M.O. No. 227d.

METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1916,

PART III., SECTION 2.

GEOPHYSICAL JOURNAL, 1916,

COMPRISING

DAILY VALUES OF THE METEOROLOGICAL AND GEOPHYSICAL ELEMENTS

AT THREE OBSERVATORIES OF THE METEOROLOGICAL OFFICE;

DAILY VALUES OF SOLAR RADIATION AT SOUTH KENSINGTON;

WIND COMPONENTS AT FIXED HOURS AT FOUR ANEMOGRAPH STATIONS;

TABULATIONS OF OCCASIONAL SOUNDINGS OF THE UPPER AIR;

AND RESULTS OF CLOUD OBSERVATIONS;

TOGETHER WITH ANNUAL AND SPECIAL SUPPLEMENTS.

Published by Authority of the Meteorological Committee.

LONDON:
To be purchased from
THE METEOROLOGICAL OFFICE, EXHIBITION ROAD, LONDON, S.W. 7.
Price Ten Shillings Net.

1918.

TABLE OF CONTENTS.

INTRODUCTION . . . . . page i

INDEX TO TABLES OF DATA.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	Page	Page	Page	Page	Page	Page	Page	Page	Page	Page	Page	Page
RICHMOND (KEW OBSERVATORY)—												
Meteorological observations .	2	8	14	20	26	32	38	44	50	58	64	70
Geophysical observations .	3	9	15	21	27	33	39	45	51	59	65	71
ESKDALEMUIR OBSERVATORY—												
Meteorological observations	2	8	14	20	26	32	38	44	50	58	64	70
Geophysical observations .	3	9	15	21	27	33	39	45	51	59	65	71
SEISMOLOGICAL DIARY FOR ESKDALEMUIR AND RICHMOND .	4	10	16	22	28	34	40	46	52	60	66	72
CAHIRCIVEEN (VALENCIA OBSERVATORY)—												
Meteorological and Magnetic observations . . .	1	7	13	19	25	31	37	43	49	57	63	69
WIND COMPONENTS FOR HOLYHEAD, DEERNESS, SCILLY, AND GREAT YARMOUTH . . .	5	11	17	23	29	35	41	47	53	61	67	73
SOLAR RADIATION AT SOUTH KENSINGTON, RICHMOND, ESKDALEMUIR, AND CAHIRCIVEEN .	1	7	13	19	25	31	37	43	49	57	63	69
SOUNDINGS OF THE UPPER AIR .	6	12	18	24	30	36	42	48	54	62	68	74
NEPHOSCOPE OBSERVATIONS FOR ABERDEEN	6	12	18	24	36	55	55	56	56	62	68	74

ANNUAL SUPPLEMENT.

SUMMARY OF THE RECORDS OF REGISTERING BALLOON ASCENTS FOR THE YEAR . . . . pages 75–77

ESKDALEMUIR OBSERVATORY.—Seismology for the Year . . . . . pages 78–79

MONTHLY MEANS OF ELECTRICAL AND MAGNETIC DATA FOR RICHMOND (KEW OBSERVATORY) AND ESKDALEMUIR pages 79–80

RICHMOND, KEW OBSERVATORY: WATER-LEVEL RECORDER . . . . . page 79

ANALYSIS OF CLOUDS OBSERVED AT ABERDEEN OBSERVATORY DURING THE FIVE YEARS 1912–1916 . pages 80–81

ERRATA IN THE GEOPHYSICAL JOURNAL FOR THE YEAR 1916 . . . . . page 82

SPECIAL SUPPLEMENT.

METEOROLOGICAL OBSERVATIONS AT ST LOUIS OBSERVATORY, JERSEY, DURING THE YEARS 1914–1916 . pages 83–119

METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR-BOOK: GEOPHYSICAL JOURNAL.

INTRODUCTION TO THE TABLES FOR 1916.

THE Geophysical Journal gives daily values for the meteorological and geophysical elements observed at the three observatories of the Meteorological Office, Kew Observatory, Richmond, Surrey, Valencia Observatory, Cahirciveen, Co. Kerry, and Eskdalemuir Observatory, Dumfriesshire. Data are given for Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology. Wind components are given for four additional anemograph stations.

The results of ascents at Upper Air Stations at Aberdeen, Benson (which replaced Pyrton Hill in April 1914), Eskdalemuir, Falmouth, and South Farnborough are also included in the Journal. Corresponding upper air results for the years 1909 to 1912 appeared in the Weekly Weather Report.

Greenwich Mean Time is used in all cases, and the hours are counted from midnight and numbered 0 to 23; the second midnight of the day is referred to as 24 h.

All the units employed are based on the C.G.S. system. Data to which the letters x and n are attached represent the maximum and minimum (highest and lowest) values in the column.

The tables are as follows:—

1. **Duration of Bright Sunshine and Solar Radiation.** The total number of hours of bright sunshine as measured by the Campbell-Stokes Recorder is given for South Kensington, Richmond, Eskdalemuir, and Cahirciveen; also the percentage this represents of the "possible," regarded as the number of hours from sunrise to sunset. The Campbell-Stokes instrument records only bright sunshine, no trace being obtained in thick haze or when the sun is very near the horizon. Thus the total it gives is less than the number of hours during which the position of the sun is visible to the naked eye. While the result is somewhat arbitrary, the records from different instruments of the pattern which have been correctly adjusted show a close agreement. The normal values for Richmond and Cahirciveen are from the 35 years 1881 to 1915; those for South Kensington and Eskdalemuir from the 5 years 1911 to 1915.

Solar radiation results are given for South Kensington, Richmond (Kew Observatory), and Eskdalemuir. At the two latter stations use is made of the Ångström pyrheliometer, which gives the radiation received from the sun by a unit surface which is normal to the line drawn from the instrument to the sun. This is described as the intensity of radiation at Richmond and Eskdalemuir, to distinguish it from its vertical component, the two being connected by the formula

$$\text{vertical component} = \text{intensity} \times \cos Z,$$

where Z is the zenith distance of the sun. At Richmond the observations are made within half an hour of noon, and the vertical component is given as well as the

Wt. 47527/444—400—11/17.—N. & Co. Ltd. Gp. XV.

intensity of radiation, to facilitate comparison with South Kensington. The hour of observation at Eskdalemuir being more variable is given explicitly, and the value is also given of (p/p_0) sec Z, where p is the barometric pressure at the observatory in millibars at the time of the observation, while p_0 is 1000 millibars. Thus (p/p_0) sec Z affords a measure of the mass of atmosphere through which the solar radiation has had to travel before reaching the earth. The entries in the columns headed "sky" at Richmond and Eskdalemuir are intended to show the presence or absence of any visible obstruction, such as haze, mist, or cloud, in the direct path of the solar radiation recorded. Observations are taken so far as possible in the absence of cloud; but upper cloud, when there is a great deal of it, cannot always be avoided. Unless the cloud is very thin, the fall in the radiation recorded is conspicuous.

At South Kensington the radiation is measured by the Callendar Radiograph, which records the amount received on a horizontal surface from all sources. In bright sunshine the greater part of the radiation consists of the vertical component of the direct solar radiation, but even then an appreciable part comes from the general atmosphere and from clouds. Thus if a Callendar and an Ångström instrument were simultaneously recording side by side, one would naturally expect the radiation recorded by the former to exceed the vertical component of that recorded by the latter. The intensity of radiation, whether at South Kensington, Richmond, or Eskdalemuir, is expressed in milliwatts per square centimetre. For conversion to the unit more ordinarily employed abroad, we may use

1 mw. per sq. cm. = 0·01435 gramme-calorie per sq. cm. per minute.

At South Kensington two measurements are given for the maximum radiation—the highest value shown on the trace of the Callendar instrument at whatever hour it occurs, and also the highest value recorded between 11 h. 30 m. and 12 h. 30 m. It is the latter that is most appropriate for comparison with Richmond. The daily total radiation at South Kensington, representing the integrated value of the radiation throughout the 24 hours, is also given, being expressed in joules (j) per sq. cm. A watt equals 1 joule per second, and therefore a uniform radiation at the rate of 1 milliwatt amounts in 24 hours to 86·4 joules. The daily total at South Kensington is also expressed as a percentage of the "planetary" radiation, *i.e.* the radiation that would be received if the earth's atmosphere were non-existent, assuming the average intensity of direct solar radiation in space at the earth's mean distance from the sun to be 135 milliwatts per sq. cm. This accepts Dr Abbot's result, 1·93 gramme calories per sq. cm.; but it should be remembered that the scales of the Callendar and Ångström * instruments undoubtedly differ from that accepted at Washington.

2. **Daily meteorological data** at 9 h. and 21 h. G.M.T. for **Cahirciveen, Co. Kerry** (Valencia Observatory). This table is in the form adopted for Part III., Section I., of the Year-Book (Daily Readings at Meteorological Stations of the First and Second Orders). The instrumental values in the table are taken from the self-recording instruments at the observatory. Some account of these instruments will be found in the Introduction to Hourly Values Meteorological 1913. It may be noted here that the temperatures refer to a large louvred screen on the north wall of the Observatory, not to the Stevenson Screen, which contains the thermometers used for the observations printed in the Daily Weather Report.

* Ångström No. 100 was in use at Richmond until the end of April 1916, No. 24 subsequently.

Pressure is given in "millibars" (1000 millibars = one megadyne per square centimetre). One millibar is approximately equivalent to the pressure of 0·75008 mm. of mercury under standard conditions (273a, lat. 45°). The name is used in the Year-Book, following the example of Professor Bjerknes of Christiania in his work for the Carnegie Institution of Washington. The expression of atmospheric pressure in millibars shows that any necessary reduction of the readings of the barometer to standard temperature and latitude has already been made.

Temperatures are given in units on the Kelvin Absolute Scale, *i.e.* in centigrade degrees measured from a zero 273° below the normal Freezing Point of water. Temperatures at or below 273a (0° C.) are printed in small type.

Vapour-Pressure, deduced from the readings of the dry and wet bulb thermometers by Glaisher's Tables, is given in millibars.

Wind-Speed is expressed in metres per second. The values are estimated for periods of 60 minutes centering at the hours named.

Wind-Direction is given in points of the Compass, from N by E (1) through East (8), to True North (32). The directions refer to the exact hour, and are not mean values. No direction is given when the anemometer shows a smaller velocity than 1·6 metres per second.

Precipitation is given in millimetres of equivalent rainfall. Values of rainfall are for the 24 hours beginning at 9 h.; previous to May 1st, 1914, they were for the 24 hours beginning at 10.30 a.m.

The normals for Pressure, Temperature, and Precipitation are from the 45 years 1871 to 1915; those for Humidity from the 30 years 1886 to 1915; and those for Wind from the 35 years 1881 to 1915. Except in the case of Pressure, no allowance has been made for the removal of the observatory from Valencia Island to Cahirciveen in 1891.

The estimation of **cloud** amount and the symbols for **weather** are in accordance with the conventions of the International Meteorological Committee.

A summary of the weather for each day is given in the column headed **Remarks**, the international weather symbols and the letters of the Beaufort Notation being used as far as possible. These symbols and letters are as follows:—

BEAUFORT NOTATION AND INTERNATIONAL WEATHER SYMBOLS.

b. blue sky.
c. clouds (detached).
o. overcast.
g. gloomy, dull appearance.
u. ugly, threatening appearance.
v. visibility, unusually clear atmosphere.
z. ∞ haze.
m. ≡⁰ mist, light fog.
f. ≡ fog.
fe. ≡⋮ wet fog, *i.e.* fog which deposits water copiously on exposed surfaces.

w. dew.
x. hoar frost.
ice crystals.
rime.
glazed frost.
e. water deposited copiously on exposed surfaces, without rain falling.
p. passing showers.
d. drizzling rain.
r. ● rain.
s. ✻ snow.
snow drift.
snow lying (more than half the surrounding country covered with snow at 9 h.).

h. ▲ hail.
△ soft hail.
t. T thunder.
l. ≺ lightning.
thunderstorm.
gale (17·2 m/s and over).
q. squally.
solar corona.
solar halo.
lunar corona.
lunar halo.
rainbow.
aurora.
zodiacal light.

The figure ⁰ attached to a symbol indicates very slight, whilst the figure ² indicates strong or heavy: thus ●⁰ = slight rain, ●² = heavy rain. When economy of space is necessary, morning, afternoon, and night are denoted by *a.*, *p.*, *n.* respectively. ⸝ is used in the Remarks Column when the wind as recorded by the anemometer averages 17·2 m/s or more for an hour.

