·8	+2·4	66·7	61·4	+0·1	65	− 6	·545	142·0	57·7	0·000	...	·270
10	29·757	−·197	82·7	66·1	16·6	75·1	+3·6	70·5	67·1	+5·8	77	+ 6	·664	138·8	60·0	0·190	15	·200
11	29·774	−·178	82·6	64·1	18·5	73·4	+1·8	67·4	63·0	+1·6	70	0	·576	135·0	55·7	0·015	25	·265
12	29·776	−·174	78·7	60·7	18·0	70·0	−1·7	63·8	59·1	−2·4	68	− 2	·501	131·1	52·3	0·000	...	·260
13	29·830	−·118	77·3	60·8	16·5	69·4	−2·4	63·5	58·9	−2·6	69	− 1	·498	125·0	54·4	0·000	...	·120
14	29·925	−·021	80·1	58·2	21·9	68·7	−3·2	61·5	55·9	−5·7	64	− 6	·447	138·0	50·4	0·000	...	·160
15	29·963	+·019	80·5	57·2	23·3	69·5	−2·5	61·6	55·5	−6·2	61	− 9	·441	143·4	47·2	0·000	...	·270
16	29·936	−·006	76·6	62·8	13·8	69·0	−3·1	62·7	57·7	−4·0	68	− 2	·477	128·1	55·0	0·000	...	·090
17	29·930	−·010	78·8	62·8	16·0	69·9	−2·3	63·1	57·9	−3·9	66	− 4	·480	137·0	53·3	0·010	15	·150
18	29·977	+·039	79·9	61·6	18·3	70·6	−1·7	63·2	57·5	−4·3	63	− 7	·473	138·6	51·7	0·000	...	·250
19	29·993	+·057	80·3	59·9	20·4	70·1	−2·3	62·4	56·4	−5·5	62	− 8	·456	146·7	54·0	0·000	...	·190
20	29·960	+·026	79·0	63·1	15·9	71·4	−1·1	62·6	55·8	−6·2	58	−12	·446	133·9	55·0	0·000	...	·190
21	29·937	+·005	80·7	66·1	14·6	72·4	−0·2	65·6	60·4	−1·7	66	− 4	·526	143·8	62·7	0·030	25	·220
22	29·943	+·013	81·8	68·6	13·2	74·4	+1·7	67·7	62·7	+0·6	67	− 3	·570	144·3	63·4	0·035	15	·255
23	29·964	+·036	82·8	66·8	16·0	73·8	+1·0	67·0	61·9	−0·3	67	− 3	·554	138·2	59·3	0·000	...	·260
24	29·951	+·025	82·0	69·1	12·9	74·3	+1·4	68·1	63·6	+1·3	69	− 1	·588	141·0	65·6	0·010	15	·240
25	29·955	+·031	80·8	68·7	12·1	73·6	+0·6	67·8	63·4	+1·0	71	+ 2	·584	136·3	60·5	0·090	60	·290
26	29·937	+·015	82·8	66·7	16·1	74·5	+1·3	67·6	62·5	+0·1	66	− 3	·566	144·4	58·5	0·000	...	·280
27	29·928	+·009	81·6	67·1	14·5	73·2	−0·1	68·1	64·3	+1·8	74	+ 5	·603	141·4	59·4	0·000	...	·160
28	29·949	+·032	83·3	67·6	15·7	74·3	+0·9	67·8	63·0	+0·4	68	− 1	·576	143·5	61·8	0·000	...	·300
29	29·947	+·032	82·3	67·8	14·5	76·0	+2·5	68·3	62·8	+0·1	63	− 6	·572	143·7	60·6	0·000	...	·290
30	29·898	−·015	83·8	66·0	17·8	74·2	+0·6	67·5	62·6	−0·1	67	− 2	·568	144·7	59·2	0·000	...	·260
31	29·860	−·051	87·8	64·8	23·0	76·0	+2·3	69·4	64·5	+1·7	68	− 1	·607	148·1	57·3	0·000	...	·280
Mean	29·917	−·025	81·1	65·1	16·1	72·7	+0·6	66·2	61·4	−0·4	68·0	−2·1	·547	139·4	58·3	Sum 0·670	Sum 455	·226
Average	29·942	...	80·9	64·7	16·2	72·1	...	66·2	61·8	...	70·1	...	·552	143·0	59·2	1·281	839	·227
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



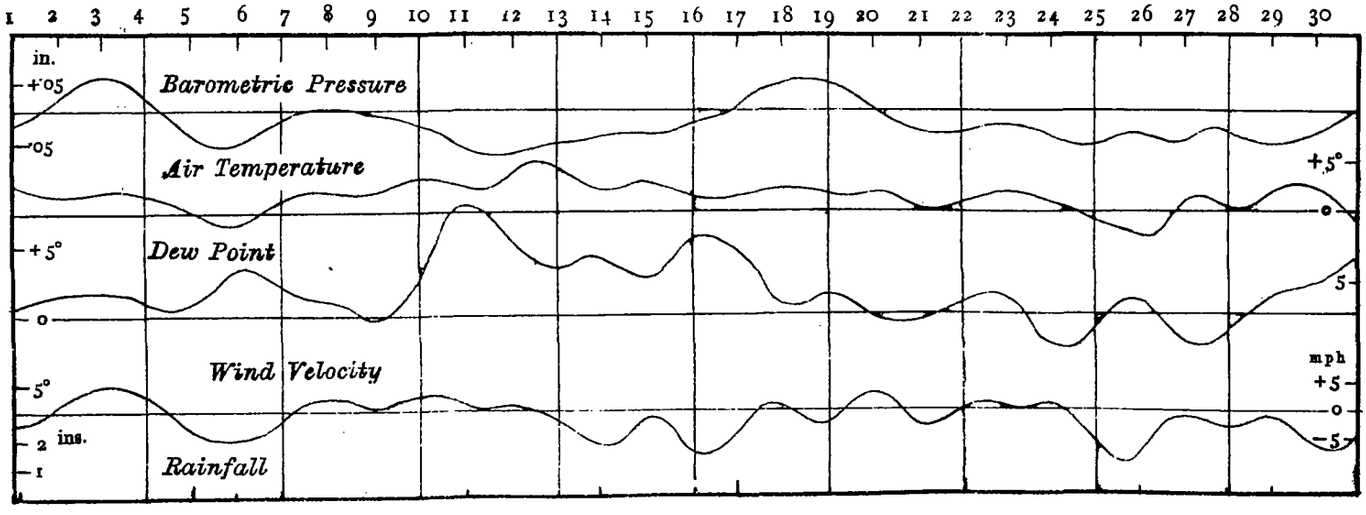
Month and Day. 1907.	Ozone (Scale 0—10)	Mean Amount of Cloud (Scale 0—10).	Duration of Bright Sunshine.	Percentage of Possible Sunshine.	Wind: Components. North.	Wind: Components. East.	Wind: Resultants. Direction.	Wind: Resultants. Velocity.	Wind: Excess above Average. Direction.	Wind: Excess above 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	7·0	7·7	7·5	61	− 2·5	+10·5	77	10·8	+ 2	+ 0·8	11·1	74·7	75·15	c.f. : c. : b.
2	7·0	7·0	9·4	77	− 3·2	+11·8	75	12·2	0	+ 2·2	12·5	74·7	75·15	c.f. : c. : c.f.
3	8·0	7·0	8·5	69	− 2·0	+15·1	82	15·2	+ 7	+ 5·3	15·6	74·8	75·10	c.f. : c. : c.p.
4	8·0	7·0	9·2	75	− 1·5	+13·5	84	13·6	+ 9	+ 3·7	13·7	74·8	75·10	c.p. : c.f. : c.p.
5	5·0	7·0	9·5	77	− 0·6	+11·5	87	11·5	+ 11	+ 1·7	11·8	74·8	75·10	c.p. : c.f. : c.p.
6	4·0	6·3	8·1	66	+ 0·8	+ 9·9	95	9·9	+ 19	+ 0·1	10·0	75·0	75·10	c.p. : c.f. :c.p.
7	5·0	4·0	9·6	78	0·0	+ 8·7	90	8·7	+ 14	− 1·0	8·8	75·0	75·10	c.f. : b.
8	6·0	4·0	11·2	91	− 0·3	+10·8	88	10·8	+ 12	+ 1·1	11·0	75·0	75·10	b. : c.f.
9	3·0	4·2	11·3	91	+ 5·2	+ 6·7	128	8·5	+ 52	− 1·1	9·2	75·1	75·15	c.f.
10	2·0	7·3	7·7	62	+ 5·8	− 4·3	217	7·2	+140	− 2·4	8·6	75·1	75·15	c.f. : c. : c.f.
11	5·0	6·0	9·8	79	− 0·3	− 1·6	281	1·7	+204	− 7·9	8·0	75·1	75·15	o.p. : c.f.
12	6·0	7·7	11·3	91	− 1·3	− 5·2	284	5·3	+207	− 4·2	8·8	75·2	75·15	b. : c.f. : c. : c.f.
13	6·0	6·5	3·6	29	− 2·4	− 0·7	344	2·5	+267	− 7·0	6·2	75·3	75·15	b. : c.f. : c. :c.f.l.:b.
14	7·0	5·8	9·9	79	− 3·5	− 0·7	349	3·6	+272	− 5·8	8·0	75·4	75·15	b. : c.f.
15	5·0	5·0	10·3	82	− 4·3	− 0·9	348	4·4	+270	− 5·0	7·3	75·4	75·20	b. : c.f.
16	6·0	9·0	0·7	6	− 5·0	+ 6·2	51	8·0	− 27	− 1·4	8·2	75·5	75·15	c.f. : o. : c.f.
17	5·0	7·4	3·5	28	− 4·7	+ 5·8	51	7·4	− 27	− 1·9	7·8	75·4	75·10	c.f. :c.p.: c.f.
18	6·0	7·8	8·0	64	− 4·4	+ 9·9	66	10·9	− 12	+ 1·6	11·1	75·6	75·10	b. :c.f.: c. : c. : o. :c.f.
19	5·0	8·2	5·2	42	− 3·4	+ 7·5	66	8·2	− 12	− 1·1	8·3	75·6	75·10	c.f. : c.
20	6·0	8·3	3·8	30	− 4·2	+ 7·7	61	8·8	− 18	− 0·5	8·9	75·7	75·20	c.f. : o. : c.f.
21	9·0	9·2	4·9	39	+ 0·4	+11·0	92	11·0	+ 13	+ 1·8	11·3	75·7	75·15	c. : c.p. : c.
22	6·0	7·5	9·6	76	+ 2·6	+11·1	103	11·4	+ 24	+ 2·2	11·6	75·7	75·20	c. : c.f.
23	5·0	7·9	10·7	85	+ 0·8	+11·0	94	11·0	+ 15	+ 1·8	11·2	75·8	75·20	c.f. : c. : c.f.
24	8·0	8·3	8·9	71	− 2·8	+13·2	78	13·5	− 1	+ 4·3	13·7	75·8	75·20	c.p. : c.f.
25	6·0	5·0	10·7	84	− 1·9	+14·1	82	14·2	+ 2	+ 5·1	14·5	75·8	75·20	c.p. : c.f.
26	5·0	5·2	11·2	88	+ 0·4	+11·6	92	11·6	+ 12	+ 2·5	12·0	75·8	75·20	c.f.
27	5·0	7·0	2·8	22	+ 2·6	+ 7·6	109	8·0	+ 29	− 1·1	8·4	75·9	75·20	c.f. : o. : c. :c.f.
28	5·0	3·5	11·7	92	+ 2·0	+10·1	101	10·3	+ 21	+ 1·2	10·3	75·9	75·20	b. : c.f. : b.
29	5·0	5·3	11·5	91	+ 0·5	+11·4	92	11·4	+ 12	+ 2·3	11·4	75·9	75·20	c. : c.f. : b.
30	4·0	5·0	11·4	90	+ 2·6	+ 8·1	108	8·5	+ 28	− 0·5	8·8	76·0	75·20	b. : c.f. : b.
31	3·0	5·5	9·6	75	+ 2·2	+ 0·7	162	2·3	+ 81	− 6·7	7·8	76·0	75·25	b. : c.f. : c.
Mean	5·6	6·5	8·42	67·4	− 0·72	+ 7·49	84·5	7·52	+ 6·8	− 1·89	10·19	75·40	75·16	...
Average	4·1	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 large negative wave of pressure from the 4th. to the 15th. was accompanied by generally decreasing temperature, vapour-tension and wind velocity, with superposed positive waves, those in temperature and vapour-tension culminating at the epoch of minimum pressure and that in wind velocity culminating near the epoch of most rapidly decreasing pressure.

Large negative waves of temperature and vapour-tension from the 12th. to the 21st. were accompanied by generally increasing pressure and wind velocity.

The principal rainfall occurred from the 3rd. to the 12th. and from the 21st. to the 25th.

Month and Day. 1907.	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	29·870	−·038	85·7	68·6	17·1	76·1	+2·3	69·0	64·0	+ 1·1	66	− 3	·596	148·3	60·9	0·000	...	·190
2	29·912	+·006	81·9	71·0	10·9	75·4	+1·5	69·6	65·3	+ 2·3	71	+ 2	·624	136·5	66·1	0·160	30	·220
3	29·961	+·057	83·8	69·8	14·0	76·0	+2·1	69·7	65·2	+ 2·1	70	+ 1	·622	142·1	63·9	0·000	...	·280
4	29·948	+·046	84·0	70·2	13·8	75·7	+1·7	68·9	64·0	+ 0·8	67	− 1	·596	143·7	65·0	0·000	...	·270
5	29·854	−·046	84·8	67·0	17·8	74·9	+0·8	68·6	64·1	+ 0·8	69	+ 1	·598	145·8	61·9	0·365	85	·280
6	29·847	−·050	83·4	66·2	17·2	73·1	−1·1	69·4	66·6	+ 3·2	80	+12	·652	150·2	60·9	0·070	50	·150
7	29·884	−·011	83·7	66·9	16·8	75·1	+0·8	69·4	65·2	+ 1·7	71	+ 3	·622	143·8	60·6	0·010	5	·300
8	29·895	+·002	83·9	69·0	14·9	75·9	+1·5	69·3	64·5	+ 0·9	68	0	·607	143·9	62·8	0·000	...	·300
9	29·883	−·008	83·7	69·0	14·7	76·2	+1·7	68·8	63·5	− 0·2	65	− 3	·586	143·2	64·8	0·010	10	·270
10	29·865	−·024	86·0	69·0	17·0	77·8	+3·2	71·3	66·6	+ 2·8	69	+ 1	·652	144·6	62·5	0·000	...	·250
11	29·821	−·066	88·1	74·5	13·6	78·9	+4·2	74·8	71·8	+ 8·0	79	+11	·779	146·6	72·2	0·040	35	·250
12	29·809	−·076	89·0	74·0	15·0	79·5	+4·7	73·6	69·6	+ 5·7	72	+ 4	·713	148·4	65·7	0·010	25	·250
13	29·826	−·057	88·8	70·3	18·5	78·9	+4·0	72·0	67·2	+ 3·2	68	0	·666	143·7	64·8	0·000	...	·310
14	29·838	−·043	89·9	68·1	21·8	76·9	+1·9	71·6	67·9	+ 3·8	74	+ 6	·682	145·5	62·9	0·050	25	·250
15	29·845	−·034	86·9	68·8	18·1	77·2	+2·1	71·3	67·1	+ 2·9	71	+ 3	·664	150·2	63·8	0·010	15	·290
16	29·864	−·012	84·9	70·0	14·9	76·1	+0·9	72·2	69·5	+ 5·2	80	+12	·721	147·9	63·0	0·040	20	·160
17	29·873	−·001	85·1	69·2	15·9	76·5	+1·2	71·6	68·2	+ 3·8	76	+ 8	·689	144·5	63·5	0·330	50	·210
18	29·913	+·041	86·9	70·0	16·9	77·3	+1·9	70·1	65·0	+ 0·5	66	− 2	·617	140·0	62·5	0·010	10	·300
19	29·924	+·054	87·0	67·0	20·0	77·1	+1·6	70·6	66·0	+ 1·4	69	+ 1	·639	141·7	60·9	0·000	...	·260
20	29·876	+·008	86·5	70·6	15·9	77·0	+1·4	69·8	64·7	0·0	66	− 2	·611	149·5	62·2	0·000	...	·230
21	29·841	−·024	85·1	67·6	17·5	75·8	+0·1	69·3	64·6	− 0·2	68	0	·609	141·8	61·8	0·000	...	·180
22	29·828	−·035	85·6	68·7	16·9	76·4	+0·6	70·1	65·5	+ 0·6	69	0	·628	146·5	62·2	0·000	...	·260
23	29·838	−·023	85·8	68·9	16·9	77·2	+1·3	70·9	66·4	+ 1·4	69	0	·648	143·8	64·8	0·010	5	·290
24	29·823	−·036	85·9	68·0	17·9	76·6	+0·6	68·7	63·1	− 2·0	63	− 6	·578	144·9	61·4	0·000	...	·310
25	29·807	−·050	84·7	63·7	21·0	75·5	−0·6	68·7	63·7	− 1·5	67	− 2	·590	137·9	59·1	0·000	...	·200
26	29·822	−·032	81·8	68·4	13·4	74·2	−2·0	70·1	67·0	+ 1·6	78	+ 9	·661	126·1	61·3	0·105	75	·095
27	29·802	−·050	85·9	66·5	19·4	76·5	+0·2	69·6	64·6	− 0·9	67	− 2	·609	140·7	60·5	0·000	...	·280
28	29·812	−·038	87·4	64·5	22·9	76·7	+0·3	69·2	63·8	− 1·8	64	− 5	·592	140·2	59·2	0·000	...	·290
29	29·793	−·055	87·7	69·8	17·9	77·6	+1·0	71·2	66·6	+ 0·9	69	0	·652	145·4	64·0	0·115	20	·295
30	29·801	−·045	88·9	68·7	20·2	78·3	+1·6	72·2	67·9	+ 2·1	71	+ 2	·682	147·9	63·3	0·000	...	·240
Mean -	29·856	−·021	85·8	68·8	17·0	76·5	+1·4	70·4	66·0	+ 1·7	70·1	+1·7	·640	143·8	62·9	Sum 1·335	Sum 460	·249
Average	29·877	...	84·1	67·1	17·0	75·2	...	68·8	64·3	...	68·4	...	·603	146·3	61·8	1·803	853	·265
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day 1907.	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	3·5	7·0	6·0	47	− 5·5	+ 5·2	43	7·5	− 38	− 1·5	9·1	76·0	75·25	b. : c.f. : f.
2	5·0	8·5	3·2	25	− 0·6	+ 9·4	86	9·4	+ 5	+ 0·4	9·7	76·2	75·25	c. : c.r. : c.
3	8·0	7·2	7·5	59	− 1·0	+ 13·7	86	13·7	+ 5	+ 4·7	13·6	76·1	75·20	c.f. : c. : o.
4	6·0	6·3	11·2	88	− 1·4	+ 12·5	84	12·6	+ 3	+ 3·6	13·0	76·2	75·25	c.f.
5	4·0	4·0	9·7	75	− 0·6	+ 6·5	85	6·6	+ 4	− 2·3	8·2	76·3	75·25	c.f. : c.p.
6	3·5	7·4	6·5	50	− 3·9	+ 0·4	6	3·9	− 76	− 5·0	6·0	76·4	75·25	b. : c.f. : c.p. : c.f.
7	3·5	5·2	11·6	90	− 0·1	+ 6·7	89	6·7	+ 7	− 2·2	8·7	76·5	75·30	b. : c.p. : c.f. : b.
8	3·0	5·3	11·3	88	+ 1·3	+ 10·0	97	10·1	+ 15	+ 1·2	10·2	76·5	75·30	b. : c.p. : c.f.
9	4·0	6·5	11·5	89	+ 1·4	+ 9·7	98	9·8	+ 16	+ 0·9	9·9	76·6	75·25	c.f. : c. : c.f.
10	3·5	4·5	8·8	68	− 1·9	+ 10·0	79	10·2	− 3	+ 1·3	10·4	76·6	75·25	b. : c.f.
11	1·0	7·7	9·9	77	+ 1·4	+ 8·4	99	8·5	+ 17	− 0·4	8·8	76·7	75·30	c.p. : c.f.
12	0·0	8·0	8·1	62	+ 6·5	+ 6·5	135	9·2	+ 52	+ 0·4	9·5	76·8	75·30	c.d. : c.f.
13	0·0	6·3	11·4	88	+ 7·1	+ 2·4	161	7·5	+ 78	− 1·3	7·8	76·9	75·30	c.f.
14	0·0	5·4	8·4	65	+ 2·9	+ 1·0	161	3·0	+ 78	− 5·8	6·4	77·0	75·30	c.f. : c.p. : b.
15	2·0	5·2	8·8	68	− 2·6	+ 7·9	72	8·3	− 11	− 0·5	8·7	77·1	75·35	b. : c.f.
16	0·0	6·8	4·1	32	− 2·1	+ 2·8	53	3·5	− 30	− 5·3	5·5	77·2	75·35	c.f. : c.p. : c.f.
17	2·0	6·5	4·6	35	+ 0·5	+ 6·3	95	6·3	+ 11	− 2·5	7·2	77·2	75·25	c.p. : c.f.
18	4·0	2·9	10·0	77	− 1·0	+ 9·0	84	9·0	0	+ 0·2	9·5	77·3	75·30	c.p. : b. : c.f.
19	3·0	3·7	9·6	73	− 1·2	+ 7·6	81	7·7	− 3	− 1·1	8·1	77·3	75·35	b. : c.f.
20	3·0	5·3	6·5	50	− 5·4	+ 9·3	60	10·8	− 24	+ 2·1	10·8	77·4	75·35	b. : c.f. : b.
21	3·0	5·1	5·9	45	− 2·6	+ 6·1	67	6·6	− 17	− 2·1	7·9	77·4	75·35	b. : c.f. : b.
22	4·0	6·0	10·4	80	− 3·2	+ 8·3	69	8·9	− 15	+ 0·2	9·2	77·5	75·40	c.f.
23	3·0	7·0	10·4	80	+ 0·7	+ 8·7	95	8·8	+ 10	+ 0·1	9·4	77·5	75·40	c.p. : c.f.
24	3·5	2·7	10·2	78	+ 1·0	+ 9·1	96	9·1	+ 11	+ 0·4	9·5	77·5	75·30	c.f.
25	0·5	6·9	6·8	52	+ 3·5	− 0·5	188	3·6	+ 103	− 5·1	6·1	77·6	75·35	b. : c. : c.p.
26	0·5	8·6	0·6	5	+ 2·8	+ 0·9	162	2·9	+ 77	− 5·8	5·4	77·6	75·40	c.f. : c. : c.f. : b.
27	2·0	6·3	9·2	70	+ 0·4	+ 7·4	93	7·4	+ 7	− 1·3	7·6	77·7	75·40	c.f.
28	0·0	4·0	11·7	89	+ 2·0	+ 6·7	107	7·0	+ 21	− 1·7	7·0	77·8	75·45	b. : c.f. : b.
29	1·0	5·7	11·4	86	+ 2·5	+ 6·7	111	7·1	+ 25	− 1·6	7·4	77·9	75·50	c.f. : b.
30	0·0	7·6	7·5	57	+ 2·3	− 1·5	213	2·8	+ 127	− 5·9	5·8	77·9	75·50	b. : c. : c.f.
Mean	2·6	6·0	8·43	64·9	+ 0·11	+ 6·57	90·9	6·58	+ 7·6	− 2·23	8·55	77·02	75·33	...
Average	3·3	5·5	8·59	66·1	− 1·02	+ 8·75	83·2	8·81	...	...	10·70	77·02	76·34	...
Column	19	20	21	22	23	24	25	26	27	28	29	30	31	32

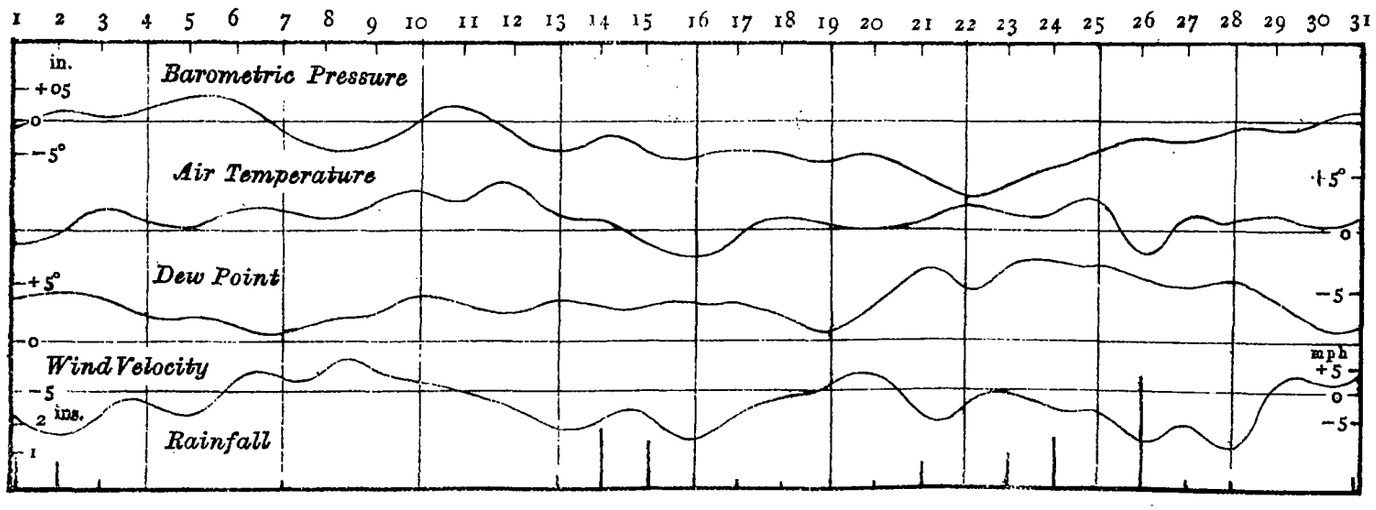
A double wave of pressure (from positive to negative) from the 2nd. to the 8th. was accompanied by corresponding waves in temperature and wind velocity : a positive wave of vapour-tension accompanied the negative wave of pressure.

A negative wave of pressure from the 8th. to the 17th. was accompanied by large positive waves of temperature and vapour-tension, with two successive negative waves of wind velocity during the increase of pressure.

A negative wave of pressure from the 25th. to December 1 was accompanied by fluctuating temperature and vapour-tension : a negative wave of wind velocity occurred from the 24th. to the 27th.

The rainfall was evenly distributed throughout the month except for a dry period between the 18th. and the 23rd.

Month and Day. 1907.	Barometric Pressure.		Temperature of the Air.					Temperature of Evaporation.	Temperature of the Dew-Point.		Degree of Humidity (Saturation = 100).		Elastic Force of Vapour.	Temperature of Radiation.		Rainfall.		Amount of Evaporation.
	Mean.	Excess above Average.	Highest.	Lowest.	Range.	Mean.	Excess above Average.		Mean.	Excess above Average.	Mean.	Excess above Average.		Highest in the Sun's Rays.	Lowest on the Grass.	Amount recorded by the Beckley Pluviograph.	Duration.	
	ins.	in.	°	°	°	°	°	°	°	°			in.	°	°	ins.	mins.	in.
Dec. 1	29·837	−·006	85·8	69·9	15·9	76·0	−0·8	72·3	69·7	+3·8	81	+11	·726	143·7	64·3	0·650	215	·170
2	29·849	+·008	86·4	69·5	16·9	76·4	−0·6	72·7	70·1	+4·1	81	+11	·736	146·8	66·6	0·590	75	·120
3	29·847	+·008	86·8	72·2	14·6	78·6	+1·5	73·5	69·9	+3·7	75	+ 5	·731	140·2	68·6	0·300	45	·270
4	29·856	+·019	86·0	72·3	13·7	77·7	+0·5	72·1	68·1	+1·8	72	+ 2	·687	145·8	67·0	0·000	...	·170
5	29·864	+·029	88·0	69·2	18·8	77·5	+0·2	72·1	68·3	+1·9	73	+ 3	·692	151·6	65·1	0·015	10	·215
6	29·854	+·021	85·8	72·6	13·2	78·7	+1·3	71·9	67·1	+0·6	68	− 2	·664	139·5	70·3	0·020	10	·320
7	29·815	−·016	86·0	72·1	13·9	78·7	+1·2	71·8	67·0	+0·4	67	− 3	·661	144·8	69·1	0·100	15	·300
8	29·792	−·037	84·9	73·0	11·9	78·7	+1·1	72·7	68·5	+1·8	71	+ 1	·697	139·6	69·7	0·020	10	·300
9	29·794	−·033	87·5	74·7	12·8	80·0	+2·4	73·6	69·3	+2·5	70	− 1	·716	145·8	69·8	0·000	...	·280
10	29·825	·000	89·0	74·8	14·2	80·9	+3·2	75·0	71·1	+4·1	72	+ 1	·761	147·2	69·9	0·000	...	·265
11	29·842	+·020	89·3	71·6	17·7	80·2	+2·4	74·3	70·2	+3·1	72	+ 1	·738	143·1	67·4	0·000	...	·240
12	29·800	−·020	90·3	72·7	17·6	81·3	+3·5	74·3	69·6	+2·4	68	− 3	·723	150·6	68·3	0·000	...	·260
13	29·778	−·040	89·9	70·8	19·1	78·9	+1·0	73·9	70·4	+3·1	75	+ 4	·744	147·2	65·8	0·330	110	·250
14	29·781	−·035	89·3	71·8	17·5	78·5	+0·5	73·4	69·9	+2·5	75	+ 4	·731	149·1	69·0	1·740	55	·200
15	29·751	−·063	84·5	72·3	12·2	76·4	−1·6	73·1	70·7	+3·2	82	+11	·751	145·6	67·7	1·020	145	·200
16	29·751	−·060	85·6	70·6	15·0	76·0	−2·1	73·1	71·1	+3·5	85	+14	·761	142·2	68·1	0·430	245	·050
17	29·754	−·055	84·5	72·7	11·8	77·2	−0·9	73·7	71·3	+3·5	82	+11	·766	149·0	69·2	0·070	115	·140
18	29·749	−·058	86·2	71·9	14·3	78·7	+0·5	73·4	69·6	+1·7	74	+ 3	·723	143·5	68·3	0·030	85	·260
19	29·733	−·072	85·9	72·5	13·4	78·3	+0·1	72·9	69·1	+1·1	74	+ 3	·711	144·5	68·1	0·010	15	·170
20	29·727	−·076	84·4	73·9	10·5	78·6	+0·3	74·7	71·9	+3·8	80	+ 9	·782	145·4	71·1	0·090	60	·170
21	29·694	−·106	84·0	75·8	8·2	79·3	+1·0	76·5	74·6	+6·4	85	+14	·857	138·7	71·6	0·455	300	·255
22	29·660	−·138	87·8	73·1	14·7	80·8	+2·4	76·2	73·1	+4·8	78	+ 7	·815	145·4	70·9	0·000	...	·220
23	29·677	−·119	86·7	74·9	11·8	79·6	+1·2	77·2	75·5	+7·1	87	+16	·883	142·8	70·9	0·940	285	·200
24	29·702	−·092	85·8	74·8	11·0	79·6	+1·2	77·3	75·8	+7·3	88	+17	·891	141·0	72·0	1·340	175	·290
25	29·727	−·065	87·8	74·1	13·7	80·7	+2·2	77·8	75·7	+7·1	85	+14	·888	147·2	71·1	0·000	...	·170
26	29·762	−·028	79·5	73·8	5·7	76·5	−2·0	75·3	74·4	+5·7	93	+21	·851	103·0	68·5	3·380	495	·100
27	29·762	−·026	86·9	72·6	14·3	79·1	+0·6	75·9	73·7	+4·9	84	+12	·832	147·1	68·1	0·155	67	·195
28	29·775	−·011	86·8	75·2	11·6	79·3	+0·7	76·3	74·1	+5·2	84	+12	·843	147·8	71·6	0·150	50	·140
29	29·776	−·008	85·4	73·6	11·8	79·5	+0·9	75·5	72·7	+3·7	80	+ 8	·804	146·6	69·1	0·000	...	·220
30	29·784	+·002	85·0	73·6	11·4	78·8	+0·2	73·6	70·0	+0·9	74	+ 2	·733	145·7	70·1	0·010	10	·150
31	29·797	+·017	84·8	73·7	11·1	79·2	+0·6	74·3	70·9	+1·7	76	+ 4	·756	142·8	70·3	0·270	145	·370
Mean	29·778	−·033	86·3	72·8	13·5	78·7	+0·7	74·2	71·1	+3·5	77·8	+6·9	·763	143·7	69·0	Sum 12·115	Sum 2737	·215
Average	29·811	...	85·7	71·1	14·6	78·0	...	72·1	67·6	...	70·9	...	·676	146·8	66·5	5·216	1562	·252
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Month and Day. 1907.	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	8·5	4·4	34	+ 2·0	− 3·8	242	4·3	+156	− 4·3	5·1	77·9	75·50	b. : c.f. : o.r. : c.f.
2	0·5	6·7	5·3	40	− 1·8	− 0·8	336	1·9	+249	− 6·7	6·3	78·0	75·50	b. : c.f. : c.r.t. : c.f.
3	0·5	5·8	9·9	75	+ 0·8	+ 7·2	96	7·2	+ 9	− 1·4	8·0	78·1	75·55	b. : c.p. : c. : c.f.l.t.
4	0·5	7·9	4·3	33	− 0·3	+ 6·1	87	6·1	0	− 2·5	6·3	78·1	75·55	c.f.
5	0·5	6·5	7·7	58	+ 0·1	+ 5·7	91	5·7	+ 4	− 2·9	6·7	78·2	75·55	b. : c.f.
6	5·0	6·4	9·6	73	− 1·9	+10·5	80	10·6	− 8	+ 2·0	11·1	78·2	75·55	o.p. : c.f. : c.f.l.
7	3·5	6·0	11·3	86	+ 0·1	+ 9·6	91	9·6	+ 3	+ 1·0	10·1	78·3	75·60	c.f.l. : c.t. : c.p.
8	4·0	6·0	10·7	81	+ 0·7	+12·7	93	12·7	+ 5	+ 4·1	12·7	78·4	75·60	c.f. : c.p.l.
9	3·0	6·4	11·2	84	− 1·8	+10·9	81	11·1	− 7	+ 2·5	11·0	78·4	75·65	c.f.l. : c.f. :
10	2·0	5·3	10·3	77	+ 1·2	+ 8·8	98	8·9	+ 9	+ 0·3	9·0	78·4	75·70	c.f.
11	1·0	6·0	8·9	67	+ 1·5	+ 7·9	101	8·1	+ 12	− 0·4	8·0	78·4	75·70	b. : c.f.
12	0·0	6·7	11·3	85	+ 3·7	+ 2·8	143	4·7	+ 54	− 3·8	6·6	78·4	75·70	c.f.l.
13	0·5	6·8	7·5	56	+ 1·8	− 1·0	209	2·1	+119	− 6·4	5·8	78·5	75·75	b. : c.f. : c.p.t. : c.p.
14	2·0	6·4	8·4	63	− 1·2	+ 4·9	76	5·1	− 14	− 3·4	6·7	78·5	75·75	c.f. : c.p.
15	2·5	5·7	4·5	34	− 2·2	+ 1·8	39	2·8	− 51	− 5·7	5·6	78·6	75·65	c. : c.f. : c.p. : o.r.
16	0·5	6·6	5·1	38	+ 0·1	+ 2·4	92	2·4	+ 1	− 6·1	5·2	78·7	75·75	c.f. : o.p.t. : c.f.
17	2·0	9·1	2·1	16	+ 1·4	+ 6·1	103	6·2	+ 12	− 2·3	6·5	78·8	75·75	c.d. : c.
18	0·5	4·8	9·4	71	+ 1·9	+ 7·4	104	7·6	+ 13	− 0·9	7·7	78·9	75·75	c.d. : c.f. :c.d.
19	2·5	9·1	4·2	32	− 0·2	+ 9·3	89	9·3	− 2	+ 0·8	9·3	79·0	75·80	c. :c.p.: c.
20	3·0	9·0	3·9	29	+ 2·2	+11·3	101	11·5	+ 9	+ 3·0	11·9	79·1	75·80	c. :c.p.: c. :o.d.
21	0·5	9·4	0·6	5	+ 2·6	+ 4·2	122	4·9	+ 30	− 3·6	5·3	79·1	75·80	o.r. : c. : c.f.
22	0·5	5·0	9·4	71	+ 6·9	+ 0·5	176	6·9	+ 84	− 1·6	7·3	79·1	75·80	c.f. : o.l.t.
23	0·5	10·0	1·2	9	+ 7·5	− 0·7	185	7·5	+ 92	− 1·0	7·7	79·2	75·80	o.r.l.t.: o.p. : o. : c.f.l.
24	0·0	8·9	2·6	20	+ 6·1	+ 1·0	171	6·2	+ 78	− 2·3	6·8	79·3	75·90	c.p.l.t.: c.p.t. : c.t. : o.r.l.t.
25	0·5	6·5	6·2	47	+ 4·9	− 0·8	189	4·9	+ 96	− 3·6	5·2	79·5	76·10	o.p.l.t.: c.f. : c.l.t.
26	0·0	9·8	0·1	1	+ 2·1	− 0·9	203	2·3	+110	− 6·2	3·6	79·9	76·50	c.l.: o.r.l.t. : c.f.: b.
27	0·0	6·0	6·7	50	− 0·4	− 3·8	276	3·8	+184	− 4·7	4·5	79·9	76·50	b. :c.p.l.t. c.t. : c.p.l.t.
28	0·5	6·3	3·5	26	+ 0·1	+ 0·7	98	0·7	+ 6	− 7·8	4·6	79·9	76·60	c.f.l. : c.f. :c.p.:c.f.: p.
29	0·5	5·0	10·2	77	+ 1·1	+10·1	96	10·1	+ 4	+ 1·6	10·3	79·9	76·50	c.f. : c.p. : c.f. : c.f.l.
30	2·0	4·0	10·8	81	+ 1·8	+ 8·4	102	8·6	+ 11	+ 0·1	8·6	80·1	76·00	c.f.l. : c.f. : b.
31	4·0	3·0	11·7	88	− 3·0	+12·0	76	12·4	− 15	+ 3·9	12·7	80·0	76·10	c.r.l.t.: c.f.
Mean	1·4	6·8	6·87	51·7	+ 1·22	+ 4·85	114·1	5·00	+23·6	− 3·53	7·62	78·86	75·83	...
Average	3·0	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

A double wave of pressure (from positive to negative) from the 3rd. to the 10th., was accompanied by an increase of temperature, a negative wave of vapour-tension superposed on a prolonged positive wave, and a positive wave of wind velocity.