Table 2 also contains results for **Magnetic Horizontal Force, Declination,** and **Inclination** from absolute observations, at least two a month. The observations are made at approximately fixed hours, and may be regarded as referring: Horizontal Force to 11 h. 30 m., Declination to 10 h. 30 m., and Inclination to 14 h. 30 m. The unit of force employed, 1γ, represents 0·00001 C.G.S. magnetic unit. It is equal to the magnetic force due to an electrical current of 5 amperes in an infinitely long straight conductor a kilometre away.

3. A corresponding **meteorological table** for **Richmond** (Kew Observatory). Information is also supplied as to the readings at 9 h. of thermometers exposed in the ground at depths of 0·3 m. (1 foot) and 1·2 m. (4 feet) below the surface. The last two columns give the mean recorded level of underground water for each day, and the highest and lowest levels recorded during the month. The periods from which the respective normal values are derived are: Pressure and Temperature 1871 to 1915, Humidity 1886 to 1915, Wind 1881 to 1915, Rain 1871 to 1915, and Earth Temperature 1904 to 1915.

4. A corresponding **meteorological table** for **Eskdalemuir.** The normals all refer to the 5 years 1911 to 1915.

5. **Electrical** and **magnetic data** for **Richmond** (Kew Observatory). Values of the potential gradient in the open are given for 3 h., 9 h., 15 h., and 21 h., representing means for the sixty minutes centering at the hour. A factor, whose value is given, is applied to the electrograph curve readings to deduce the corresponding potential gradient in the open, *i.e.* the potential gradient as it would be if unaffected by the presence of buildings or apparatus. The gradient is measured in volts per metre. It is positive when the potential in the atmosphere exceeds that of the earth. A negative value is indicated by a short thick "-" before the number. When the fluctuations of potential are too large or rapid to permit of a satisfactory numerical estimate of the hourly mean, "*z*" is inserted with an appropriate sign to indicate whether the gradient was on the whole positive or negative, or too oscillatory to admit of the dominant sign being determined.

The factor for reduction to the open is usually determined month by month, from a comparison of the absolute values obtained from a standardised electrometer over a flat area with the corresponding readings from the electrograms.

The **electric character of the day** is indicated by the figures 0, 1, or 2 according to the character of the trace of the electrograph as regards negative potential gradient: thus 0 means no negative potential; 1, one or more excursions of limited duration to the negative side of the scale; 2, negative potential extending in the aggregate over at least three hours.

The charges on the ions, positive and negative, are determined by measurements with Ebert's Aspiration Apparatus, extending over fully half an hour between 14 h. and 16 h. The charge per cc. is multiplied by 10^{16} and given in coulombs to facilitate comparison with the data in neighbouring columns.

In previous volumes other units have been used for the ionic charges.

In 1911 the number of ions was given. In computing the number the value $3{\cdot}4 \times 10^{-10}$ C.G.S. electrostatic unit or 11×10^{-20} coulomb was accepted as the charge upon an ion. Recent research has shown that this value was too low. Millikan's experiments* give $4{\cdot}77 \times 10^{-10}$ C.G.S. electrostatic unit, or $15{\cdot}9 \times 10^{-20}$ coulomb, for the ionic charge.

* *Phil. Mag.*, Series 6, vol. xxxiv., 1917, p. 3.

To reduce the 1911 entries to the form adopted in the current tables they must be multiplied by 11×10^{-4}.

For the years 1912–1915 the charge per cc. $\times 10^{20}$ is given in terms of the C.G.S. electromagnetic unit, which is equal to 10 coulombs. To reduce the entries for these four years to the present form they must be divided by 1000.

To derive the number of ions per cc. from the entries in the present volume they must, if Millikan's results be accepted, be multiplied by 629. To derive the charge in C.G.S. electrostatic units per cubic metre multiply by 0·3.

In addition to all the ions with mobilities of the order of 1 cm. per second, the Ebert apparatus captures, it is believed, a very appreciable number of the slow-moving or Langevin ions. If all the Langevin ions were captured the figures given in the Table would probably, in most cases, be largely increased.

The Ebert apparatus is designed to determine not merely the number but also the mobility of the more mobile ions; the results of such determinations were given in the years 1911–1912 together with the deduced values of the conductivity and of the air-earth current. The figures were found, however, to present many inconsistencies, and the mobilities are no longer observed. The data now published for the air-earth current are derived from observations made with the apparatus designed by Mr. C. T. R. Wilson, combined with readings from the electrograms. Observations taken with the Wilson apparatus near 15 h. supply a value for the electrical conductivity, and this is combined with the mean value of the potential gradient in the open for the sixty minutes centering at 15 h., as derived from the electrograms. The observations are taken in a uniform way, and should be strictly comparable amongst themselves, but it is believed that multiplication by a factor exceeding unity would be required to give the true air-earth current.

The **magnetic data** published in previous years were derived from measurements of the magnetograms. The adoption by the London and South-Western Railway of electric traction for the line which passes some 1000 m. from the observatory made the records useless for this purpose from the end of January. The results of absolute observations taken usually four times a month are now given.

The magnetic character of the day is determined by examination of the magnetograms, and is given on the scale approved by the International Magnetic Commission, "0" representing quiet, "1" moderately disturbed, and "2" highly disturbed conditions.

6. **Electrical** and **magnetic data** for **Eskdalemuir**. These data are of the same general character as those for Richmond in 5, but with modifications. In the electrical character statistics at Eskdalemuir, 0, 1, and 2 have the same significance as at Richmond, but letters *a*, *b*, *c* are attached according to the range of oscillation of the potential gradient: *a* means that for no hour of the day was there a range as large as 1000 volts; *b* that a range of 1000 volts or more was reached in one hour at least, but in fewer than six hours; *c* that a range of 1000 volts or more was reached in at least six hours. These specifications must not be regarded as absolutely rigid criteria. After longer experience more definite specifications may be found possible.

The Eskdalemuir magnetographs record the three rectangular components North, West, and Vertical. The extreme daily values, and their hours of occurrence, are given for each. In view of the uniformity of the temperature to which the magnetograph is exposed, no temperature correction has been applied.

7. **Seismological Diary.** This consists in the main of results given by the **Galitzine Seismographs** (two horizontal components and the vertical component) at **Eskdalemuir,** but includes data from a **Milne Seismograph** at **Richmond** (Kew Observatory). The Eskdalemuir data include (i.) particulars of the earthquakes recorded, and (ii.) the amplitude and period of the microseisms shown by the North component Galitzine instrument on each day at 0 h., 6 h., 12 h., and 18 h. Disturbances attributed directly to wind or other purely local circumstance are excluded. The notation employed is as follows :—

P is the time of arrival of the first phase (longitudinal waves). S is the time of arrival of the second phase (transverse waves). L is the time of arrival of the long waves (surface waves).

PR_1, PR_2 . . . are longitudinal waves reflected once, twice . . . at the earth's surface, prior to their arrival at the station. SR_1, SR_2 . . . similarly denote reflected transverse waves. Any times given for reflected waves refer to the beginning of the disturbance at the observatory.

Y refers to a wave of the type for which the name polychord is proposed by J. J. Shaw (*B.A. Report*, 1915, p. 69). Y is identified provisionally with PR_∞.

M_1, M_2 . . . are the times of successive maxima of the displacement of the ground, corrected, if necessary, for the lag of the instrument. c_1, c_2 . . . are secondary maxima following the principal phase; only the periods and approximate times are given.

i is the sudden commencement of a phase. *i*P means a sudden commencement of the P phase. *e* means an indistinct commencement of a phase. F is the end.

T, the period in seconds, is the duration of a double oscillation (to-and-fro movement). μ represents a micron (0·001 mm.).

Δ is the distance in kilometres of the epicentre measured along the arc of the great circle passing through the station. α the azimuth of the epicentre (0° to 360°) measured from North through East.

A_N A_E and A_z are the amplitudes of the components of the true displacement of the ground from the position of rest, and are measured in microns. When the displacement shown by the North-South seismograph is to the North a + sign is shown; for a displacement to the South a − sign is used. Similarly + is used for displacements to the East and upwards, − for displacements to the West and downwards. When the oscillations are of a simple harmonic character no sign is prefixed to the amplitude.

All the microseisms recorded are believed to arise from other than local causes. Microseisms are practically always in evidence, and their period usually remains at least approximately constant during a good many minutes.

The group of waves of greatest amplitude occurring in the 30 minutes centering at the hour in question is selected and the amplitude tabulated is the mean obtained from two or three waves in that group.

The period is derived from a measurement made on the same group.

The data given for Richmond include the times of commencement of the disturbance shown on the trace, and the time of the largest displacement on the trace. Additional information is given under the heading "Remarks." The boom of the instrument is oriented North-South, and moves when the ground is tilted East to West. It has, however, to be remembered that in reality the boom responds to ground movements of various kinds, and that the amplitude of the movement shown on the trace depends to a considerable extent on whether the oscillatory movement in the ground has a period near to or remote from the natural period of the boom. At the same time, a really large movement on the trace invariably means a large earthquake. Amplitudes, all measured on the trace in mm., are not recorded unless at least 1·0 mm. Those less than 0·1 mm. are characterised as very small, those between 0·1 and 1·0 mm. as small. During the year the period of the boom was approximately 18 seconds, and a movement of 1 mm. on the trace was produced by a tilting of from 0″·43 to 0″·46.

8. A table of **Wind** data for four principal anemograph stations of the Meteorological Office, representing different parts of the country. As in Table 2, the wind velocities are expressed in metres per second, and represent mean values for the sixty minutes centering at the specified hours 3 h., 9 h., 15 h., and 21 h. The data at these

four hours are not the resultant wind velocities, but their rectangular components in the North-South and East-West directions. North and South winds are treated separately, and so are East and West. These hourly values are all derived from Robinson cup anemometers recording direction as well as speed. These anemometers at Holyhead, Deerness, and Great Yarmouth are of the same large size as at Kew Observatory, the arms being 0·61 m., the diameter of the cups 0·229 m., and the factor used for deriving the run of the wind from the run of the cups is 2·2. The Scilly instrument is smaller, the arms being 0·305 m., the diameter of the cups 0·127 m., and the factor 2·8.

Recent investigations have shown that the correct factor depends on the speed. The tabulated speed is probably correct at about 9 m/s. A correction amounting to about + 0·7 is required at such low speeds as 2 m/s. A negative correction is necessary at high speeds.

It is not proposed to depart from the use of the constant factor 2·2 until the corrections have been determined with greater certainty. Components are not shown when the tabulated wind-speed is less than 1·6 m/s.

At Holyhead, Scilly, and Great Yarmouth (or rather Gorleston, a neighbouring station) there are also Dines pressure-tube anemometers, and the entries given under the heading "Maximum in a Gust" represent the highest velocities recorded by these instruments in the course of the day. The time of occurrence of the highest gust is also given. At Deerness, where there is only a Robinson cup anemometer, particulars are given as to the largest of the twenty-four mean hourly velocities, and the hour or hours of its occurrence.

9. A table giving the results of **exploration of the free atmosphere** over the British Isles by means of pilot balloons. In view of the increase in the number of pilot balloon ascents a more compact form has been adopted for setting out the 1916 results. The components of velocity at each level which have been published hitherto are now omitted.

The times refer to the beginning of the sounding; they are given to the nearest five minutes. Wind directions are given in degrees from True North (through East).

The wind velocity is derived from that of the balloon itself. This may be observed with two theodolites at the ends of a known base, or with one theodolite. As a rule, only one theodolite is employed, and the velocities are then deduced in the way explained in the Computer's Handbook, Section II.

The vertical velocities are generally calculated from the formula

$$V = 81\ L^{\frac{1}{2}}/(W + L)^{\frac{1}{2}}$$

in which

L is the free lift of the balloon, *i.e.* the weight in grammes which the balloon can carry without rising,
W is the weight of the balloon in grammes, and
V is the vertical velocity in metres per minute.

The value of the constant adopted in this formula is based on experiments made by Mr J. S. Dines (*Roy. Met. Soc. Quarterly Journal*, vol. xxxix. p. 101).

The "Geostrophic Velocity" shown for each ascent is determined from the prevailing pressure gradient by the formula $v = \gamma/2\rho\omega \sin \lambda$ in which γ is the horizontal pressure-gradient, ω the angular velocity of the earth, ρ the density of the air, λ the latitude, and v the required geostrophic velocity. The significance of geostrophic velocity is explained in the introduction to the Geophysical Journal for 1915. Reference may also be made to the Meteorological Glossary and to the Computer's Handbook, Section II. iii. The relation between actual winds and geostrophic winds

has been discussed with reference to observations by J. S. Dines,* J. Fairgrieve,† and G. Dobson,‡ and from a theoretical standpoint by G. I. Taylor.§

The pressure gradient is derived from the Working Charts of the Office which refer to the hours 7, 13, and 18 respectively. If the hour of an ascent differs decidedly from a chart hour, results are usually calculated from each of the two charts which come nearest in time.

In the deduction of wind components, etc., the calculations are all carried out to 0·1 *m/s* (metre per second), but this degree of accuracy does not appear in the printed results except in the case of observed wind velocities under 5 *m/s*. Observed wind velocities of 5 *m/s* and over are given only to the nearest 0·5 *m/s*. Geostrophic or gradient wind velocities are given only to the nearest 1 *m/s*. Directions are given to the nearest 5° in the case of observed wind velocities, but only to the nearest 10° in the case of geostrophic or gradient wind velocities.

No data derived from kite observations are available for 1916. Details of the few soundings by registering balloons are to be given in the Annual Supplement.

10. A table giving the results of observations of **Cloud Motion** at **Aberdeen** taken with Fineman's nephoscope.

The nomenclature used for clouds is in accordance with the specifications given in "The International Cloud Atlas" and in the "Observer's Handbook." Information as to the usual heights of the several forms is given in the following table:—

Form.	Abbreviation.	Height of base (metres).
Cirrus	Ci.	Mean 9000
Cirro-stratus	Ci. st.	,,
Cirro-cumulus	Ci.-cu.	3000 to 7000
Alto-stratus	A.-st.	,,
Alto-cumulus	A.-cu.	,,
Strato-cumulus	St.-cu.	Below 2000
Nimbus	Nb.	,,
Cumulus	Cu	Mean 1400
Cumulo-nimbus	Cu.-nb.	,,
Stratus	St.	Below 1000

The observations give what is termed for brevity the "velocity-height-ratio," *i.e.* the true cloud velocity divided by the height of the cloud. The velocity-height-ratio is equal to the instantaneous value of the angular velocity of the cloud about a point vertically beneath it, and on the same level as the observer. It is conveniently expressed in milliradians per second. For comparison with the nomenclature used in previous volumes it may be noted that for a low cloud at the height of one kilometre the velocity in metres per second is the same as the velocity-height-ratio in milliradians per second.

An **Annual Supplement** gives a summary of the Observations of the Upper Air and of some electrical and magnetic data from Richmond (Kew Observatory) and Eskdalemuir. A discussion of the constants of the seismological instruments at Eskdalemuir is also included, as well as a diagram showing the variation in the level of the underground water at Richmond.

* "Advisory Committee for Aeronautics," *Fourth Report on Wind Structure*, 1914, p. 19.
† *Geophysical Memoir*, No. 9, 1914. ‡ *Q.J. Royal Met. Soc.*, 1914, p.123.
§ *Phil. Trans. Roy. Soc.*, A, 1915, p. 1; *Proc. Roy. Soc.*, 1916, p. 196.

NAPIER SHAW (*Director*).

METEOROLOGICAL OFFICE, LONDON, S.W.
October 8th, 1917.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 1. JANUARY 1916]. Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	Maximum. 11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec. Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm.²	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	0·3	4	135	20	16	13 30	15	0·7	9	—	—	—	0·0	0	—	—	—	—	0·3	4
2	0·0	0	*n* 57	8	*n* 4	10 30	3	0·0	0	—	—	—	0·0	0	—	—	—	—	0·0	0
3	*x* 5·4	68	319	47	19	13 50	16	*x* 5·7	72	56	15	Clear	1·4	19	—	—	—	—	1·9	24
4	0·0	0	95	14	12	12 10	12	0·0	0	—	—	—	0·3	4	—	—	—	—	0·0	0
5	0·4	5	201	29	14	14 5	8	1·2	15	—	—	—	1·9	26	—	—	—	—	1·0	13
6	0·0	0	99	14	8	10 55	7	0·0	0	—	—	—	0·0	0	—	—	—	—	0·0	0
7	0·0	0	124	17	11	13 10	5	0·4	5	—	—	—	1·3	18	—	—	—	—	4·1	52
8	0·6	8	133	18	12	10 0	10	0·1	1	—	—	—	3·3	45	—	—	—	—	0·0	0
9	0·0	0	136	19	10	11 35	10	0·0	0	—	—	—	0·0	0	—	—	—	—	0·1	1
10	2·0	25	231	32	26	12 15	26	2·3	28	58	16	Clear	0·0	0	—	—	—	—	0·2	3
11	0·9	11	197	27	24	11 45	24	1·7	21	33	9	Ci.	1·9	26	—	—	—	—	0·1	1
12	0·7	9	? 127	? 17	? 8	10 50	...	0·0	0	—	—	—	0·0	0	—	—	—	—	0·0	0
13	2·8	34	239	31	23	11 30	23	*3·1*	*38*	—	—	—	6·1	81	—	—	—	—	0·0	0
14	3·5	43	251	33	18	12 25	18	4·7	57	54	16	Clear	0·0	0	—	—	—	—	0·0	0
15	0·1	1	178	23	15	12 25	15	0·0	0	—	—	—	0·0	0	—	—	—	—	0·0	0
16	0·0	0	115	14	11	13 15	10	0·0	0	—	—	—	0·0	0	—	—	—	—	0·0	0
17	0·0	0	74	9	6	13 30	5	0·0	0	—	—	—	0·0	0	—	—	—	—	0·7	8
18	0·0	0	178	22	12	12 5	12	0·0	0	—	—	—	0·3	4	—	—	—	—	4·3	51
19	0·0	0	127	15	11	10 55	7	0·0	0	—	—	—	0·0	0	—	—	—	—	0·0	0
20	3·1	36	325	38	27	13 24	21	3·5	41	—	—	—	0·9	11	—	—	—	—	1·9	23
21	0·0	0	99	12	10	11 25	8	0·1	1	—	—	—	0·0	0	—	—	—	—	0·0	0
22	3·0	35	294	33	20	12 45	17	3·6	42	38	12	Ci.	1·5	19	—	—	—	—	4·0	47
23	4·0	47	364	40	27	13 30	22	3·0	35	48	16	Clear	0·0	0	—	—	—	—	0·0	0
24	4·5	52	360	40	27	12 10	27	5·1	59	66	22	Clear	2·9	36	—	—	—	—	3·8	44
25	4·5	52	377	41	20	13 5	20	4·5	52	54	18	Ci.	0·0	0	—	—	—	—	0·1	1
26	0·3	3	251	26	*x* 31	10 55	*x* 30	0·4	5	—	—	—	0·0	0	—	—	—	—	0·0	0
27	0·0	0	138	14	10	13 5	6	0·0	0	—	—	—	0·0	0	—	—	—	—	2·7	31
28	0·0	0	187	19	15	11 0	8	0·0	0	—	—	—	0·0	0	—	—	—	—	*x* 5·4	61
29	4·2	47	*x* 393	39	29	12 0	29	4·7	53	—	—	—	0·0	0	—	—	—	—	0·0	0
30	0·0	0	84	8	6	13 45	4	0·0	0	—	—	—	*x* 6·4	75	—	—	—	—	2·7	30
31	0·0	0	129	13	7	11 55	7	0·0	0	—	—	—	0·0	0	—	—	—	—	0·1	1
Means	1·29	16	194	24	16	—	14	1·45	18	—	—	—	0·90	12	—	—	—	—	1·06	13
Normal	0·65	8	—	—	—	—	—	1·39	17	—	—	—	0·94	12	—	—	—	—	1·55	19
	←5 years→							←35 years→					←5 years→						←35 years→	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Magnetism. Declination West.	Magnetism. Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	973·2	1007·6	83·4	81·4	*x* 85	81	11·4	9·1	91	83	18	16	20	5	10	1	10·6	Frequent < 4 h.–5 h. / 10 h.–14 h.	...	...	...
2	1000·1	1007·7	85·1	82·3	*x* 85	82	13·3	10·8	95	93	16	10	16	5	10●	8	1·7	● *a.* o. Fine sunset. < 20 h.	...	...	...
3	1018·2	1011·8	81·6	83·6	84	80	9·8	11·2	88	88	20	5	15	11	7	9	4·8	Fine to c.	...	...	...
4	1008·2	1016·3	82·7	82·3	*x* 85	81	11·6	9·7	97	83	21	8	22	10	10●	7	1·3	● showers *a.* Fine and bright *p.*	...	...	...
5	1023·7	1021·2	80·6	84·1	*x* 85	80	9·7	12·7	93	97	20	2	17	7	6	10	1·2	Fine *a.* Dull *p.* d. evening.	...	...	...
6	1021·0	1015·3	84·2	84·3	*x* 85	*x* 84	12·7	13·2	96	99	19	10	19	10	10≡⁰	10●⁰	5·1	≡⁰ *a.* Dull and o., with d.	...	...	...
7	1015·2	1023·7	81·7	81·6	84	80	8·7	8·2	78	73	25	12	25	10	8●	10	1·4	● showers early. ●⁰ in afternoon.	17893	19 58·3	68 6·2
8	1028·2	1033·3	83·1	83·1	83	80	11·7	11·4	95	93	25	9	25	6	10●⁰	10	0·3	● showers *n.* Fine *a.*; d. *p.*	...	...	...
9	1035·4	1035·8	82·1	82·4	83	82	10·1	11·6	88	99	25	5	—	1	9	10	1·7	≡⁰ *a.* d. at times.	...	...	...
10	1034·5	1034·5	81·4	82·9	84	81	10·5	11·0	96	91	22	4	24	7	5	10	—	d. early. Fair to o.	...	...	...
11	1033·7	1033·0	82·5	82·2	83	82	10·6	11·0	89	95	26	8	24	4	9●⁰	4	0·8	d. during day. d. ≡⁰ *n.*	...	...	...
12	1027·3	1022·2	82·6	83·4	84	82	11·4	10·7	96	85	20	6	25	10	10	8	0·4	d. and heavy mist during day.	...	...	...
13	1025·7	1027·9	80·9	80·2	83	78	7·6	7·7	*n* 71	76	29	8	—	1	8	9	0·5	Fair to c.	...	...	...
14	1025·7	1024·1	81·0	81·2	*n* 82	77	10·2	10·3	96	96	13	2	21	5	10	10●⁰	0·9	d. ≡⁰. Bright intervals. Ψ 21 h.	...	...	...
15	1021·5	1019·5	81·3	80·4	*n* 82	80	10·0	9·5	92	93	21	5	—	1	7	10	0·5	●⁰ *n.* and *a.* ≡⁰ *p.* Ψ 22 h.	...	...	...
16	1012·4	1004·0	82·5	83·1	84	80	10·2	11·7	86	95	14	8	14	10	9	10●	8·3	Dull all day. ● *n.*	...	...	...
17	997·6	999·7	83·8	81·0	*x* 85	80	12·4	9·1	97	85	15	8	20	7	10●	8	7·4	● *n.* and *a.* Fine to c. *p.*	...	...	...
18	1003·0	1005·5	80·2	80·7	83	79	8·5	8·9	84	85	17	5	17	4	4	7	8·8	● showers *a.* and *p.* ⌒ *a.* Ⓤ *n.*	...	...	...
19	1003·0	1009·8	84·7	81·6	*x* 85	81	13·1	8·1	96	73	19	10	21	14	10	2	2·3	● *n.* and *a.* q. afternoon.	...	...	...
20	1017·0	1011·2	80·5	81·7	84	78	7·8	10·7	75	96	23	12	15	10	7	10●	*x* 11·2	⌇● showers *n.* ● *a.* and *p.*	...	...	...
21	1009·8	1010·6	84·6	81·8	*x* 85	82	12·9	10·8	95	96	18	10	19	4	10	7	2·0	●⁰ showers all day.	...	...	...
22	1021·3	1027·3	80·8	80·2	83	80	7·5	8·9	*n* 71	88	21	10	16	4	8	8	2·2	Fine and bright.	17890	20 0·5	68 7·3
23	1016·0	1011·8	82·8	79·9	84	79	11·8	8·1	98	87	15	11	24	10	10●⁰	10●	5·8	Damp and d. all day.	...	...	...
24	1021·5	1023·3	79·0	82·6	83	79	7·6	9·4	82	79	20	5	17	7	4	10	0·4	●⁰ showers early, then bright to c.	...	...	...
25	1020·4	1018·5	82·3	82·7	83	82	10·7	11·6	92	97	16	6	17	6	10	10●⁰	3·9	d. ≡⁰ *a.* to dull. ≡⁰●⁰ *n.*	...	...	...
26	1017·6	1017·6	83·1	80·8	84	80	11·9	9·9	97	94	15	6	29	5	10●	7	2·0	≡⁰. d. at times. Clear *n.*	...	...	...
27	1021·5	1019·5	79·0	82·8	83	79	9·0	10·8	97	89	—	1	13	7	7	10	2·7	Fine to fair.	...	...	...
28	1015·7	1013·9	82·3	82·7	84	82	10·1	11·6	87	97	16	4	15	6	8	10●⁰	1·4	Frequent ● showers to fair. ≡⁰ d. *n.*	...	...	...
29	1011·5	1018·5	83·0	80·3	84	77	10·5	8·1	86	79	15	10	26	3	10	3	6·0	Fair early to gloomy. ● *p.* Fine *n.*	...	...	...
30	1024·7	1026·6	74·4	82·6	83	*n* 74	6·5	11·5	96	97	31	2	15	5	6⌙	10	1·3	c. to o. ● *n.*	...	...	...
31	1028·9	1028·3	81·9	81·9	83	81	10·2	10·2	90	90	15	2	17	3	9	10	0·4	o. *a.* Fine to c. *p.*	...	...	...
Means	1017·2	1018·7	81·9	82·0	83·7	80·1	10·3	10·2	90	89		7·1		6·4	8·4	8·3	97·3	Monthly **Totals** or **Means.**	17892	19 59·4	68 6·8
Normal	1012·6	1012·8	79·8	79·9	82·3	77·6	8·6	8·6	87	87		6·4		6·4	—	—	148·2	**Normals.**			
	←45 years→						←30 years→				←35 years→						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—9/17.—N. & Co., Ltd. Gp. XV.