A prolonged negative wave of pressure from the 12th. to the 30th. was accompanied by a double wave of temperature (from negative to positive), an unusually large positive wave of vapour-tension, and two successive negative waves of wind velocity.

Rain fell on 23 days to the extent of 12·11 inches ; the greatest fall on record for December except 1888 when 12·64 inches fell.

MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS for the YEAR 1907.

Month 1907.	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.	Temperature of Radiation. Mean of Highest in the Sun's Rays.	Mean of Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Duration.
	ins.	°	°	°	°	°	°	°	°	°		in.	°	°	ins.	mins.
January	29·822	88·6	66·0	22·6	84·7	69·9	14·8	76·6	70·9	66·9	72·2	·660	146·5	64·6	1·72	815
February	29·782	88·1	67·1	21·0	85·6	72·2	13·4	77·9	73·1	69·7	76·1	·727	143·6	67·5	2·77	1235
March	29·773	86·5	67·3	19·2	83·7	71·5	12·2	77·1	73·2	70·4	80·0	·744	139·7	67·4	7·31	1530
April	29·794	84·2	62·2	22·0	81·6	69·9	11·7	75·3	71·4	68·5	79·6	·698	135·2	65·6	8·57	2750
May	29·863	81·7	54·5	27·2	77·9	65·7	12·2	71·5	67·2	63·9	77·2	·598	128·9	59·2	4·75	2120
June	29·901	77·3	56·1	21·2	75·2	62·6	12·6	68·5	64·8	61·9	79·9	·557	127·6	57·0	4·21	2043
July	29·979	76·9	55·0	21·9	73·8	60·7	13·1	67·0	61·9	57·9	72·9	·482	127·8	52·8	0·36	315
August	30·012	77·3	49·9	27·4	75·1	58·7	16·4	66·4	60·4	55·5	67·8	·442	131·1	51·1	0·12	80
September ...	29·975	81·8	55·5	26·3	78·2	60·9	17·3	68·9	62·6	57·6	67·5	·477	137·5	52·4	0·48	250
October	29·917	87·8	57·2	30·6	81·1	65·1	16·1	72·7	66·2	61·4	68·0	·547	139·4	58·3	0·67	455
November ...	29·856	89·9	63·7	26·2	85·8	68·8	17·0	76·5	70·4	66·0	70·1	·640	143·8	62·9	1·33	460
December ...	29·778	90·3	69·2	21·1	86·3	72·8	13·6	78·7	74·2	71·1	77·8	·763	143·7	69·0	12·11	2737
																hours.
Year	29·871	...	...	40·4	80·8	66·6	14·2	73·1	68·0	64·2	74·1	·611	137·1	60·7	44·40	246·5
	ins.	°	°	°	°		°		°	°	°	in.	°	°	°	
Maximum ...	30·153 Aug. 2	90·3 Dec. 12	...	30·6 Oct.	86·3 Dec.	...	25·9 Aug. 8	...	81·8 Dec. 25	78·3 Dec. 24	98·4 Aug. 11	·968 Dec. 25	155·3 Mar. 18	74·1 Mar. 6	3·38 during the 24 hours ending April 17d. 16h. and Dec. 26d. 15h.	
	ins.	°	°	°		°	°		°	°	°	in.	°	°		
Minimum ...	29·217 Feb. 4	...	49·9 Aug. 8	19·2 Mar.	...	58·7 Aug.	3·1 May 31	...	47·9 Aug. 8	45·8 Aug. 8	40·5 Sep. 20	·308 Aug. 8	81·7 Apr. 17	40·0 Aug. 8	...	
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Month 1907.	Rainfall. Amount collected in the Glaisher Rain Gauge.	Excess of Beckley over Glaisher.	Mean Daily Amount of Evaporation.	Mean Daily Amount of Ozone (0—10).	Mean Amount of Cloud (0—10).	Daily Duration of Sunshine.	Percentage of Possible Sunshine.	Wind. Resultant. Direction.	Velocity.	Recorded Velocity.	Number of Days of Clear Sky (less than 3 of Cloud).	Overcast Sky (more than 7 of Cloud).	Rain.	Thunderstorms.	Lightning only.	Temperature of the soil. At a Depth of 5 Feet.	At a Depth of 10 Feet.
	ins.	in.	in.			hrs.		°	m.p.h.	m.p.h.						°	°
January	1·70	+·02	·239	2·5	6·2	9·00	68·5	90·8	6·35	7·82	0	8	20	0	0	78·68	75·87
February	2·75	+·02	·224	1·7	6·4	8·98	70·5	85·1	5·53	8·54	0	9	15	4	1	79·46	76·32
March	7·31	·00	·182	2·5	6·6	7·75	63·6	100·9	4·80	6·76	2	15	20	6	2	80·01	76·72
April	8·51	+·06	·165	2·4	6·9	8·02	69·0	82·1	6·93	9·10	0	13	17	3	5	79·44	76·72
May	4·71	+·04	·145	3·0	5·9	7·35	65·8	61·9	6·89	8·82	1	9	13	0	0	78·35	76·20
June	4·17	+·04	·131	3·1	6·4	7·01	64·2	61·0	7·44	9·24	1	13	16	1	0	76·60	76·26
July	0·33	+·03	·132	3·0	5·9	7·94	72·3	48·6	10·18	10·86	3	9	9	0	0	75·06	75·77
August	0·12	·00	·166	3·6	6·0	8·21	72·2	53·1	8·68	9·89	4	12	3	0	0	74·23	75·44
September ...	0·47	+·01	·190	5·8	5·8	8·22	69·0	55·6	7·99	9·53	2	6	9	0	0	74·47	75·14
October	0·67	·00	·226	5·6	6·5	8·42	67·4	84·5	7·52	10·19	0	12	12	0	1	75·40	75·16
November ...	1·33	·00	·249	2·6	6·0	8·43	64·9	90·9	6·58	8·55	2	7	15	0	0	77·02	75·33
December ...	12·11	·00	·215	1·4	6·8	6·87	51·7	114·1	5·00	7·62	0	9	23	12	7	78·86	75·83
Year	44·18	+·22	·189	3·1	6·3	8·02	66·4	72·9	6·63	8·91	15	122	172	26	16	77·30	75·90
			in.	°		hrs.										°	°
Maximum ...	...	...	·370 Dec. 31	9·0 Sep. 18 Oct. 21	...	12·0 Jan. 20	97 June 5	36·6 m.p.h. for 1 hour on February 4			4 Aug.	15 Mar.	23 Dec.	12 Dec.	7 Dec.	80·2 Mar. 24	76·95 April 2
			in.													°	°
Minimum ...	...	...	·050 Dec. 16	0	...	...	...	...	0	0	0	6 Sep.	3 Aug.	0	0	74·0 Aug. 28	75·05 Sept. 17
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.	Temperature of Radiation. Mean of Highest in the Sun's Rays.	Mean of Lowest on the Grass.	Rainfall. Amount recorded by the Beckley Pluviograph.	Duration.
	ins.	°	°	°	°	°	°	°	°	°		in.			ins.	mins.
January	29·750	93·1	64·7	22·0	86·1	72·9	13·2	78·9	73·8	70·2	75·1	·737	146·8	68·8	7·81	2139
February ...	29·730	91·0	63·8	20·0	85·7	73·1	12·6	78·5	74·1	70·9	77·7	·757	147·1	68·8	7·31	1955
March	29·766	88·8	63·3	19·6	84·1	72·2	11·9	77·3	73·3	70·6	80·2	·747	144·7	68·2	9·81	2836
April	29·822	86·9	61·2	20·9	82·1	70·0	12·1	75·3	71·4	68·8	80·9	·704	140·8	65·2	4·68	1681
May	29·890	84·5	55·4	23·2	78·9	66·3	12·6	72·1	68·1	65·3	79·3	·625	135·1	60·5	3·21	1432
June	29·965	82·9	50·6	23·1	76·1	62·6	13·5	68·7	64·4	61·1	76·4	·538	131·3	56·3	2·18	1312
July...	30·004	80·3	51·3	22·2	75·0	61·6	13·4	67·5	63·1	59·4	75·7	·507	130·6	55·6	2·32	1528
August	30·010	80·3	50·9	22·9	75·6	61·6	14·0	68·0	63·2	59·4	74·5	·508	134·1	55·6	2·54	1603
September ...	29·993	82·9	50·9	24·2	77·5	62·3	15·2	69·6	64·3	60·2	71·9	·522	138·6	56·5	1·32	923
October	29·942	87·8	54·6	26·0	80·9	64·7	16·2	72·1	66·2	61·8	70·1	·552	143·0	59·2	1·28	839
November ...	29·877	90·0	57·9	26·8	84·1	67·1	17·0	75·2	68·8	64·3	68·4	·603	146·3	61·8	1·80	853
December ...	29·811	94·7	62·1	24·0	85·7	71·1	14·6	78·0	72·1	67·6	70·9	·676	146·8	66·5	5·22	1562
																hours.
Year	29·880	...	...	37·5	81·0	67·1	13·9	73·4	68·6	65·0	75·1	·623	140·4	61·9	49·48	311·0
Maximum... ...	ins. 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	82·8 Mar. 6 1905	81·5 Mar. 6 1905	98·5 Jan. 12 1901	in. 1·077 Mar. 6 1905	165·5 Feb. 15 1898	...	ins. 19·318 during 24 hours ending Feb. 20d. 13h. 1896.	
Minimum... ...	ins. 27·780 April 29 1892	...	49·9 Aug. 8 1907	34·0 1892	...	59·1 June 1894	2·0 June 14 1891	72·4 1893	47·9 Aug. 8 1907	45·8 Aug. 8 1907	34·0 Nov. 26 1896	in. ·308 Aug. 8 1907	...	40·0 Aug. 8 1907	...	
Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Month.	Rainfall. Amount collected in the Glaisher Rain Gauge.	Excess of Beckley over Glaisher.	Mean Daily Amount of Evaporation.	Mean Daily Amount of Ozone (0—10).	Mean Amount of Cloud (0—10).	Daily Duration of Sunshine.	Percentage of Possible Sunshine.	Wind. Resultant. Direction.	Velocity.	Recorded Velocity.	Number of Days of Clear Sky (less than 3 of Cloud).	Overcast Sky (more than 7 of Cloud).	Rain.	Thunderstorms.	Lightning only.	Temperature of the soil. At a Depth of 5 Feet.	At a Depth of 10 Feet.
	ins.	in.	in.			hrs.		°	m.p.h.	m.p.h.						°	°
January	7·78	+ ·03	·242	3·2	6·4	7·69	58·6	86·4	8·42	11·07	1·3	11·6	18·9	4·2	2·0	79·92	77·12
February... ...	7·21	+ ·10	·213	3·0	6·3	7·21	56·7	81·2	8·13	10·99	1·5	11·0	18·4	3·7	2·0	80·74	77·64
March	9·80	+ ·01	·181	3·5	6·4	6·72	55·3	77·8	8·08	10·42	1·4	12·7	21·4	4·6	1·7	81·15	78·06
April	4·60	+ ·08	·166	4·1	5·7	7·31	63·1	70·4	8·56	10·51	3·1	8·6	18·1	2·8	1·4	80·82	78·31
May	3·15	+ ·06	·145	4·4	5·1	7·37	66·4	64·7	9·00	10·27	6·6	7·0	14·9	1·2	0·4	79·71	78·39
June	2·14	+ ·04	·126	4·7	4·9	7·43	68·3	60·8	10·16	11·19	5·7	5·8	15·6	0·1	0·1	78·09	78·25
July	2·31	+ ·01	·135	5·0	5·2	7·65	69·5	64·4	10·86	11·96	4·9	5·6	19·7	0·0	0·0	76·38	77·82
August	2·46	+ ·08	·158	5·2	5·5	7·49	65·7	67·7	11·18	12·34	3·4	7·6	19·6	0·1	0·0	75·28	77·25
September ...	1·28	+ ·04	·189	4·9	5·6	8·01	67·0	71·5	10·69	12·02	3·1	7·5	15·4	0·1	0·0	75·14	76·69
October	1·24	+ ·04	·227	4·1	5·7	8·14	65·1	77·7	9·41	11·00	2·3	7·2	14·2	0·2	0·1	75·79	76·35
November ...	1·77	+ ·03	·265	3·3	5·5	8·59	66·1	83·2	8·81	10·70	2·2	6·7	12·2	0·7	0·4	77·02	76·34
December ...	5·15	+ ·07	·252	3·0	6·1	8·27	62·3	90·9	8·53	10·79	1·9	10·5	16·0	2·4	1·2	78·55	76·60
Year	48·89	+ ·59	·192	4·1	5·7	7·66	63·7	74·0	9·20	11·10	37·4	101·8	204·4	20·1	9·3	78·22	77·40
Maximum ...	...	...	° ·370 Dec. 31 1907	° 9·7 June 2 1896	...	hrs. 12·5 Dec. 9 1889	97*	103·3 m.p.h. for 1 hour : 121·2 m.p.h. for 5 mins.		On Apr. 29 1892	13 Aug. 1902	25 Jan. 1905	31 Jan. 1905	19 Jan. 1898	9 Jan. 1863	° 82·7 Feb. 13 1892	° 79·99 May 13 1898
Minimum ...	...	...	° ·025 June 23 1905	0	...	0	0	...			0	1†	4 June 1900	0	0	° 74·0 Sep. 13 1893 Sep. 1 1904	° 75·00 Oct. 27 & 28 1906
Column	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

* On June 19, 1899 ; June 12, 1904 ; April 19 and July 20, 1905 ; June 5, 1907.

† In April and June 1879 ; May 1882 ; July 1888.

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 Standard Time, 1907.		Reading.	Mauritius Standard Time, 1907.		Reading.	Mauritius Standard Time, 1907.		Reading.	Mauritius Standard Time, 1907.		Reading.
	d h	ins.		d h	ins.		d h	ins.		d h	ins.
January	2. 0	29·929	January	5. 9	29·854	July	2. 2	29·993	July	5. 11	29·923
	6. 2	29·885		8. 9	29·773		11. 12	30·064		13. 9	29·940
	9. 18	29·892		12. 17	29·809		16. 0	30·081		18. 23	29·935
	16. 16	29·884		20. 4	29·734		21. 6	29·990		26. 16	29·902
	24. 14	29·899		27. 13	29·722		28. 14	29·999		30. 11	29·914
	29. 16	29·786									
			February	4. 8	29·195	August	2. 10	30·115	August	5. 15	29·915
February	8. 12	29·865		10. 15	29·783		8. 2	30·062		10. 21	29·866
	12. 6	29·865		15. 9	29·789		13. 1	30·063		14. 19	29·966
	17. 16	29·835		19. 8	29·789		17. 1	30·049		18. 8	29·998
	22. 9	29·836		24. 22	29·775		20. 18	30·095		24. 4	29·997
	28. 0	29·869					25. 22	30·075		30. 16	29·927
			March	3. 9	29·707						
March	4. 5	29·780		6. 17	29·714	September	1. 1	29·967	September	2. 18	29·884
	9. 12	29·812		11. 14	29·707		9. 1	30·079		15. 11	29·937
	12. 15	29·765		14. 15	29·674		20. 23	29·975		23. 3	29·919
	20. 7	29·880		23. 9	29·737		27. 22	30·024			
	25. 0	29·829		26. 18	29·751				October	2. 5	29·943
	31. 23	29·835				October	3. 22	29·980		10. 20	29·738
			April	1. 20	29·794		15. 15	29·976		16. 23	29·909
April	5. 1	29·910		8. 2	29·795		19. 22	30·004		22. 3	29·929
	9. 1	29·859		12. 21	29·714		23. 21	29·977		27. 7	29·914
	15. 22	29·824		18. 2	29·692		28. 12	29·966		31. 11	29·834
	23. 14	29·818		25. 20	29·754						
	29. 12	29·870				November	3. 19	29·985	November	6. 1	29·818
			May	5. 18	29·776		8. 10	29·902		12. 12	29·803
May	7. 4	29·839		10. 18	29·611		19. 4	29·940		29. 18	29·781
	24. 0	30·013		31. 21	29·753						
						December	5. 2	29·887	December	8. 9	29·781
June	7. 12	29·979	June	14. 22	29·728		11. 15	29·857		22. 20	29.626
	18. 10	30·029		28. 10	29·792		31. 14	29·823			

MONTHLY MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS in the YEAR 1907.

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

January.

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	60	16	10	22	294	49	74	27	...	16	6	5	3	4	1	Midnight
1h	48	14	10	23	304	51	16	19	...	20	5	8	2	7	5	1h
2	35	9	7	21	310	47	71	26	...	26	5	4	2	3	1	2
3	26	4	4	19	320	42	169	27	...	30	3	6	0	5	3	3
4	23	1	1	16	322	35	12	18	...	26	5	4	2	3	3	4
5	28	0	0	15	323	33	6	21	1	15	4	0	0	0	1	5
6	42	2	1	16	318	35	12	13	56	0	4	4	0	3	5	6
7	50	33	20	26	257	59	39	18	83	5	4	9	1	8	5	7
8	55	67	31	21	159	47	0	0	83	13	0	35	0	34	31	8
9	55	89	32	10	82	22	6	3	85	15	0	41	1	41	43	9
10	53	103	35	5	43	11	13	6	84	22	5	48	4	47	49	10
11	45	113	38	4	20	8	5	2	84	26	22	55	15	55	54	11
Noon	35	121	40	4	8	8	8	8	80	26	30	55	20	56	62	Noon
13h	25	122	39	2	0	4	0	0	82	24	34	46	23	49	57	13h
14	13	120	38	1	4	2	6	8	76	23	22	51	15	51	62	14
15	3	114	35	0	12	0	11	5	70	21	17	42	13	41	60	15
16	0	104	32	2	34	4	5	8	59	22	13	40	10	39	52	16
17	6	90	30	6	67	13	42	26	51	18	17	32	13	32	39	17
18	19	75	26	8	107	17	0	0	15	11	10	29	8	28	30	18
19	37	58	22	14	161	31	0	0	...	10	9	21	7	20	17	19
20	51	43	19	17	207	38	0	0	...	6	7	5	4	4	3	20
21	60	33	16	19	238	42	15	5	...	4	9	5	7	4	5	21
22	70	27	13	20	257	45	11	6	...	5	5	6	2	5	4	22
23	68	19	11	20	280	45	32	16	...	8	6	2	3	1	0	23
24	55	14	9	20	296	45	74	27	...	14	7	2	4	1	1	24
Means	38·5	55·6	20·8	13·2	176·9	29·3	25·1	11·6	...	15·8	10·0	22·2	6·4	21·6	23·7	Means
Number of Days employed.	31	29	29	31	31	31	31	31	31	31	31	31	31	31	31	Number of Days employed.

February.

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	51	14	8	15	273	37	48	32	...	12	27	15	34	12	4	Midnight
1h	37	10	6	15	282	37	5	9	...	13	14	14	19	10	5	1h
2	22	6	3	13	289	32	0	0	...	16	9	12	13	9	5	2
3	13	4	2	13	293	32	37	23	...	19	11	7	14	4	3	3
4	11	3	2	13	296	32	55	37	...	16	9	7	11	5	3	4
5	15	0	0	12	305	29	73	46	1	9	6	5	7	3	6	5
6	22	0	0	12	305	29	37	43	45	0	3	0	0	0	2	6
7	34	23	14	20	263	50	18	30	78	8	8	4	9	2	1	7
8	43	54	30	26	194	65	61	32	78	17	0	15	5	15	18	8
9	48	75	34	18	119	45	30	16	87	22	0	27	9	27	37	9
10	50	91	35	11	66	27	27	11	84	19	18	30	24	26	43	10
11	45	101	37	9	42	22	12	7	87	22	28	33	33	29	49	11
Noon	34	108	38	5	18	12	34	5	81	15	35	37	38	35	53	Noon
13h	23	112	38	3	6	7	7	2	85	16	31	33	35	29	53	13h
14	8	112	36	1	0	2	39	13	79	14	38	37	40	35	55	14
15	2	108	35	0	9	0	21	5	72	12	28	31	33	28	52	15
16	0	98	32	1	32	2	64	11	62	14	19	30	25	26	48	16
17	3	84	29	5	70	12	23	7	54	4	15	28	22	25	44	17
18	19	67	26	10	118	24	9	4	10	4	18	26	24	22	33	18
19	33	50	22	15	175	37	7	9	...	5	18	10	23	6	11	19
20	54	37	18	17	217	42	59	18	...	4	17	7	22	3	5	20
21	65	28	14	17	241	42	114	29	...	3	21	4	27	0	0	21
22	70	23	12	17	255	42	195	34	...	4	19	16	25	12	4	22
23	67	20	10	15	257	37	12	18	...	7	12	16	17	13	4	23
24	54	15	9	16	271	39	48	32	...	13	26	18	32	14	5	24
Means	32·9	49·7	19·6	12·0	175·8	29·4	11·4	18·9	...	11·5	17·2	18·5	21·6	15·6	21·7	Means
Number of Days employed.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	Number of Days employed.

* Hours reckoned from *apparent* midnight.

MONTHLY MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS, in the YEAR 1907—*continued.*

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

March.

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0·1°).	Temperature. Of Evaporation (0·1°).	Temperature. Of the Dew Point (0·1°).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.)	Hour, Mauritius Standard Time.
Midnight	61	15	12	12	255	30	92	13	...	7	10	1	17	1	5	Midnight
1h	48	13	10	10	254	25	65	5	...	12	6	4	10	3	5	1h
2	35	10	8	7	257	17	134	27	...	17	6	3	10	3	4	2
3	25	6	5	5	261	12	10	3	...	19	4	5	7	4	4	3
4	19	3	2	2	261	5	47	15	...	17	3	4	5	3	6	4
5	22	0	0	0	265	0	42	19	...	10	4	5	7	4	8	5
6	32	0	0	1	265	2	63	5	20	0	5	4	8	3	6	6
7	42	22	16	13	238	32	15	11	69	4	4	3	7	2	1	7
8	57	59	37	23	167	58	127	21	72	5	3	13	5	12	11	8
9	66	81	43	19	94	48	155	16	78	12	7	26	8	25	28	9
10	65	96	47	15	54	38	221	27	74	15	22	31	20	33	36	10
11	58	106	50	15	29	38	115	29	73	12	25	37	21	40	45	11
Noon	43	113	51	13	11	32	0	2	78	13	28	39	23	43	49	Noon
13h	25	116	52	11	0	27	121	19	71	13	30	42	23	46	54	13h
14	9	114	51	11	4	27	32	10	67	13	33	36	27	42	52	14
15	1	107	48	11	19	27	156	19	67	13	18	29	18	31	53	15
16	0	97	44	11	43	27	60	13	68	13	8	19	10	18	41	16
17	6	86	39	10	64	25	55	16	38	1	9	24	10	24	38	17
18	17	70	36	13	110	32	13	0	...	5	1	12	2	11	16	18
19	36	53	31	16	162	40	253	6	...	7	0	1	0	0	0	19
20	53	39	26	18	203	45	147	24	...	7	1	1	2	0	1	20
21	67	30	21	16	223	40	6	8	...	3	1	1	2	0	2	21
22	71	24	18	14	239	35	205	19	...	6	4	2	7	1	4	22
23	69	20	16	14	249	35	148	10	...	6	7	5	11	5	6	23
24	63	16	14	13	256	32	92	13	...	8	9	0	16	0	4	24
Means	39·6	51·8	27·1	11·7	159·3	29·2	95·0	14·0	...	9·5	9·9	13·9	11·0	14·2	19·2	Means
Number of Days employed.	31	27	27	31	31	31	31	31	31	31	31	31	31	31	31	Number of Days employed.

April.

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0·1°).	Temperature. Of Evaporation (0·1°).	Temperature. Of the Dew Point (0·1°).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.)	Hour, Mauritius Standard Time.
Midnight	56	17	11	8	185	19	65	33	...	8	8	0	0	0	2	Midnight
1h	45	12	8	6	191	14	217	35	...	14	9	3	11	2	4	1h
2	35	9	6	6	202	14	242	52	...	20	12	4	14	2	2	2
3	24	7	4	4	205	9	8	17	...	20	7	6	9	5	4	3
4	17	4	3	4	210	9	28	23	...	16	4	5	6	4	5	4
5	18	1	0	0	211	0	37	17	...	13	6	7	9	6	5	5
6	27	0	0	1	214	2	105	15	15	10	3	5	5	5	3	6
7	41	13	9	7	195	16	8	0	69	3	8	6	10	5	3	7
8	54	46	28	18	133	43	28	5	78	4	0	14	5	15	13	8
9	65	68	35	15	69	35	397	13	79	11	0	25	7	25	33	9
10	68	80	37	10	27	23	412	15	82	18	1	36	9	36	53	10
11	56	89	42	11	9	26	87	28	76	20	14	44	18	42	58	11
Noon	38	91	43	12	8	28	113	43	74	18	18	42	20	40	57	Noon
13h	19	91	42	12	6	28	85	5	76	17	23	41	23	39	57	13h
14	7	92	41	10	0	23	0	5	82	16	17	31	19	29	53	14
15	0	87	39	9	8	21	43	8	73	17	16	33	19	31	48	15
16	3	80	36	9	25	21	8	5	73	18	12	27	16	25	39	16
17	13	66	31	8	56	19	55	30	38	10	4	22	9	21	27	17
18	24	48	25	10	106	23	33	10	...	14	7	9	10	8	6	18
19	40	36	19	9	138	21	157	33	...	10	6	5	8	4	0	19
20	56	30	17	9	153	21	25	15	...	4	8	5	10	4	2	20
21	66	27	15	9	162	21	117	20	...	0	7	4	9	3	0	21
22	70	23	13	8	168	19	252	33	...	1	8	3	10	2	1	22
23	65	20	11	6	172	14	23	15	...	4	8	6	10	5	6	23
24	58	17	10	6	181	14	65	33	...	9	7	3	9	2	5	24
Means	38·6	42·2	21·0	8·3	121·4	19·3	102·4	20·3	...	11·8	8·5	15·4	11·0	14·4	19·4	Means
Number of Days employed.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	Number of Days employed.

* Hours reckoned from *apparent* midnight.

MONTHLY MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS in the YEAR 1907—*continued*

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

May

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	56	21	17	16	198	32	34	34	...	5	17	12	8	11	4	Midnight
1h	49	17	16	16	207	32	53	48	...	4	14	6	2	7	5	1h
2	39	14	11	12	206	24	65	32	...	6	15	8	4	8	7	2
3	29	9	9	10	213	20	31	23	...	9	16	9	6	8	3	3
4	24	6	5	6	210	12	39	24	...	10	13	10	4	11	5	4
5	23	2	2	3	212	6	36	26	...	8	11	10	2	11	5	5
6	32	0	0	0	215	0	63	24	14	8	12	7	1	9	3	6
7	48	7	7	8	215	16	197	52	62	2	12	8	2	10	4	7
8	62	44	32	24	158	49	56	36	77	0	10	0	0	9	5	8
9	73	76	45	24	75	49	76	37	75	4	0	34	5	38	32	9
10	73	88	47	20	34	41	191	32	72	12	1	45	8	47	41	10
11	59	96	51	21	18	43	65	21	77	18	5	51	12	51	52	11
Noon	40	103	52	18	0	36	40	29	76	17	14	45	16	42	56	Noon
13h	18	103	52	19	0	39	68	42	72	17	4	45	10	46	62	13h
14	5	101	53	21	9	43	227	31	66	17	1	42	8	45	57	14
15	0	96	50	20	17	41	0	0	71	17	3	41	8	42	54	15
16	2	89	47	19	31	39	5	5	59	15	8	37	10	37	45	16
17	10	75	42	21	69	43	47	18	35	13	10	24	7	25	27	17
18	19	56	36	23	121	47	0	2	...	15	16	8	5	8	6	18
19	33	43	29	21	150	43	11	10	...	17	20	6	8	4	0	19
20	49	35	25	20	169	41	5	3	...	7	21	2	7	0	0	20
21	58	29	23	19	184	39	35	19	...	7	19	4	6	2	1	21
22	60	24	20	18	196	36	47	26	...	5	16	6	4	6	1	22
23	58	22	19	18	199	36	66	37	...	5	18	8	7	6	2	23
24	52	20	17	17	203	34	34	34	...	5	17	9	7	8	2	24
Means	38·8	47·0	28·3	16·6	132·4	33·6	59·6	25·8	...	9·7	11·7	19·1	6·3	19·6	19·2	Means
Number of Days employed.	31	30	30	30	30	30	31	31	31	31	31	31	31	31	31	Number of Days employed.

June

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	49	7	3	3	199	6	67	36	...	6	12	0	4	0	0	Midnight
1h	43	4	1	0	202	0	48	24	...	7	11	1	4	2	1	1h
2	33	2	1	1	210	2	43	21	...	8	6	6	2	8	6	2
3	23	1	1	2	216	4	28	14	...	13	5	3	0	7	4	3
4	17	1	0	1	214	2	167	26	...	10	6	2	0	5	3	4
5	17	0	0	1	216	2	118	31	...	14	7	1	1	4	3	5
6	25	1	1	3	218	6	37	27	10	12	7	4	2	6	6	6
7	38	6	6	8	219	15	35	26	59	10	8	3	2	5	6	7
8	53	37	27	23	169	45	5	7	69	5	9	1	2	3	1	8
9	66	67	42	25	98	49	8	0	72	3	0	24	6	27	26	9
10	66	82	45	20	46	39	22	24	73	11	0	37	9	38	41	10
11	55	92	48	19	17	37	28	26	79	17	8	50	16	47	56	11
Noon	40	99	51	20	4	39	12	12	76	17	5	41	13	40	56	Noon
13h	16	100	51	19	0	37	162	24	69	21	16	38	18	34	57	13h
14	3	98	51	19	6	37	120	22	65	20	18	28	18	23	56	14
15	0	92	48	20	19	39	10	2	65	22	6	23	9	23	51	15
16	2	81	44	20	46	39	98	32	56	19	8	19	9	18	42	16
17	12	67	38	19	81	37	0	1	29	5	9	13	7	13	24	17
18	21	47	29	18	128	35	2	2	...	5	11	0	3	1	8	18
19	37	35	21	13	146	25	25	17	...	5	9	1	2	3	8	19
20	49	28	17	11	163	21	113	51	...	3	10	4	4	4	10	20
21	59	21	14	12	184	23	70	52	...	0	9	6	4	7	7	21
22	61	17	11	8	189	15	33	32	...	5	8	4	3	5	8	22
23	61	12	7	5	190	10	32	27	...	7	10	5	5	6	9	23
24	56	7	3	3	197	6	67	36	...	5	11	0	3	0	1	24
Means	36·1	40·2	22·4	11·7	135·1	22·8	54·0	22·9	...	10·0	8·4	12·6	5·8	13·2	19·6	Means
Number of Days employed.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	Number of Days employed.

* Hours reckoned from *apparent* midnight.

MONTHLY MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS in the YEAR 1907—*continued.*

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

July.

Hour, Mauritius Standard Time.	Barometric Pressure (in. (0·001)).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. (0·001)).	Rainfall. Amount (in. (0·001)).	Rainfall. Duration (min. (0·1)).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	51	10	7	5	203	8	0	0	...	2	42	3	5	0	0	Midnight
1h	46	7	4	3	206	5	6	5	...	3	37	6	3	6	4	1h
2	35	5	2	1	205	2	6	5	...	0	39	9	6	7	5	2
3	26	4	2	0	206	0	5	3	...	3	41	4	5	1	1	3
4	20	2	1	0	210	0	0	0	...	8	38	3	3	3	1	4
5	19	1	0	0	213	0	10	10	...	14	35	5	2	7	5	5
6	26	0	2	3	225	5	11	13	10	15	38	2	2	3	1	6
7	38	7	5	4	209	6	15	8	59	19	37	0	0	1	1	7
8	53	36	25	17	165	29	5	5	77	18	32	9	3	12	10	8
9	68	65	37	18	94	31	11	8	82	24	18	30	5	36	35	9
10	69	84	44	17	49	29	8	3	88	25	13	51	10	56	60	10
11	57	96	47	14	22	24	8	3	88	25	0	73	11	81	85	11
Noon	40	102	50	14	6	24	2	2	84	27	6	71	13	76	79	Noon
13h	18	104	50	14	0	24	0	0	86	36	8	58	10	64	81	13h
14	6	101	49	13	5	22	0	0	75	33	9	62	11	67	80	14
15	0	93	46	14	22	24	0	0	68	36	9	56	10	62	73	15
16	3	82	40	11	41	18	3	5	65	35	3	52	7	63	67	16
17	11	66	35	13	83	22	0	0	34	23	12	39	6	47	49	17
18	20	47	27	13	126	22	0	0	...	15	28	16	4	20	19	18
19	34	34	20	10	154	16	0	0	...	5	30	12	3	15	13	19
20	49	27	16	7	163	12	0	0	...	4	38	8	5	6	5	20
21	58	23	13	6	170	10	3	11	...	8	36	9	5	9	7	21
22	62	18	11	5	180	8	15	15	...	9	37	8	4	8	7	22
23	59	15	8	3	183	5	10	6	...	6	39	6	5	4	3	23
24	55	9	6	4	204	6	0	0	...	4	41	3	4	1	0	24
Means	36·9	41·5	21·9	8·4	133·8	14·1	4·7	4·1	...	15·9	26·6	23·8	5·7	26·2	27·6	Means
Number of Days employed.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	Number of Days employed.

August.

Hour, Mauritius Standard Time.	Barometric Pressure (in. (0·001)).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. (0·001)).	Rainfall. Amount (in. (0·001)).	Rainfall. Duration (min. (0·1)).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	66	19	11	5	249	8	0	0	...	7	26	5	2	7	12	Midnight
1h	60	14	8	4	258	6	0	0	...	9	27	2	1	4	7	1h
2	49	10	6	5	274	8	23	11	...	13	26	4	2	6	7	2
3	39	7	5	5	284	8	10	10	...	15	28	2	2	3	5	3
4	31	4	3	3	287	4	0	0	...	16	29	1	2	2	3	4
5	31	2	2	4	294	6	6	5	...	19	31	1	3	1	2	5
6	41	0	0	1	291	1	0	0	21	17	32	0	4	0	0	6
7	55	6	5	6	287	10	0	0	65	22	31	2	4	1	1	7
8	67	55	35	22	202	36	0	0	75	20	23	12	4	15	14	8
9	79	92	45	13	97	21	0	0	79	24	7	40	7	46	48	9
10	82	112	49	6	40	10	0	0	86	28	0	55	8	62	66	10
11	67	125	51	0	7	0	0	0	87	24	8	70	15	71	84	11
Noon	45	131	55	5	0	4	0	0	84	26	7	66	14	68	89	Noon
13h	25	131	57	7	7	11	0	0	83	29	3	59	11	64	83	13h
14	9	127	56	9	19	14	0	0	79	33	4	54	10	60	84	14
15	0	120	54	9	32	14	0	0	81	30	2	50	8	58	82	15
16	2	109	51	11	56	18	0	0	65	27	0	47	6	56	76	16
17	14	91	45	13	99	23	0	0	31	22	1	38	4	48	61	17
18	27	70	38	17	154	28	0	0	...	14	15	21	4	26	32	18
19	41	51	32	19	204	31	0	0	...	3	23	12	4	15	17	19
20	57	39	26	17	229	28	0	0	...	0	26	8	3	10	12	20
21	67	32	20	12	235	20	0	0	...	0	21	9	1	13	17	21
22	69	28	17	10	240	16	0	0	...	3	21	7	0	12	16	22
23	68	22	14	8	250	13	0	0	...	3	24	6	2	9	14	23
24	65	18	10	6	254	10	0	0	...	3	27	6	3	7	12	24
Means	46·2	56·6	27·8	8·7	174·0	13·9	1·6	1·0	...	16·3	17·7	23·1	5·0	26·6	33·8	Means
Number of Days employed.	31	28	28	31	31	31	31	31	31	31	31	31	31	31	31	Number of Days employed.

* Hours reckoned from *apparent* midnight.

MONTHLY MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS in the YEAR 1907—*continued*

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

September

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	72	24	16	22	304	37	7	13	...	7	26	0	2	1	1	Midnight
1h	61	17	13	20	317	33	32	8	...	9	26	0	2	1	2	1h
2	50	10	6	15	322	25	28	12	...	12	25	1	2	2	4	2
3	38	6	4	13	329	21	5	5	...	11	27	1	4	1	2	3
4	32	6	1	8	311	13	8	3	...	3	24	0	1	2	4	4
5	37	0	0	10	337	16	0	0	...	3	22	1	0	4	4	5
6	47	1	1	11	339	18	0	0	28	8	23	1	1	4	2	6
7	61	24	16	21	301	35	2	3	80	8	26	0	2	1	2	7
8	72	76	39	24	176	40	8	7	87	10	14	20	5	24	26	8
9	80	106	45	13	87	21	0	0	86	11	4	41	8	46	50	9
10	77	126	47	4	31	7	0	0	85	18	17	42	15	40	56	10
11	64	139	50	0	3	0	0	0	87	19	31	43	21	35	62	11
Noon	43	145	54	4	0	7	0	0	77	23	29	51	23	44	69	Noon
13h	23	143	55	7	10	11	0	0	71	28	22	39	17	35	69	13h
14	8	137	55	11	26	18	0	0	65	30	21	38	16	35	65	14
15	0	129	52	10	39	16	0	0	63	30	14	51	16	50	69	15
16	4	118	48	10	59	16	0	0	64	28	8	47	12	49	67	16
17	13	99	43	14	104	23	0	0	29	22	0	45	8	52	69	17
18	28	76	37	19	164	31	0	0	...	17	15	40	13	40	42	18
19	47	58	31	23	217	38	2	2	...	3	21	18	9	18	19	19
20	64	43	27	27	266	46	5	7	...	0	24	14	9	13	14	20
21	77	39	23	22	265	37	2	2	...	0	23	9	6	10	8	21
22	80	32	20	22	281	37	12	10	...	0	25	9	7	8	6	22
23	78	29	20	24	294	40	48	12	...	0	25	0	2	2	1	23
24	72	26	19	26	305	44	7	13	...	7	27	0	3	0	0	24
Means	49·1	64·4	28·9	15·2	195·5	25·2	6·6	3·9	...	12·3	20·8	20·4	8·2	20·7	28·5	Means
Number of Days employed.	30	28	28	30	30	30	30	30	30	30	30	30	30	30	30	Number of Days employed.

October

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	62	15	10	25	315	47	13	10	...	6	3	3	3	3	1	Midnight
1h	50	10	6	23	324	43	19	6	...	8	4	3	4	3	1	1h
2	39	3	1	20	336	37	8	13	...	9	2	8	3	8	6	2
3	30	0	1	22	349	41	6	13	...	6	3	6	4	6	3	3
4	30	0	2	23	350	43	8	11	...	11	2	6	3	6	4	4
5	35	0	0	20	343	37	13	15	0	10	0	3	0	4	0	5
6	47	0	0	21	346	39	5	10	35	9	1	2	0	2	1	6
7	62	43	25	33	263	63	13	13	69	23	3	14	5	14	10	7
8	72	76	31	20	149	37	0	0	75	27	0	43	7	43	44	8
9	76	99	34	10	81	18	0	0	78	30	5	47	11	46	57	9
10	70	114	39	7	46	13	0	0	81	29	18	43	18	41	65	10
11	57	124	40	4	22	7	3	5	78	29	33	39	27	38	73	11
Noon	43	129	39	0	6	0	0	0	81	32	34	45	27	44	76	Noon
13h	23	133	41	0	0	0	0	0	87	26	30	44	25	43	79	13h
14	8	134	43	4	5	7	3	5	85	26	35	37	29	37	81	14
15	0	123	42	9	32	17	0	0	72	28	27	38	24	36	75	15
16	0	112	41	13	61	24	0	0	62	28	17	35	17	33	64	16
17	10	95	38	18	103	34	3	3	38	19	12	34	14	32	54	17
18	26	73	31	21	160	39	6	5	0	19	6	32	10	31	43	18
19	44	56	27	27	213	51	15	13	...	7	4	16	6	15	25	19
20	61	44	22	27	242	51	10	10	...	2	5	12	6	12	13	20
21	73	36	19	27	262	51	3	3	...	2	6	7	7	6	7	21
22	76	29	17	28	283	53	0	0	...	3	5	4	5	4	4	22
23	73	27	15	27	288	51	87	13	...	0	3	7	4	7	12	23
24	63	19	12	27	310	51	13	10	...	6	2	0	3	0	2	24
Means	45·2	59·8	23·0	18·2	195·6	34·2	9·1	6·3	...	15·8	10·4	21·1	10·5	20·6	32·0	Means
Number of Days employed.	29	28	28	31	31	31	31	31	31	31	31	31	31	31	31	Number of Days employed.

* Hours reckoned from *apparent* midnight.

MONTHLY MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS in the YEAR 1907—*continued.*

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

November.

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	61	18	10	20	309	44	5	10	...	1	8	1	2	1	5	Midnight
1h	46	11	6	17	320	37	38	5	...	2	7	1	1	2	5	1h
2	34	7	4	16	331	35	6	3	...	2	6	5	0	6	7	2
3	28	4	1	14	330	30	70	13	...	2	7	1	1	2	4	3
4	29	2	1	15	339	33	0	0	...	6	6	2	0	3	4	4
5	35	0	0	15	345	33	11	15	2	12	9	1	3	2	3	5
6	47	7	6	20	341	44	0	0	57	12	10	1	4	1	0	6
7	62	60	34	32	229	71	50	10	80	24	3	15	0	17	16	7
8	67	88	36	17	127	37	55	12	81	34	0	38	1	40	40	8
9	69	108	42	13	75	28	0	0	90	38	19	44	14	44	50	9
10	63	125	43	6	30	13	0	0	85	35	33	50	22	52	60	10
11	51	135	44	0	0	0	12	3	85	37	36	57	23	59	72	11
Noon	39	137	46	3	2	6	27	22	76	37	41	47	27	50	70	Noon
13h	21	137	46	2	1	4	10	7	76	34	40	35	29	39	64	13h
14	9	132	44	2	10	4	10	8	71	35	37	37	27	39	65	14
15	0	126	42	2	20	4	15	5	56	39	31	39	22	41	57	15
16	1	113	39	6	55	13	13	10	51	40	27	45	19	45	51	16
17	12	99	37	11	88	24	105	23	34	32	19	36	14	36	43	17
18	28	81	34	16	141	35	18	7	5	32	13	24	9	24	30	18
19	45	63	30	22	197	48	0	0	...	19	13	12	9	12	12	19
20	62	50	26	24	234	53	0	0	...	11	11	3	6	3	0	20
21	70	40	20	21	253	46	0	0	...	2	10	2	5	3	2	21
22	76	31	16	21	277	46	0	0	...	0	10	6	5	6	5	22
23	72	23	12	20	295	44	0	0	...	1	11	1	6	1	2	23
24	60	18	11	21	312	46	5	10	...	2	10	0	2	1	3	24
Means	43·5	64·6	25·2	14·2	186·4	31·1	18·0	6·5	...	19·6	16·7	20·1	10·0	21·2	26·8	Means
Number of Days employed.	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	Number of Days employed.

December.

Hour, Mauritius Standard Time.	Barometric Pressure (in. 0·001).	Temperature. Of the Air (0°·1).	Temperature. Of Evaporation (0°·1).	Temperature. Of the Dew Point (0°·1).	Degree of Humidity (0·1%).	Elastic Force of Vapour (in. 0·001).	Rainfall. Amount (in. 0·0001).	Rainfall. Duration (min. 0·1).	*Duration of Bright Sunshine.	Observed Amount of Cloud (Scale 0—100).	Wind. North Component (0·1 m.p.h.).	Wind. East Component (0·1 m.p.h.).	Wind. Resultant. Direction (1°).	Wind. Resultant. Velocity (0·1 m.p.h.).	Wind. Observed Velocity (0·1 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	51	18	13	10	239	26	92	27	...	0	6	7	12	8	3	Midnight
1h	34	12	9	8	246	21	95	34	...	1	3	9	7	9	8	1h
2	25	7	6	5	254	13	253	50	...	1	3	4	7	4	1	2
3	17	5	4	3	254	8	94	34	...	2	1	9	4	9	5	3
4	15	2	2	3	259	8	340	34	...	10	1	8	4	8	6	4
5	21	0	0	0	258	0	15	23	3	8	2	6	6	6	4	5
6	35	5	6	7	262	18	74	24	54	1	0	4	2	4	0	6
7	50	42	30	23	205	61	85	32	65	12	0	9	3	9	2	7
8	56	70	39	19	121	50	89	40	70	23	6	27	9	27	20	8
9	59	85	40	11	65	28	69	24	71	21	9	28	12	29	33	9
10	56	97	42	8	32	21	235	23	74	21	33	32	31	39	47	10
11	48	106	46	9	13	23	240	34	73	22	37	34	33	43	49	11
Noon	35	112	48	8	0	21	189	42	69	26	41	34	36	45	59	Noon
13h	22	107	44	6	4	16	223	50	56	25	33	31	31	39	57	13h
14	11	102	42	4	11	11	123	45	46	27	33	32	31	40	54	14
15	3	96	41	6	30	16	502	26	38	28	31	29	31	36	43	15
16	0	87	38	8	54	21	335	39	41	30	23	20	27	24	41	16
17	4	80	38	11	78	28	202	53	28	25	13	23	16	24	34	17
18	15	68	33	11	106	28	58	10	3	28	13	20	17	21	29	18
19	34	51	28	14	157	36	148	3	...	21	7	10	12	11	11	19
20	47	39	25	16	195	41	45	6	...	8	4	3	9	3	4	20
21	57	30	20	15	215	39	6	0	...	4	6	0	13	0	0	21
22	65	26	17	12	221	31	0	13	...	1	5	9	10	9	7	22
23	62	22	16	12	229	31	202	21	...	2	6	12	11	12	7	23
24	52	18	13	10.	237	26	92	27	...	0	4	12	0	12	6	24
Means	35·0	51·5	25·6	9·6	149·8	24·9	152·2	28·6	...	13·9	12·8	16·5	15·0	18·8	21·2	Means
Number of Days employed.	28	31	31	31	31	31	31	31	31	31	31	31	31	31	31	Number of Days employed.

* Hours reckoned from *apparent* midnight.

MEAN DIURNAL INEQUALITY of the METEOROLOGICAL ELEMENTS, for the YEAR 1907.

(Each result is the mean of twelve monthly mean values, the annual means for each element being diminished by the smallest hourly value).

Hour, Mauritius Standard Time.	Barometric Pressure (in. (0·0001).	Temperature. Of the Air (°(0·01).	Temperature. Of Evaporation (°(0·01).	Temperature. Of the Dew Point (°(0·01).	Degree of Humidity (0·01%).	Elastic Force of Vapour (in. (0·0001).	Rainfall. Amount (in. (0·00001)	Rainfall. Duration (min.) (0·01).	*Percentage of Possible Sunshine. (0·1 %).	Observed Amount of Cloud (Scale 0—1000).	Wind. North Component (0·01 m.p.h.).	Wind. East Component (0·01 m.p.h.).	Wind. Resultant. Direction (°(0·1).	Wind. Resultant. Velocity (0·01 m.p.h.).	Wind. Observed Velocity (0·01 m.p.h.).	Hour, Mauritius Standard Time.
Midnight	572	157	103	69	2491	151	298	163	...	37	102	15	53	0	8	Midnight
1h	465	112	78	54	2564	118	379	132	...	51	78	19	29	13	19	1h
2	352	72	48	35	2635	78	617	177	...	81	71	28	26	24	22	2
3	258	43	32	25	2688	54	278	121	...	97	70	21	23	18	10	3
4	216	23	16	12	2696	28	471	126	...	97	59	15	9	17	15	4
5	243	0	0	0	2740	0	190	157	18	85	57	9	4	12	14	5
6	345	9	11	13	2754	31	223	112	337	49	57	0	0	4	0	6
7	477	233	153	101	2372	227	282	136	698	89	63	32	19	31	19	7
8	584	585	322	145	1572	312	246	105	768	119	23	161	32	165	170	8
9	662	838	392	91	835	194	511	65	802	152	0	311	57	314	369	9
10	653	993	422	41	387	92	825	84	807	183	77	388	122	366	490	10
11	544	1097	450	22	140	55	363	99	812	198	148	460	174	424	592	11
Noon	388	1154	469	22	24	46	238	105	780	203	183	449	195	409	622	Noon
13h	207	1161	469	18	0	38	406	91	762	211	171	397	184	358	620	13h
14	73	1137	463	22	54	40	351	89	713	212	166	376	179	338	613	14
15	0	1071	440	25	187	48	516	25	663	217	111	357	139	327	573	15
16	7	970	407	34	419	67	377	74	604	213	64	320	102	303	503	16
17	88	827	367	57	773	117	328	114	373	134	43	270	77	261	400	17
18	212	643	312	83	1256	167	0	0	72	122	70	169	73	156	221	18
19	377	485	251	103	1700	213	398	44	...	66	76	75	49	66	87	19
20	536	373	217	108	2003	231	225	79	...	19	86	32	43	21	33	20
21	640	302	178	96	2165	207	193	91	...	0	83	22	36	13	23	21
22	684	247	151	86	2293	184	526	124	...	8	78	38	37	30	32	22
23	659	204	129	77	2377	166	434	113	...	13	83	33	41	24	31	23
24	580	159	108	74	2493	159	298	163	...	36	99	16	50	1	10	24
Means	393	516	240	48	1585	121	359	104	...	108	85	161	70	148	220	Means

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

Month.	1907. 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 ...	1	7	63	229	182	157	18	20	1	3	1	23	24	2	8	5	0
February ...	6	16	35	167	160	170	25	1	2	5	7	9	15	10	17	27	0
March	11	47	119	147	153	101	39	0	19	38	2	0	0	4	6	58	0
April	13	52	59	108	126	211	49	28	1	5	0	0	1	5	34	28	0
May	0	1	41	22	208	173	137	59	32	6	9	18	0	10	28	0	0
June	26	3	7	30	159	213	185	4	25	12	4	35	11	3	3	0	0
July	0	0	0	3	60	292	283	73	23	1	3	6	0	0	0	0	0
August... ...	0	0	0	36	90	285	213	67	15	10	12	10	0	1	4	1	0
September ...	1	1	6	43	110	222	213	62	25	3	1	18	6	5	3	1	0
October ...	2	23	40	118	258	148	35	29	20	9	2	24	7	11	16	2	0
November ...	26	22	20	203	201	143	5	5	21	30	3	1	9	4	22	5	0
December ...	56	27	26	196	172	73	35	2	5	6	16	7	36	6	46	35	0
Total ...	142	199	416	1302	1879	2188	1237	350	189	128	60	151	109	61	187	162	0

* Hours reckoned from *apparent* midnight.

DIRECTION of MOTION of the various Types of CLOUD as derived from Observations with the MARVIN NEPHOSCOPE, during the YEAR 1907.

The values represent the direction from which the clouds come; counting from South (0°), to East (90°), North (180°), West (270°).

Cirrus.

M.S.T.	Direction.
Jan.	
d h	°
11.15	276
10.10	240
17. 9	256
17.15	266
Feb.	
8. 9	342
10. 9	32
10.13	42
20.15	286
21. 9	280
21.15	286
22.10	266
22.16	270
23.10	250
23.14	254
28.16	296
March	
1. 9	286
1.16	280
6.10	273
6.15	286
8. 9	335
8.16	316
9.14	51
30.14	266
April	
2. 9	267
2.16	260
3.10	257
3.15	256
4.16	266
10. 9	296
10.15	285
19.16	250
22.10	266
22.15	266
23.16	276
26.16	276
May	
1.15	244
3. 9	258
9.10	240
9.16	246
10.10	225
June	
20.16	276
24.15	136
25. 9	250
25.15	240
Aug.	
11.12	321
13. 8	206
Sept.	
24. 9	236
25. 8	230
Oct.	
4. 9	276
4.15	266

M.S.T.	Direction.
Oct.	
d h	°
12.12	250
12.14	254
15. 9	256
18.10	246
18.12	250
18.15	246
19. 9	236
19.12	232
22.15	230
23. 9	226
23.13	230
23.15	230
24.12	250
24.15	254
29.15	256
Nov.	
4.12	232
4.15	236
22. 9	306
25. 9	266
28. 9	242
30. 9	266
30.12	276
30.14	282
Dec.	
3.10	256
3.12	260
5. 9	256
5.12	262
7.14	290
9.11	246
9.12	256
17. 9	276
18.14	310
19.11	286
20. 9	276
20.15	266

Cirro-Stratus.

M.S.T.	Direction.
Jan.	
d h	°
11.10	240
17. 9	256
17.15	266
Feb.	
10. 9	32
10.13	42
22.10	266
23.10	250
28.16	296
March	
1. 9	286
1.16	280
8. 9	335
8.16	316
9.14	51
30.14	266

Cirro-Stratus.

M.S.T.	Direction.
April	
d h	°
2. 9	267
2.16	260
3.10	257
3.15	256
4.16	266
May	
9.10	240
9.16	246
June	
20.16	276
25. 9	250
Sept.	
25. 8	230
Oct.	
4.15	266
12.12	250
12.14	254
18.10	246
18.12	250
18.15	246
19. 9	236
19.12	232
23. 9	226
23.13	230
23.15	230
24.12	250
29.15	256
Nov.	
4.12	232
4.15	236
30.12	276
30.14	282
Dec.	
17. 9	276

Cirro-Cumulus.

M.S.T.	Direction.
Jan.	
d h	
5.14	130
14.10	76
29. 9	211
Feb.	
5.10	179
5.15	186
6.10	186
6.16	192
7. 9	206
7.16	212
8.15	246
9.10	236
18.16	62
19.16	26
22.15	70
23.14	254

Cirro-Cumulus.

M.S.T.	Direction.
March	
d h	°
5. 9	157
5.15	144
8. 9	169
8.16	316
18. 9	355
22.15	256
25.15	198
27.15	207
April	
10.15	285
11.12	270
12.12	270
15.11	246
15.15	236
16.10	126
18. 9	236
19. 9	236
19.16	250
22. 9	290
30.15	138
May	
1.15	236
3. 9	242
13.15	202
21. 9	258
27.11	230
June	
5.13	246
12.15	236
14.15	246
15.14	242
21.11	116
24.15	136
25. 9	250
25.15	240
26.15	254
27. 9	206
27.15	196
July	
1.11	192
2.15	242
6.10	296
17.14	186
18.12	26
20.13	110
22. 9	320
30.11	196
30.14	202
Aug.	
24.14	136
31. 8	126
Sept.	
7. 8	126
12. 8	116
12.11	120
13.15	116
Oct.	
4. 9	276
4.15	266

M.S.T.	Direction.
Oct.	
d h	°
11.12	246
19.10	230
22.13	226
24. 9	246
28.15	230
Nov.	
21. 9	146
Dec.	
2. 9	246
3.10	236
6. 9	146
6.12	142
19.13	254
20. 9	206
24.12	216

Alto-Cumulus.

M.S.T.	Direction.
Jan.	
d h	°
3.15	125
4. 9	120
7.16	140
8.15	176
9. 9	196
9.16	202
12. 9	210
15. 9	120
25.16	66
26.14	22
29. 9	211
Feb.	
7. 9	206
18.16	62
March	
24. 9	207
25.15	198
27.15	207
April	
11.16	300
15.11	246
15.15	236
16.10	126
19. 9	236
26.13	216
26.15	220
May	
1.10	230
1.13	230
6.15	286
9.12	167
9.16	140
10.10	225
13.15	202
20.12	196
27.11	230

Alto-Cumulus.

M.S.T.	Direction.
June	
d h	°
2.10	246
7.10	236
10.15	206
11.11	196
12.15	236
14. 9	256
14.15	246
15. 9	226
15.12	236
15.14	242
21.15	122
25.15	238
26.15	254
27. 9	206
27.15	198
July	
1. 9	192
1.15	196
2. 9	246
2.15	247
5.13	326
12.16	100
13.12	116
29. 8	116
30.11	196
30.14	202
Aug.	
17. 8	236
17.10	236
24. 8	126
24.14	136
Sept.	
4. 8	276
4.15	266
7. 8	126
10.10	104
12.11	120
14.12	346
16. 8	356
19. 9	100
19.12	116
19.15	114
21. 8	106
25.15	350
30.10	276
Oct.	
7. 9	40
10.13	280
10.15	276
11. 8	250
21. 9	116
22.10	130
26.11	136
Dec.	
15.12	146

Cumulo-Stratus.

M.S.T.	Direction.
Jan.	
d h	°
15.16	342
16.16	346
Feb.	
4.10	330
22.10	106
March	
13.16	26
14.15	6
15.15	16
April	
6.10	69
6.14	70
11.10	146
11.16	140
23.12	66
26.10	136
27.14	6
30. 9	90
30.14	86
May	
6.15	356
10.15	10
14.13	292
14.15	306
15.12	56
15.16	62
16. 9	320
17. 9	326
18.11	216
20.10	342
20.15	330
21.15	346
22.10	34
22.13	40
June	
2.15	316
6.15	18
7.10	24
7.16	28
8.10	16
8.14	10
17.12	56
19.15	26
20.10	36
20.11	30
July	
1.10	44
1.15	46
2.15	86
4.12	106
5.12	356
6.12	6
11. 9	26
12.10	26
15. 9	66
16.12	60
23.15	16
24.13	336
24.16	332

Cumulo-Stratus.

M.S.T.	Direction.
July	
d h	°
25.11	26
25.15	30
26.12	52
27. 9	56
29.16	62
30. 9	256
30.15	266
31.12	46
Aug.	
1. 9	32
2. 9	68
5.16	326
10.12	286
10.14	290
12.15	36
13. 9	90
14. 9	12
14.15	16
16. 9	26
16.12	26
19. 9	12
19.15	16
20.15	36
23. 9	64
23.14	68
27. 9	60
27.15	54
28. 9	36
29.12	346
Sept.	
2.15	26
3.15	36
4.16	28
5.12	24
5.15	20
6.10	12
12.15	6
17. 9	34
18. 9	6
20.12	12
20.15	16
27.15	90
Oct.	
14.13	26
14.15	28
15.12	46
15.15	46
16. 9	62
19.14	36
21.14	66
25.10	98
Nov.	
5.15	16
6.15	20
15.12	16
18.15	10
19.15	18
20.12	6
20.15	350
21.12	6
26. 8	86
27.14	12

Cumulo-Stratus.

M.S.T.	Direction.
Dec.	
d h	°
4.12	346
10.15	16
11.13	350
13.13	350

Cumulus.

M.S.T.	Direction.
Jan.	
d h	°
3. 9	67
3.15	73
4.10	70
4.15	74
5. 9	80
5.14	90
7. 9	83
7.16	84
8.15	90
9. 9	126
10. 9	94
10.15	88
11.10	80
11.16	95
12.14	110
14.15	90
15. 9	96
15.16	112
16. 9	106
16.15	116
17. 9	95
17.15	86
18. 9	96
18.16	94
19.10	96
19.14	116
20. 9	126
20.15	146
21. 9	110
21.14	140
22.10	144
22.16	134
23.10	126
23.15	106
24. 9	90
24.15	80
25.10	72
25.16	76
26.10	76
26.14	82
28.10	92
29. 9	83
Feb.	
1.10	96
1.16	98
2. 9	88
4.16	270
5.10	262
5.15	236
6. 9	206
6.16	228
7.10	162
7.16	180

Cumulus.

M.S.T.	Direction.
Feb.	
d h	°
8. 9	138
8.15	126
9.10	108
9.14	116
10. 9	106
10.13	116
11. 9	96
12. 9	96
12.15	93
13. 9	86
13.15	82
14.10	100
14.14	113
16. 9	70
16.15	88
17. 9	84
17.13	80
18. 9	90
18.15	86
19. 9	70
19.16	72
20. 9	76
20.16	74
21. 9	80
21.16	74
22.10	80
22.16	116
23.14	94
26. 9	116
26.15	130
28. 9	78
28.15	72
March	
1. 9	84
1.16	78
2.10	96
4.10	93
4.15	83
5. 9	81
5.15	75
6. 9	109
6.15	126
8. 9	127
8.16	123
9. 9	123
9.14	107
11.10	147
12. 9	187
13. 9	30
14.10	107
14.15	98
15. 9	107
15.15	102
18. 9	110
19. 9	101
19.15	100
20. 9	87
20.15	80
21. 9	89
22. 9	239
22.15	226
23. 9	187
23.14	167
24. 9	127
25.15	108

DIRECTION of MOTION of the various Types of CLOUD—*concluded.*

Cumulus.

M.S.T.	Direction.
March	
d h	°
27.15	150
28.10	109
30.14	76
April	
2. 9	73
2.16	76
3.10	83
3.15	86
4. 9	70
4.16	66
5. 9	75
5.15	80
7.10	82
7.13	94
8. 9	86
8.15	77
9. 9	78
9.15	81
10. 9	86
10.16	88
11.16	108
12.10	156
13.14	160
16.11	90
16.16	96
18. 9	140
18.15	146
19. 9	126
19.15	120
20. 9	136
20.14	150
22.10	90
22.15	96
23.10	80
23.16	56
24. 9	76
24.12	78
24.16	74
26.10	126
26.15	132
29.10	53
29.15	62
30.10	68
30.14	66
May	
1.10	90
1.12	80
1.15	86
3. 9	80
3.16	76
4.10	90
4.14	96
5.11	140
6.10	115
6.15	96
7. 9	94
7.12	91
7.15	88
10.10	60
11. 9	323
11.12	305
11.14	306
14.10	60
14.15	68
15.12	56
15.16	62

M.S.T.	Direction.
May	
d h	°
17.10	26
17.16	36
18.11	36
20.10	26
20.15	36
21. 9	60
21.12	60
21.15	52
22.12	66
22.16	70
23.10	84
23.12	78
23.16	74
25.10	84
25.14	82
27. 9	74
28.10	74
28.12	78
28.15	75
29. 9	116
29.12	126
29.15	146
June	
1. 9	46
1.14	42
4.11	326
5.10	70
5.15	106
6.13	80
6.16	70
7.10	68
7.15	66
8. 9	46
8.14	42
10. 9	76
10.15	70
11. 9	96
11.15	86
12.11	90
12.15	84
13.10	94
13.15	96
14.12	175
14.15	183
15.14	16
17.10	51
17.15	60
18.10	60
18.12	64
18.15	58
19.11	60
19.13	66
20.16	54
21.10	66
21.13	72
21.16	74
22. 9	62
22.12	56
22.14	54
24. 9	115
24.15	118
25.11	72
27. 9	76
27.15	90
29.14	296

M.S.T.	Direction.
July	
d h	°
1.10	48
2.13	52
3. 9	66
3.14	76
4. 9	90
4.16	86
6.10	26
6.14	32
8. 9	62
8.16	62
9.10	64
9.12	60
9.16	66
10. 9	56
10.15	52
11.10	32
11.12	38
12.10	36
12.12	30
12.15	36
13.10	56
15.15	64
16.10	68
16.16	66
17. 9	70
17.12	72
18. 9	76
19.10	75
19.13	72
19.16	70
20. 9	80
22.12	356
23. 9	36
24.16	26
25.10	356
26. 9	42
26.15	55
29.10	66
31.10	26
Aug.	
2.10	55
2.12	58
3. 9	86
3.14	90
5.11	296
5.13	306
6. 9	26
6.12	32
6.15	36
7.12	16
7.15	22
8. 9	16
8.12	22
9.12	48
9.15	46
12.12	50
13. 9	50
13.12	46
13.15	46
14.11	46
14.15	50
16.14	42
17.10	60
17.14	56
19.10	54
19.12	56

M.S.T.	Direction.
Aug.	
d h	°
19.15	58
20. 9	66
20.13	64
21. 9	66
21.12	72
21.15	66
22.12	68
22.15	66
23.12	58
24. 9	68
24.14	66
27. 9	66
27.12	62
28.10	102
28.15	94
29. 9	90
30. 9	54
30.12	55
30.15	58
31. 9	56
31.12	66
Sept.	
2.11	100
2.13	116
3.11	46
3.13	50
4.12	36
5. 9	26
5.15	36
6. 9	46
6.12	42
6.15	36
7. 9	114
7.12	108
9. 9	68
9.12	66
9.15	64
10. 9	68
10.13	60
11. 9	126
11.12	122
11.15	110
12.11	14
13. 9	96
13.12	86
13.15	80
14. 9	90
14.12	98
14.14	100
16. 9	60
16.12	64
16.15	66
17. 9	75
18.12	22
18.15	16
19.12	40
19.15	36
20.12	46
20.15	50
21. 9	56
23.12	36
24. 9	38
25. 8	36
25.15	52
26.10	96
26.15	94

M.S.T.	Direction.
Sept.	
d h	°
27. 9	114
27.12	106
28. 9	56
28.11	54
28.14	58
30.10	90
30.12	92
Oct.	
1. 9	96
1.12	100
1.15	102
2. 9	84
2.12	86
2.15	80
3. 9	96
3.15	92
4. 9	82
4.12	95
4.15	92
5. 9	76
5.12	80
5.14	86
7.10	106
7.12	108
7.15	100
8. 9	82
8.12	86
9. 9	106
9.12	136
9.15	146
10. 9	236
10.12	230
10.15	236
12. 9	260
14.10	296
14.12	290
14.15	286
15. 9	96
18. 9	50
18.12	54
18.15	54
19.10	106
19.12	110
21. 9	90
21.12	110
22. 9	116
22.12	114
22.15	110
23. 9	78
23.12	88
23.15	84
24. 9	100
24.12	82
24.15	80
25. 9	82
25.12	80
25.15	84
26.10	106
26.12	100
26.14	96
28. 9	80
28.12	86
28.15	84
29. 9	80
29.12	86
29.15	80

M.S.T.	Direction.
Oct.	
d h	°
30. 9	100
30.12	112
30.15	106
31. 8	126
31.12	156
31.15	216
Nov.	
4. 9	90
4.12	92
4.15	88
5. 9	110
5.12	116
6.10	132
6.12	138
7. 9	94
7.12	100
7.15	96
8. 9	96
8.12	108
8.15	102
11. 9	116
11.12	122
11.15	110
12. 9	136
12.12	146
12.15	150
15. 9	68
15.15	90
16. 9	96
18. 9	86
18.12	80
19. 9	78
19.12	88
20. 9	60
20.12	66
21. 9	60
22. 9	100
22.12	76
22.15	26
25. 8	132
26. 9	126
27. 9	96
27.12	100
28. 9	112
28.12	122
28.15	116
29.12	126
29.15	146
30. 8	180
30.12	186
30.14	156
Dec.	
2. 9	90
3. 9	96
3.12	108
3.15	106
4. 9	100
4.12	96
5. 9	102
5.12	112
6. 9	96
6.12	92
6.15	86
7. 9	70

M.S.T.	Direction.
Dec.	
d h	°
7.12	86
7.14	92
9. 9	90
9.12	84
10. 9	96
10.12	102
11. 9	102
11.12	110
12. 9	96
12.12	126
13. 9	186
14. 9	104
14.12	120
16.10	116
17.12	126
18. 9	100
18.12	106
19. 9	90
20. 9	96
24.12	148
27. 9	201

Cumulo-Nimbus.