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.	a. 200+	a. 200+	a. 200+	cm.	cm.
1	1002·3	1008·2	84·1	84·1	x 86	x 82	11·8	7·9	90	60	17	11	22	11	10●	5	1·0	80	79·9	80·1	366	—
2	1018·4	1012·2	82·3	85·1	85	80	10·2	12·8	88	91	16	3	20	9	10≡0	10●0	x10·4	75	79·9	80·2	361	—
3	1017·9	1026·2	83·0	80·0	85	80	9·4	8·6	77	86	22	6	19	3	3	0	—	80	81·0	80·3	362	—
4	1020·0	1013·4	83·2	84·3	85	81	11·4	12·5	92	94	18	7	19	9	10●0	10●	4·6	76	80·2	80·4	366	—
5	1023·9	1027·9	79·6	79·3	83	79	8·5	8·9	87	94	21	3	23	2	9≡0	1≡0	0·2	77	80·7	80·7	366	—
6	1022·1	1018·3	84·0	84·7	x 86	80	11·8	12·0	91	88	23	6	22	8	10	10	—	76	79·9	80·7	363	—
7	1008·1	1011·3	83·7	79·5	84	78	11·5	7·2	90	74	20	8	24	5	10	1	1·0	82	81·0	80·8	372	—
8	1020·0	1026·2	78·4	78·6	81	78	7·0	7·5	78	83	26	3	27	3	7	1	—	74	79·9	80·8	388	—
9	1032·2	1032·4	74·4	79·4	80	74	6·4	8·6	95	90	—	1	26	2	10≡⌐	6≡0	0·1	n 69	78·5	80·8	405	407
10	1031·4	1028·0	80·1	81·2	84	79	9·8	9·3	97	86	20	2	22	3	7≡0	8	—	73	78·4	80·8	398	—
11	1023·6	1028·9	82·3	79·6	84	78	9·3	7·8	80	80	23	6	—	1	7	10	0·7	78	79·0	80·7	390	—
12	1027·3	1014·5	79·2	81·8	83	77	8·8	9·8	94	87	6	3	20	7	10≡0●0	10	0·5	71	79·1	80·8	386	—
13	1012·2	1018·3	80·0	77·3	83	77	5·9	5·4	n 59	66	27	7	27	7	7	0	0·1	78	79·6	80·7	379	—
14	1025·5	1023·3	73·8	76·7	n 79	74	5·5	6·8	85	85	26	3	20	3	6≡0⌐	9≡0	—	n 69	78·0	80·7	369	—
15	1018·5	1021·1	81·0	78·9	82	78	7·9	8·3	74	90	22	6	21	3	10	0	0·1	73	77·8	80·6	362	—
16	1022·5	1019·7	77·1	80·1	81	75	7·7	8·9	94	88	—	1	19	3	10≡0⌐	10	—	71	77·7	80·5	355	—
17	1013·4	1010·3	79·3	83·0	83	79	8·8	11·8	93	97	17	2	17	4	10≡0	10	2·2	76	78·1	80·4	351	—
18	1011·0	1014·3	82·5	81·0	84	80	11·3	9·8	96	92	19	2	21	3	9≡0 p	10≡0 p	0·1	80	79·4	80·3	345	—
19	1017·7	1010·0	80·9	84·0	84	79	9·4	12·5	89	96	17	7	19	10	7 p	10●0	3·2	75	79·1	80·3	340	—
20	1015·3	1023·8	79·7	78·9	82	79	8·3	7·1	85	76	20	5	21	4	6	10	3·9	76	79·8	80·4	336	—
21	1017·9	1019·0	82·9	84·4	x 86	80	10·8	11·2	89	84	19	8	19	8	10	10	0·4	75	79·1	80·4	333	—
22	1022·0	1033·4	84·1	78·2	85	76	11·3	7·7	86	87	23	6	23	2	9	0≡0 p	0·4	82	80·5	80·4	329	—
23	1033·6	1022·5	71·1	81·5	83	n 70	5·1	9·7	97	88	—	0	17	7	10≡⌐	10	0·8	n 69	79·0	80·5	329	—
24	1021·1	1029·0	81·4	77·3	82	76	10·1	6·7	92	81	26	3	22	2	10	0≡0	—	79	79·3	80·6	328	—
25	1028·0	1025·0	77·7	80·0	82	76	7·4	7·9	87	79	20	5	20	4	8≡0	7	—	72	78·6	80·6	326	—
26	1024·9	1021·9	79·6	81·4	83	80	8·5	9·6	87	88	20	3	19	4	9≡0	8	—	77	78·8	80·6	324	—
27	1022·9	1025·1	81·8	83·2	84	81	10·1	11·5	89	93	20	2	21	2	10	10●0	0·8	79	79·1	80·6	322	—
28	1026·5	1026·7	82·3	82·9	84	x 82	10·6	11·2	91	93	—	1	18	2	10≡0	10≡0	—	81	80·1	80·5	319	—
29	1027·2	1027·9	81·6	78·8	85	80	10·0	8·6	90	94	18	3	—	1	9≡0	0≡0 p	—	73	80·5	80·5	315	—
30	1031·7	1033·9	79·6	79·9	81	79	8·9	8·2	91	83	—	1	—	1	10≡0	10≡0	—	72	80·0	80·6	312	—
31	1034·7	1033·2	78·2	78·5	80	77	7·6	7·9	86	88	—	1	—	1	10≡0	10≡0	—	77	79·8	80·7	308	307
Means	1021·7	1022·1	80·3	80·8	83·2	78·1	9·1	9·2	88	86		4·0		4·3	8·8	6·6	30·5	75·6	79·4	80·5	352	—
Normal	1016·4	1016·2	76·3	76·8	79·2	74·5	6·8	7·0	86	85		3·5		3·6	—	—	46·7 (45 years)	—	76·8 (12 years)	79·7	—	—
	45 years						30 years				35 years											

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

1	954·0	962·1	82·6	80·0	x 83	78	11·4	8·0	96	80	17	18	22	19	10●≡0	8●	20·2	No record.	REMARKS.
2	981·4	974·4	78·6	79·8	x 83	76	8·3	8·4	91	85	17	7	18	6	10	8	16·9		/ at times a. and p. ● p.
3	978·9	987·4	78·7	79·2	80	76	7·5	8·5	82	90	23	13	19	10	9	10	9·3		e. early ; ● later.
4	974·4	976·3	81·1	78·7	82	78	10·7	7·0	99	76	17	17	20	10	10●	10●0	14·2		Frequent ● squalls. Fair evening.
5	985·5	993·0	78·1	76·8	79	76	6·9	7·0	79	88	21	11	17	4	9	7	4·4		/●2 7 h.–9 h. c. to o. p.
6	983·6	979·4	82·7	81·0	x 83	77	11·6	9·1	97	85	19	11	20	7	10●0≡0	10	11·8		● squalls ; bright intervals.
7	971·2	976·3	78·2	77·2	80	76	6·9	6·7	78	81	23	12	26	13	6	4	0·7		d. to ● a. ●2 in afternoon.
8	990·3	997·8	75·2	75·5	78	74	5·7	6·6	79	90	26	8	—	0	3	7	0·2		● 7 h. Fair to showery a. Fair p.
9	999·3	998·3	78·9	81·8	82	76	8·3	9·9	90	88	22	7	22	6	9	10	3·0		Fine a.; very fine p.
10	992·0	989·4	81·4	80·7	82	x 80	9·2	9·1	84	87	23	14	23	14	10●0	10●0	5·7		≡ 7 h. Dull and d. p. ● 22 h.
11	991·6	998·9	78·3	70·2	82	n 70	7·5	4·0	84	80	27	5	—	1	10	6	2·3		o., with ● a. / 13 h. ● at times p.
12	990·6	974·0	77·0	79·3	82	72	8·0	7·6	99	80	17	6	22	15	10●0≡0	10●	3·2		d. 1 h. Fine a.; very fine p.
13	979·6	992·0	74·3	72·4	78	72	4·4	3·8	n 65	66	27	15	28	4	1	1Ψ	—		o., with ● a. and p. / 23 h.–24 h.
14	993·8	984·5	72·0	79·6	80	72	4·8	8·8	84	90	14	2	21	13	7	10●	5·9		/ 1 h.–5 h. Fine but cold a. and p.
15	978·4	987·7	80·7	77·3	82	77	9·0	7·4	86	89	22	17	21	2	10●0	10●0	1·4		o. to d. most of day.
16	988·0	984·1	78·0	79·1	79	77	7·9	9·1	91	97	19	7	18	7	10	10●0	2·2		● 1 h. / 7 h.–10 h. o. d. a. and p.
17	979·3	973·8	78·0	80·6	82	78	8·4	1·1	97	97	14	3	14	7	10●0≡0	10●≡0	15·1		d. 1 h. o.
18	976·8	978·1	78·4	79·1	82	78	7·8	8·7	88	92	19	8	18	11	9	9	1·2		d. 1 h. and a. o.
19	971·9	969·0	79·9	78·5	82	77	9·6	6·5	97	72	18	19	20	11	10●	8	28·4		●2 1 h. o. to c.
20	973·8	983·0	75·2	76·5	78	74	6·1	6·8	85	86	21	14	21	10	10●✱	10	x 29·8		Ψ 1 h. ● from 8 h. / 9 h.–12 h. ▲ p.
21	974·1	978·7	82·9	78·1	x 83	76	11·7	8·2	97	93	19	14	20	7	10●≡0	10●	14·5		● shower 9 h. ✱ squalls a. and p.
22	984·3	996·9	75·5	75·8	80	75	6·2	6·2	85	84	19	9	20	9	2	0	1·6		●2 1 h. / 2 h. ●2 a. and in evening.
23	995·3	980·5	77·0	80·0	80	75	7·1	9·4	88	94	16	11	16	16	10	10●	14·9		Fine a. to o. ● shower 15 h.
24	986·5	988·6	74·2	78·5	80	74	5·8	8·2	87	91	19	8	19	14	3	10●0	4·2		o. to c. / 18 h.–20 h. and 22 h.–24 h.
25	987·1	983·7	79·7	80·3	81	79	9·1	9·6	93	94	21	14	20	15	10●0≡0	10●0	4·7		●2 early. Fine to c. ● from 19 h. / 23 h.
26	987·9	986·4	78·2	75·8	81	75	8·2	7·1	93	95	19	5	2	3	9	10●	14·7		/ early. d. a. and in evening.
27	993·7	996·6	72·1	74·2	n 76	71	5·2	6·2	92	93	—	0	—	0	10	10	—		Fine to o. ● from 11 h. 30 m.
28	992·9	990·1	75·1	79·8	80	74	6·6	9·9	93	100	16	3	18	8	10≡0	10≡0	22·1		Fine to o. Fair evening.
29	991·5	990·9	79·6	80·0	80	79	9·1	7·7	94	77	18	9	18	15	10●0	10	7·9		●≡0 a. ≡ 17 h. ● from 18 h.
30	998·1	1001·3	74·3	79·5	80	74	6·1	9·7	91	100	—	0	17	3	3	10≡●0	0·6		o., with d., and ● at times.
31	1002·3	1001·9	80·1	78·9	80	79	9·7	8·7	96	94	20	7	17	5	10	10	—		●2 1 h. Very fine a. ≡2 21 h.
																			e. and ≡0 a. c. to o. p.
Means	984·8	985·6	77·9	78·2	80·6	75·5	7·9	7·9	89	88		9·4		8·5	8·4	8·6	261·1	—	Monthly **Totals** or **Means.**
Normal 1911-15	983·6	983·2	74·6	75·0	77·3	72·6	6·3	6·4	89	88		5·3		5·8	—	—	111·0	—	**Normals.**