M.S.T.	Direction.
Jan.	
d h	°
4.15	80
8. 9	86
9.16	130
Feb.	
18. 9	96
23. 9	90
25. 9	122
25.16	106
March	
7. 9	133
7.15	126
12.15	192
16. 9	97
23.14	157
25.10	117
27.10	137
30. 9	87
April	
12.10	156
12.15	165
13. 9	166
15.16	111
16.15	96
18.15	146
25.12	126
25.16	126
May	
3.15	83
4.12	94
27.15	110

Cumulo-Nimbus.

M.S.T.	Direction.
June	
d h	°
4.14	96
6. 9	75
15.14	16
24.15	106
July	
4. 9	102
5.15	16
11.15	46
18.15	80
20.12	90
29.12	76
31.15	50
Sept.	
9. 9	72
16.10	68
19. 9	42
26.12	102
27.10	88
Oct.	
2.11	90
3.12	90
Nov.	
29. 9	122
Dec.	
17.12	126
24.12	148
27.13	236
28.12	327

Nimbus.

M.S.T.	Direction.
Jan.	
d h	°
9. 9	126
12. 9	102
31.16	6
Feb.	
4.10	330
March	
26.10	87
April	
6.10	69
6.14	70
10.16	95
12.16	200
13. 9	194

Nimbus.

M.S.T.	Direction.
April	
d h	°
17. 9	126
22.15	96
24. 9	93
24.16	74
25.13	141
26.10	153
29.10	72
29.14	80
30.10	76
30.16	74
May	
2.12	96
2.16	86
3.16	84
4.14	96
5.11	140
10.12	68
11.14	286
22.11	70
25.10	102
25.14	96
27. 9	74
June	
1.10	52
1.14	46
7.15	66
10. 9	96
10.15	96
11. 9	110
12.10	96
13.11	106
13.15	116
14.10	180
17.10	51
17.15	66
18.10	68
18.16	66
19.15	70
24.11	106
25.10	116
26.10	120
27.15	310
28.11	180
28.12	212
28.15	234
July	
1.12	54
3.12	72
5.14	10
8.10	66
10.13	66
15.12	70
16.11	72
17. 9	82
18.10	82
19. 9	84
20.12	96
23.11	62
26.15	62
27. 9	68
29.10	74
31. 9	26

M.S.T.	Direction.
Aug.	
d h	°
1.11	38
1.12	46
1.15	50
2.14	56
3. 9	96
8.14	32
16. 9	36
16.15	46
20.10	96
22. 9	56
23. 9	70
24.10	72
27.10	70
28.12	96
29.15	36
Sept.	
2.12	134
7.14	110
9.16	75
10.15	70
12.15	102
14.10	100
18. 9	42
21.12	32
21.14	36
23.10	26
23.15	30
25.12	46
27.15	110
Oct.	
5.10	90
15.15	30
16.12	56
21.10	96
21.15	100
31. 9	142
Nov.	
4. 9	100
5.15	22
6. 9	72
6.13	66
8.15	106
15.12	16
15.15	22
20.12	6
20.15	350
21.12	46
21.15	50
22.15	26
Dec.	
7. 9	80
17.12	126
18.15	110
20.15	100
27. 9	201
27.13	236
28.12	327

ABSTRACT of the PRINCIPAL CHANGES in the DIRECTION of the WIND, as derived from the RECORDS of the BECKLEY ANEMOGRAPH in the YEAR 1907.

Mauritius Standard Time. From	Mauritius Standard 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				
27.13½	27.15	E.S.E.	S.W.	10	
27.18½		S.W.	S.E.		8
28.10½		S.E.	E.		4
28.11½	28.12½	E.	W.	16	
29. 8½	29.11½	W.	N.W.	4	
29.12	29.15½	N.W.	W.S.W.		6
30.10		W.S.W.	N.N.W.	8	
30.10½		N.N.W.	W.N.W.		4
30.15		W.N.W.	S.		10
31.11	31.17½	S.	N.W.		20
February.					
1. 8½	1.10	N.W.	E.N.E.	10	
2.12½	2.13	E.N.E.	E.S.E.	4	
3.20½	3.20¾	E.S.E.	E.		2
3.21	3.22	E.	S.E.	4	
3.22½	4. 0	S.E.	E.S.E.		2
4. 1½	5. 0	E.S.E.	N.N.W.	20	
5. 0½	5. 1	N.N.W.	W.N.W.		4
5.10	5.13	W.N.W.	W.S.W.		4
5.17	5.17½	W.S.W.	W.	2	
5.21	5.22½	W.	N.E.	12	
6. 4	6. 6	N.E.	S.S.W.		18
6. 9	6. 9½	S.S.W.	N.	14	
6.10	6.15	N.	W.		8
6.16	6.17½	W.	N.N.W.	6	
7. 8	7.10	N.N.W.	N.E.	6	
7.12	7.17	N.N.E.	N.N.W.		4
8. 3	8. 3½	N.N.W.	N.N.E.	4	
8.14½	8.15	N.N.E.	E.N.E.	4	
27. 8½	27. 9	E.N.E.	E.S.E.	4	
27. 9½	27.15½	E.S.E.	W.S.W.		20
27.21½		W.S.W.	S.E.		10
March.					
8. 9½	8.11	E.N.E.	N.N.W.		8
8.11	8.13½	N.N.W.	E.N.E.	8	
11.10½	11.13	E.N.E.	N.N.W.		8
13. 8	13.10½	N.N.W.	E.N.E.	8	
16.10	16.14	E.N.E.	S.S.W.	12	
17. 9½	17.10½	S.S.W.	E.N.E.		12
17.12	17.15	E.N.E.	S.S.W.	12	
17.16½	17.17	S.S.W.	S.E.		6
March—*cont.*					
d h	d h				
18. 9½	18.12½	S.E.	N.E.		8
18.14½	18.15	N.E.	S.S.W.	14	
18.22	18.22½	S.S.W.	E.S.E.		8
21.14½	21.15½	E.N.E.	S.S.W.	12	
22. 9	22.10	S.S.W.	N.N.W.	12	
23. 9	23. 9½	N.N.W.	N.N.E.	4	
24.15	24.16	N.N.E.	E.S.E.	8	
24.22½	24.23	E.S.E.	E.N.E.		4
26. 3	26. 3½	E.N.E.	S.E.	6	
26.6½		S.E.	E.N.E.		6
26. 7½	26.10½	E.N.E.	E.S.E.	4	
26.12½	26.13	E.S.E.	N.N.E.		8
26.15	26.18½	N.N.E.	E.N.E.		28
26.20	26.20½	E.N.E.	E.	2	
27.10½	27.12½	E.	N.N.E.		6
28. 5	28. 5½	N.N.E.	E.	6	
28.13	28.13½	E.	W.N.W.	18	
28.16½	29.11	W.N.W.	E.S.E.		16
April.					
11. 7½	11. 8	E.S.E.	E.N.E.		4
11.16½	11.17	E.N.E.	N.N.E.		4
12.10	12.15	N.N.E.	N.W.b.N.		5
13.14½	13.16	N.W.b.N.	N.b.W.	2	
14.13	14.16	N.b.W.	W.N.W.		5
14.16½	14.17	W.N.W.	N.W.b.N.	3	
15. 0	15. 0½	N.W.b.N.	N.b.E.	4	
15.10		N.b.E.	W.N.W.		7
15.13½	15.15	W.N.W.	S.E.b.E.	17	
16. 9	16.12	S.E.b.E.	E.b.N.		4
17. 1	17. 6½	E.b.N.	N.b.E.		6
17. 7	17. 9½	N.b.E.	W.b.S.	22	
17. 9½	17.10	W.b.S.	S.S.W.		5
17.14½		S.S.W.	E.b.N.		11
18. 8½	18. 9	E.b.N.	N.E.b.N.		4
18.16	18.19	N.E.b.N.	S.E.b.S.	10	
19. 5	19. 9½	S.E.b.S.	N.E.b.E.		8
20.11	20.11½	N.E.b.E.	N.N.E.		3
21. 9	21.13	N.N.E.	N.E.b.E.	3	
22. 8	22.10	N.E.b.E.	E.b.S.	4	
22.10½	22.13	E.b.S.	N.N.E.		7
22.15½	22.16½	N.N.E.	E.N.E.	4	
23. 8½	23.12	E.N.E.	S.E.b.E.	5	
24.18	25.22	S.E.b.E.	N.N.W.		13
26. 2	26. 2½	N.N.W.	E.S.E.	12	
26. 7	26.17½	E.S.E.	S.E.b.E.		31
26.23	26.23½	S.E.b.E.	S.S.E.	3	
May.					
d h	d h				
5.11	5.12	E.b.S.	N.E.		5
6. 9	6.12	N.E.	E.	4	
8.11½		E.	N.W.	20	
9. 8	9. 9	N.W.	S.E.	16	
10.15½	11.11	S.E.	W.S.W.	10	
11.18½		W.S.W.	S.b.E.		7
12.17	12.21	S.b.E.	S.E.		3
15.6		S.E.	E.N.E.		6
15. 9	15.21	E.N.E.	S.E.	6	
16. 9	16.12	S.E.	N.W.	16	
16.12	16.23	N.W.	S.E.		16
18.11	18.12	S.E.	E.		4
18.13	18.15½	E.	W.b.S.	15	
18.21		W.b.S.	S.		7
19.11	19.16	S.	N.W.b.N.	13	
19.23½	20. 1	N.W.b.N.	S.E.	15	
29. 9	29.14	E.b.S.	N.E.		5
30. 7	30.13	N.E.	S.		20
30.17	30.17½	S.	W.N.W.	10	
31.3½		W.N.W.	S.		10
31.10½	31.11	S.	S.E.b.E.		5
June.					
3.11	3.13½	S.E.b.S.	W.b.N.	12	
3.14	3.16	W.b.N.	S.E.b.S.		12
4.12		S.E.b.S.	E.		5
4.12	4.14	E.	W.S.W.	14	
4.14½	4.16	W.S.W.	S.E.b.S.		9
5. 9	5.11½	S.E.b.S.	E.N.E.		7
5.23½		E.N.E.	E.S.E.	4	
10.11½	10.13½	E.S.E.	E.N.E.		4
10.14	10.16	E.N.E.	S.E.	6	
10.16	10.16½	S.E.	N.E.b.E.		7
10.16½	11. 2	N.E.b.E.	S.E.b.E.	6	
12. 4½	12. 5½	S.E.b.E.	N.E.b.E.		6
12. 5½	12. 7	N.E.b.E.	S.E.b.E.	6	
12.9½		S.E.b.E.	E.		3
14. 6½	14. 7½	E.	N.		8
15.11	15.18	N.	S.b.W.		15
16. 9	16.11	S.b.W.	S.E.b.E.		6
23. 9½	23.12	S.E.b.E.	E.		3
26.14	26.21	E.	S.E.		28
27. 9	27.13	S.E.	E.		4
28. 6	28.18	E.	W.		16
29. 2		W.	S.S.W.		6
29.10		S.S.W.	W.	6	
29.13	29.15	W.	W.S.W.		2
30.20½		W.S.W.	S.E.b.S.		9

ABSTRACT of the PRINCIPAL CHANGES in the DIRECTION of the WIND, as derived from the RECORDS of the BECKLEY ANEMOGRAPH in the YEAR 1907.—*concluded.*

Mauritius Standard Time. From	Mauritius Standard 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				
5.10	5.14	E.	W.b.S.	15	
5.14	5.19	W.b.S.	S.		7
6.10	6.12½	S.	S.E.b.S.		3
20.4	20. 4½	S.E.b.E.	S.S.W.	7	
20.5		S.S.W.	S.E.		6
22.11½	22.14	S.E.	N.W.b.W.	15	
22.14	22.15	N.W.b.W.	S.S.E.		13
24.11	24.11½	S.S.E.	E.		6
24.11½	24.14	E.	N.	24	
24.14	24.15	N.	S.S.E.		18
25. 9	25. 9½	S.S.E.	S.E.		2
30. 2	30.16	S.E.	S.	4	
31. 8	31.14	S.	S.E.		4
August.					
3.3		S.E.	E.		4
5.10	5.11	E.	N.W.		12
5.15½	5.17½	N.W.	S.W.		8
6. 0½	6. 1½	S.W.	S.E.b.S.		7
10.11	10.12½	S.E.b.S.	N.b.W.		14
10.13	10.15	N.b.W.	S.b.E.	16	
10.17		S.b.E.	E.b.N.		8
11. 2	11.11	E.b.N.	W.b.S.	16	
11.15	11.18	W.b.S.	S.		7
12. 5	12. 7½	S.	S.E.		4
18.14		E.	S.W.b.W.	13	
19. 1	19. 6	S.W.b.W.	S.E.		9
29. 9	29.10	S.E.	E.		4
29.12	29.14	E.	W.b.S.	15	
29.17		W.b.S.	S.E.		11
31. 9	31.10	E.S.E.	E.N.E.		4
31.10	31.20	E.N.E.	S.E.b.S.	7	
September.					
1. 8½	1.12½	S.E.b.S.	E.		5
1.12½	1.13½	E.	S.E.	4	
1.14	1.14½	S.E.	E.b.S.		3
1.15	1.17	E.b.S.	S.E.b.E.	2	
2. 9	2.11	S.E.b.E.	E.N.E.		5
2.15	2.16½	E.N.E.	W.S.W.		16
3.4		W.S.W.	S.		6
3.10	3.10½	S.	W.	8	
3.17½	3.20½	W.	S.	26	
Sept.—*cont.*					
d h	d h				
4.10	4.11	S.	N.W.	12	
4.11	4.11½	N.W.	S.S.E.		14
22.10	22.10½	S.E.	E.N.E.		6
22.11	22.13½	E.N.E.	W.N.W.	20	
22.14½	22.15	W.N.W.	S.E.		14
23.9		S.E.	E.		4
23. 9½	23.15	E.	S.E.	36	
24.9		S.E.	S.S.W.	6	
24.10	24.20	S.S.W.	E.S.E.	24	
26.12	26.12½	E.S.E.	W.N.W.	16	
26.17½		W.N.W.	S.E.		14
October.					
9. 7½	9.10	E.	N.E.		4
10. 7½	10.10	N.E.	N.W.		8
11.0		N.W.	S.		12
11.10	11.12	S.W.	N.W.	8	
11.17½		N.W.	N.E.	8	
12. 8½		N.E.	W.S.W.		14
13. 2½		W.S.W.	S.S.W.		4
13. 9½	13.10½	S.S.W.	N.W.	10	
13.10½	13.17½	N.W.	W.N.W.		34
13.18½	13.20½	W.N.W.	S.S.E.	20	
14.10	14.12½	S.S.E.	E.	26	
		E.	N.		8
14.13	14.13¼	N.	N.N.W.	30	
		N.N.W.	S.E.		10
14.13¼	14.15½	S.W.	W.	4	
14.17½		W.	S.S.E.		10
15.10½	15.11	S.S.E.	W.	10	
15.16½	15.17½	W.	S.S.E.		10
31. 9½	31.18	E.N.E.	S.S.W.		20
November.					
2. 6½	2.10	S.S.W.	E.S.E.		8
2.11½	2.12	E.S.E.	S.W.	10	
2.13½		S.W.	E.S.E.		10
5.17	5.18½	E.N.E.	S.S.W.	12	
6. 8	6.12	S.S.W.	E.N.E.		12
6.12½	6.13½	E.N.E.	S.S.W.	12	
7. 4½	7. 9	S.S.W.	E.N.E.		12
Nov.—*cont.*					
d h	d h				
13.11	13.15	N.E.	N.N.W.		6
13.15	13.16	N.N.W.	N.N.E.	4	
14.11½	14.15½	N.N.E.	E.S.E.		24
15.11½	15.12½	E.S.E.	S.S.E.	4	
15.13	15.13½	S.S.E.	E.		6
16.11	16.12	E.	S.S.W.	10	
16.14	16.15	S.S.W.	E.S.E.		8
16.16	16.17	E.S.E.	S.S.W.	8	
17.3½		S.S.W.	E.S.E.		8
21.11½	21.12½	E.S.E.	S.W.	10	
21.14½	21.15	S.W.	E.		12
25. 9½	25.10	E.	N.W.		12
26.8½		N.W.	N.N.E.	6	
26. 9½	26.10½	N.N.E.	N.N.W.		4
26.11½	26.13	N.N.W.	E.S.E.	12	
30. 9½	30.17	E.N.E.	W.		14
December.					
1. 7½	1.10	W.	N.W.		28
2. 7	2. 8	N.W.	E.S.E.	14	
2. 9½	2.10¾	E.S.E.	N.E.		4
2.11¾	2.13½	N.E.	W.S.W.	16	
2.16	2.23	W.S.W.	S.E.		10
3. 6½	3. 7½	S.E.	E.N.E.		6
5.15	5.16	E.N.E.	S.S.W.	12	
5.17½		S.S.W.	E.S.E.		8
12.11	12.16	E.N.E.	N.W.		10
13.14	13.14½	N.W.	E.N.E.	10	
13.15½	13.17	E.N.E.	E.S.E.		30
14.9		E.S.E.	E.N.E.		8
14.14	14.16	E.N.E.	S.S.E.	8	
15. 9½	15.13	S.S.E.	E.		38
15.17½		E.	S.W.	12	
15.21	15.22	S.W.	S.E.		14
15. 9	16.10½	S.E.	N.W.		16
16.11½	16.12	N.W.	N.E.	8	
16.13	16.14	N.E.	W.S.W.		14
16.15½	16.19	W.S.W.	E.	18	
21.13	21.13½	E.N.E.	N.N.E.		4
22.9½		N.N.E.	N.N.W.		4
24.0½		N.N.W.	N.E.	6	
24. 9	24.19½	N.E.	W.S.W.		14
24.19¾	24.20	W.S.W.	N.N.W.	8	
26. 1	26. 1½	N.N.W.	E.N.E.	8	
26. 3½	26.11	E.N.E.	W.N.W.		12
27.12	27.16	W.N.W.	S.W.		8
28. 3	28.12½	S.W.	S.W.		32
28.12½	28.19	S.W.	E.	18	

ACTINOMETRIC OBSERVATIONS made at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1907.

Mauritius Standard Time, 1907.				Observed Value of log $P\rho^2$	Observed Value of $\beta\delta$	Computed Value of x.	*Aspect of Sky.	Relative Humidity.
	d	h	m					%
January	16	8	39	0·9193	1·589	0·828	1	59·1
	16	12	9	0·9585	0·996	0·810	1	49·5
	19	8	30	0·8913	1·673	0·804	2	61·6
	19	12	24	0·9860	0·992	0·863	1	52·0
	22	8	31	0·9000	1·677	0·814	1	72·9
	24	12	25	1·0034	0·996	0·898	1	58·0
	24	15	21	0·9586	1·342	0·855	1	54·5
	29	8	32	0·9065	1·699	0·824	1	61·9
	31	8	51	0·9360	1·541	0·844	1	65·7
	31	13	22	1·0144	1·019	0·923	1	48·5
February	1	12	15	1·0222	0·992	0·938	1	46·0
	1	14	50	0·9885	1·312	0·898	1	49·4
	11	12	23	0·9804	0·999	0·852	1	48·5
	11	15	15	0·9737	1·320	0·876	1	51·3
	20	12	19	0·9780	1·005	0·849	1	46·9
	28	12	9	0·9724	1·017	0·839	1	48·7
	28	15	14	0·9403	1·355	0·830	2	50·9
March	2	9	13	0·9130	1·464	0·807	1	78·5
	11	8	29	0·9007	1·887	0·834	3	72·3
	11	12	12	0·9671	1·037	0·832	1	55·9
	12	12	21	0·9752	1·033	0·847	1	64·9
	13	8	31	0·9066	1·181	0·757	1	72·0
	13	12	31	0·9749	1·042	0·848	1	60·7
	14	8	34	0·9117	1·843	0·842	1	71·1
	14	12	11	0·9688	1·037	0·836	1	59·9
	18	8	32	0·9120	1·884	0·845	1	69·2
	19	11	50	0·9643	1·062	0·831	1	58·3
	19	15	13	0·9601	1·451	0·867	1	58·0
	21	8	24	0·8922	2·018	0·851	2	74·2
	22	8	28	0·8947	1·985	0·835	2	72·0
	22	12	11	0·9576	1·058	0·818	1	63·6
	23	11	55	0·9563	1·063	0·817	1	56·6
April	4	8	29	0·9099	2·025	0·853	2	68·4
	12	8	31	0·8860	2·057	0·833	2	75·9
	15	12	41	0·9592	1·150	0·834	1	64·2
	20	12	37	0·9482	1·167	0·818	2	71·0
	22	8	30	0·8906	2·153	0·843	2	75·3
	23	8	33	0·8828	2·114	0·834	2	77·0
	26	13	17	0·9426	1·248	0·821	2	74·9
	27	9	46	0·8951	1·503	0·789	2	58·5
	27	12	21	0·9639	1·193	0·847	2	55·3
	29	8	28	0·9006	2·267	0·859	2	68·0
May	4	8	23	0·8175	2·402	0·800	3	77·7
	6	8	23	0·8409	2·430	0·820	3	81·9
	6	12	5	0·9433	1·233	0·820	2	64·7
	7	8	28	0·8635	2·349	0·838	2	80·1
	8	8	24	0·8838	2·417	0·854	2	85·0
	8	12	13	0·9734	1·241	0·868	1	65·4
	11	8	37	0·8821	2·240	0·842	1	74·7
	11	12	13	0·9518	1·250	0·835	1	69·1
	13	8	29	0·8819	2·394	0·851	3	63·1
	13	12	13	0·9532	1·267	0·839	3	51·5
	21	12	12	0·9541	1·306	0·845	2	60·2
	22	8	25	0·8771	2·598	0·858	2	70·9
	22	12	50	0·9655	1·337	0·865	1	56·2
	25	8	18	0·8943	2·824	0·881	2	63·0
	28	12	27	0·9339	1·332	0·819	2	60·4
June	4	9	10	0·9216	2·030	0·865	1	75·3
	4	12	57	0·9635	1·382	0·866	1	58·0
	5	8	46	0·9174	2·381	0·880	1	73·6
	5	12	13	0·9727	1·353	0·877	1	61·8
	6	12	25	0·9597	1·360	0·858	1	63·1
	7	8	42	0·8967	2·456	0·866	1	71·9
	17	13	15	0·9313	1·436	0·827	3	58·3
	19	8	52	0·8902	2·382	0·857	2	68·7
	19	12	0	0·9500	1·381	0·847	1	61·0
	24	8	38	0·8454	2·642	0·837	3	73·7
	27	12	0	0·9308	1·373	0·819	2	71·6
June	29	8	24	0·8557	2·999	0·862	1	90·1
	29	12	3	0·9548	1·371	0·853	1	69·5
July	5	8	27	0·8456	2·927	0·852	1	88·5
	5	12	10	0·9418	1·368	0·834	1	71·9
	6	8	15	0·8117	3·290	0·847	1	77·9
	9	12	4	0·9382	1·361	0·828	2	53·5
	9	15	11	0·8595	2·032	0·806	1	61·1
	13	8	29	0·8245	2·835	0·833	3	60·1
	13	12	17	0·9478	1·327	0·838	2	54·8
	19	12	6	0·9609	1·328	0·857	1	57·6
	22	8	27	0·8594	2·811	0·856	1	84·8
	22	12	54	0·9527	1·336	0·846	1	63·7
	23	8	17	0·8326	3·080	0·850	3	68·7
	23	12	15	0·9587	1·311	0·852	2	58·9
	24	12	14	0·9581	1·305	0·851	1	57·2
	25	8	29	0·8738	2·716	0·861	2	64·4
August	3	8	26	0·8457	2·667	0·838	2	80·2
	3	12	55	0·9726	1·291	0·871	2	56·1
	5	8	31	0·8462	2·518	0·830	3	86·0
	5	12	8	0·9524	1·256	0·837	2	62·8
	7	8	28	0·8912	2·559	0·867	2	59·0
	7	12	0	0·9787	1·254	0·878	2	44·7
	8	8	29	0·8748	2·528	0·853	3	70·3
	10	8	31	0·8988	2·423	0·866	2	69·0
	10	12	13	0·9596	1·230	0·845	1	46·5
	20	8	33	0·8846	2·234	0·845	2	66·9
	20	12	15	0·9832	1·194	0·882	2	48·3
	21	12	12	0·9788	1·190	0·872	1	43·6
	21	15	27	0·9434	1·886	0·878	2	49·7
	22	12	11	0·9725	1·183	0·860	2	45·0
	22	15	40	0·9101	2·017	0·853	2	52·4
	29	8	27	0·8966	2·159	0·849	2	63·8
	30	8	31	0·9288	2·088	0·875	2	64·6
	30	12	9	0·9809	1·147	0·871	1	48·6
September	2	8	28	0·9166	2·093	0·864	2	59·0
	3	8	36	0·9153	1·966	0·854	2	63·6
	3	12	6	0·9602	1·131	0·833	3	42·5
	10	8	33	0·9208	1·910	0·856	2	49·5
	10	12	15	0·9799	1·108	0·865	1	43·2
	13	8	24	0·8779	1·985	0·819	3	67·9
	13	12	10	0·9492	1·096	0·810	2	49·2
	20	8	17	0·9088	1·976	0·839	2	47·7
	20	12	8	0·9853	1·074	0·871	1	40·0
	24	12	5	0·9672	1·064	0·836	2	52·2
	26	8	25	0·9180	1·809	0·846	2	55·8
October	8	12	14	0·9894	1·031	0·874	1	50·4
	8	15	32	0·9316	1·690	0·851	1	52·2
	9	8	28	0·9221	1·648	0·837	2	55·4
	9	12	0	0·9613	1·025	0·820	1	39·2
	14	8	19	0·9135	1·682	0·830	2	50·3
	21	11	57	0·9932	1·008	0·879	2	48·9
	28	15	22	0·9532	1·584	0·869	2	47·5
November	15	8	40	0·9278	1·419	0·820	2	56·5
	18	11	53	0·9871	0·997	0·865	1	45·7
	18	15	27	0·9253	1·557	0·832	1	46·0
	20	8	26	0·9054	1·517	0·803	1	54·8
	20	12	7	0·9593	0·997	0·812	1	46·9
	27	11	52	0·9742	0·993	0·839	1	46·9
	28	11	48	0·9815	0·995	0·854	1	43·8
	28	15	28	0·9570	1·516	0·869	1	43·6
December	6	11	57	0·9715	0·996	0·835	2	55·2
	7	11	52	0·9563	0·995	0·806	2	49·6
	10	11	50	0·9693	0·996	0·830	1	55·0
	11	11	47	0·9628	0·997	0·818	2	51·1
	12	11	49	0·9709	0·995	0·833	1	48·3
	18	11	54	0·9788	0·994	0·849	2	55·6
	30	9	52	0·9358	1·186	0·802	2	65·1

* In the column headed "Aspect of Sky" 1 indicates deep blue, 2 blue, 3 slight haze.

APPROXIMATE ALTITUDES OF RAINFALL STATIONS and the NAMES of OBSERVERS.

District.	Station.	Observer.	Altitude.	Reference Number of Station.
			Feet.	
Rivière du Rempart.	L'Union Ribet ...	J. Desplaces ...	200	1
	Bel Mont	R. de Chazal ...	50	2
	Poudre d'Or ...	R. de Chazal ...	20	3
	St. Antoine ...	R. de Chazal ...	50	4
	Mon Loisir (Est.) ...	E. Alizart ...	300	5
	Mon Loisir (R) ...	H. Rouillard ...	300	6
	Labourdonnais ...	A. Wiéhé ...	290	7
	Mon Choix... ...	W. P. Ebbels ...	700	8
	Beau Séjour ...	W. P. Ebbels ...	300	9
	Mont Piton ...	W. P. Ebbels ...	860	10
	Antoinette	G. Martin ...	640	11
	Mon Songe... ...	G. Martin ...	620	12
Pamplemousses.	Beau Plan	A. Lagesse ...	195	13
	The Observatory ...	T. F. Claxton ...	179	14
	Botanical Gardens...	P. Kœnig ...	255	15
	La Grande Rosalie ...	C. Montocchio ...	643	16
	California	C. Montocchio ...	840	17
Port Louis.	The Albion Dock ...	C. Sumeire, C.M.G.	18	18
Flacq.	La Grande Retraite..	M. Carosin ...	350	19
	Constance d'Arifat...	J. Rousset ...	100	20
	Union Régnard ...	G. Régnard ...	600	21
	Beau Champ ...	L. Bulau... ...	20	22
	Sans Souci	G. Dalais ...	910	23
	Olivia	H. Park	400	24
	Etoile	C. Barlow ...	400	25
	Belle Mare ...	L. Mayer ...	50	26
Moka.	Providence	L. D'Unienville ...	1,200	27
	Val Ory	G. Régnard ...	1,100	28
	The Bower	C. F. Shand ...	1,080	29
	Bon Air Estate ...	E. Blandin de Chalain.	1,050	30
	Alma, Verdun ...	Hon. H. Léclézio, C.M.G.	1,460	31
	Le Réduit Gardens...	P. Kœnig ...	1,000	32
	Nouvelle Découverte	P. Kœnig ...	1,300	33
Plaines Wilhems.	The Manse, Beau Bassin.	Rev. G. Mc Irvine M. A.	850	34
	Villa Fantaisie ...	H. Ducray ...	830	35
	Bagatelle	F. Byrd	1,300	36
	Trianon Estate ...	A. Carbonnel ...	950	37
	Salency (Rose Hill)..	A. de Maroussem..	923	38
	Mizpah	L. A. Gallet ...	1,000	39
	Military Camp	Capt. B. J. Buchanan, R.A.M.C.	1,370	40
	Bernica, (Upper Vacoas)	E. Mayer ...	1,615	41
	Réunion, (Vacoas)...	H. Robinson ...	1,420	42
	Curepipe Gardens ...	P. Kœnig ...	1,840	43
	Miremonde ...	H. Baissac ...	1,840	44
	Mare-aux-Vacoas ...	P. Lejuge de Segrais, A.M.I.C.E.	1,850	45
	La Marie Filter Bed.	P. Lejuge de Segrais, A.M.I.C.E.	1,400	46
	St. Joseph College ...	The Christian Brothers.	1,840	47
Black River.	La Ferme Bambous..	A. Vigoureux ...	1,700	48
Grand Port.	Bananes, Fressanges.	Ed. Lenferna ...	1,400	49
	Cluny Estate ...	J. Desplaces ...	1,000	50
	Cent Gaulettes ...	H. Chalain ...	800	51
	Ferney	A. Daniel ...	20	52
	Riche-en-Eau ...	A. Dalais ...	1,200	53
	Union Park Estate...	E. Lemaire ...	900	54
	Astrœa	H. Tyack ...	700	55
	Beau Vallon ...	L. Daruty de Grand Pré.	60	56
	Gros Bois	E. D'Unienville ...	500	57
	Union Vale... ...	E. Lemaire ...	1,200	58
Savanne.	Talbot Forest ...	P. Kœing ...	2,000	59
	Pont Colville ...	H. Colin... ...	1,400	60
	Colmar	A. Constantin ...	400	61
	Beau Bois	E. Labat ...	350	62
	St. Avold	T. W. Innis ...	600	63
	Britannia	T. W. Innis ...	730	64
	Bénarès (Residence).	A. Constantin ...	300	65
	Bénarès (Sugar House).	A. Constantin ...	200	66
	St. Aubin	E. Labat ...	300	67
	Union Bel Air ...	E. Mamet ...	90	68
	Terracine	O. Pilot	50	69

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1907.

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

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1907—*continued.*

Reference Number of Station.	September.		October.		November.		December.		Total Rainfall in 1907.		Average Annual Rainfall.		Number of years employed.		Greatest Daily Rainfall in the year 1907.	
	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	0·12	1	0·33	2	0·82	4	11·62	11	48·32	76	41·24	80	5	4	3·26	Dec. 26
2	0·24	1	0·16	1	0·59	4	5·74	10	33·23	64	57·12	117	12	10	2·15	April 25
3	0·15	2	0·20	2	0·61	3	7·18	14	31·93	93	50·22	116	21	19	1·93	March 26
4	0·12	3	0·20	3	0·82	9	6·10	16	34·70	112	47·81	124	39	6	2·40	March 25
5	1·08	12	1·84	13	1·81	12	11·01	24	49·42	198	61·95	214	4	4	4·26	March 26
6	0·53	4	0·37	2	0·83	5	8·62	17	43·04	116	48·70	136	15	15	2·53	April 26
7	0·37	5	0·66	8	1·14	5	11·47	17	49·36	122	61·13	130	45	46	3·28	April 25
8	0·50	3	0·84	4	3·62	8	19·73	16	68·85	105	67·11	108	7	7	4·71	April 26
9	1·35	5	0·84	9	1·39	9	12·18	19	48·86	145	73·93	151	27	7	3·24	April 26
10	1·46	5	1·05	8	3·74	10	18·50	21	67·65	145	75·81	151	7	7	4·20	April 26
11	1·14	7	1·39	12	1·93	7	14·60	23	56·91	157	67·47	162	17	15	3·56	April 25
12	2·03	10	2·24	13	2·55	15	14·91	24	61·77	180	73·26	166	25	25	3·75	March 26
13	0·56	5	0·73	10	1·61	12	15·37	22	48·65	140	49·18	112	22	19	2·98	April 17
14	0·47	9	0·67	12	1·34	15	12·11	23	44·19	172	47·95	199	33	33	3·38	Dec. 26
15	0·90	8	0·81	10	1·79	11	15·20	20	49·85	167	61·73	172	40	40	2·45	April 26
16	1·37	3	1·84	7	2·65	10	14·38	20	61·48	128	71·52	154	27	26	3·75	April 26
17	1·75	4	2·27	8	2·96	9	20·03	18	79·08	125	78·75	132	15	15	4·00	Dec. 2
18	0·35	2	0·08	3	1·04	4	8·97	12	37·92	62	38·17	69	12	12	3·00	March 19
19	0·84	5	1·81	6	2·10	8	18·35	20	69·16	132	80·60	134	6	2	5·28	March 26
20	1·15	4	1·72	5	1·14	6	15·18	19	68·39	127	65·41	146	22	12	4·87	March 27
21	1·27	10	1·60	14	3·26	12	16·25	23	72·52	180	73·48	178	31	22	4·52	March 27
22	0·82	13	1·02	12	0·99	10	12·72	20	45·91	173	52·83	146	18	7	2·65	Dec. 24
23	2·27	10	2·58	11	3·73	10	16·50	19	89·00	174	130·53	192	24	20	3·30	Feb. 5
24	0·71	6	1·23	10	2·05	10	13·36	19	55·26	147	70·60	178	11	11	2·42	April 17
25	0·80	9	1·30	7	1·36	10	15·18	20	68·68	161	101·92	194	26	23	2·21	March 27
26	1·34	6	0·92	3	1·71	5	6·55	14	42·46	99	...	...	1	1	3·46	March 26
27	4·65	5	1·45	4	2·69	11	23·65	25	98·00	143	132·27	177	3	3	4·30	Dec. 2
28	2·07	11	0·85	14	2·55	17	15·74	24	67·46	210	62·03	229	8	8	3·31	April 26
29	2·37	7	0·92	11	2·54	12	16·45	24	79·67	171	67·70	245	21	21	4·46	June 29
30	3·12	7	1·54	8	3·08	11	21·47	24	78·17	124	66·50	168	24	24	3·64	Feb. 27
31	3·00	14	1·61	15	2·67	17	24·24	26	96·77	220	125·22	252	35	32	3·72	Dec. 16
32	2·56	12	0·81	14	3·46	17	14·68	25	58·47	211	58·38	190	21	20	2·70	Feb. 27
33	...	...	...	...	...	...	19·50	19	...	...	...	...	...	...	2·72	Dec. 25
34	1·67	8	0·72	9	4·60	13	13·49	20	54·21	147	50·83	164	11	11	3·00	Dec. 24
35	1·74	7	1·22	7	4·22	12	13·28	23	58·08	146	51·35	144	11	11	3·26	Dec. 23

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1907—*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.	
36	3·71	19	9·06	16	8·76	17	15·03	18	11·19	19	9·91	19	1·99	13	0·12	5
37	1·75	8	7·87	11	6·86	12	10·07	15	4·51	13	6·16	15	0·54	8	0·00	0
38	1·87	12	9·28	18	7·16	13	11·27	17	4·61	11	6·22	14	0·98	6	0·00	0
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	3·20	17	8·70	16	9·09	17	12·93	18	5·19	17	8·14	21	2·58	20	0·22	4
41	3·76	27	9·75	23	5·62	21	16·35	24	5·74	22	7·45	21	2·58	20	0·53	12
42	4·07	17	9·39	17	6·97	17	17·99	18	5·93	17	8·09	22	3·00	17	0·69	7
43	3·28	14	7·57	17	7·93	16	15·92	20	8·25	21	10·68	19	4·63	18	0·75	9
44	3·74	16	11·23	15	9·09	12	18·02	20	9·99	21	14·75	22	5·59	19	1·18	7
45	3·06	16	11·71	19	9·23	18	16·43	23	9·17	23	21·52	21	7·58	21	1·09	10
46	2·36	19	8·81	21	6·37	16	15·32	19	6·47	20	9·41	21	3·15	18	0·56	12
47	3·71	20	12·30	20	9·89	19	20·30	22	10·17	21	15·78	25	7·05	21	0·96	8
48	2·32	9	3·55	7	8·58	14	9·86	11	4·97	9	2·87	9	0·15	3	0·00	0
49	3·80	14	10·04	15	12·60	16	17·32	19	10·99	20	17·50	22	7·23	17	1·53	8
50	3·21	20	9·42	20	9·24	16	14·33	18	10·07	21	14·82	20	6·21	21	1·08	8
51	3·02	17	8·97	17	8·15	22	16·11	20	9·70	22	13·88	22	4·30	19	1·27	8
52	2·04	9	3·73	13	7·63	17	13·31	15	5·10	12	11·20	16	1·96	12	1·09	3
53	2·49	19	4·48	14	9·11	22	12·26	19	7·21	20	9·05	16	2·11	15	1·34	9
54	3·54	19	8·58	22	8·73	20	13·02	20	8·25	22	13·84	21	5·04	18	1·29	8
55	3·27	8	7·36	14	7·41	16	11·53	18	3·84	8	9·77	18	3·93	11	0·77	3
56	1·35	9	3·68	11	5·39	14	9·17	16	4·89	19	9·93	22	1·83	14	1·57	5
57	2·79	11	5·58	20	4·18	17	8·35	18	7·57	17	10·60	22	2·02	14	1·30	4
58	1·17	7	4·78	16	3·59	9	7·03	16	4·30	14	8·62	17	1·33	10	1·06	4
59	2·81	22	10·53	20	9·35	21	13·83	20	11·18	22	14·78	25	8·67	24	0·73	7
60	3·04	21	9·20	17	7·88	21	14·91	20	10·34	20	16·86	20	6·28	20	1·15	10
61	2·58	13	5·14	15	3·58	17	11·54	19	9·12	18	10·94	22	3·42	15	2·26	5
62	3·08	14	6·35	18	5·85	17	10·51	20	10·83	22	10·30	19	5·30	19	2·62	10
63	2·77	17	6·60	16	4·43	12	12·43	18	9·03	18	14·87	21	5·75	20	1·75	5
64	3·07	17	6·22	19	5·62	15	11·60	22	10·04	19	10·39	21	4·43	13	1·81	4
65	1·94	17	4·66	16	2·41	15	9·41	18	9·00	19	10·70	21	2·72	16	1·83	5
66	1·64	13	4·46	16	2·70	14	9·06	18	8·16	21	8·73	20	1·75	15	1·22	5
67	3·48	12	3·39	19	3·66	16	9·66	19	9·93	18	9·01	18	1·92	16	1·00	8
68	2·87	6	5·57	14	4·94	7	9·93	19	9·21	17	9·18	16	2·30	7	0·68	2
69	1·83	7	2·30	12	3·81	13	7·42	12	12·14	15	7·42	17	1·05	7	0·59	3

RAINFALL at VARIOUS STATIONS in MAURITIUS during the YEAR 1907—*concluded.*

Reference Number of Station.	September.		October.		November.		December.		Total Rainfall in 1907.		Average Annual Rainfall.		Number of years employed.		Greatest Daily Rainfall in the year 1907.	
	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.	
36	3·35	12	0·78	11	4·97	12	20·26	20	89·13	181	79·52	195	2	2	4·87	Dec. 14
37	1·09	6	0·38	4	3·21	10	17·15	19	59·59	121	63·10	179	41	39	3·15	Dec. 5
38	1·18	5	0·46	3	60·7	12	17·88	19	66·98	130	57·65	134	10	9	3·63	Dec. 24
39	...	...	...	...	...	...	15·59	15	...	...	...	...	...	...	2·43	Dec. 15
40	3·05	9	1·12	9	6·01	13	26·34	20	87·57	181	86·93	224	7	7	3·95	Dec. 29
41	3·65	17	1·16	21	4·67	23	27·30	28	88·56	259	90·34	279	7	4	4·75	April 27
42	3·81	13	1·04	15	6·39	19	28·54	23	95·91	202	88·25	225	30	27	5·21	Dec. 16
43	4·88	13	1·33	15	7·96	11	18·39	20	91·57	193	123·02	267	24	24	3·63	Feb. 4
44	6·00	11	1·61	10	8·95	15	18·82	25	108·97	193	118·26	210	2	2	4·82	Feb. 3
45	4·95	14	3·13	11	3·90	15	20·42	21	112·19	212	137·19	244	19	18	2·73	Dec. 17
46	3·58	13	1·24	13	4·93	14	18·22	22	80·42	208	86·96	208	2	1	3·10	Dec. 29
47	5·96	15	1·80	18	9·25	18	20·23	28	117·40	235	...	...	1	1	3·60	Feb. 4
48	1·47	5	0·49	7	2·22	11	15·68	16	52·16	101	51·13	98	3	3	2·60	April 16
49	5·44	16	9·49	10	4·21	10	16·88	25	117·03	192	145·02	198	6	6	3·47	June 10
50	4·12	12	3·52	10	2·77	9	17·48	27	96·27	202	142·91	239	44	44	3·42	June 16
51	3·16	13	3·59	16	4·61	15	23·29	24	100·05	215	134·77	233	27	6	5·22	Dec. 2
52	1·60	6	1·39	8	1·92	10	19·24	19	70·21	140	91·34	180	30	30	3·32	Dec. 26
53	1·98	16	2·38	16	1·95	12	13·06	22	67·42	200	90·29	232	30	26	2·12	Dec. 2
54	3·92	17	1·58	14	2·40	13	18·82	25	89·01	219	120·53	234	14	14	3·96	Dec. 16
55	2·54	5	3·44	10	3·67	8	21·63	21	79·16	140	104·69	213	26	22	3·00	Dec. 17 & 20
56	1·34	7	0·70	6	1·19	8	13·50	21	54·54	152	63·23	201	43	42	3·69	June 1
57	3·52	9	1·36	9	1·63	10	14·08	18	62·98	169	96·72	200	44	44	3·08	Dec. 18
58	2·70	9	0·85	11	0·31	6	10·17	18	45·91	137	68·34	161	4	3	2·00	June 1
59	4·15	15	0·82	8	2·01	10	15·73	22	94·59	216	...	...	1	1	3·55	Feb. 14
60	6·06	14	1·63	10	3·75	11	21·08	24	102·18	208	...	...	1	1	3·72	Dec. 17
61	2·63	13	1·89	11	1·35	11	11·95	21	66·40	180	93·46	194	36	36	3·03	Dec. 17
62	2·52	13	1·84	12	2·30	9	16·97	18	78·47	191	106·73	198	11	11	2·72	May 27
63	3·41	12	0·86	6	1·63	6	14·66	18	78·19	169	...	...	1	1	3·37	Dec. 20
64	2·96	9	2·11	8	1·26	7	14·21	20	73·72	174	99·42	183	22	10	2·79	Dec. 16
65	2·24	11	1·52	12	1·34	8	11·22	19	58·99	177	71·30	184	22	21	3·12	Dec. 17
66	1·53	11	1·17	10	1·16	9	9·32	19	50·90	171	70·91	165	16	15	2·60	April 18
67	1·89	9	1·56	11	1·05	9	10·28	17	56·83	172	80·77	211	40	40	2·67	May 27
68	1·78	5	0·50	2	0·95	5	7·96	15	55·87	115	75·76	153	39	39	2·50	March 24
69	1·13	6	0·72	6	0·46	7	8·68	15	47·55	120	59·52	131	19	18	3·47	May 28

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APPENDIX 1.

CYCLONES

IN THE

SOUTH INDIAN OCEAN

DURING THE YEAR

1907.

APPENDIX 1.

CYCLONES

IN THE

SOUTH INDIAN OCEAN

DURING THE YEAR

1907.

During the year 1907 eight cyclones were reported in the South Indian Ocean. The tracks of four of them have been determined as follows. (*See* Plate 12.):—

Number of Cyclone.	Date 1907.		Position of Centre at noon. Latitude (South).	Position of Centre at noon. Longitude (East).	Distance travelled in 24 hours.	Number of Cyclone.	Date 1907.		Position of Centre at noon. Latitude (South).	Position of Centre at noon. Longitude (East).	Distance travelled in 24 hours.
			°	°	Miles.				°	°	Miles.
1	February ...	2	15·0	61·8	194	5	May ...	10	17·4	64·0	104†
		3	17·7	59·5	196				19·0*	63·3	110†
		4	20·8	58·4	213			11	20·5	64·4	103†
		5	24·3	59·0	317				21·7*	65·7	
		6	29·0	61·7							
2	March ...	4	15·5	61·4	229	8	December...	20	18·8	52·0	151
		5	16·6	57·6	201			21	21·3	52·1	114
		6	18·0	54·4	215			22	22·6	53·6	111
		7	19·6	51·0	128			23	23·2	55·5	116
		8	20·6	49·0	79			24	23·8	57·5	
		9	21·1	47·7	90						
		8(a)	21·9	50·2	80						
		9(a)	23·0	51·0							

* Position at midnight.
† Distance travelled in 12 hours.
(a) Southern branch.

Cyclones Nos. 3 and 4, on April 4–7 and April 24–27, passed to the North and North-West of Mauritius. Cyclone No. 6 passed within a few miles to the South of Aldabra Island on November 2, and Cyclone No. 7 passed to the East of Rodrigues on December 20 The tracks of these cyclones have not been determined, owing to want of observations.

The weather in the South Indian Ocean during the passage of these cyclones is indicated in the following tables.

Cyclone No. 1.

The centre of the first cyclone passed about 50 miles to the East of the Royal Alfred Observatory in the forenoon of February 4, and was encountered at sea by the S. S. "Cluny Castle", the S. S. "Waifara", the bark "Chala" and the Schooner "Albertinus".

February 1.

Number of Vessel in Register.	Position at noon.		Barometric Pressure.			Maximum Temperature. (Fah).	Wind Direction and Force.			Remarks.
	Lat. (S.)	Long. (E.)	9 h.	Noon.	15 h.		9 h.	Noon.	15 h.	
	°	°	ins.	ins.	ins.	°				
14154	19	58½	...	29·87	...	...	S.	...	S.S.E.	c.f.
14156	22½	64½	...	...	...	...	...	N.E. (6)	...	Terrible confused sea.
14157	23½	72½	...	30·08	...	...	N.E. (2)	...	E. (2)	c.f.
14158	11	71½	...	29·98	...	...	N.N.W.	...	N.E.	c.p.
14155	24½	61½	...	29·99	...	...	N.E.	...	S.E.	...
14161	7½	61½	...	29·78	...	...	W.N.W.(2)	...	W.S.W. (2)	ct. swell W. by N.: c.f. swell N.W.
14182	19	54½	...	...	...	...	E.N.E. (2)	...	E.S.E. (4)	c.f. : o.c.q.r.
Mauritius...	...		29·89	29·90	29·91	89	N.E.b.E. (1)	E.N.E. (1)	E.N.E. (1)	f.
Bourbon ...	...		...	29·90	...	...	...	N. (0)	...	c.f.
Rodrigues	...		29·99	...	30·01	86	E. (1)	...	E.N.E. (1)	c.f. : b: slight sea.

February 2.

14156	21½	62½	...	30·13	...	...	E.N.E.	*	E.	nasty sea.
14157	23	70	...	30·02	...	...	...	E.S.E.	...	c.f.
14158	12½	70½	...	29·98	...	...	...	N.E.	...	c.f. moderate sea.
14155	23	61	...	29·99	...	...	N.W.	*	E.	c.f.
14161	8	63	...	29·80	...	...	W.	var.	N.W.	c.f. : o.r.q.
14182	18	55	...	...	...	...	E.S.E. (5) veering to S.S.E. (5)			c. moderate sea.
Mauritius...	...		29·88	29·89	29·90	89	E.S.E. (2)	E.b.N. (2)	E.S.E. (2)	c. : f. c.
Bourbon ...	...		...	29·90	...	...	...	E. (1)	...	c.f.
Rodrigues	...		29·97	...	30·00	85	E. (2)	...	E. (2)	c.f. : o.r.:slight sea.

* Wind veered.

February 3.

Number of Vessel in Register.	Position at noon. Lat. (S.)	Position at noon. Long. (E.)	Barometric Pressure. 9 h.	Barometric Pressure. Noon.	Barometric Pressure. 15 h.	Maximum Temperature. (Fah).	Wind Direction and Force. 9 h.	Wind Direction and Force. Noon.	Wind Direction and Force. 15 h.	Remarks.
	°	°	ins.	ins.	ins.	°				
14156	21	59½	...	30·01	29·38	...	...	E.b.S. (6)	E. (9)	o.u. very high sea. 20h. bar. 29·28 ins.
14157	21	67	...	30·01	...	...	...	E.S.E. (6)	...	c.f. moderate sea.
14158	13	69½	...	30·00	...	...	E. (4)	...	E.S.E. (4)	b. : c. : c.f.
14155	21	57	...	29·89	...	...	E. (5)	E.S.E. (5)	E.S.E. (9)	o.u. : o.q. : o.r.q. heavy sea. Bar. fell to 29·10 ins. at midnight.
14161	9	64	...	29·88	...	...	N.W.b.W.*	N.E.b.N.**	W.	c.f. sea calm.
14182	17	56	...	...	29·71	...	S. (5)	*	W. (5)	c.f. moderate to rough sea.
Mauritius... ...			29·84	29·82	...	85	E.S.E. (2)	S.E. (3)	S.E.b.E. (3)	c.f : o.q. o.q.r.
Bourbon			...	29·87	...	...	...	S.E.b.E. (2)	...	f.
Rodrigues ...			29·95	...	29·97	82	E.N.E. (3).	...	E. (4)	o.r. : o.r. sea rough.

February 4.

14152	21	55½	...	29·89	...	...	S.E. (4)**	N. (4)	...	c.f. swell from E. and S.E.
14153	22½	52½	...	29·85	...	...	N.E. (4)	*	S.E. (4)	c.f. swell from S. to E.
14156	†	...	28·78	29·38	...	...	E. (12)	...	W. (12)	hurricane terrific sea.
14157	20	63	...	29·86	...	...	E.N.E. (6)	E.N.E. (6)	N.E.**	o. l. to west. high confused sea.
14158	15	68	...	30·03	...	...	E.S.E.	var.	E.S.E.	c.f.
14155	20½	58½	28·74	28·04	28·54	...	S.E.*	W.S.W.*	W.	In centre of storm at noon.
14161	9½	64	...	29·88	...	...	var.	var.	W. (4)	c.f. : c. : b.
14182	16	60	29·78	...	...	...	W*	N.	...	c. heavy sea.
Mauritius... ...			29·38	29·50	29·62	81	S.b.W. (5)	W.S.W. (5)	W. (5)	o.p.q. o.p.l.
Bourbon			...	29·81	...	...	...	N.N.W. (2)	...	Sea falling. Weather improving rapidly.
Rodrigues ...			29·98	...	30·02	84	N.E. (5)	...	N.E. (4)	o.r. : c.f.:slight sea.

February 5.

14153	20½	56½	...	29·89	...	...	S. (2)*	W. (2)*	N.W. (2)	c.f.
14156	20½	58½	...	29·98	...	...	...	N.N.W. (2)	...	...
14157	20	60	...	...	...	...	...	N.	...	o.r.q. : t-sm.q.r.: o.r.
14158	16	67	...	30·06	...	...	E.S.E.	...	S.E.	c.f. sea calm.
Waipara	27½	66	...	...	29·80	...	...	...	N.E. (6)	Strong gale in evening. Bar. 29·62 ins. at midnight.
Mauritius... ...			29·85	29·88	29·88	85	W.b.N. (2)	W.N.W. (2)	W.S.W. (2)	o.p.l.t. : c.f.
Bourbon			...	29·86	...	...	...	W.S.W. (3)	...	f.
Rodrigues ...			30·04	...	30·06	84	N.N.E. (4)	...	N.N.E. (4)	c.f. : f. slight sea.

† about 5 miles off Southern Point.
* indicates that the wind veered *i.e.* changed clockwise.
** indicates that the wind backed, *i.e.* changed counter-clockwise.

February 6.

Number of Vessel in Register.	Position at noon.		Barometric pressure.			Maximum Temperature. (Fah).	Wind Direction and Force.			Remarks.
	Lat. (S.)	Long. (E.)	9 h.	Noon.	15 h.		9 h.	Noon.	15 h.	
	°	°	ins.	ins.	ins.	°				
14156	21	58	...	30·08	...	...	...	N.N.W. (1)	...	Terrible sea.
14157	20	60	...	29·99	...	...	...	N.W. (1)	calm	c.f.
14155	21	59	...	29·79	...	...	...	N.W. (1)	calm	...
14161	14	62½	...	29·91	...	...	E.S.E.	...	S.E.	c.f. S.E. swell.
14182	16½	61½	...	30·06	...	...	...	E.N.E.	...	c. S.W. swell.
Waipara	27½	64	29·76	...	...	...	N.W.b.W.	...	...	Squally : heavy cross swell. Gale at 4 a.m. Strong wind 10 a.m.
Mauritius...		...	29·76	29·97	29·98	87	S.W.b.S. (1)	N.W. (1)	W.N.W. (1)	o.p.l.t. : c. : c.f.
Bourbon ...		...	...	29·95	...	...	...	N.N.W. (1)	...	f.
Rodrigues		...	30·08	...	30·10	84	E. (2)	...	N.E.	b. : f. slight sea.

Cyclone No. 2.

The centre of the second cyclone passed over Mananzary on March 8 and was encountered at sea by the Schooners " Louis Alfred " and " Nonna Adèle ".

The track of this cyclone, as deduced from the above observations, differs somewhat from that published on page 14 of the *Annual Report* which was determined from fewer observations.

From the fact that at Mananzary the wind first veered from South to W.S.W. in the morning of March 8, it would appear that the centre of the cyclone was then to the South of the parallel of latitude running through Mananzary. In the afternoon of the same day, however, the wind backed rapidly through South to East and the barometer fell to 28·ins.74, indicating that the centre passed within a few miles to the North of that Station. But the wind at Stations South of Mananzary remained at South or S. W. until March 10.

At Loholoka only, about 70 miles to the South of Mananzary, the wind reached S. E. by the 9th. after which no observations from this station are available.

The observations tend to show that on striking Madagascar a second centre formed and passed to the North of Mananzary, the primary centre passing to the West.

March 4.

Number of Vessel in Register.	Position at noon.		Barometric Pressure.			Maximum Temperature. (Fah).	Wind Direction and Force.			Remarks.
	Lat. (S.)	Long. (E.)	9 h.	Noon.	15 h.		9 h.	Noon.	15 h.	
	°	°	ins.	ins.	ins.	°				
14170	17	59½	...	...	...	...	S.E. (5)	*	S.S.E. (6)	Sky red to Westward at sunset.
14168	15	52½	...	29·91	...	...	...	S.E. (4)	...	Fine : c. moderate sea.
14206	28½	58	...	30·12	...	...	...	E. (2)	...	c.f.
14194	16	58	...	30·00	...	...	S.E. (4)	*	S.S.W. (6)	c.f. moderate sea.
Mauritius...		...	29·95	29·95	29·95	85	E.S.E. (2)	E.b.N. (2)	E. (2)	c.f. : o.
Bourbon ...		...	...	29·94	...	...	...	N.E.b.E. (1)	...	c.
Rodrigues		...	30·02	...	30·03	85	E. (2)	...	E.N.E.	c.f. : c.f. slight sea.

* Wind veered.

March 5.

Number of Vessel in Register.	Position at noon.		Barometric Pressure.			Maximum Temperature. (Fah).	Wind Direction and Force.			Remarks.
	Lat. (S.)	Long. (E.)	9 h.	Noon.	15 h.		9 h.	Noon.	15 h.	
	°	°	ins.	ins.	ins.	°				
14170	17	59½	...	...	...	...	S.S.E.	**	N.E.	ins. 5 a.m. hurricane. Bar. 29·41 : ran to S.W. at noon under fore-top-sail. Bar. rose at 2 p.m.
14168	18	55	...	29·94	...	...	...	S.E. (4-5)	...	Fine. : c. rough sea.
14206	30	59	...	30·17	...	...	E. (2)	*	S.E. (5)	Fine. : c.
14194	15	60	...	29·94	...	...	S.S.W. (6)	*	N. (5)	c.q. heavy swell : c.f.
Mauritius...		...	29·96	29·96	29·93	85	E.b.S. (2)	E. (3)	E.S.E. (3)	o. : c. : o.p.
Bourbon ...		...	...	29·94	...	...	...	E. (1)	...	b. sea rising.
Rodrigues		...	30·06	...	30·07	87	E.N.E. (3)	...	E.N.E.	c.f. : b.

March 6.

14170	18	59	...	29·99	...	...	...	E.N.E. (5)	...	c. High cross sea from N.E.—S.E.
14206	32½	58½	...	30·18	...	...	S.E. (4)	S.E. (6)	...	o. High sea.
14194	15	60½	...	30·00	...	...	N.N.E. (1)	...	E. (1)	f. sea calm.
Vatomandry		...	...	...	...	...	N.	*	E.	...
Fort Dauphin		...	...	...	...	...	...	N.E.	...	o.
Mananzary		...	...	...	...	...	...	N.N.E.	...	f. high sea.
Farafangana		...	...	...	...	...	...	N.E.	...	f.
Mauritius...		...	29·93	29·94	29·93	85	E.N.E. (2)	N.E.b.E. (3)	N.E.b.N. (3)	o.p. : c. : o.p.
Bourbon ...		...	...	29·85	...	...	...	S.E. (2)	...	o.q.r.
Rodrigues		...	30·07	...	30·07	87	E.N.E. (3)	...	N.E.	b. : b.

March 7.

14170	18	59	...	30·05	...	...		E.N.E. to E.		c.f.q.
14206	36	59	...	30·20	...	...	E.S.E. (7)	...	E.S.E. (5)	c. high sea. : c. sea moderating.
14194	14	60½	...	30·02	...	...		N.N.E. to E. (2)		f. calm sea.
Vatomandry		...	...	...	...	...	S.	*	S.W.	o.r.
Mananzary		...	...	...	...	...	...	S.	...	o. sea confused.
Antanarivo		...	...	...	...	...	S.E.*	W.S.W.	...	...
Farafangana		...	...	...	...	...	...	S.E.	...	o.r. very high sea.
Mauritius...		...	29·92	29·94	29·95	83	E.N.E. (2)	E.N.E. (2)	E.N.E. (1)	o.p. : c.p. : c. : o.
Bourbon ...		...	...	29·99	...	...	...	N.E. (3)	...	o. : weather improving rapidly.
Rodrigues		...	30·04	...	30·07	88	S.E. (1)	...	E.S.E.	f. : b.

* Wind veered. ** Wind backed.

March 8.

Number of Vessel in Register.	Position at noon. Lat. (S.)	Position at noon. Long. (E.)	Barometric Pressure. 9 h.	Barometric Pressure. Noon.	Barometric Pressure. 15 h.	Maximum Temperature. (Fah).	Wind Direction and Force. 9 h.	Wind Direction and Force. Noon.	Wind Direction and Force. 15 h.	Remarks.
	°	°	ins.	ins.	ins.	°				
14170	17	59	...	...	...	...	...	E.	...	f. calm sea.
14206	37½	62	...	30·09	...	...	E.N.E. (6)	...	N.E. (6)	c. high sea from S.E.
14194	12½	59½	...	30·04	...	...	...	...	...	f. sea calm.
Vatomandry ...			...	...	...	...	...	N.	...	o.r. : c.f.
Mananzary ...			...	...	28·74	...	W.S.W.	**	E.	Wind backed rapidly at 4 p.m. after a short lull, wind decreasing from 50 to 15 miles per hour.
Ambohinihaonani			...	...	...	...	W.S.W.	**	E.	...
Farafangana ...			...	...	...	...	...	S.	...	...
Fort Dauphin ...			...	...	...	...	...	S.W.	...	o. : sea choppy.
Mauritius... ...			29·98	29·98	29·96	84	N.E.b.E. (1)	N.E.b.N. (1)	E.N.E. (2)	o. :c.p.:o.r.: c. : c.p.
Bourbon			...	29·92	...	...	...	N.E. (2)	...	c.p. Sea falling.
Rodrigues ...			30·06	...	30·08	88	E.S.E. (1)	...	E.	b.

March 9.

14170	16½	59	...	...	...	...	E.	...	S.E.	f.
14241	15	58	...	...	...	...	...	E.N.E.	...	f. sea calm.
Vatomandry ...			...	rising	...	...	N.	*	N.E.	Weather improving.
Mananzary ...			...	...	...	...	N.E. (2)	...	E. (2)	o. sea confused.
Loholoka... ...			...	rising	...	...	...	S.E.	...	...
Fianarantsoa ...			...	...	...	...	...	S.	...	...
Fort Dauphin ...			...	...	...	...	...	S.	...	Weather becoming stormy.
Mauritius... ...			29·99	30·00	...	85	E.N.E. (1)	N.E.b.E. (1)	N.E. (1)	c.f.
Bourbon			...	29·97	...	...	...	E. (1)	...	f.
Rodrigues ...			30·07	...	30·08	87	E. (2)	...	E.S.E.	f.

March 10.

Mananzary ...			...	...	...	...	...	E.N.E. (2)	...	...
Farafangana ...			...	...	...	...	...	S.	...	heavy rain.
Tananarive ...			...	...	...	...	...	N. (2)	...	...
Fort Dauphin ...			...	...	...	...	...	S.	...	heavy rain.
Mauritius... ...			...	29·95	...	85	N.E. (1)	N.E.b.E. (1)	E.N.E. (2)	c.p. : c.f.
Bourbon			...	29·95	...	...	...	E.b.N. (1)	...	f. slight sea.
Rodrigues ...			30·02	...	30·01	86	E. (1)	...	E.N.E.	f. : f. slight sea.

* Wind veered. ** Wind backed.

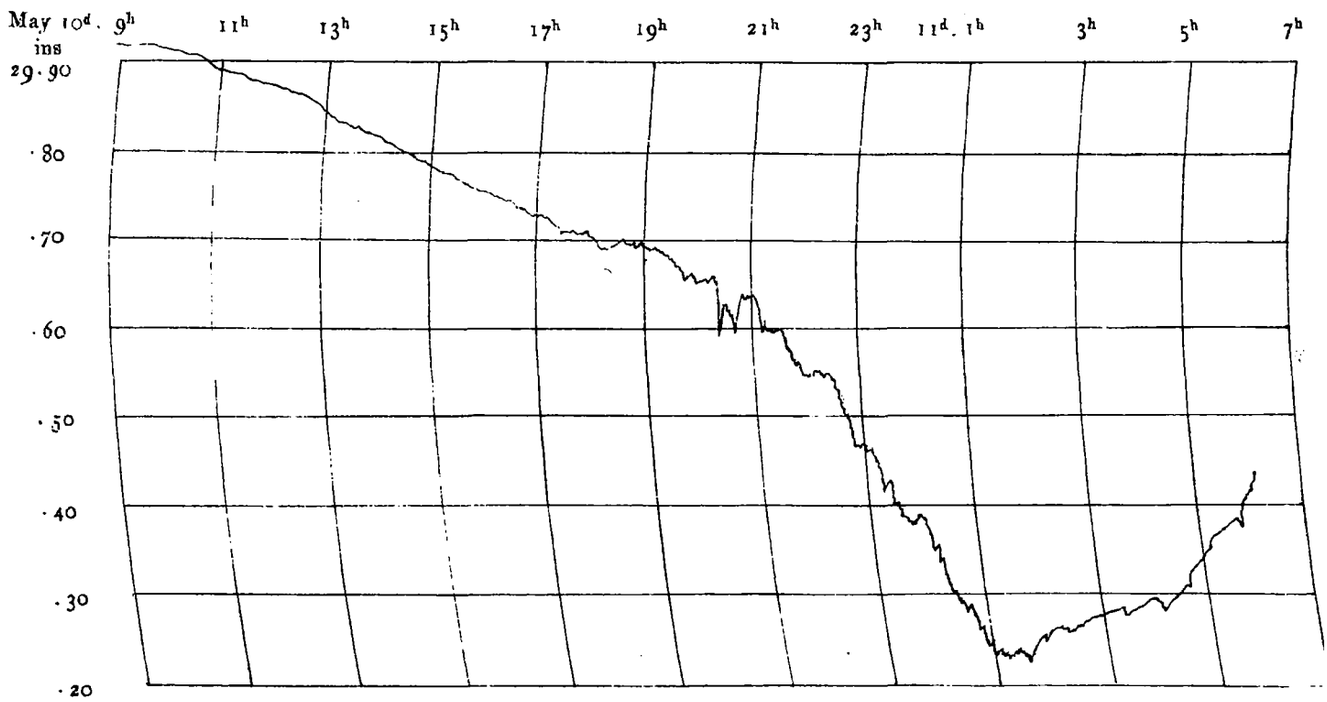
Cyclone No. 5.