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 29 days; they are computed from the data for those days on which values at each of the four hours, 3^h, 9^h, 15^h, 21^h, are given in the table. A similar note applies to the values in Table 6.
† The insulation was less satisfactory than usual.
x denotes the maximum and n the minimum value in the column.
z Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre.† Factor 4·12.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
		3 h.	9 h.	15 h.	21 h.	+.	−.	About 15 h.			Mean Time.		Mean Time.		Mean Time.	
		v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².			h m	γ	h m	° ′	h m	° ′
1	● *a*. Fair *p*. ● 15 h. and 16 h.	115	70	415	440	—	—	—	1	0	—	—	—	—	—	—
2	● 10 h.–13 h. ● *p*.	275	740	115	70	—	—	—	1	0	—	—	—	—	—	—
3	● till 2 h. Fine throughout.	70	275	485	1035	·36	·26	1·25	1	1	—	—	—	—	—	—
4	Dull. ● 21 h.–23 h.	205	275	275	70	—	—	—	1	1	—	—	—	—	—	—
5	Fair to fine. ⊕ 10 h.	345	805	530	945	·38	·37	1·00	0	1	—	—	—	—	—	—
6	●⁰ 3 h.–4 h. Dull throughout.	390	255	195	185	·52	·24	0·30	0	1	11 14	18463	14 23	15 14·7	14 30	66 57·6
7	● 12 h. Dull to fine.	70	115	*z*±	460	—	—	—	1	0	—	—	—	—	—	—
8	Fine early. Dull to fair 9 h.–17 h.	140	505	345	460	—	—	—	0	0	—	—	—	—	—	—
9	⌣ early. ≡ 9 h.–12 h. Fair *p*.	600	805	620	690	—	—	—	0	0	—	—	—	—	—	—
10	Dull to fine *a*. o. *p*. Fine *n*.	370	345	345	345	·26	·27	0·75	0	2	—	—	—	—	—	—
11	Fair till 14 h., then dull. ● 17 h.	160	325	205	690	·24	—	0·20	0	2	—	—	—	—	—	—
12	Dull *a*. ●⁰ 11 h. and 24 h.	485	555	390	185	—	—	—	1	2	—	—	—	—	—	—
13	Dull early to fair. ●⁰ △ 13 h.	90	160	345	415	·26	·65	0·60	1	2	11 15	18437	14 34	15 14·6	14 34	66 58·2
14	⌣ early. Fine till 14 h. ⊔ 19 h.	205	370	450	970	—	—	—	0	0	—	—	—	—	—	—
15	Dull *a*. to fair. Fine *n*.	275	275	600	690	—	—	—	0	0	—	—	—	—	—	—
16	⌣ *a*. Dull *a*. and *p*. ●⁰ 15 h.	460	875	555	600	—	—	—	0	1	—	—	—	—	—	—
17	●⁰ *a*. and *p*. Dull throughout.	275	390	275	275	—	—	—	0	0	—	—	—	—	—	—
18	Fair. Parhelion 15 h. ≡⁰ *p*. ⊔ 21 h.	90	345	230	530	·30	·34	0·15	0	1	—	—	—	—	—	—
19	Dull. ● at times *p*. ●² *n*.	415	345	255	140	—	—	—	1	0	—	—	—	—	—	—
20	Fair to fine. ⊔ 20 h.–21 h.	140	325	505	875	·84	·52	1·20	1	2	11 4	18479	14 20	15 19·6	14 40	67 1·4
21	● 2 h. 20 m.–4 h. Mostly o.	-460	90	385	485	—	—	—	1	1	—	—	—	—	—	—
22	d. 7 h. ● 9 h. and 11 h. Fine *p*.	115	255	485	1220	—	—	—	1	1	—	—	—	—	—	—
23	⌣ *a*. ≡² till 11 h.; then fine.	990	1890	740	300	—	—	—	0	2	—	—	—	—	—	—
24	d. 7 h. ● 8 h. o. to fine.	185	140	370	875	·50	·63	0·85	0	0	—	—	—	—	—	—
25	⌣ *a*. Fine till 14 h.; fair later.	460	555	325	645	·67	·26	1·40	0	1	—	—	—	—	—	—
26	Fair to fine *a*.: dull later.	185	505	275	645	·24	·22	0·40	0	1	—	—	—	—	—	—
27	d. *a*. and *p*. Dull.	160	370	300	415	·30	·30	0·45	0	0	11 14	18446	14 18	15 15·6	14 17	66 56·1
28	Dull and o. throughout.	345	415	370	645	—	—	—	0	0	—	—	—	—	—	—
29	Dull to fine.	415	530	715	370	—	—	—	0	1	—	—	—	—	—	—
30	Dull all day, with ≡⁰.	275	415	645	555	—	—	—	0	0	—	—	—	—	—	—
31	o. and ≡⁰ all day. ≡ 17 h.	415	505	...	205	·30	1·01	0·30	0	0	—	—	—	—	—	—
M.		268*	455*	405*	544*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre. Factor 5·25.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
										Maximum. 15000 γ +.		Minimum. 15000 γ +.		Maximum. 4000 γ +.		Minimum. 4000 γ +.		Maximum. 45000 γ +.		Minimum. 45000 γ +.	
	3 h.	9 h.	15 h.	21 h.	+.	−.	About 15 h.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².														
1	-491	-219	-498	45	—	—	—	2 *c*	0	19 51	1015	990	11 2	13 3	1070	1042	0 6	12 20	151	145	24 0
2	121	211	-189	143	—	—	—	1 *b*	0	20 56	1022	1002	11 33	13 26	1072	1048	21 9	19 20	150	142	5 30
3	-91	98	151	227	—	—	—	2 *b*	1	23 57	1023	988	11 9	12 9	1081	1015	23 7	18 17	149	136	4 50
4	76	-1284	143	53	—	—	—	2 *b*	1	7 58	1019	964	15 14	12 32	1079	1027	0 36	15 30	153	135	8 5
5	—	121	189	279	—	—	—	2 *b*	1	23 25	1022	971	18 36	13 4	1069	1012	1 3	18 47	159	126	5 22
6	68	106	-159	0	—	—	—	2 *b*	1	23 45	1019	994	23 37	13 52	1067	1024	23 33	20 5	? 150	136	12 30
7	—	—	—	—	—	—	—		0	0 17	1011	989	16 2	15 55	1068	1027	0 10	15 25	145	136	9 3
8	—	—	—	—	—	—	—		1	6 54	1014	988	11 55	{13 38 / 13 45}	1061	1046	22 4	16 0	145	138	{8 42 / 24 0}
9	—	—	—	—	—	—	—		0	23 1	1018	961	16 26	13 35	1072	1041	22 42	16 30	149	136	8 48
10	—	—	—	—	—	—	—		2	20 34	1112	950	21 20	17 37	1100	1003	22 37	20 27	199	120	24 0
11	—	—	234	317	—	—	—		2	20 33	*x* 1132	*n* 882	22 16	8 4	1093	*n* 864	21 26	20 37	*x* 228	98	21 37
12	166	106	—	-38	—	—	—	2 *b*	2	20 57	1040	940	22 23	10 45	1089	949	21 49	{9 / 20 5● / 20}	155	97	3 13
13	76	151	242	612	—	—	—	0 *a*	2	—	—	—	—	—	—	—	—	—	—	—	—
14	468	287	-83	143	—	—	—	1 *b*	—	—	—	—	—	—	—	—	—	—	—	—	—
15	-8	30	159	332	—	—	—	1 *a*	0	—	—	—	—	13 23	1057	1027	22 27	—	—	—	—
16	134	219	151	294	—	—	—	1 *a*	1	20 46	1014	966	12 38	13 17	1067	1004	20 57	19 57	142	129	7 10
17	91	30	294	423	—	—	—	1 *b*	0	5 50	1000	977	10 34	2 30	1060	1030	{10 / 10 8 / 32}	14 3	140	128	2 50
18	151	227	219	249	—	—	—	1 *b*	1	19 13	1008	981	11 40	1 38	1064	1008	19 25	16 15	138	130	5 40
19	134	-370	76	159	—	—	—	2 *b*	0	21 13	1003	986	11 56	13 16	1056	1030	20 25	10 38	133	129	6 30
20	8	166	*z*	242	—	—	—	2 *c*	2	9 24	1020	912	14 38	15 25	1078	979	22 47	15 15	160	119	8 42
21	-951	-340	-906	-1178	—	—	—	2 *c*	1	20 7	1009	976	14 16	13 54	1061	1006	{0 / 19 8 / 56}	19 56	136	126	6 40
22	83	151	174	166	—	—	—	2 *c*	1	5 27	1011	939	14 39	14 20	1088	1005	23 27	20 18	161	119	8 50
23	181	143	166	166	—	—	—	1 *b*	2	0 41	1050	946	13 34	6 50	1073	945	1 22	17 32	148	*n* 78	1 8
24	-15	143	128	15	—	—	—	1 *b*	1	23 36	1000	955	12 0	11 0	1056	1030	3 0	15 40	133	117	0 12
25	53	60	45	38	—	—	—	1 *a*	1	17 57	1031	944	11 57	8 57	1081	960	17 53	17 2	166	113	9 20
26	76	151	-204	-91	—	—	—	2 *b*	1	19 15	1004	959	11 31	1 48	1068	1005	18 53	18 50	132	109	2 15
27	211	227	227	227	—	—	—	0 *a*	0	21 13	1019	971	12 36	12 10	1062	1028	4 32	0 50	130	118	8 33
28	159	332	128	*z*	—	—	—	2 *c*	1	20 36	1030	973	11 21	13 12	1061	1012	21 8	22 1	128	121	13 36
29	-861	83	151	181	—	—	—	1 *b*	1	{3 / 6 14 / 8}	1003	967	12 5	2 32	*x* 1108	1013	22 25	17 40	127	90	2 54
30	38	340	423	355	—	—	—	1 *b*	1	22 44	1012	998	13 10	12 49	1057	1021	21 50	21 49	127	113	23 18
31	340	287	408	227	—	—	—	0 *a*	0	21 27	1021	963	11 50	14 27	1057	1020	18 16	15 0	127	114	{0 / 7 0 / 6}
M.	-5*	33*	51*	127*	—	—	—	—	—	—	1024†	965†	—	—	1067‡	1007‡	—	—	149†	121†	—

* 22 days. *See* note above. † 28 days. ‡ 29 days.

7. Seismological Diary.

Earthquakes :—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
1	i P (?)	13 39 49	...	...	...	...	...	Large, masked by wind and microseisms.
	e	13 43 1	...	...	...	...	...	
	i	13 49 1	...	...	...	...	...	
	F	16	...	...	...	...	...	
9	e	14 5 14	...	...	...	...	...	
	i	14 7 14	...	...	...	...	...	
13	M	7 19	25	...	80	...	...	
	F	7¾	...	...	...	..	...	
13	e	8 50 57	...	...	...	...	...	
	L	9 12	60	...	...	...	...	
		9 15	45	...	370	...	...	
	M	9 22	28	...	350	...	...	
	F	11	...	...	...	...	...	
24	e P (?)	7 1 32	...	...	...	...	...	
	S (?)	7 6 30	...	...	...	...	3210	
	M	7 14	22	...	230	...	...	
	M	7 16	18	...	250	...	...	
	F	8	...	...	...	...	...	
26	i P	7 42 40	...	...	...	...	...	
	i S	7 46 20	...	...	...	...	2200	
	M	7 50	17	...	96	...	...	
	F	8 20	..	...	...	...	...	
26		13 to 15	...	...	...	...	...	Small disturbance masked by microseisms.
30	e	21 17 20	...	...	...	...	....	Phases not identified.
	e	21 22 20	...	...	...	...	...	
	e	21 42½	...	...	...	...	...	
	F	23	...	...	...	...	...	
31	e S (?)	18 34	...	...	...	...	...	Masked by microseisms.
	L	18 56	...	...	...	...	...	*Note.*—Wind and microseisms masked most of the earthquakes during the month.
	M	18 59	26	...	17	...	...	