The centre of the fifth cyclone passed a few miles to the West of Rodrigues on the morning of May 11. It was not encountered at sea by any vessel trading with Mauritius.

On May 9 at *Mauritius* the weather was fine till evening, then overcast; much cirro-stratus during the day. The wind was light from N. W. till 8^h a.m. when it chopped to S. E. (through North and East); its velocity increased to 19 miles per hour at 2^h p.m. The barometer fell steadily from 29$^{\cdot ins.}$959 at midnight to 29$^{\cdot ins.}$885 at the following midnight, having fallen from 30$^{\cdot ins.}$029 at 6^h a.m. on the 7th. At *Rodrigues* the weather was fine in morning, but generally overcast with frequent rain in afternoon; slight sea. The wind backed from E.S.E. at 9^h a.m. to East at 3^h p.m. increasing in force. The barometer, which had fallen from 30$^{\cdot ins.}$090 at 9^h a.m. on the 7th. to 30$^{\cdot ins.}$025 at 9^h a.m. on the 9th. continued to fall, reaching 29$^{\cdot ins.}$943 at 9^h a.m. on the 10th.

On the 10th. at *Mauritius* the weather was cloudy with much cirro-stratus till evening and then finer. The wind was moderate to light from S.E. till $3\frac{1}{2}^h$ p.m. when it chopped to S.S.E. The barometer continued to fall, reaching $29^{\cdot ins.}798$ at 6^h p.m. At *Rodrigues* the weather was threatening with occasional rain in morning, becoming worse in the afternoon with every appearance of a cyclone. The wind remained from E.S.E., increasing considerably in force, with frequent rain squalls in afternoon. The barometer fell to $29^{\cdot ins.}819$ at 3^h p.m. and continued to fall until 2^h a.m. on the 11th.

The record of the Richard barograph (set to sea-level) is reproduced below.



On the 11th. at *Mauritius* the weather was fine. The wind veered from S.S.E. at 2^h a.m. to W.S.W. at 11^h a.m., and then chopped to S.b.E. at 7^h p.m. The barometer rose steadily from $29^{\cdot ins.}804$ at midnight to $29^{\cdot ins.}870$ at 6^h p.m. At *Rodrigues* the full force of the cyclone was felt. The wind backed from N.N.W. at midnight to West at 1^h 30^m a.m. and S.W. at 6^h a.m. then veered to N.W. at 9^h a.m. and to W. at 3^h p.m. It travelled 1060 miles in the 24 hours ending 9^h a.m. on the 11th. The barometer rose from $29^{\cdot ins.}25$ at 2^h a.m. to $29^{\cdot ins.}74$ at 9^h a.m. and $29^{\cdot ins.}88$ at 3^h p.m. A terrific sea is reported.

Cyclone No. 8.

The eighth cyclone was apparently of small diameter and passed about 200 miles to the West and South of Reunion. There are no sea observations to show that a cyclone occurred from December 20 to 24 ; but from the weather at Reunion and Mauritius there can be little doubt that a cyclone travelled approximately as indicated on Plate 12. It could not have travelled further South or the "Wanderer" would have experienced much worse weather and

stronger winds ; as it was she had very little bad weather, being to the South and West of the centre.

December 20.

Number of Vessel in Register.	Position at noon.		Barometric Pressure.			Maximum Temperature. (Fah).	Wind Direction and Force.			Remarks.
	Lat. (S.)	Long. (E.)	9 h.	Noon.	15 h.		9 h.	Noon.	15 h.	
	°	°	ins.	ins.	ins.	°				
14265	12	50	...	30·02	...	...		Variable.		c.b. : p. t-sm. : b.
Mauritius... ...			29·93	29·92	29·92	85	E.b.S. (2)	E.N.E. (1)	E.N.E. (2)	c. : c.p. : c. : o.d.
Bourbon			29·91	...	29·90	84	S.E. (1)	...	N.E.b.E.	o. : c.f.
Rodrigues ...			29·99	...	29·99	86	S.S.E. (1)	...	S.S.E.	f. : p.

December 21.

14265	16½	52	...	30·07	...	...	S.E. (2)	...	N.W. (2)	f. : sea calm.
Mauritius... ...			29·92	29·88	29·83	84	E.b.N. (1)	E.b.N. (1)	N.E.b.N. (1)	o.r. : c. : c.f.
Bourbon			29·88	...	29·88	84	S.E.b.E. (1)	...	N.E.	c.f. : f.
Rodrigues ...			30·01	...	30·00	86	E.N.E. (2)	...	E.N.E.	f. : c.

December 22.

14265	18½	54	...	30·00	...	...		Variable.		o. throughout: t-sm. in evening.
14268	25	44	...	29·85	...	...	S.S.W. (3)	*	S.W. (5)	f. : c.q. rough sea.
Mauritius... ...			29·85	29·85	29·85	89	N.E.b.N. (1)	N.b.W. (2)	N. (2)	c.f. : o.l.t.
Bourbon			29·81	...	29·82	84	W.N.W. (3)	...	E.	c.f. : r. t-sm.
Rodrigues ...			30·00	...	29·98	85	N.E. (1)	...	W.N.W.	f. : f.

December 23.

14268	25½	48	...	29·89	...	...	S.S.W. (5)	**	S. (2)	f. rough sea.
Mauritius... ...			29·87	29·87	29·87	88	N.N.W. (1)	N.N.W. (2)	N. (2)	o.r.l.t. : o.p. : o. : c.f.l.
Bourbon			29·84	...	29·85	86	N.W.	...	W.N.W.	c.f.
Rodrigues ...			30·03	...	30·02	85	N.N.E. (1)	...	N.E.	f. : b.

* Wind veered. ** Wind backed.

December 24.

Number of Vessel in Register.	Position at noon.		Barometric Pressure.			Maximum Temperature. (Fah).	Wind Direction and Force.			Remarks.
	Lat. (S.)	Long. (E.)	9 h.	Noon.	15 h.		9 h.	Noon.	15 h.	
14268	23	51	...	29·92	...	...	S.S.E.	**	S.E.	f. moderate swell : c. heavy swell.
Mauritius... ...			29·88	29·89	29·90	87	N.E. (1)	N.b.E. (2)	N. (2)	c.p.l.t. : c.p.t. : c.t. : o.r.l.t.
Bourbon			29·87	...	29·92	83	E. (2)	...	N.N.W.	c.f. : o.
Rodrigues ...			30·04	...	30·02	86	E.N.E. (1)	...	E.N.E.	f. : f.

Index to vessels.

Number of Vessel in Register.	Ship's Name.	Number of Vessel in Register.	Ship's Name.	Number of Vessel in Register.	Ship's Name.	Number of Vessel in Register.	Ship's Name.
14152	S.S. Clan Sutherland	14156	Bark Chala	14168	S.S. Gordon Castle	14206	Bark C. J. S.
14153	S.S. Cluny Castle	14157	Bark C. J. S.	14170	Sch. Louis Alfred	14241	S.S. Alavi
14154	S.S. Itola	14158	Schr. Nonna Adèle	14182	Bark William Turner	14265	S.S. Secunder
14155	Sch. Albertinus	14161	Bark Crystal	14194	Sch. Nonna Adèle	14268	S.S. Wanderer

* Wind veered.

APPENDIX 2.

RESULTS

OF

SEISMOLOGICAL OBSERVATIONS.

1907.

APPENDIX 2.

RESULTS

OF

SEISMOLOGICAL OBSERVATIONS,

1907.

INTRODUCTION.

The Seismograph 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.

The instrument is mounted in the north-east corner of the Magnet Basement, on a concrete pillar which rises from a foundation of the same material, 8½ feet deep and 4 feet square. The pillar, which projects 4 feet above the floor, is 6 feet high and tapers from 4 feet square at the base to 1½ feet at the top. It is not in contact with the earth on any side, so that the instrument records the movements of the concrete foundation, the base of which is 10½ feet below the level of the floor and 22½ feet below the level of the ground.

On 1902, February 7, a second pendulum was added to the instrument 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.

On removal to the Magnet Basement on 1905, August 17, the instrument was orientated with its booms in an east-west direction, so that this component is now registered by the new pendulum, and the north-south component by the original pendulum.

For further particulars concerning the working of the instrument, reference may be made to the volumes for 1902 and 1903 (Appendix).

Particulars of 55 earthquakes registered during the year 1907 are given on pp. (lxxvii) and (lxxviii), and the seismograms of those recorded on January 4 and April 15 are reproduced on Plate 13.

In addition to earthquake movements, the instrument records gradual changes of level, for the study of which the ordinates of the seismograms are measured at every hour of the day (commencing at Mauritius mean midnight). The mean hourly ordinates in each month,

the progressive change, and daily ranges of level from January 1 to November 21 were converted into angular measure by the formulæ :—

$$a = \cdot 0422/\tau^2 - \cdot 098 \text{ for the original pendulum,}$$
$$a = \cdot 0544/\tau^2 - \cdot 122 \text{ for the new pendulum,}$$

where a is the angular value (in seconds) of 1 division of the scale and τ the time of vibration of the pendulum (in minutes).

These formulæ were deduced from simultaneous observations of the time of vibration and scale value at varying sensibilities, made in the month of August.

On November 23 new, truly spherical agate cups were fitted to the booms of the Seismograph, in place of the original cups which were conical. The bearing surfaces of the new cups are portions of spheres of 3 millimetres radius.

With the new cups the booms appear to vibrate more freely and the logarithmic decrement is less.

The following formulæ, for converting scale divisions into angular measure were deduced from observations made on November 26, 27, 29 and December 2.

$$\delta = \cdot 0528/\tau^2 - \cdot 000095/\tau^4 - \cdot 2398 \text{ for the original pendulum,}$$
$$\delta = \cdot 0520/\tau^2 - \cdot 000107/\tau^4 - \cdot 0786 \text{ for the new pendulum.}$$

The observed times of vibration of the booms during the year 1907 were as follows :—

Date, 1907.	Pendulum.		Date, 1907.	Pendulum.		Date, 1907.	Pendulum.	
	Original.	New.		Original.	New.		Original.	New.
January.	mins.	mins.	May.	mins.	mins.	September.	mins.	mins.
10	0·29	...	7	...	0·26	4	0·31	...
11	·32	0·25	8	0·35	...	19	·33	0·43
18	·29	·28	10	·27	·22	27	·36	·40
23	·26	...	13	...	·28	30	·37	·43
30	·35	·26	28	·30	·25			
February.			29	·35	·27	October.		
11	·28	·24	June.			1	·30	·43
March.			2	·35	...	4	·40	·40
3	·24	...	4	·31	·22	8	·33	·27
5	·30	·30	7	·36	·32	21	·27	·23
7	·34	...	11	·29	·30	27	·28	...
9	·44	·30				29	...	·33
12	·45	·32	July.			31	·26	·24
13	·45	·35	11	·28	·22			
18	·39	·30	13	·34	·29	November.		
23	·37	·22	18	·26	·32	2	·32	...
28	·30	·26	22	...	·29	6	·36	·35
April.			24	·31	·25	11	·29	·24
6	·40	·26	26	·26	·32	13	·38	·28
13	·39	...				18	·30	·21
16	·40	·30	August.			20	·34	·39
20	·38	...	1	...	·33	30	·42	·39
21	...	·36	2	·28	·21			
26	·29	·28	7	...	·33			
27	...	·27	10	·23	·26	December.		
28	·36	...	16	·30	·25	3	·38	...
May.			18	·30	·22	9	·33	...
3	·31	·33	23	·33	·32	18	·29	·18
4	·33	·27	24	·27	·26	26	·31	...
			26	·26	...	28	·29	·19

It will be seen that the time of vibration of both booms varies considerably. It is the practice, therefore, to determine it at short intervals, and use mean values for periods during which the variations are relatively small. It should be mentioned that the probable error of observation amounts to $0^{m}\cdot02$ when the time of vibration is small, or when the pendulum comes to rest too quickly, also the experiments indicate that the relation between α and τ depends to a small extent on the position of the pivot in the agate cup, owing to imperfections in the form of one or other, or both. For these reasons the adopted scale values may *occasionally differ by 10 per cent. from the true value. This will affect all absolute values ;* but in the case of mean monthly diurnal inequalities, the form of the curve, if not the amplitude, may be considered correct. For various reasons, in some months, only a few days' registers were available, the monthly means are therefore not strictly comparable, apart from errors in the adopted scale values.

The diurnal range of level given on pp. (lxxix)–(lxxxi) refers to the civil day, and the progressive change of level is the excess of the ordinate at 24^{h} over the ordinate at 0^{h} on each day, the sign (+) indicating a tilt to north or east, and the sign (−) a tilt to south or west.

The gradual tilting of the pillar is shown graphically on Plate 14. The diagram has been constructed by plotting the accumulated changes of level as rectangular co-ordinates from a fixed point. *It is, however, incomplete, owing to the loss of register mentioned above.* The total change of level during the year was probably greater than that shown in the diagram. The relatively rapid tilt to South after the introduction of new cups is worthy of note and suggests the possibility of instrumental change.

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

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

where γ is the correction to be applied to the mean monthly values at the hour h, and x_0, x_{24}, the mean monthly values at the hours 0^{h} and 24^{h} respectively. Accidental irregularities have been eliminated by hand smoothing.

The monthly mean north and east components of tilt are shown graphically on Plates 15 and 15 (bis), and to illustrate more clearly the nature of the diurnal tilting of the pillar, vector diagrams for each month, showing the amount and direction of tilt from hour to hour, have been constructed by plotting the north and east components as rectangular co-ordinates from a fixed point (Plate 16).

The vector diagrams are widely different in different months ; though in each month a tilt to north or north-east from about 7^{h} to 17^{h}, and thence back to south or south-east, is shown, the movement being most rapid during the hottest hours of the day. The variation in the form of the curves from month to month is due partly to the large variation in the number of days' registers available in different months. For this reason the results for the year 1907 have not been subjected to Harmonic Analysis.

LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1907.

Slide Register Number.	Mauritius Register Number.	Date, 1907.	Time of Commencement of Preliminary Tremors (G.C.T.)	Time of Commencement of 2nd Phase (G.C.T.)	Time of Commencement of Large Waves (G.C.T.)	Time of Maximum (G.C.T.)	Time of End of Disturbance (G.C.T.)	Amplitude. Mills.	Amplitude. Arc.	Component.	Remarks.
		d.	h. m.	h. m.	h. m.	h. m.	h. m.		″		
1327	618	Jan. ... 2	11.25·0	...	...	11.29·0	11.36·5	1·0	0·2	N. - S.	Very slight in E.-W.
			...	11·55·5	...	12. 3·0	...	2·0	0·5		
1328	619	„ 4	5.31·5	...	5.38·0	5.55·0	7.32·5	4·0	1·2	E. - W.	*See* Plate III.
	620	„ 15	17.29·0	...	...	17.31·4	17.38·5	...	...	E. - W.	End in N.-S. uncertain.
			17.30·0	...	17.34·5	17.37·5	?	...	...	N. - S.	
	621	„ 27	18.13·2	...	...	18.14·2	18.15·7	...	...	N. - S.	Two independent thickenings of the trace.
			18.17·2	...	18.18·7	18.19·2	18.22·7	...	...		
	622	Feb.... 3	20.16·8	...	...	20.17·8	20.23·8	...	...	E. - W.	Commencement sudden in each component.
			20.27·8	...	20.29·8	20.30·3	20.35·3	...	...	N. - S.	
1347	623	„ 24	7.28·0	...	7.32·0	7.34·0	7.43·0	1·0	0·3	E. - W.	
	624	March 13	1.27·3	...	1.44·3	1.47·3	1.51·3	...	...	N. - S.	
	625	„ 18	18.48·0	...	...	18.49·0	18.51·0	0·6	0·2	N. - S.	Seismic origin doubtful.
	626	„ 24	0.25·5	...	...	...	0.27·5	1·0	0·2	E. - W.	
			0.25·5	...	0.26·5	0.27·5	0.33·0	1·0	0·4	N. - S.	
	627	„ 24	11.39·5	...	...	...	12.56·5	...	...	N. - S.	
	628	„ 24	19.26·5	...	...	19.27·5	19·29·5	1·0	0·2	E. - W.	Thickening of the trace.
			19.23·5	...	...	...	19.29·5	0·5	0·2	N. - S.	
1351	629	„ 29	21. 5·7	...	...	21.11·2	21.38·7	...	...	N. - S.	Several slight thickenings of trace.
	630	„ 31	8.43·1	...	...	...	8.56·1	...	...	N. - S.	Slight thickenings of trace.
1352	631	„ 31	22±	...	22.48·0	22.53·5	23. 3±	0·5	0·2	E. - W.	
			22.11·5	...	22.13·0	22.17·0	?	1·0	0·2	N. - S.	
	632	April... 4	0.39·2	...	...	0.40·0	1. 0±	1·0	0·2	E. - W.	
			0.37·5	...	...	0.41·0	0.47·0	0·5	0·2	N. - S.	
	633	„ 13	19.40·8	...	...	...	20.15·8	0·5	0·2	N. - S.	Irregular movements which do not appear to be of seismic origin.
1361	634	„ 15	6.27·5	...	6.45·0	6.46·0	7. 8·5	2·0	0·6	E. - W.	*See* Plate III.
1363			...	...	7.32·5	7.49·0	9.12·0	3·0	0·9		
	635	„ 19	...	...	...	0.35·9	...	?	...	E. - W.	Faint in E.-W.
			0.14·4	...	...	0.24·4	0.29·4	1·5	0·6	N. - S.	
	636	„ 23	10. 5·5	...	...	10. 7·0	10. 8·5	1·0	0·3	E. - W.	
			10. 7·5	...	...	...	10. 9·0	1·5	0·4	N. - S.	
	637	„ 24	12. 1·0	...	...	12. 3·0	12. 9·0	1·5	0·6	N. - S.	
	638	„ 25	20.44·5	...	...	...	20.52·0	...	...	N. - S.	Isolated thickenings.
			21.10·5	...	...	...	21.20·5	...	...		
	639	May... 2	18.11·0	...	...	18.14·0	18·19·0	1·0	0·3	N. - S.	
	640	„ 5	3.10·3	...	...	3.13·8	3.16·3	0·5	0·2	E. - W.	
	641	„ 6	1.46·8	...	...	1.47·8	1.51·3	0·5	0·2	N. - S.	
1386	642	„ 11	20.39·6	...	...	20.40·1	20.44·1	0·5	0·2	E. - W.	
1389	643	„ 25	12.10·9	12.26·4	12.31·4	12.34·9	12.53·4	0·5	0·2	E. - W.	A max in 2nd Phase at $12^h 28^m 9$.
	644	„ 31	13.10·5	13.12·5	13.17·5	13.19·5	13.54·5	...	...	N. - S.	indistinct in E.-W.
1390	645	June... 1	9.46·0	9.52·5	9.57·0	10. 3·0	10.42·0	...	...	E. - W.	
			9.42·5	...	9.52·5	9.54·5	9.43·0	1·5	0·5	N. - S.	

LIST of EARTHQUAKES recorded at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1907.—*concluded.*

Shide Register Number.	Mauritius Register Number.	Date, 1907.	Time of Commencement of Preliminary Tremors (G.C.T.)	Time of Commencement of 2nd Phase (G.C.T.)	Time of Commencement of Large Waves (G.C.T.)	Time of Maximum (G.C.T.)	Time of End of Disturbance (G.C.T.)	Amplitude. Mills.	Amplitude. Arc.	Component.	Remarks.
		d.	h. m.	h. m.	h. m.	h. m.	h. m.		″		
1393	646	June ... 5	...	...	4.38·0	4.44·0	5. 6·5	2·0	0·4	E. - W.	Register at beginning lost.
	647	„ 6	0.18·1	...	...	0.21·1	0.24·6	...	...	E. - W.	
			0.20·1	...	...	0.21·1	0.23·1	...	...	N. - S.	
1405	648	„ 25	18.16·0	...	...	18.16·5	19. 2·0	0·5	0·2	N. - S.	
	649	„ 29	6. 8·3	...	...	6.14·8	6.25·3	...	...	E. - W.	
1410	650	July ... 4	9.36·0	...	9.46·5	9.47·5	9.54·5	0·5	0·2	E. - W.	
1414	651	„ 9	19.16·7	...	19.32·7	19.36·2	19.53·7	0·5	0·2	E. - W.	
1419	652	„ 20	13.51·3	14. 0·8	14.20·3	14.23·8	14. ¾·	1·0	0·3	E. - W.	
			14. 0·8	...	...	14.11·8	...	...	...	N. - S.	
	653	„ 21	7. 4.0	...	...	...	7. 8·0	...	...	N. - S.	
1422	654	„ 29	1. 0·8	...	1.13·3	1.14·3	1.34·3	...	...	E. - W.	
			1. 0·8	...	...	...	1.51·3	...	...	N. - S.	
1424	655	„ 29	19.48·3	19.54·3	20. 1.3	20. 4·3	20.24·3	...	...	E. - W.	Very slight in N.-S.
1428	656	Aug. ... 5	6. 7·0	...	6.24·0	6.24·5	6.27·5	...	...	E. - W.	Not registered in N.-S.
		„ 5	7. 3·0	...	7. 7·0	7. 8·0	...	0·3	0·1	E. - W.	
			7. 3·0	...	7. 5·5	7. 8·5	7.10·0	0·3	0·1	N. - S.	
1431	657	„ 9	19.55·5	...	...	20. 3·5	20.16·5	...	...	E. - W.	Not registered in N.-S.
1433	658	„ 17	17.50·0	...	...	17.57·5	18. 5·5	...	...	N. - S.	Register lost in E.-W.
1452	659	Sep. ... 27	10. 7·4	...	...	...	10.17·4	...	...	E. - W.	Slight thickenings of the trace.
	660	Oct. ... 1	11.10·3	...	...	...	11.35·3	...	...	E. - W.	Not registered in N.-S.
1454	661	„ 4	10.45·0	...	...	10.50·0	10.59·0	0·5	0·2	N. - S.	Register lost in E.-W.
1460	662	„ 11	15. 9·5	...	15.28·5	15.32·0	...	...	...	E. - W.	
		„ 11	15. 9·5	...	15.26·0	15.33·5	...	...	...	N. - S.	
1463	663	„ 16	14.45·5	15.23·5	15.34·0	15.42·0	...	1·0	0·3	E. - W.	
			...	15.29·0	15.34·5	15.46·5	...	1·3	0·4	N. - S.	
	664	„ 17	4.31·0	...	...	...	4.34·0	...	...	N. - S.	Slight thickening of the trace.
1468	665	„ 21	...	...	...	6.44·0	...	...	...	N. - S.	Beginning lost.
	666	„ 26	18. 9·5	...	...	18.11·5	18.32·0	0·5	0·2	E. - W.	
		„ 26	18.10·0	...	...	18.11·5	...	0·5	0·2	N. - S.	
1475	667	„ 27	7.32·5	...	...	7.52·5	7.59·0	...	...	E. - W.	
		„ 27	7.32·5	...	...	7.52·5	7.59·0	...	...	N. - S.	
	668	Nov. ... 12	7.53·0	...	...	7.57·5	8. 2·0	...	...	N. - S.	
	669	„ 21	20.17·8	20.23·3	...	20.29·8	21.50·3	3·0	1·2	E. - W.	
		„ 21	20.18·8	20.22·3	...	20.24·3	...	3·5	1·2	N. - S.	
	670	„ 29	6.45·0	...	...	...	6.55·0	...	...	N. - S.	
	671	Dec. ... 3	4.55·9	...	...	...	5. 0·9	...	...	E. - W.	
1509	672	„ 15	17.58.5	18.11·0	18.15·0	18.17·0	18.37·0	1·0	0·3	N. - S.	Very slight in E.-W.

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.)

1907.

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	...	...	...	...	...	...	...	...	53	18	+ 35	+ 18	36	28	+ 25	− 14
2	...	...	...	...	24	40	− 6	+ 40	44	27	− 18	+ 27	14	42	+ 7	+ 42
3	...	...	...	...	18	40	− 18	+ 40	26	18	+ 9	+ 18	14	42	+ 7	− 42
4	...	...	...	...	48	70	− 48	+ 70	35	9	+ 18	+ 9	22	0	+ 14	0
5	9	70	0	− 70	36	30	− 36	+ 30	44	9	− 26	+ 9	28	14	+ 11	+ 14
6	26	14	+ 18	− 14	18	50	0	+ 50	18	45	− 18	+ 45	14	28	− 7	+ 28
7	26	0	+ 26	0	18	30	0	+ 30	35	36	+ 18	− 18	36	28	+ 36	+ 28
8	9	14	− 9	0	18	30	+ 12	+ 30	18	36	+ 18	− 36	32	42	+ 29	+ 42
9	9	14	0	− 14	...	...	...	...	...	...	...	...	14	28	0	0
10	9	14	+ 9	+ 14	48	40	+ 48	− 50	31	80	+ 29	+ 80	18	...	0	...
11	26	56	− 26	− 42	36	90	+ 30	+ 90	50	36	+ 50	+ 36	25	...	− 7	...
12	35	28	− 18	− 28	36	30	+ 30	− 20	31	9	+ 24	+ 9	18	42	− 7	− 42
13	35	14	− 9	− 14	54	20	+ 54	0	22	18	+ 17	+ 18	...	...	...	...
14	44	14	− 18	+ 14	18	40	0	+ 30	12	44	+ 2	+ 36	25	...	+ 14	...
15	26	70	0	− 42	30	100	+ 12	+ 100	...	...	...	...	18	16	0	+ 16
16	35	28	− 26	− 28	...	...	...	...	...	...	...	...	11	8	0	+ 8
17	...	70	...	− 70	...	...	...	...	7	27	− 3	+ 27	25	49	− 25	+ 41
18	79	42	+ 70	− 28	...	...	...	...	20	18	0	− 18	14	33	− 7	− 16
19	44	42	+ 26	− 28	...	...	...	...	31	9	+ 27	0	43	25	− 29	+ 16
20	...	14	...	+ 14	...	...	...	...	41	18	+ 37	0	40	25	+ 29	+ 25
21	35	14	+ 18	0	...	...	...	...	34	9	+ 24	0	36	25	+ 7	− 16
22	44	42	+ 18	+ 28	...	...	...	...	20	27	+ 3	+ 27	22	...	+ 14	...
23	62	28	+ 44	+ 28	...	...	...	...	17	36	+ 17	+ 36	18	...	+ 4	...
24	62	28	+ 44	− 28	18	45	+ 18	− 45	10	44	− 3	+ 45	40	...	+ 7	...
25	53	42	+ 18	+ 42	6	15	+ 6	− 15	10	18	− 3	+ 18	7	...	+ 4	...
26	70	14	+ 62	− 14	12	0	+ 12	0	31	36	− 31	+ 36	18	...	− 18	...
27	35	14	+ 9	+ 14	18	30	+ 18	− 30	10	18	− 10	0	11	14	− 7	0
28	17	42	+ 9	− 42	6	15	+ 6	0	24	27	− 24	+ 18	29	112	+ 22	− 112
29	17	14	+ 9	− 14					7	18	− 7	+ 18	14	...	+ 4	...
30	35	70	− 35	− 28					10	18	+ 3	+ 18	7	42	0	+ 42
31	26	70	− 26	0					34	9	+ 31	− 9				
Mean	34·7	32·7	+ 8·5	− 13·0	25·7	39·7	+ 7·7	+ 19·5	25·9	25·6	+ 7·8	+ 16·7	22·4	32·1	+ 4·4	+ 3·0
Since Jan. 5	...	...	+ 213	− 350	...	...	+ 351	0	...	...	+ 570	+ 467	...	...	+ 697	+ 527

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.)—(*continued*).

1907.

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	25	26	+ 10	− 13	38	0	− 38	0	...	...	...	...	22	15	+ 22	− 8
2	35	13	− 35	+ 13	10	0	− 5	0	...	...	...	...	22	15	+ 15	+ 8
3	20	26	− 20	− 26	29	0	− 19	0	11	36	− 11	+ 36	...	...	...	...
4	25	26	− 25	+ 13	14	18	− 14	0	11	9	0	0	44	23	+ 22	0
5	50	52	− 50	+ 52	58	18	− 48	− 9	22	18	− 11	0	30	31	+ 15	+ 8
6	30	13	− 30	+ 13	38	27	+ 14	0	...	18	...	+ 18	30	15	+ 15	+ 15
7	65	39	− 65	+ 39	10	27	− 5	− 9	...	36	...	+ 18	...	...	...	...
8	45	26	− 45	+ 26	19	27	− 19	+ 27	...	45	...	0	...	...	...	...
9	55	39	− 50	+ 13	29	27	− 10	− 18	11	27	+ 5	0	8	23	+ 30	+ 15
10	20	65	− 20	− 13	14	...	+ 10	...	22	27	+ 16	+ 18	30	46	+ 30	+ 46
11	35	13	− 25	0	24	...	+ 10	...	22	18	+ 16	+ 18	...	...	...	...
12	...	26	...	+ 13	...	...	...	...	16	18	+ 11	+ 18	...	...	...	...
13	...	52	...	− 52	...	...	...	...	32	45	+ 22	+ 45	...	...	...	...
14	45	104	+ 35	−104	...	...	...	...	27	54	+ 16	− 9	...	...	...	...
15	15	39	+ 15	− 26	...	...	...	...	16	27	+ 16	0	...	...	...	...
16	35	26	+ 30	+ 13	...	...	...	...	11	18	+ 11	+ 18	...	...	...	...
17	25	13	+ 15	+ 13	...	...	...	...	22	18	+ 11	+ 18	...	...	...	...
18	15	78	+ 5	+ 78	...	...	...	...	22	18	+ 22	+ 18	...	...	...	...
19	20	52	+ 20	+ 52	...	...	...	...	43	27	+ 11	+ 18	...	...	...	...
20	10	39	0	+ 26	...	...	...	...	32	9	+ 22	+ 9	30	54	+ 12	− 54
21	25	39	+ 25	+ 39	...	...	...	...	54	18	+ 54	+ 9	48	23	+ 30	− 23
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	43	27	+ 43	0	...	...	...	...
24	...	...	...	...	...	...	...	...	...	36	...	+ 36	36	38	+ 18	+ 38
25	...	...	...	...	...	...	...	...	43	27	+ 32	− 9	...	...	...	...
26	35	13	+ 15	+ 13	...	...	...	...	32	27	+ 22	− 18	...	...	...	...
27	25	65	+ 5	+ 65	...	...	...	...	11	18	+ 11	0	...	...	...	...
28	15	26	− 15	+ 13	...	...	...	...	76	18	+ 76	+ 9	...	...	...	...
29	25	26	0	+ 26	29	45	− 33	+ 45	43	27	+ 43	+ 18	...	...	...	...
30	25	52	− 15	+ 52	...	...	...	...	22	18	+ 22	0	...	...	...	...
31	35	39	− 35	+ 39					...	...	...	...	...	...	...	...
Mean	30·2	38·0	−10·2	+14·0	26·0	15·7	−13·1	+ 3·6	28·0	25·3	+20·0	+10·7	30·0	28·3	+20·9	+ 5·3
Since Jan. 5	...	...	+442	+904	...	...	+285	+940	...	...	+745	+1228	...	...	+954	+1281

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.)—(*concluded*).

1907.

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	65	...	+ 53	...	35	27	0	+ 27	...	...	...	...	...	...	...	...
2	...	...	...	...	35	36	− 10	+ 18	...	...	...	...	...	...	...	...
3	...	...	...	...	30	27	− 20	+ 27	...	...	...	...	...	...	...	...
4	...	...	...	...	40	54	− 5	+ 36	...	...	...	...	...	...	...	...
5	...	...	...	...	45	...	0	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	24	...	+ 8	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	16	63	0	+ 63	...	...	...	...	...	...	...	...
9	35	24	+ 12	− 8	24	90	0	+ 90	...	...	...	...	...	...	...	...
10	59	16	+ 47	− 16	40	27	− 8	+ 27	...	...	...	...	...	...	...	...
11	...	...	...	...	40	72	− 32	+ 63	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	32	146	+ 20	+146	...	24	...	+ 24
14	...	...	...	...	30	36	+ 15	+ 27	40	36	+ 16	+ 36	84	73	− 67	− 49
15	...	...	...	...	45	9	+ 30	+ 9	24	56	+ 4	+ 56	168	48	−168	+ 24
16	...	...	...	...	0	36	0	+ 36	22	35	− 22	+ 14	109	0	−109	0
17	35	...	− 24	...	60	...	+ 30	...	27	30	+ 5	+ 30	76	73	− 76	− 73
18	...	58	...	+ 58	...	...	...	...	...	...	...	...	...	...	...	...
19	47	...	+ 6	...	...	...	...	...	32	5	+ 11	+ 5	17	73	− 25	− 24
20	...	...	...	...	...	...	...	...	16	9	+ 11	+ 9	59	73	− 59	− 73
21	...	...	...	...	...	...	...	...	16	18	0	+ 14	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	18	...	+ 4	...	...	...	...	...	...	...	...	...	...	...	...
26	31	30	+ 9	− 4	...	...	...	...	...	...	...	...	72	0	− 66	0
27	...	...	...	...	18	36	+ 9	+ 27	...	...	...	...	84	122	− 72	−122
28	26	...	+ 9	...	...	...	...	...	...	...	...	...	50	73	−122	− 73
29	...	...	...	...	9	22	0	0	...	...	...	...	72	24	− 72	− 24
30	...	13	...	+ 13	...	...	...	...	...	...	...	...	33	97	− 22	− 73
31					...	...	...	...					36	49	− 36	− 49
Mean	42·6	26·1	+16·0	+ 7·9	31·1	41·1	+ 0·6	+34·6	26·1	41·9	+ 5·6	+38·7	71·7	55·7	−74·5	−39·3
Since Jan. 5	...	...	+1066	+1336	...	...	+1075	+1786	...	...	+1120	+2096	...	...	+226	+1585

MONTHLY MEAN DIURNAL INEQUALITY 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 0″·001.)

1907.

Hour, Mauritius Standard Time.	January.		February.		March.		April.		May.		June.	
	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.
Midnight	70	50	56	88	56	34	60	82	60	98	57	85
1h	56	68	46	82	46	35	49	74	56	109	44	95
2	42	84	39	74	34	36	38	61	50	114	34	104
3	33	97	33	65	26	38	26	49	42	115	27	110
4	28	104	27	56	19	39	17	44	31	113	20	114
5	24	112	21	46	13	40	12	48	22	114	13	116
6	18	118	14	34	7	42	8	58	12	122	6	116
7	7	118	4	26	4	42	2	70	4	126	0	114
8	0	110	0	20	0	38	0	80	0	124	3	109
9	9	100	4	10	4	26	11	82	6	117	20	99
10	34	88	16	2	12	14	27	78	19	98	42	84
11	55	75	35	0	28	5	48	69	40	76	71	62
Noon	71	61	53	11	56	1	75	53	63	52	101	38
13h	83	48	74	27	86	0	103	33	84	34	129	19
14	92	34	91	42	109	2	125	7	101	20	150	7
15	99	22	105	53	127	6	141	0	114	10	167	2
16	104	12	116	60	142	11	150	15	122	3	174	0
17	107	5	120	65	146	16	147	31	119	0	165	3
18	108	0	120	66	133	21	140	41	111	2	146	8
19	108	0	115	64	118	25	130	48	99	10	128	22
20	105	6	105	59	105	27	116	53	89	22	113	40
21	100	15	91	59	92	30	102	65	80	40	99	57
22	94	27	79	66	78	32	87	78	72	60	86	66
23	83	39	67	80	67	33	72	84	66	80	72	76
Means	64	58	60	48	63	25	70	54	61	69	78	64
Number of Days employed.	25		17		28		21		25		10	

Hour, Mauritius Standard Time.	July.		August.		September.		October.		November.		December.	
	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.	North Component.	East Component.
Midnight	80	86	60	72	75	102	88	66	72	2	40	72
1h	67	106	52	84	62	119	77	78	65	0	34	76
2	55	126	43	92	50	133	70	90	55	2	25	74
3	43	145	32	94	36	144	60	100	42	6	15	69
4	32	163	18	100	22	150	46	107	26	14	7	63
5	20	178	5	123	5	151	28	110	11	22	2	57
6	9	194	0	157	0	148	9	113	0	30	0	49
7	1	193	0	170	4	140	0	114	5	40	2	43
8	0	176	9	169	12	130	10	112	24	52	23	39
9	9	156	34	154	29	114	44	106	51	56	49	38
10	36	130	64	118	51	95	80	98	77	62	79	39
11	77	101	92	82	90	72	115	84	98	65	108	40
Noon	117	70	128	49	135	42	154	66	118	64	130	42
13h	151	39	164	28	170	16	199	44	145	61	150	41
14	174	17	187	14	198	4	236	24	174	56	166	38
15	185	8	202	4	220	0	254	12	194	50	168	31
16	188	3	208	0	240	2	256	4	191	44	160	16
17	173	0	199	14	247	8	245	0	178	36	141	3
18	155	0	179	26	227	17	224	0	160	28	113	0
19	140	5	162	31	190	28	196	6	141	20	84	5
20	124	16	132	37	157	40	158	14	123	15	65	19
21	112	32	109	52	128	53	133	27	107	11	55	38
22	102	50	90	64	105	68	115	40	94	7	48	53
23	91	70	73	68	87	84	98	54	83	4	44	64
Means	89	86	93	75	106	77	121	61	93	31	71	42
Number of Days employed.	23		10		6		14		8		6	

Plate 1.

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS,

DURING THE YEAR 1907.

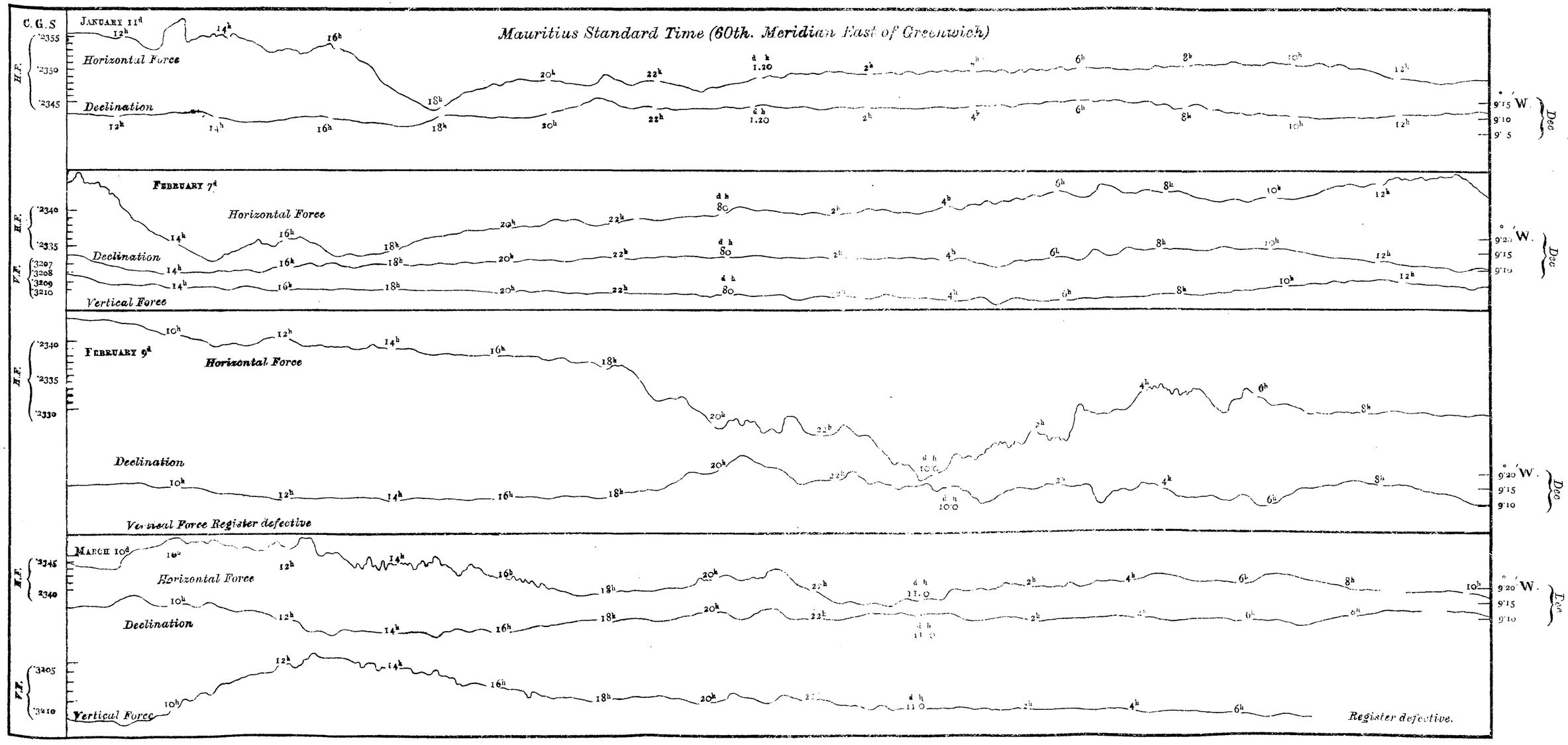


Plate 2.

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS, DURING THE YEAR 1907.

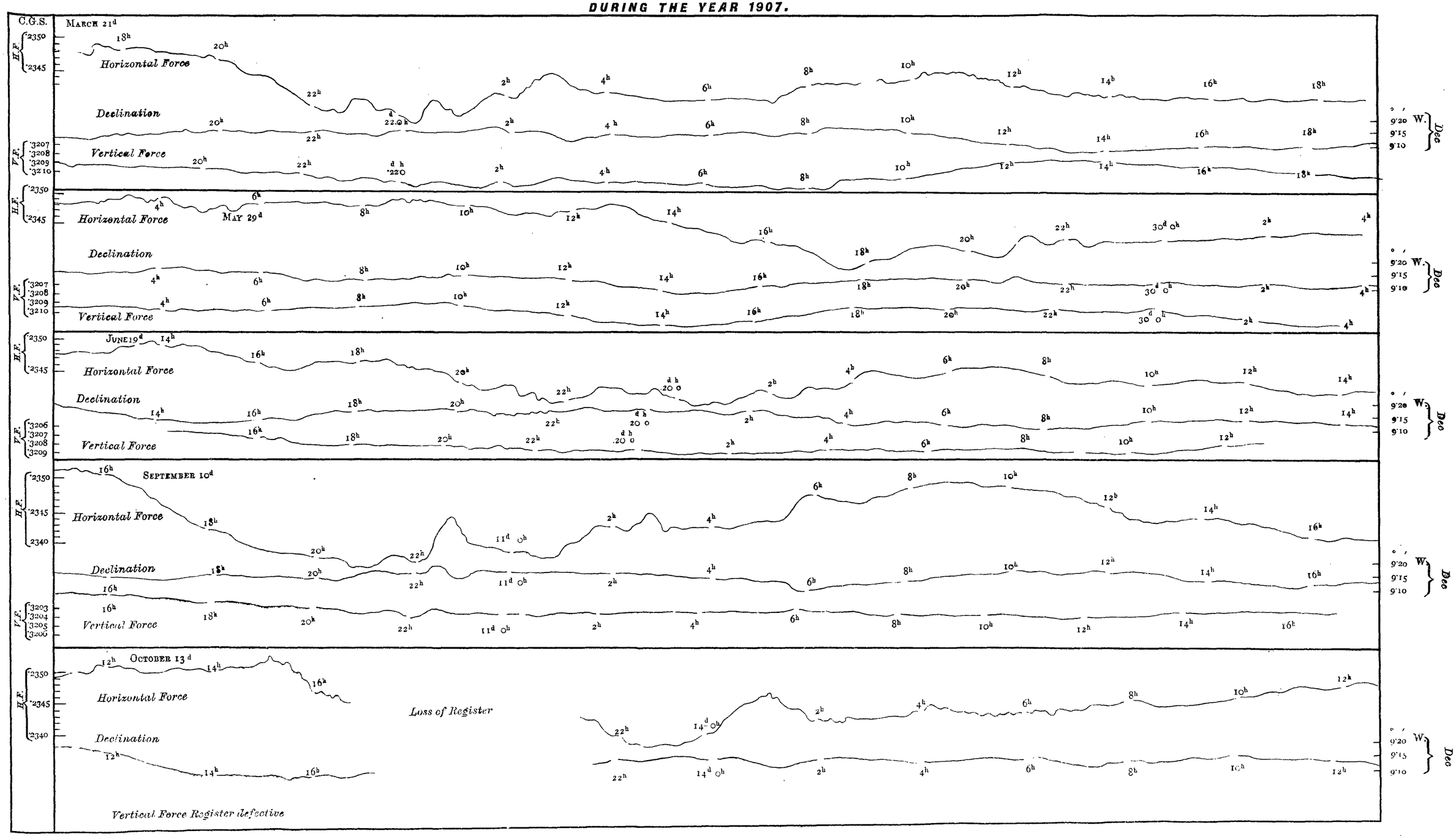


Plate 3.

MAGNETIC DISTURBANCES RECORDED AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS,

DURING THE YEAR 1907.

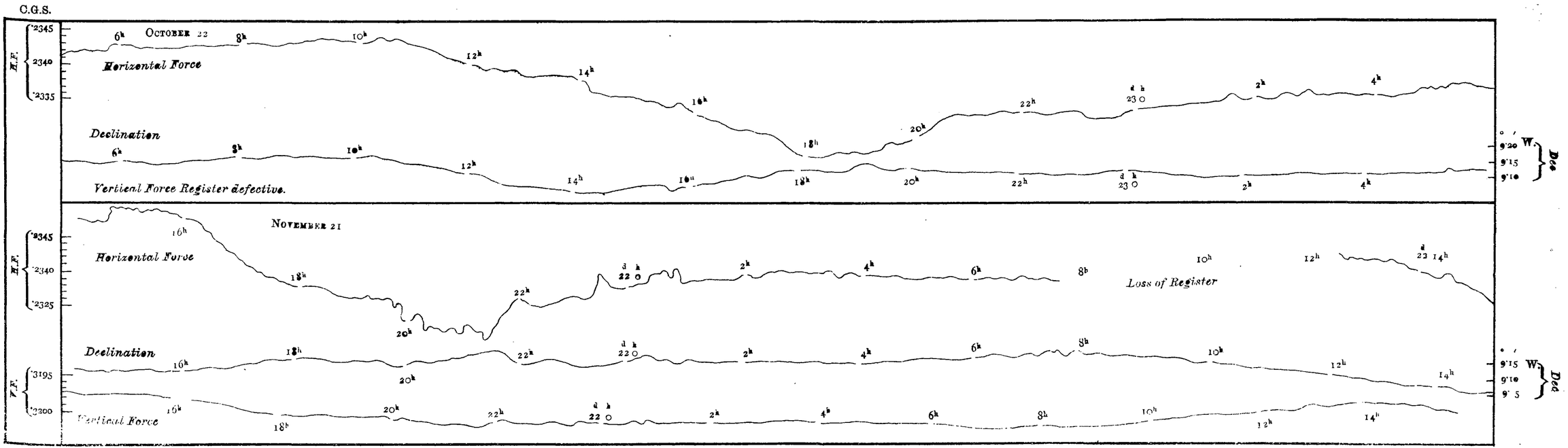
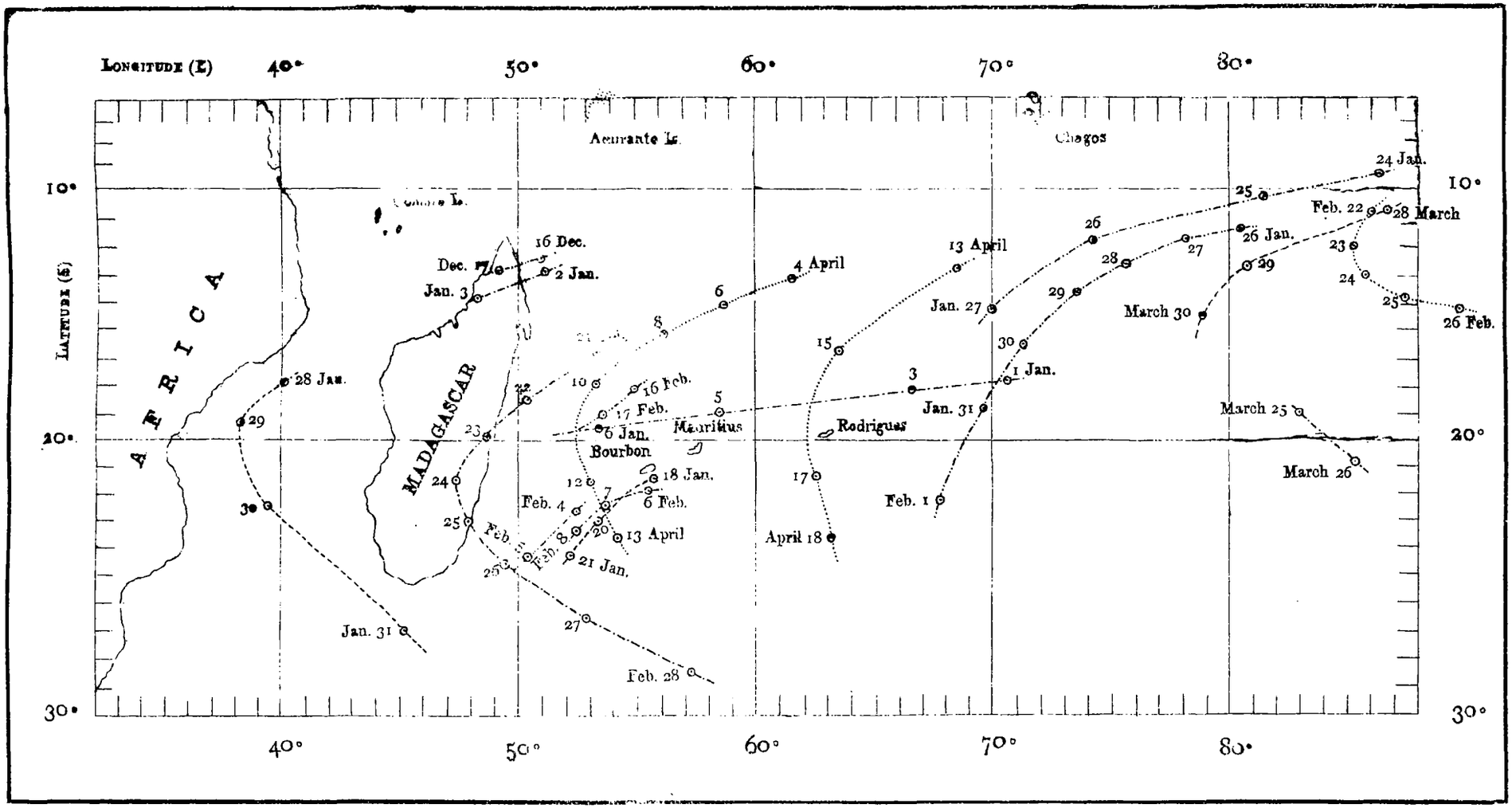


PLATE 4.

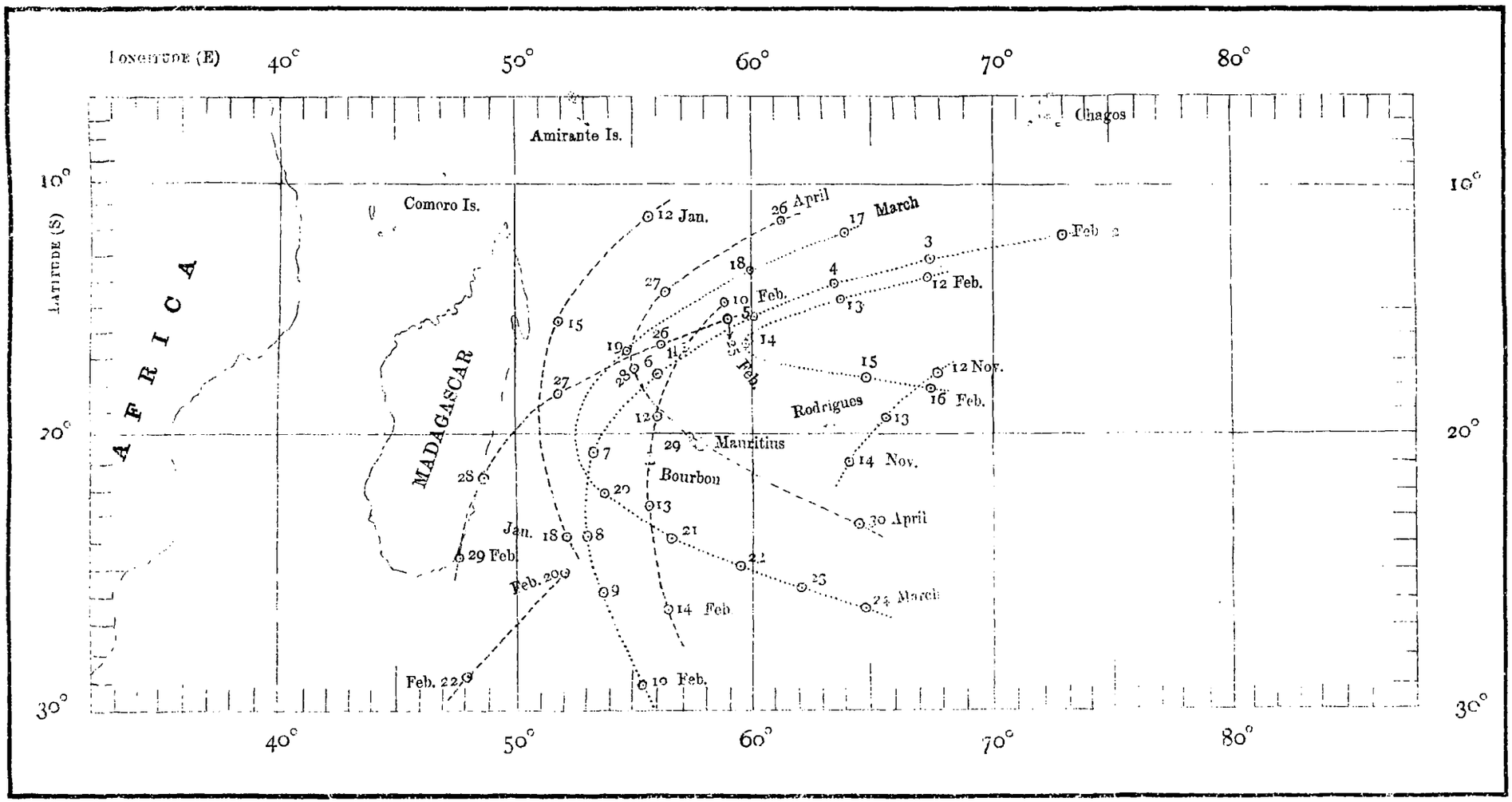
TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN 1886-1890.



1886	3	Cyclones
1887	3	
1888	7	
1889	0	
1890	4	

PLATE 5.

TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN 1891-1892.

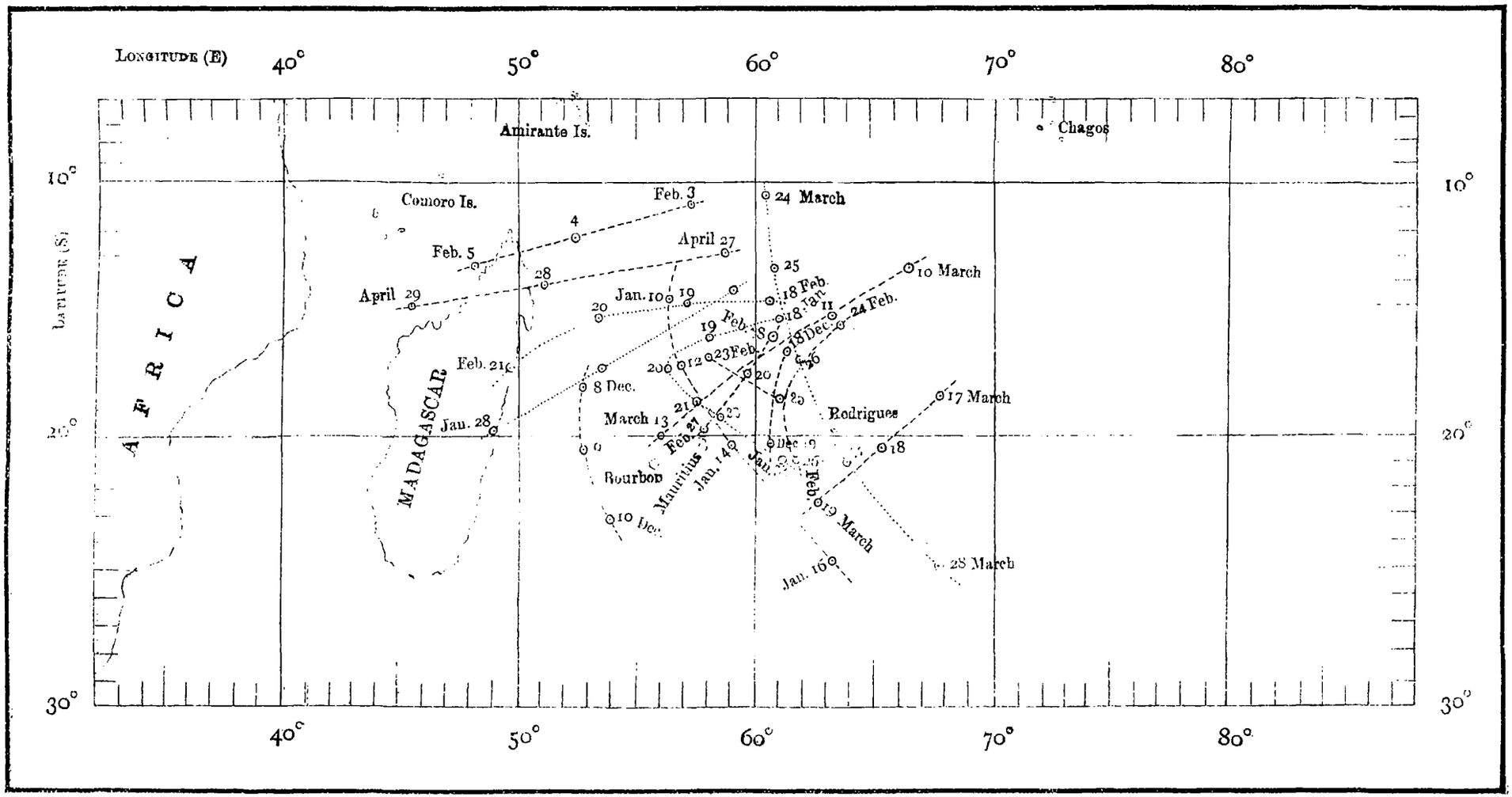


1891 4
1892 5
} Cyclones

PLATE 6.

TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN

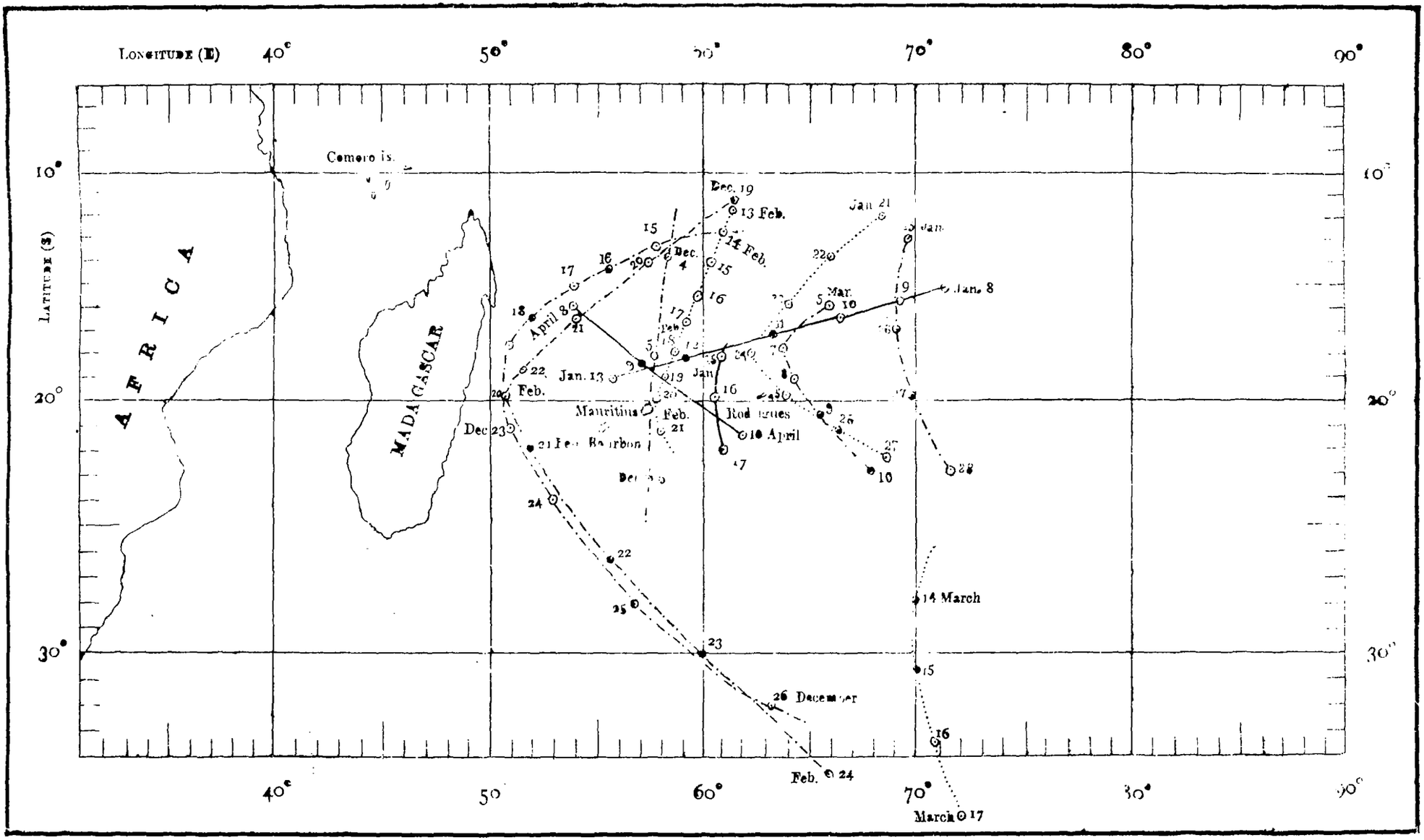
1893-1894.



1893 4
1894 ..... 10 } Cyclones

PLATE 7.

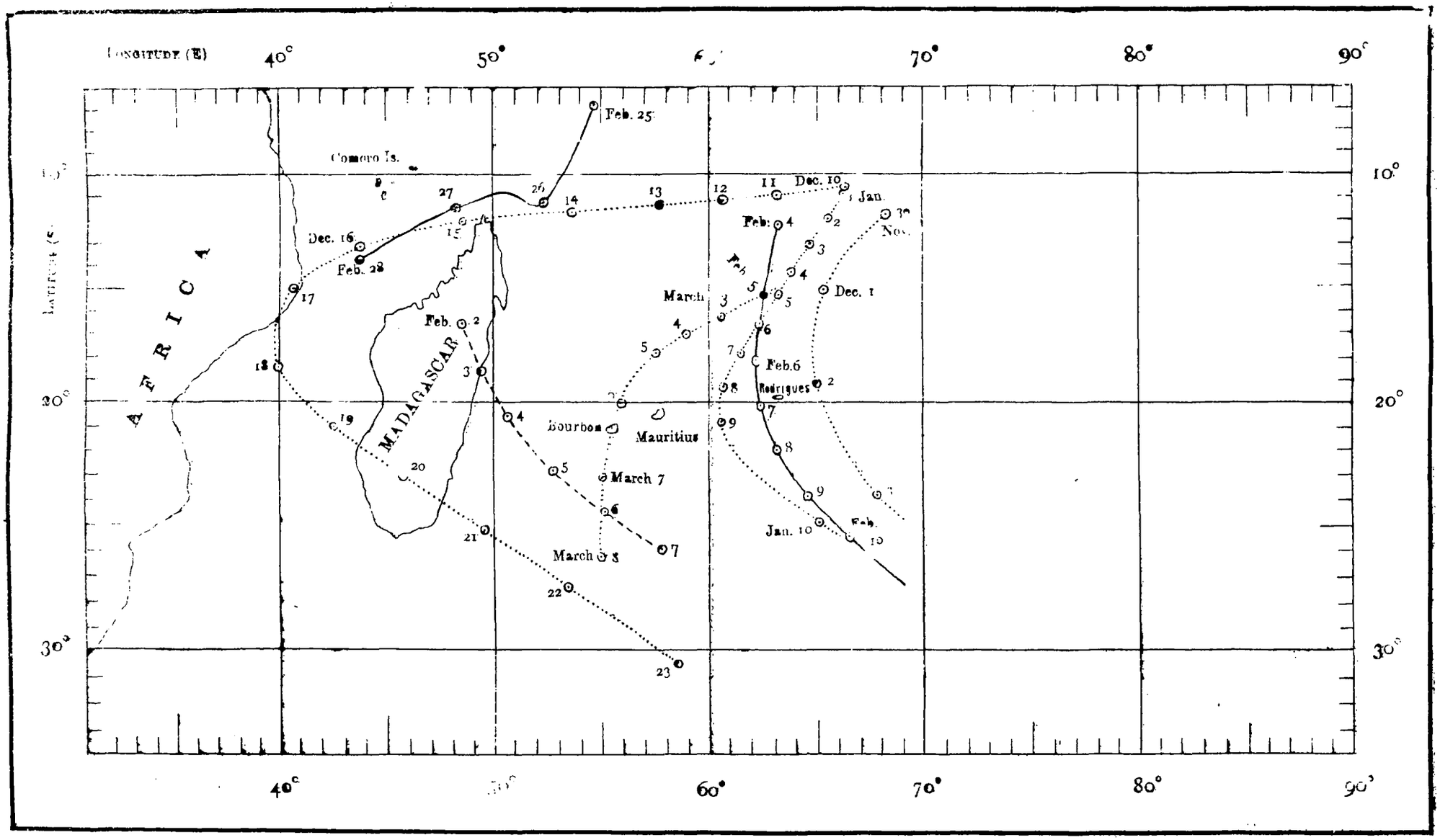
TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN 1895-1897.



1895 ——— 3
1896 3
1897 —·—·— 5
} Cyclones

PLATE 8.