Microseisms of N. Component :—Eskdalemuir.

Day.	0 h. A_N.	0 h. T.	6 h. A_N.	6 h. T.	12 h. A_N.	12 h. T.	18 h. A_N.	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	3·1	7·5	2·6	6·5	2·5	7	2·5	7·5
2	2·5	7·5	2·6	7·5	2·1	8	1·8	7·5
3	1·9	6·5	1·7	6	1·7	6	1·9	7·5
4	1·8	7·5	1·8	6	3·0	6	3·9	8
5	3·0	7	3·1	7·5	2·4	7·5	2·7	6
6	3·7	5·5	3·3	6	4·4	6	2·9	6·5
7	4·3	6·5	4·2	5·5	3·7	6	2·7	7
8	2·8	6	2·7	5	1·7	6	2·0	5
9	1·8	5	1·6	6	1·2	6	1·1	5·5
10	1·5	7	2·1	7·5	3·7	5·5	4·2	5·5
11	3·7	5·5	4·4	5	3·3	5	2·4	5
12	2·1	4	1·7	4·5	2·1	4·5	3·7	4·5
13	4·3	6	4·7	6	4·3	6·5	5·2	6
14	No trace		2·5	5·5	2·5	5·5	1·8	5
15	2·1	7	2·7	5	3·1	7	4·1	7·5
16	3·4	7	3·5	6·5	2·7	6·5	2·3	6·5
17	2·0	7	2·1	5·5	1·7	5·5	1·1	5
18	1·6	4·5	1·2	6	2·1	10	3·0	8·5
19	3·7	9·5	2·9	9	2·3	7·5	5·0	7·5
20	6·0	7·5	7·9	9	7·8	9·5	7·2	7·5
21	5·5	8	6·2	8	7·2	8	5·4	7·5
22	5·6	8	5·6	7·5	4·2	7·5	4·8	7
23	3·8	7	3·6	8	3·6	8	4·4	6·5
24	3·1	7	4·4	6·5	3·8	6·5	5·1	7
25	3·5	7·5	3·3	6·5	4·2	8	3·2	7
26	3·3	7·5	4·4	7·5	3·6	8	3·5	7·5
27	2·7	7	2·3	6	2·2	7	2·0	7·5
28	1·9	7·5	1·9	7·5	2·3	7	3·0	6·5
29	2·2	5·5	1·9	6·5	2·3	5	1·7	5·5
30	1·6	5	1·5	5	1·5	5·5	1·5	6
31	1·6	6	2·2	7	2·2	7·5	2·7	6

Earthquakes :—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
1	13 42·0	14 44·9	Amplitude on trace 7·4 mm. Prolonged disturbance.
13	6 30	...	Series of small movements till 10 h. 30 m. Behaviour of instrument doubtful.
24	7 1·0	7 17·5	Amplitude on trace 7·9 mm. Prolonged disturbance.
26	7 41·1	7 50·3	Amplitude on trace 1·0 mm.
26	13 20	13 59	Series of small movements.
30	22 7	22 9·5	Series of small movements.
31	18 35·0	19 7·5	Amplitude on trace 1·0 mm.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	12·6	...	...	2·5	13·3	...	5·5	...	14·8	...	14·8	...	5·8	...	14·0	...	34·4	16	25
2	4·4	...	4·4	...	7·6	...	...	3·1	9·6	...	6·4	...	2·5	...	2·5	...	18·2	14	5
3	6·0	...	6·0	...	2·4	...	12·3	...	5·1	...	5·1	...	8·8	...	3·6	...	22·3	6	55
4	10·6	...	2·1	...	13·3	...	5·5	...	4·0	...	6·0	...	3·6	...	8·0	...	21·2	9	15
5	2·6	...	12·9	...	3·8	...	9·1	...	...	1·6	8·0	...	2·6	...	3·8	...	21·9	1	30
6	3·4	...	8·2	...	5·8	...	8·7	...	5·4	...	8·1	...	5·7	...	8·5	...	19·4	13	35
7	...	1·2	6·1	...	...	2·6	13·1	...	...	8·2	12·3	...	...	12·3	12·3	...	27·0	19	50
8	...	12·0	8·0	...	...	8·8	8·8	...	...	4·6	6·8	...	...	1·8	2·7	...	21·0	5	35
9	...	4·4	6·6	...	...	2·9	4·3	...	1·8	...	4·3	...	1·8	...	9·0	...	14·3	21	15
10	...	...	8·9	...	4·7	...	7·1	...	2·0	...	10·3	...	2·0	...	10·3	...	19·8	23	35
11	2·4	...	11·9	...	...	...	12·1	...	...	4·6	...	...	...	2·3	...	...	21·4	5	25
12	...	...	6·6	...	2·9	...	6·9	...	5·7	...	8·5	...	...	5·3	12·8	...	22·1	22	50
13	...	11·1	11·1	...	...	11·1	11·1	...	...	12·3	8·2	...	...	8·1	5·4	...	26·3	10	5
14	...	6·5	6·5	...	...	0·8	3·8	...	4·0	...	6·0	...	1·7	...	8·3	...	16·3	22	15
15	3·0	...	7·3	...	...	...	10·8	...	2·0	...	10·3	...	2·8	...	6·7	...	22·0	9	55
16	1·2	...	5·8	...	3·0	...	3·0	...	6·5	...	1·3	...	7·7	...	1·5	...	13·5	20	50
17	8·3	...	1·7	...	8·5	...	...	...	6·8	...	1·3	...	6·7	...	2·8	...	15·4	3	5
18	3·7	...	5·5	...	4·0	...	4·0	...	5·5	...	3·7	...	6·6	...	4·4	...	13·9	20	45
19	5·6	...	5·6	...	10·9	...	4·5	...	10·4	...	7·0	...	4·4	...	10·6	...	22·4	10	40
20	11·6	...	4·8	...	2·6	...	12·9	...	...	...	14·8	...	5·6	...	5·6	...	26·5	12	45
21	10·6	...	7·1	...	7·6	...	7·6	...	7·2	...	7·2	...	7·8	...	7·8	...	25·2	0	35
22	6·7	...	6·7	...	1·9	...	9·6	...	2·0	...	10·3	...	2·0	...	4·8	...	19·2	15	5
23	5·7	...	2·4	...	9·0	...	...	1·8	12·9	...	2·6	...	11·3	...	2·2	...	22·7	23	25
24	...	2·0	10·0	...	1·9	...	9·6	...	3·0	...	7·3	...	6·0	...	9·0	...	23·1	0	25
25	5·7	...	8·5	...	7·8	...	7·8	...	8·7	...	5·8	...	7·4	...	7·4	...	20·8	8	55
26	5·1	...	5·1	...	5·1	...	5·1	...	7·6	...	5·1	...	6·5	...	6·5	...	17·5	20	25
27	...	4·8	2·0	...	...	0·7	...	0·7	...	0·6	0·4	...	...	...	...	1·3	7·7	2	45
28	3·3	...	...	...	7·4	...	1·5	...	8·2	...	3·4	...	7·3	...	3·0	...	16·1	14	50
29	8·2	...	3·4	...	7·7	...	1·5	...	7·5	...	...	...	8·3	...	1·7	...	16·5	13	35
30	7·4	...	4·9	...	4·1	...	2·7	...	5·1	...	1·0	...	4·8	...	1·0	...	15·9	4	25
31	4·3	...	...	...	3·2	...	0·6	...	3·0	...	1·3	...	4·3	...	1·8	...	9·3	0	5
S+N & W+E	174·4		182·6		165·4		195·1		180·7		187·6		163·8		179·3				
S−N & W−E	90·4		177·6		111·6		183·9		116·9		187·6		104·2		176·7				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	7·9	...	...	9·0	13·4	...	...	9·0	6·1	...	...	1·2	3·7	...	3·7	...	16·1	9
2	...	...	17·4	...	3·8	...	9·1	...	7·5	...	...	...	9·3	...	13·9	...	21·3	24
3	3·3	...	16·4	...	...	2·3	11·6	...	...	1·7	8·7	...	2·8	...	1·1	...	19·0	2
4	12·4	...	...	5·1	4·3	...	1·8	...	9·1	...	3·8	...	9·0	...	9·8	...	15·7	5
5	...	...	19·0	...	...	...	17·7	...	...	3·4	17·1	...	...	...	11·1	...	19·7	11
6	4·5	...	1·9	...	7·7	...	1·5	...	2·9	...	14·5	...	5·0	...	12·1	...	14·8	15
7	5·8	...	8·7	...	...	...	17·0	...	...	4·8	11·6	...	...	9·8	9·8	...	17·0	9, 10
8	...	7·4	7·4	...	...	6·8	4·6	...	...	5·2	3·4	..	...	0·8	0·6	...	12·1	2
9	6·9	...	2·9	...	3·7	...	3·7	...	2·8	...	14·1	...	2·9	...	14·5	...	17·4	23
10	...	...	17·7	...	...	...	15·7	...	...	3·8	19·3	...	...	2·7	13·5	...	19·7	14
11	...	5·0	12·1	...	...	9·8	6·6	...	...	6·1	2·5	...	...	1·1	0·7	...	16·1	1
12	4·0	...	1·6	...	12·1	...	...	...	5·8	...	14·0	...	...	...	10·8	...	22·9	24
13	...	13·9	20·7	...	...	18·2	12·2	...	...	15·2	6·3	...	...	8·2	3·4	...	26·9	4
14	...	2·5	1·7	...	8·9	...	...	...	7·9	...	5·3	...	5·7	...	13·7	...	16·1	24
15	...	3·5	17·7	...	...	3·9	19·6	...	...	9·1	13·6	...	...	3·0	3·0	...	22·3	6
16	0·9	...	1·3	...	5·5	...	3·7	...	2·2	...	10·9	...	2·6	...	6·4	...	12·1	17
17	1·8	...	1·8	...	2·3	...	0·4	...	4·9	...	...	3·3	7·9	...	...	3·3	11·8	24
18	9·3	...	...	1·9	3·6	...	2·4	...	10·0	...	2·0	...	12·3	...	2·4	...	12·5	21
19	10·9	...	2·2	...	15·4	...	...	3·1	11·3	...	2·2	...	12·8	...	5·3	...	17·7	10
20	8·4	...	12·5	...	7·7	...	11·5	...	3·1	...	15·4	...	...	...	12·5	...	17·0	10
21	10·6	...	2·1	...	7·3	...	10·9	...	7·5	...	11·1	...	6·3	...	6·3	..	16·4	17
22	5·1	...	5·1	...	3·9	...	19·6	...	8·0	...	12·0	...	...	...	...	3·3	20·0	9
23	4·7	...	4·7	...	12·3	...	2·4	...	12·9	...	...	2·6	11·6	...	...	2·3	15·1	18
24	5·3	...	7·9	...	8·3	...	8·3	...	6·2	...	9·2	...	7·4	...	4·9	...	13·4	16
25	9·0	...	9·0	...	8·1	...	5·4	...	6·4	...	9·6	...	5·8	...	14·0	...	15·7	24
26	6·3	...	15·2	...	2·2	...	10·9	...	0·9	...	4·5	...	0·9	...	2·1	...	17·0	1
27	0·6	...	2·9	...	*	...	...	...	*	...	...	...	4·8	...	2·0	...	6·9	24
28	6·8	...	1·3	...	11·3	...	...	2·2	10·9	...	...	2·2	14·9	...	3·0	...	11·8	10, 14
29	7·2	...	...	...	9·0	...	...	1·8	10·0	...	2·0	...	9·3	...	...	1·9	11·8	24
30	10·5	...	10·5	...	...	1·3	6·8	...	4·9	...	3·3	...	6·6	...	...	...	18·4	4
31	4·2	...	0·8	...	1·6	...	1·6	...	3·2	...	0·6	...	2·6	...	...	0·5	6·2	24
S+N & W+E	178·7		229·5		194·7		221·1		193·8		226·3		169·8		202·4			
S−N & W−E	114·1		215·5		110·1		188·9		95·2		207·7		118·6		186·4			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	13·1	...	5·4	...	10·2	...	15·3	...	4·2	...	21·2	...	3·8	...	9·2	...	19·6	9	58
2	6·2	...	...	1·2	10·3	...	10·3	...	7·2	...	10·7	...	6·5	...	6·5	...	20·5	9	43
3	...	...	11·7	..	...	...	8·3	...	4·5	...	4·5	...	6·1	...	6·1	...	18·2	1	45
4	8·8	...	3·6	...	8·3	...	8·3	...	7·4	...	11·1	...	...	3·2	7·7	...	20·0	6	52
5	...	1·4	7·0	...	...	...	3·3	...	1·1	...	2·7	...	5·2	...	3·5	...	11·3	0	20
6	2·0	...	9·8	...	2·0	...	9·8	...	4·1	...	10·0	...	3·7	...	8·8	...	18·0	17	55
7	4·0	...	9·6	...	...	5·1	12·3	...	...	5·9	14·2	...	...	12·4	12·4	...	23·0	21	0
8	...	10·4	7·0	...	...	7·1	7·1	...	...	3·0	7·3	...	...	5·9	5·9	...	20·7	1	20
9	...	2·4	5·8	...	...	6·2	2·6	...	...	3·2	2·1	...	...	3·2	4·8	...	14·4	7	21
10	..	3·5	5·2	...	...	3·5	8·5	...	...	2·7	6·6	...	...	4·0	9·6	...	16·5	22	54
11	...	4·9	11·9	...	...	4·5	10·8	...	...	7·4	7·4	...	...	4·4	6·6	...	17·1	2	53
12	...	3·0	3·0	...	...	1·1	5·7	...	...	...	10·8	...	...	...	13·3	...	20·7	22	25
13	...	7·6	7·6	...	...	8·8	8·8	...	...	10·1	6·7	...	...	5·4	2·2	...	20·0	0	25
14	...	3·9	1·6	...	...	2·1	2·1	...	...	...	5·8	...	...	...	5·4	...	9·6	23	51
15	...	...	7·1	...	...	...	6·3	...	...	...	4·6	...	...	...	2·4	...	12·4	6	8
16	4·9	...	...	1·0	5·7	...	...	1·1	9·0	...	...	1·8	11·2	...	...	4·6	16·4	22	5
17	6·6	...	1·3	...	8·1	...	1·6	...	9·6	...	...	...	3·8	...	9·2	...	15·0	14	30
18	3·0	...	3·0	..	4·1	...	4·1	...	3·7	...	5·6	...	5·0	...	5·0	...	13·0	17	36
19	7·7	...	5·1	...	8·5	...	3·5	...	6·7	...	10·1	...	...	2·2	11·1	...	19·1	19	55
20	...	...	12·1	...	...	3·5	17·7	...	...	...	7·9	...	7·3	...	4·9	...	30·4	8	53
21	7·9	...	11·8	...	5·6	...	8·6	...	8·8	...	8·8	...	8·6	...	8·6	...	20·0	1	21
22	6·3	...	9·4	...	...	...	6·7	...	...	2·6	3·8	...	3·2	...	0·6	...	16·1	0	58
23	6·9	...	...	2·9	7·8	...	...	1·5	8·8	...	...	...	7·7	...	5·1	...	15·9	17	37
24	...	5·1	7·7	...	...	2·6	6·2	...	...	...	5·0	...	2·2	...	5·4	...	15·0	2	13
25	3·0	...	4·5	...	5·0	...	5·0	...	2·4	...	5·8	...	2·2	...	5·4	...	12·5	16	15
26	2·8	...	4·2	...	3·5	...	3·5	...	0·9	...	4·5	...	2·7	...	6·6	...	11·0	21	35
27	3·5	...	5·2	...	1·8	...	4·3	...	1·0	...	4·9	...	2·7	...	1·1	...	10·5	1	38
28	5·0	...	2·1	...	5·4	...	...	...	6·3	...	...	...	5·8	...	...	...	11·0	20	20
29	5·8	...	...	...	7·0	...	...	1·4	7·0	...	...	1·4	4·6	...	...	...	13·0	10	22
30	4·1	...	...	0·8	3·2	...	...	0·6	2·4	...	...	1·6	3·5	...	...	2·3	7·0	1	30
31	3·3	..	...	3·3	2·4	...	...	1·6	3·0	...	...	3·0	0·6	...	...	0·6	7·5	3	55
S+N & W+E	147·1		171·9		143·4		186·9		133·0		189·9		137·1		174·9				
S−N & W−E	+12·7		+153·5		+54·4		+174·5		+63·5		+174·3		+55·7		+159·9				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in Gust. (Gorleston.)	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1																	26·0	19	5
2																	18·5	0	10
3																	18·9	12	10
4							No record.										17·7	19	25
5																	12·9	11	45
6																	16·0	14	35
7	1·7	...	8·3	...	1·6	...	8·0	...	...	1·7	8·3	...	...	3·4	8·2	...	16·5	3	10
8	...	6·3	6·3	...	...	4·0	4·0	...	...	4·9	3·3	...	...	3·0	2·0	...	14·4	12	5
9	...	2·2	1·4	...	...	2·2	1·4	...	...	2·1	2·1	...	...	0·8	3·8	...	8·3	22	10
10	...	2·4	5·7	...	...	1·9	4·5	...	...	...	6·6	...	...	...	5·9	...	13·2	14	5
11	...	1·8	9·0	...	...	4·9	7·4	...	...	3·2	...	0·6	...	2·3	...	...	16·3	4	40
12	...	2·6	...	...	...	3·3	...	...	2·6	...	3·8	...	1·3	...	6·5	...	14·3	22	25
13	...	5·7	8·5	...	...	7·6	7·6	...	...	7·8	11·7	...	...	6·2	4·2	...	23·4	16	40
14	...	5·2	3·4	...	...	4·3	2·9	...	...	1·4	3·3	...	...	0·9	4·5	...	19·4	0	10
15	...	1·1	5·5	...	...	...	7·5	...	...	1·6	8·0	...	...	2·3	5·5	...	15·9	12	0
16	...	0·7	3·5	...	...	0·6	2·9	...	...	0·8	4·2	...	...	0·7	3·5	...	9·1	23	35
17	...	1·1	2·8	...	1·8	...	2·7	...	2·5	...	2·5	...	2·4	...	3·6	...	9·6	4	30
18	4·8	1·0	...	...	2·6	...	0·5	...	0·2	...	1·0	...	1·3	...	1·9	...	10·8	3	15
19	2·4	...	3·6	...	4·3	...	2·9	...	7·6	...	5·1	...	7·1	...	4·7	...	20·0	16	45
20	0·9	...	4·5	...	2·6	...	3·8	...	3·3	...	7·9	...	...	...	5·2	...	17·9	13	32
21	6·6	...	4·4	...	4·7	...	7·1	...	3·4	...	8·2	...	5·5	...	3·7	...	16·2	8	35
22	3·8	...	5·7	...	2·9	...	4·3	...	...	1·0	5·1	...	0·5	...	2·6	...	16·1	2	35
23	1·6	...	4·0	...	2·0	...	0·4	...	4·3	...	...	...	6·2	...	...	...	17·2	23	55
24	4·8	...	2·0	...	...	2·2	3·2	...	...	0·9	4·5	...	2·2	...	3·2	...	15·0	0	5
25	3·1	...	4·7	...	3·1	...	4·7	...	3·8	...	5·7	...	3·0	...	3·0	...	12·5	14	20
26	3·3	...	3·3	...	2·2	...	3·2	...	1·8	...	2·7	...	2·3	...	2·3	...	10·7	3	30
27	2·4	...	3·6	...	...	...	3·6	...	...	2·0	...	...	...	0·9	...	1·3	9·0	2	10
28	...	1·4	...	2·2	0·4	...	...	0·9	2·2	...	...	1·4	2·4	...	...	1·0	6·4	17	25
29	1·8	...	0·8	...	2·2	...	1·4	...	2·0	...	...	...	2·8	...	1·1	...	8·1	20	30
30	2·8	...	1·1	...	0·9	...	0·9	...	0·3	...	1·3	...	0·8	...	0·6	...	7·5	0	30
31	0·7	...	1·1	...	0·3	...	1·3	...	1·3	...	...	0·9	1·1	...	...	0·7	5·6	22	40
S+N & W+E	72·2		95·4		62·1		87·1		62·7		98·2		59·4		79·0				
S−N & W−E	9·2		91·0		0·6		85·3		7·9		92·4		18·4		73·0				

* No record—instrument under repair.

9. Soundings with Pilot Balloons.

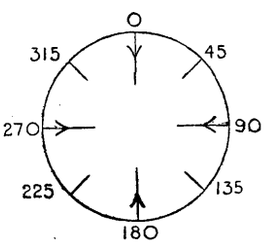
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind. Geostrophic. Degrees from N.	Geostrophic. m/s.	By Anemometer. Degrees from N.	By Anemometer. m/s.	At Heights above M.S.L. 500 m. Degrees from N.	500 m. m/s.	1000 m. Degrees from N.	1000 m. m/s.	2000 m. Degrees from N.	2000 m. m/s.	3000 m. Degrees from N.	3000 m. m/s.	4000 m. Degrees from N.	4000 m. m/s.	5000 m. Degrees from N.	5000 m. m/s.
		h. m.	°		°		°		°		°		°		°		°	
5	S. Farnborough	7 55	280	17	260	3·0	280	17·0	295	17·0	295	21·0	290	34·5	...	...	...	...
8	,,	7 50	320	16	305	8·0	315	18·0	330	24·5	340	15·5	330	20·0	...	...	...	...
14	,,	7 45	330	8	305	1·0	340	11·0	350	10·0	325	12·0	335	16·5	340	24·0	...	...
18	,,	7 50	240	8	260	1·0	275	9·5	260	7·5	240	11·5	...	...	...	...	...	...
18	Benson . .	12 10	230	8	...	0·0	250	7·0	245	10·0	230	11·0	220	13·0	215	23·0	...	...
24	,,	12 10	270	8	275	2·5	300	8·0	305	10·5	290	13·5	...	...	...	...	...	...
25	S. Farnborough	7 40	270	16	235	5·5	260	13·0	255	13·5	250	8·5	285	5·5	290	3·5	240	8·5
26	,,	7 35	260	9	250	2·0	260	10·5	265	14·5	270	6·5	275	10·0	280	4·5	...	...
29	Falmouth . .	11 35	200	14	180	10·5*	180	14·0	180	27·0	175	21·0	180	20·5	...	...	...	...
31	Benson . .	12 0	180?	4	...	0·0	325	1·8	210	5·0	325	2·1	340	10·0	350	14·0	...	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
S. Farnborough . .	70 m.	35 m.
Benson . . .	57 m.	25 m.
Falmouth (Pendennis)	51 m.	12 m.

Notes on Pressure Distribution, etc.

Jan. 5 7 h. Depression N. of Shetlands. Anticyclone over Spain.
8 7 h. Depression over Baltic. Anticyclone west of Bay of Biscay.
14 7 h. Anticyclone over Bay. Ridge of high pressure running N.N.E. over England.
18 7 h. Depression S.W. of Iceland. Anticyclone over Mediterranean. Balloon lost in A.-Cu. at 2700 m.
24 7 h. Depression off East Iceland. Anticyclone over Spain.
25 7 h. Depression between Iceland and Norway. Anticyclone over France and Spain.
26 7 h. Depression over Spitzbergen. Anticyclone over France and Spain.
29 7 h. Depression N. of Iceland. Anticyclone over Central Europe. *Anemometer at Pendennis Castle.
31 7 h. Depression over Iceland. Anticyclone over Europe.



Wind Protractor.