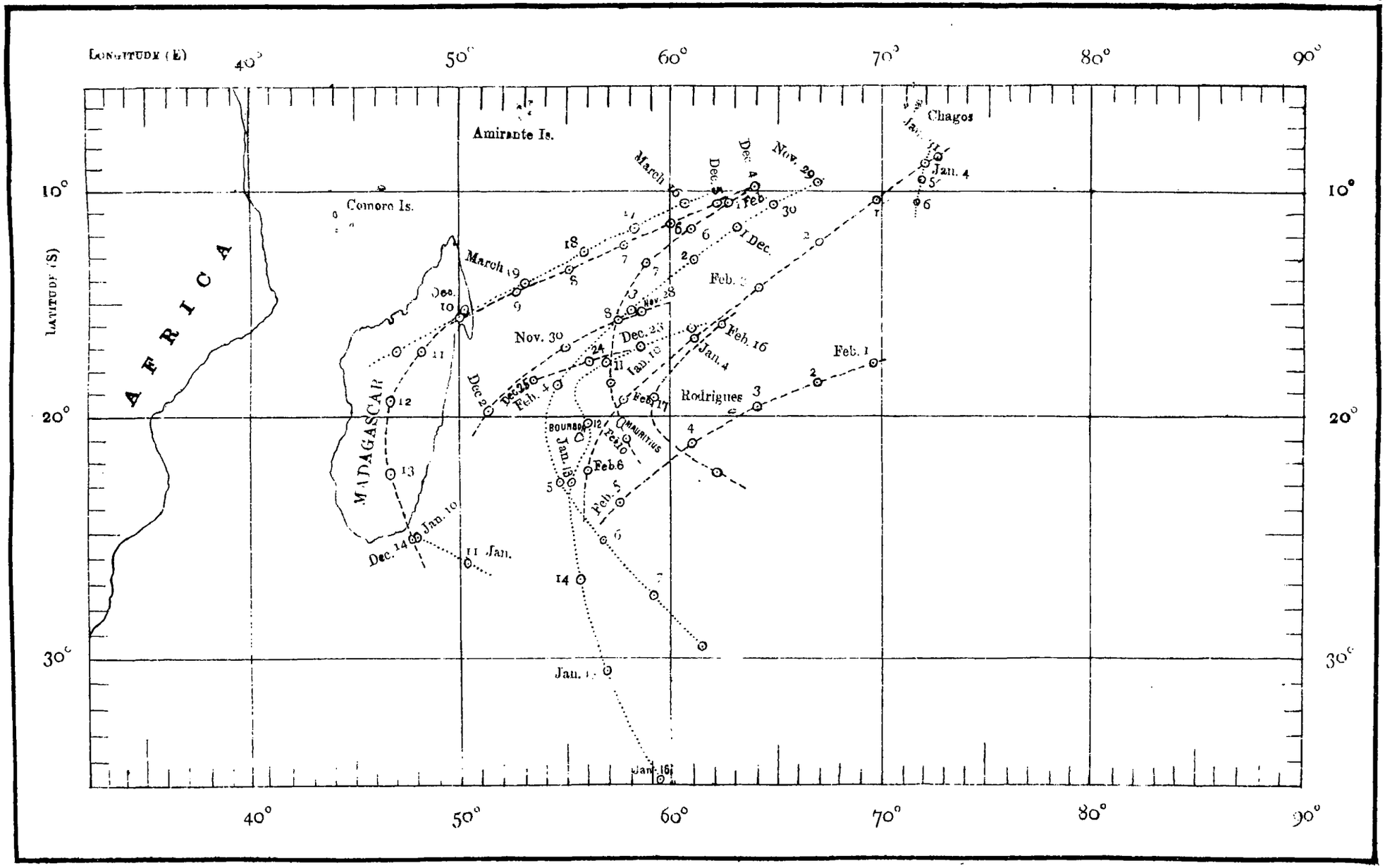
TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN 1898-1900.



1898 ——— 2
1899 - - - - 4
1900 — — — 1
} Cyclones

PLATE 9.

TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN 1901-1902.

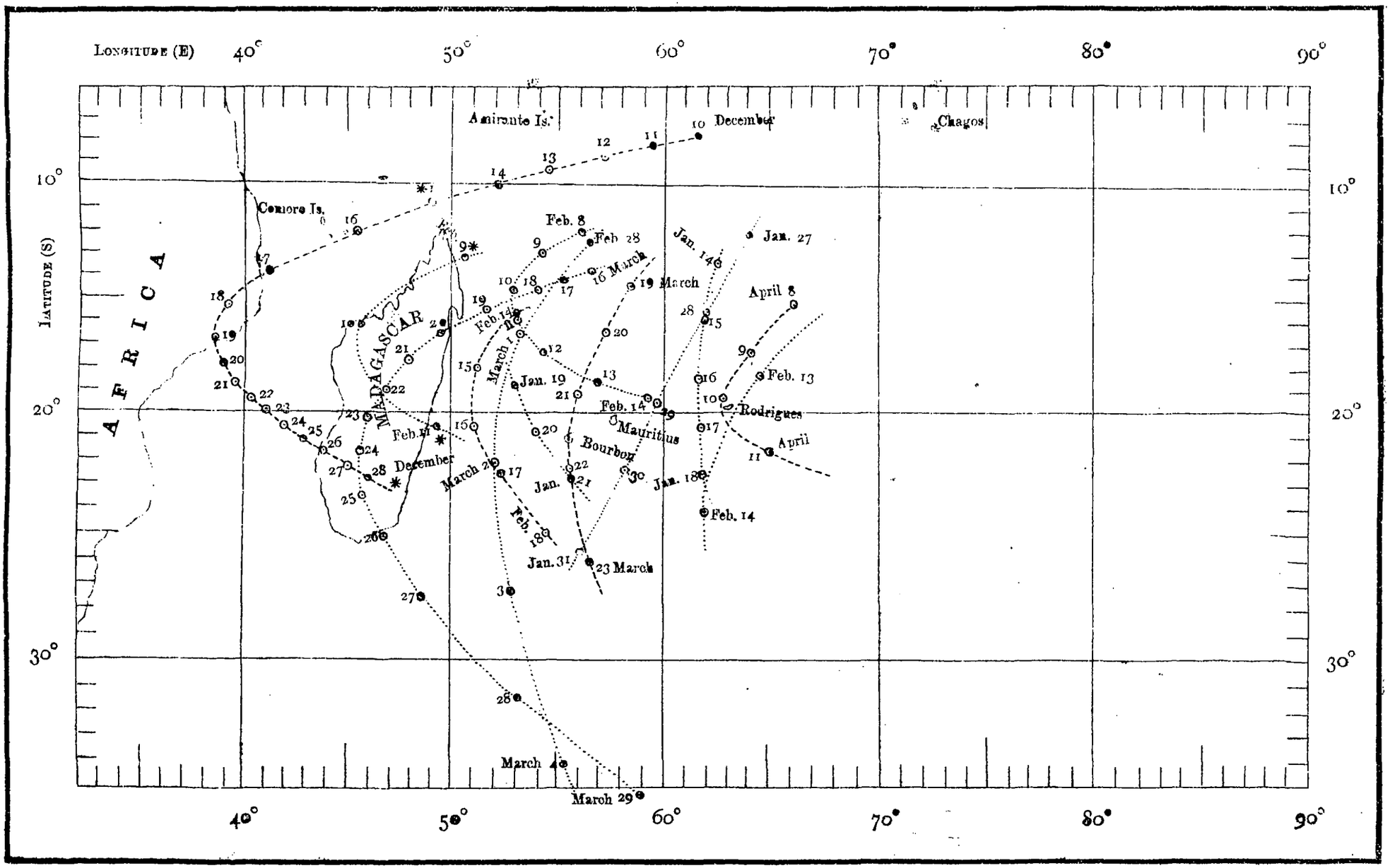


1901 5
1902 - - - - - - - - 7
} Cyclones

PLATE 10.

TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN

1903–1904.



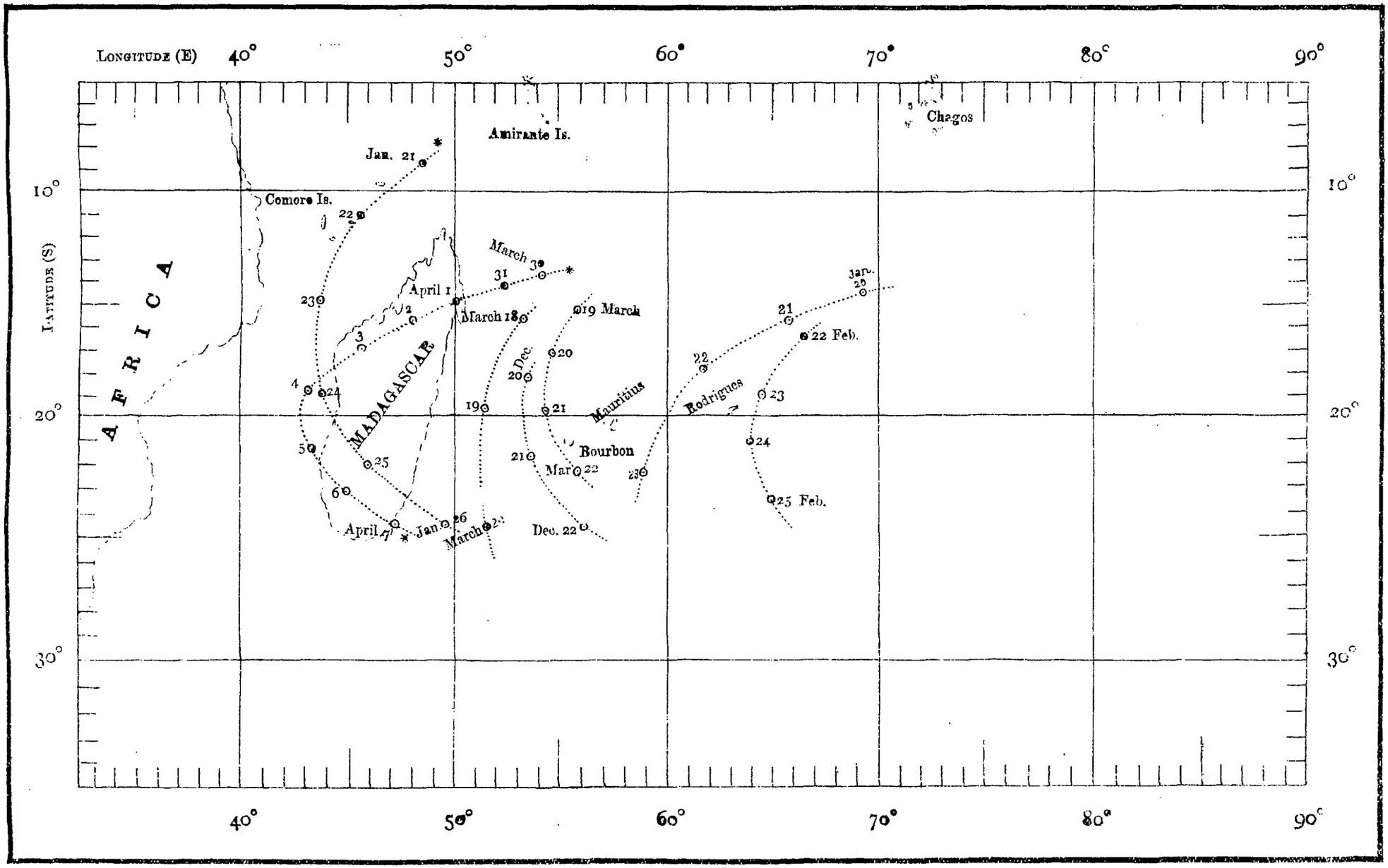
1903 ..... 8 } Cyclones
1904 - - - - - - - - - - - - 4

** Track determined by the Rev: E. Colin S.J.

PLATE 11.

TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN

1905.



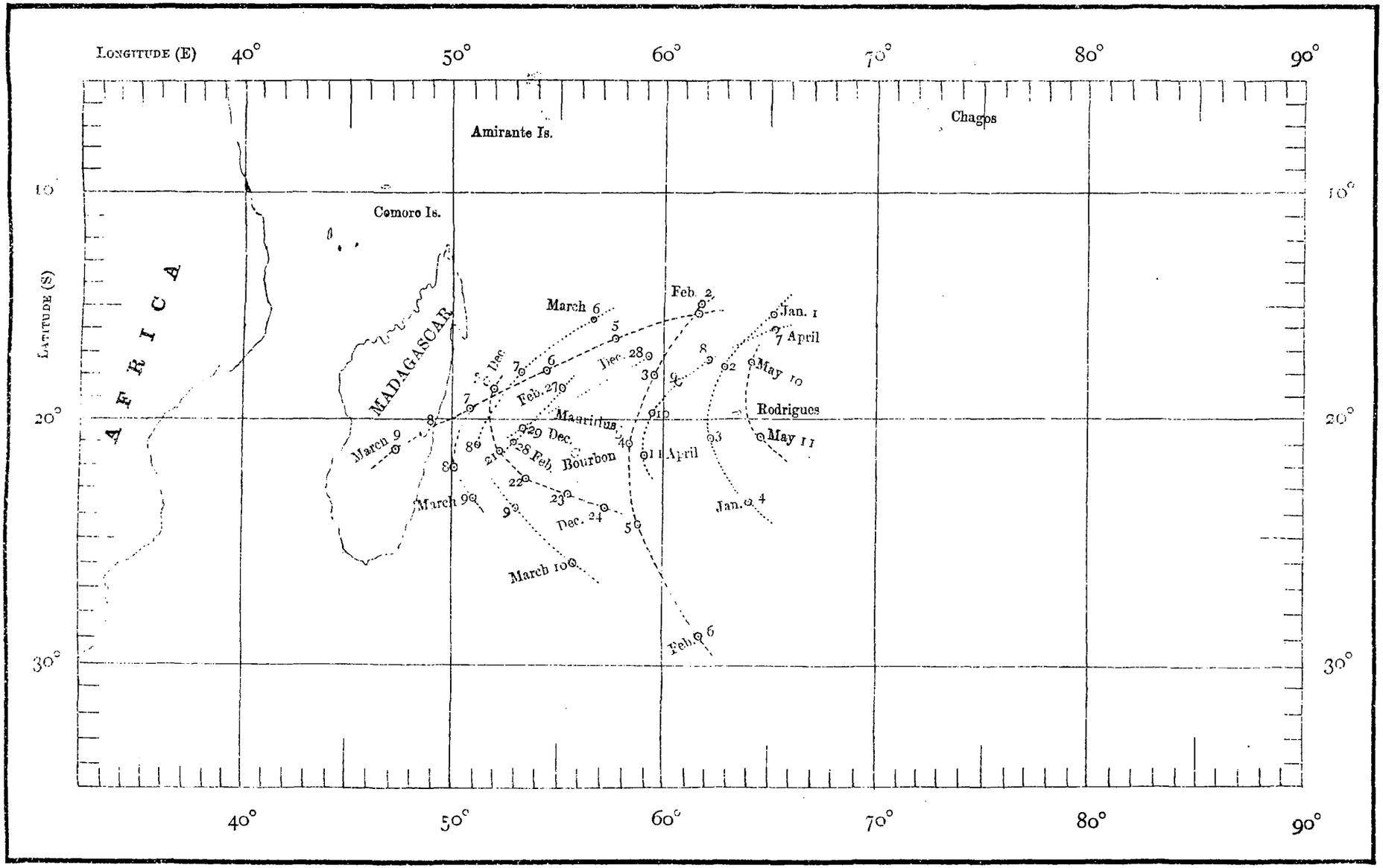
1905 .....7 Cyclones

** Track determined by the Rev: E. Colin S.J.

PLATE 12.

TRACKS OF CYCLONES IN THE SOUTH INDIAN OCEAN

1906-1907.



1906 5
1907 4
} Cyclones

PLATE 13.

EARTHQUAKES RECORDED AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS

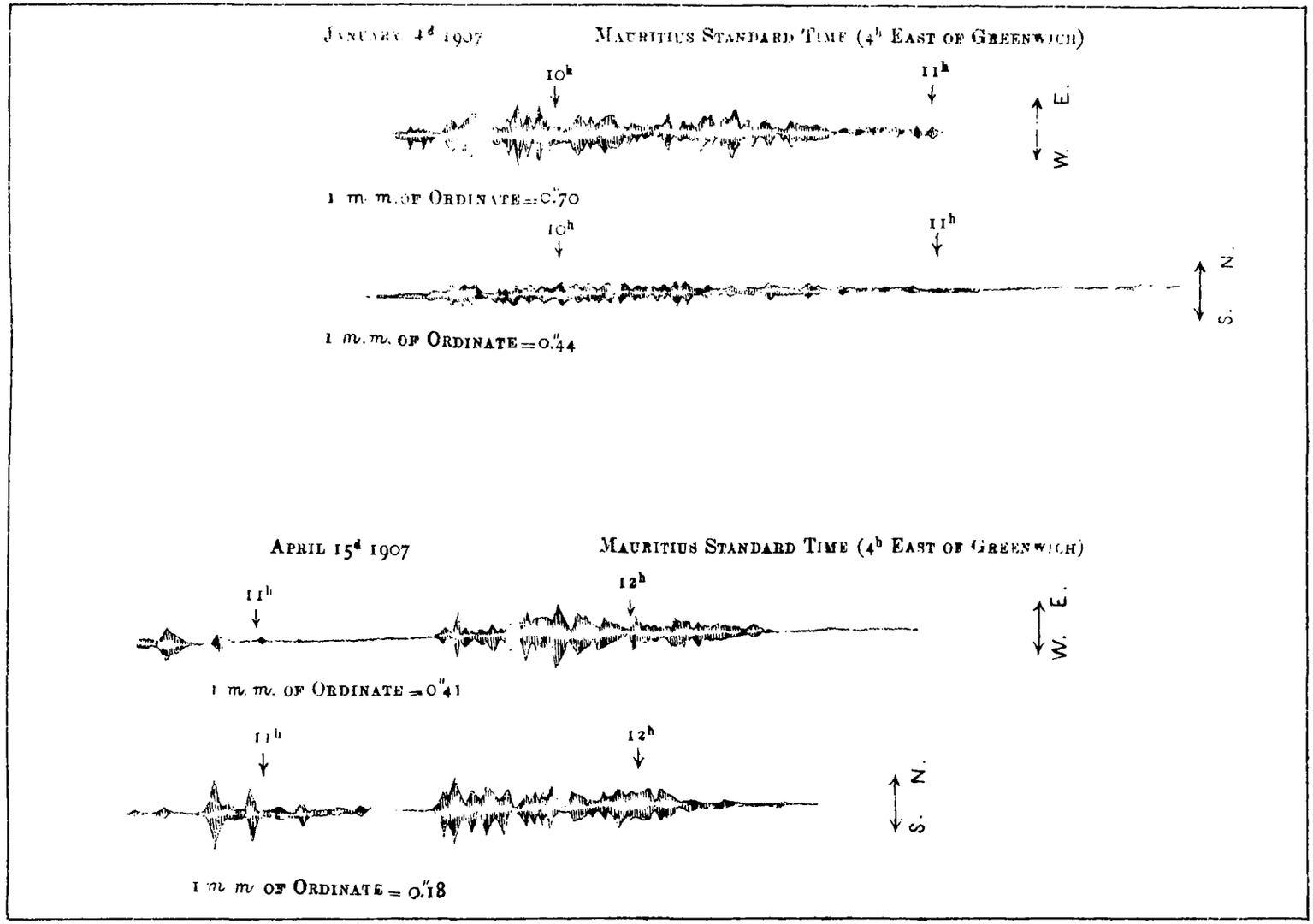


PLATE 14.

DIAGRAM SHOWING THE PROGRESSIVE CHANGE OF LEVEL AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS, DURING THE YEAR 1907, AS DERIVED FROM THE PHOTOGRAPHIC RECORDS OF A MILNE SEISMOGRAPH

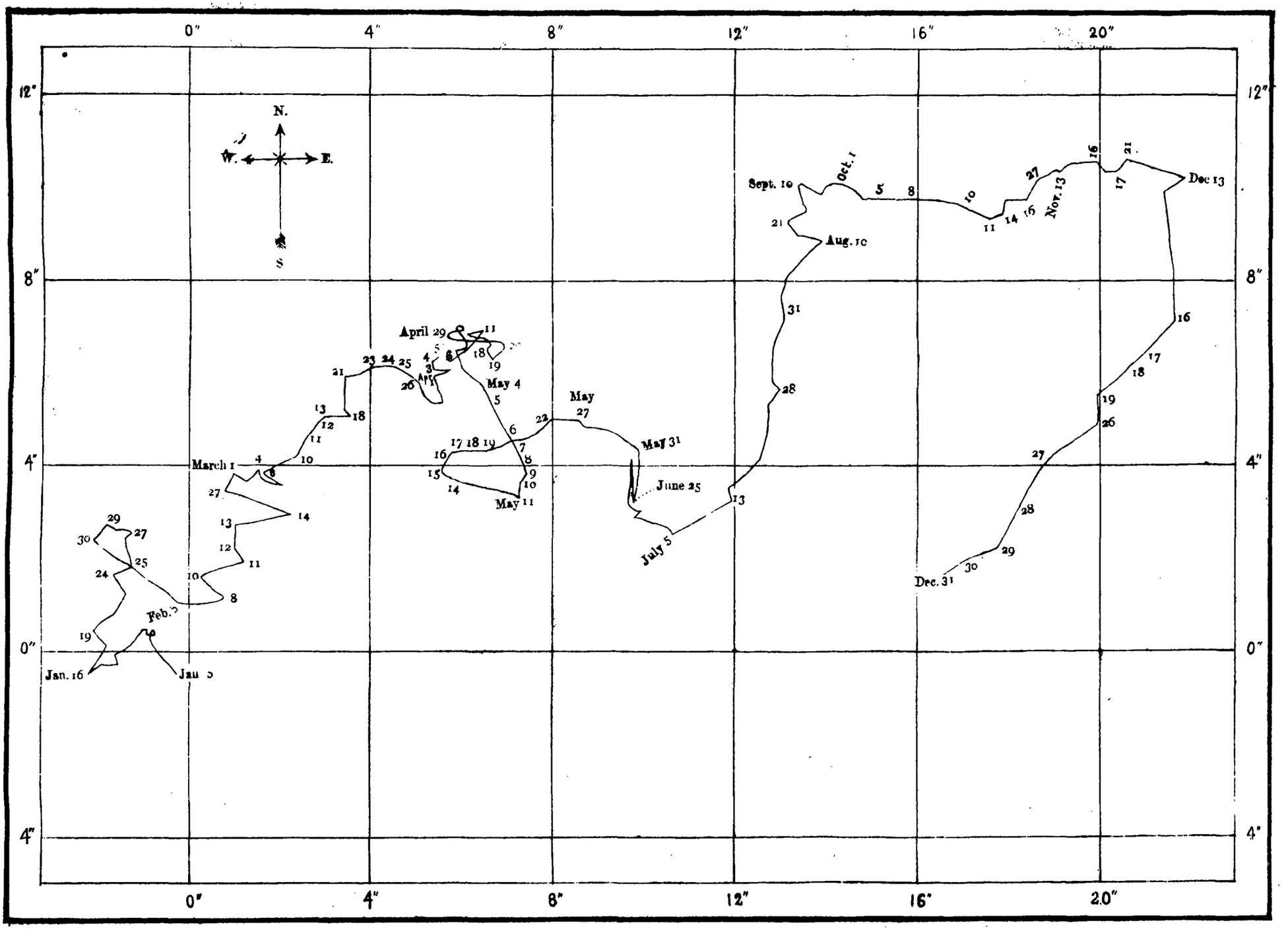


PLATE 15.

DIAGRAM SHOWING, FOR EACH MONTH OF THE YEAR 1907, THE DIURNAL INEQUALITY OF LEVEL (NORTH COMPONENT) AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS, AS DERIVED FROM THE PHOTOGRAPHIC RECORDS OF A MILNE SEISMOGRAPH.

Mauritius Standard Time (4h E. of Greenwich)

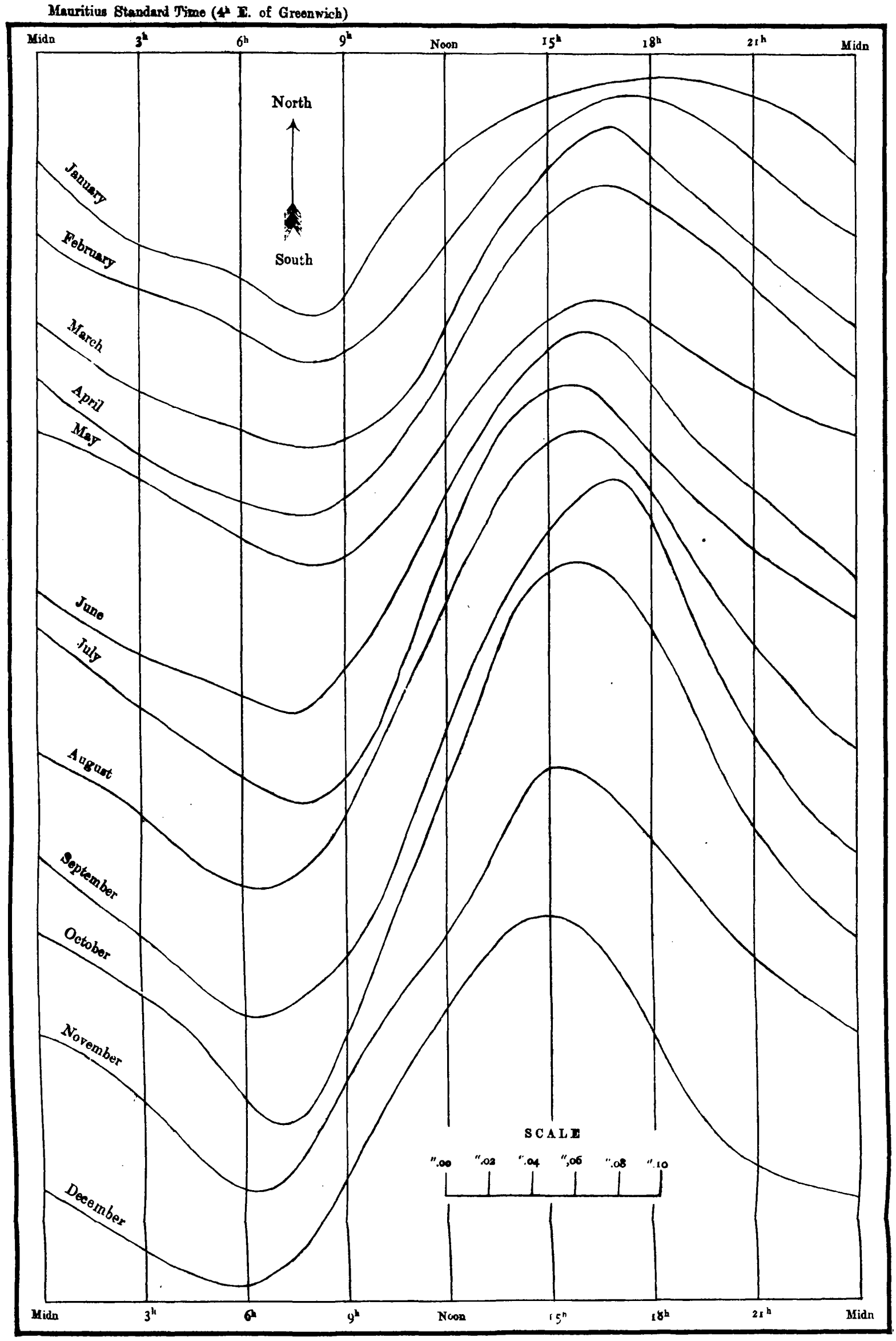


PLATE 15. *(bis)*

DIAGRAM SHOWING, FOR EACH MONTH OF THE YEAR 1907, THE DIURNAL INEQUALITY OF LEVEL (EAST COMPONENT) AT THE ROYAL ALFRED OBSERVATORY MAURITIUS AS DERIVED FROM THE PHOTOGRAPHIC RECORDS OF A MILNE SEISMOGRAPH.

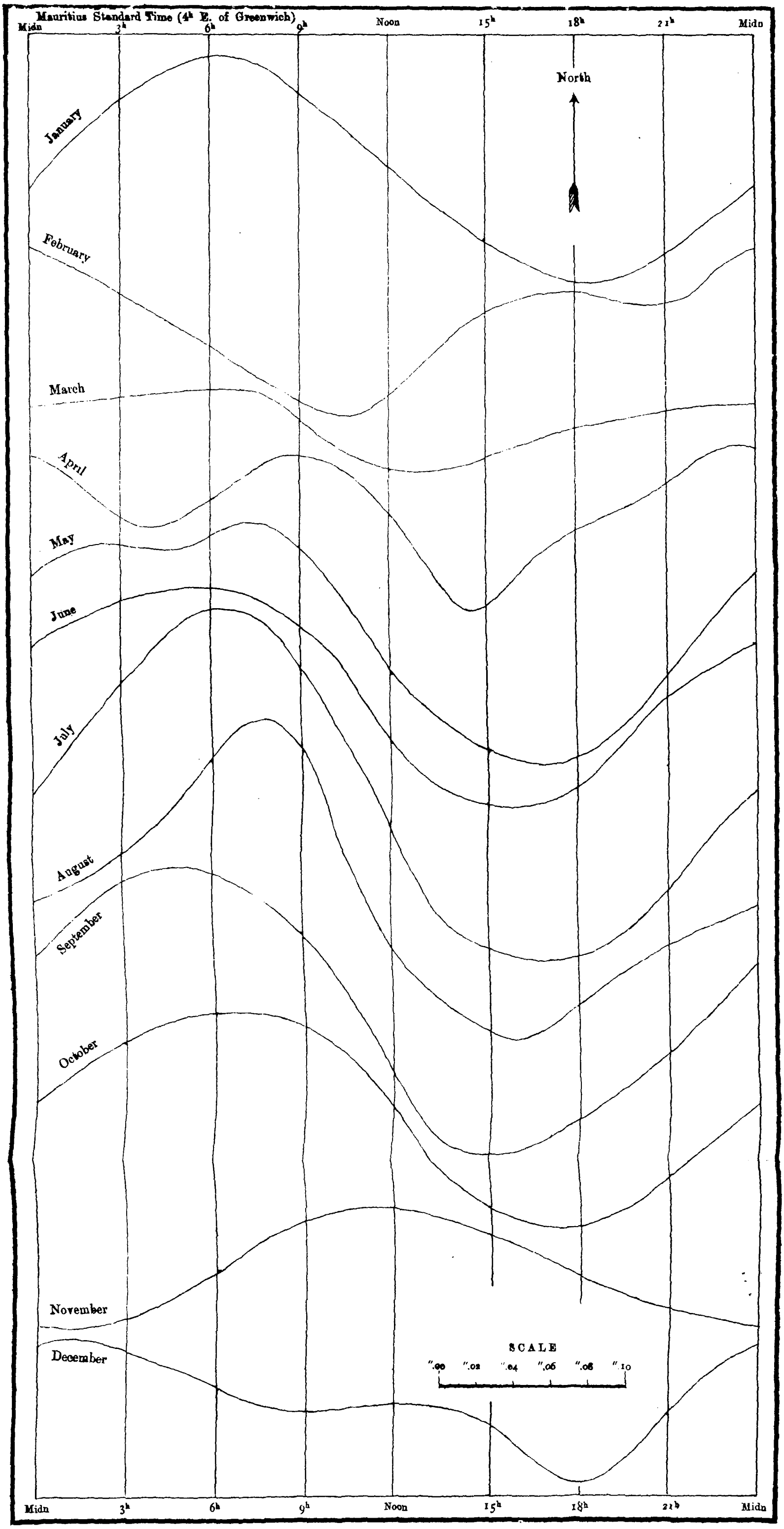
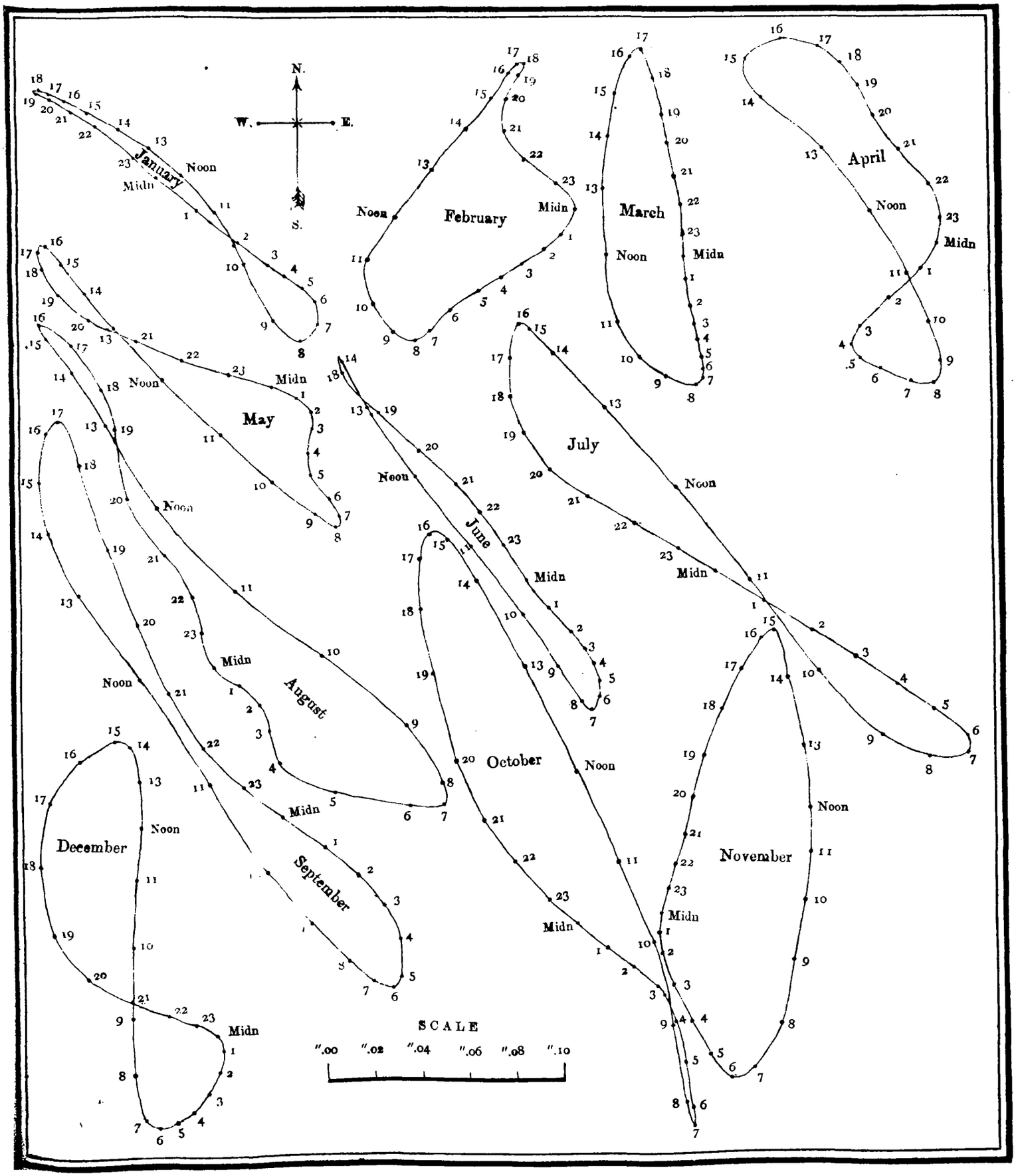


PLATE 16.

VECTOR DIAGRAMS SHOWING, FOR EACH MONTH OF THE YEAR 1907, THE MEAN AMOUNT AND DIRECTION OF TILT OF THE PILLAR OF THE MILNE SEISMOGRAPH FROM HOUR TO HOUR AT THE ROYAL ALFRED OBSERVATORY, MAURITIUS, AS DERIVED FROM THE PHOTOGRAPHIC RECORDS.