10. Nephoscope Observations.

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity—height—ratio. Degrees from N.	Milliradians per Second.	Components. W.-E.	Components. S.-N.	Remarks.
		°	mr/s.	mr/s.	mr/s.	
1	A.-Cu.	225	3·6	+ 2·5	+ 2·5	A.-Cu. formed from sheets of "false" Ci.
5	Ci.-Cu.	296	3·5	+ 2·2	− 1·5	Faint, indefinite Ci.-Cu.
7	Fr.-Cu.	292	28·0	+26·0	−10·5	
8	Cu.-Nb.	315	10·0	+ 7·1	− 7·1	Base of cloud measured.
10	Cu.	274	18·0	+17·9	− 1·3	
11	Fr.-Cu.	330	20·0	+10·0	−17·3	
13	Cu.-Nb.	318	12·5	+ 8·4	− 9·3	"Rain screen" measured.
15	Ci.-Cu.	290	2·5	+ 2·3	− 0·9	Ci.-Cu. in lenticular masses.
21	Ci.	255	4·8	+ 4·6	+ 1·2	Ci. to Ci.-Cu.
21	Fr.-Cu.	257	12·5	+12·2	+ 2·8	Transition type between Cu. and St.-Cu.
25	Ci.-Cu.	268	12·5	+12·5	+ 0·4	Ci. to Ci.-Cu. in lenticular masses.
26	St.-Cu.	258	7·6	+ 7·4	+ 1·6	*Observation at 12 h*
27	Ci.-Cu.	226	1·5	+ 1·2	+ 1·0	"False" Ci, becoming Ci.-Cu. and A.-Cu.
29	Fr.-Cu.	225	25·0	+17·7	+17·7	

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 2. FEBRUARY 1916.] Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	Maximum. 11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	0·0	0	*n* 74	7	*n* 8	10 40	7	0·0	0	...	...	...	0·0	0	...	...	...	...	0·1	1
2	0·0	0	215	20	20	10 0	15	0·0	0	...	...	...	3·7	43	...	...	...	...	4·6	51
3	0·0	0	138	13	14	12 15	14	0·0	0	...	...	...	0·0	0	...	...	...	...	0·0	0
4	3·6	38	448	40	39	11 30	39	3·7	40	...	...	...	0·1	1	...	...	...	...	2·1	23
5	6·4	69	520	46	29	12 30	29	7·6	82	65	25	Clear	4·8	54	...	...	...	...	0·1	1
6	0·0	0	145	13	12	12 0	12	0·0	0	...	...	...	0·8	9	...	..	...	...	4·3	46
7	5·2	55	538	46	33	12 5	33	5·1	54	68	27	Clear	0·9	10	..	...	...	...	5·1	54
8	2·2	23	450	38	36	12 20	36	2·7	28	43	17	Ci.	1·3	14	...	...	...	...	1·5	16
9	4·2	44	497	41	31	14 40	22	6·6	69	51	20	Hazy	3·8	42	...	...	...	...	3·5	37
10	4·4	46	500	40	33	12 10	33	5·6	58	58	23	Clear	2·4	26	...	...	...	...	0·0	0
11	0·0	0	120	9	14	13 30	5	0·0	0	...	...	...	1·1	12	...	...	...	...	4·4	46
12	6·5	67	572	44	32	11 30	32	7·0	72	56	23	Clear	0·1	1	...	...	...	...	0·0	0
13	3·8	39	500	38	33	12 5	33	5·1	52	...	...	...	4·0	43	...	...	...	...	0·0	0
14	2·5	25	420	31	33	13 35	15	2·9	29	...	...	...	0·1	1	...	...	...	...	2·9	30
15	4·5	45	558	41	37	12 15	37	4·8	48	58	25	Clear	3·4	35	...	...	...	...	0·0	0
16	4·7	47	565	41	*x* 46	12 5	*x* 46	5·3	53	74	32	Clear	1·8	19	...	...	...	...	3·1	31
17	*x* 7·5	75	*x* 601	43	39	13 40	37	*x* 8·2	82	74	33	Clear	5·6	58	...	...	...	...	2·7	27
18	0·0	0	127	9	12	14 10	4	0·0	0	...	...	...	0·0	0	...	..	...	...	0·0	0
19	0·2	2	276	19	40	11 25	30	0·4	4	...	...	...	4·2	42	...	...	...	...	0·0	0
20	0·0	0	445	30	24	11 25	22	0·0	0	...	...	...	2·3	23	...	...	...	...	0·0	0
21	0·0	0	228	15	12	10 10	9	0·0	0	...	..	...	6·4	64	...	...	...	...	7·1	69
22	4·3	41	556	36	41	13 10	34	4·0	38	...	...	...	*x* 6·6	65	...	...	...	...	6·0	58
23	0·7	7	353	22	35	12 10	35	0·5	5	...	...	...	4·2	41	...	...	...	...	*x* 7·9	76
24	0·8	8	348	22	38	13 45	29	1·8	17	34	16	A.-St.	4·1	40	...	...	...	...	6·2	59
25	0·3	3	213	13	31	11 0	11	0·2	2	...	...	...	4·7	46	...	...	...	...	0·7	7
26	0·0	0	179	11	24	12 45	6	0·0	0	...	...	...	0·0	0	...	...	...	...	4·5	42
27	0·2	2	355	21	33	13 5	32	0·5	5	...	...	...	0·9	9	...	...	...	...	6·3	59
28	0·0	0	344	20	29	11 55	29	0·3	3	...	...	...	0·0	0	...	...	...	...	5·6	52
29	2·7	25	579	34	*x* 46	11 50	*x* 46	2·2	20	...	...	...	0·0	0	...	...	...	...	3·8	35
Means	2·24	23	375	27	29	—	25	2·59	26	—	—	—	2·31	24	—	—	—	—	2·86	29
Normal	1·63	17	—	—	—	—	—	2·13	22	—	—	—	1·56	17	—	—	—	—	2·48	25
	←5 years→							←35 years→					←5 years→						←35 years→	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Magnetism. Declination West.	Magnetism. Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	′
1	1024·1	1014·9	81·6	83·2	*x* 84	81	10·6	10·9	96	88	15	5	15	8	9	10●	10·5	●^{0} early. Fine to c. *a.* ● *n.*	...	...	...
2	1014·1	1003·5	78·0	79·6	81	78	8·2	8·5	94	87	—	0	15	6	6●	10	*x* 18·4	Bright early. ● showers *a.* ⌒.	...	...	...
3	979·5	972·1	83·1	77·6	83	77	11·4	7·7	93	91	15	8	20	5	10	8	12·6	● in past *n.* ● showers. ↖ 22 h.	...	...	...
4	977·8	990·3	75·9	79·3	80	76	7·4	7·4	98	78	—	1	23	9	8	7	3·4	Snow on hills. q. with ●△. < *n.*	...	...	...
5	1003·2	1002·1	77·7	83·4	*x* 84	76	7·4	12·1	87	97	16	3	17	8	8	10●^{0}	11·0	Fine to o. ● *p.*	...	...	...
6	1003·7	1010·0	80·0	79·2	*x* 84	77	9·0	7·3	90	77	20	9	21	11	6	6	6·5	● showers *a.* and *p.* q. and △^{2} 18 h.	...	...	...
7	1012·6	1012·9	78·9	78·7	80	77	7·0	6·6	75	72	22	13	23	11	8●▲	6●	5·3	q. with △^{0} showers.	...	...	...
8	1008·9	1005·5	75·4	78·6	79	75	6·7	6 9	93	76	24	10	25	12	9	10●	9·5	q. and ✳△ showers.	...	...	...
9	1005·1	1016·6	78·0	80·1	81	76	6·6	7·7	76	76	29	12	28	8	6●	6	4·4	△^{2} and ✳^{2}●^{2} (sleet) *n.* △ *a.* ⌢ 16 h.	...	...	...
10	1011·4	1004·2	80·0	80·6	83	79	9·7	9·4	97	90	14	7	31	2	10●≡^{0}	10	17·3	≡^{0}● at times.	...	...	...
11	1007·0	1017·7	77·9	78·9	80	76	7·1	7·2	82	78	27	9	25	8	7	7	2·0	✳● (sleet) *a.* △ showers. ⌢ *p.*	17884	19 55·7	...
12	1017·3	1014·7	82·1	81·8	*x* 84	79	10·7	10·1	93	89	19	7	21	10	10	5	4·4	● from 16 h. Ψ 21 h. Ψ 23 h.	...	...	68 6·8
13	1018·7	1010·3	80·1	78·9	81	79	7·8	8·7	77	94	23	7	14	4	8	10●^{0}	5·9	Fine *a.* Dull with ● late *p.*	...	...	...
14	1010·4	996·2	76·3	75·4	82	75	6·7	6·7	86	93	24	16	12	6	8	10●	18·1	/ 6 h.–8 h. ✳● (sleet) △. ●^{2} *p.* Ψ	...	...	...
15	1003·3	994·6	79·9	83·9	*x* 84	76	9·4	12·0	95	93	21	9	19	14	10●^{0}	10	3·8	Dull and d. / 24 h.	...	...	...
16	998·0	1005·5	78·4	78·8	83	75	6·4	7·1	71	78	24	17	24	15	6●	7	5·6	/ 1 h., 8 h., 14 h., and 16 h. △●.	...	...	...
17	1011·6	1008·6	79·0	79·5	83	77	6·6	9·2	71	95	25	11	14	5	5	10●	6·5	△● *n.* Fine *a.* to dull. ● *p.*	...	...	...
18	1005·1	1008·5	83·3	82·4	*x* 84	*x* 82	11·9	9·1	96	78	21	14	24	9	10●^{0}	10	0·5	● *a.* to ●^{0}≡^{0} (mist). Finer later.	...	...	...
19	1014·9	1014·0	81·2	80·3	83	80	9·2	9·2	85	90	28	3	9	4	7	10●	10·1	Fine *a.* ● *p.*	...	...	...
20	1011·5	1017·6	80·4	78·6	81	78	9·8	7·4	96	82	4	2	3	10	10	8	—	Dull and o. ● *n.*	...	...	...
21	1023·5	1027·3	76·9	78·7	80	76	5·9	6·9	73	75	2	7	2	7	3	1	—	Fine.	...	...	...
22	1029·4	1027·4	76·6	76·7	81	75	5·4	6·5	69	82	3	5	4	4	6	1	—	⌣ *a.* Fine to c.	...	...	...
23	1028·3	1023·9	75·2	76·1	79	74	5·4	6·0	76	79	2	3	5	9	4	3	—	⌣ *a.* Fine and clear.	17874	19 53·6	68 6·6
24	1020·4	1013·4	74·9	76·0	77	74	5·4	5·5	77	73	2	6	2	10	6	2	—	Fine and clear *a.* Fine to c. *p.*	...	19 53·4	...
25	1009·6	1010·8	75·3	74·9	*n* 76	74	5·4	5·8	76	83	3	6	5	6	9	1	0·3	✳^{0} showers.	...	...	...
26	1008·7	1004·9	74·3	75·2	77	74	5·5	5·1	82	71	3	3	3	7	7	3	—	✳^{0} showers. Fair to c.	...	...	...
27	1000·4	999·4	73·0	74·5	77	*n* 72	5·3	5·8	87	85	—	1	—	1	7	0	0·2	Fine and sunny.	...	...	...
28	1000·0	1000·1	72·7	76·4	78	*n* 72	5·0	6·4	84	83	6	3	2	6	2	4	0·6	✳ in past *n.* Fine *a.* ✳^{0} *p.* ✳< *n.*	...	...	...
29	998·8	998·2	76·1	78·0	78	75	6·6	5·6	87	*n* 65	2	2	1	10	10	4	—	● early. Fine from 8 h. ✳^{0}.	...	19 54·6	...
Means	1008·9	1007·8	78·0	78·8	80·9	76·3	7·6	7·8	85	83		6·9		7·8	7·4	6·5	156·9	Monthly **Totals** or **Means.**	17879	19 54·3	68 6·7
Normal	1011·4	1011·5	79·6	79·8	82·5	77·5	8·4	8·5	87	86		6·0		6·1	—	—	130·6	**Normals.**			
	←45 years→						←30 years→				←35 years→						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—10/17.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
			a.	a.	a.	a.									Tenths of Sky covered.			a.	a.	a.		
	mb.	mb.	200+	200+	200+	200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.			mm.	200+	200+	200+	cm.	cm.
1	1030·8	1026·0	77·8	76·5	78	77	7·0	5·8	82	74	12	3	10	2	10≡0	10	—	74	79·2	80·8	305	—
2	1018·8	1014·5	77·2	79·4	81	73	7·5	8·6	91	90	17	2	17	5	10≡0	10●0	0·7	n 68	78·4	80·7	303	—
3	1004·3	990·0	81·2	81·1	83	x 80	9·9	9·0	92	84	16	9	16	12	10●	10●	9·8	78	79·0	80·7	302	—
4	981·8	990·8	81·2	80·0	82	79	9·2	9·0	85	90	16	7	15	2	10●	10	3·0	80	79·6	80·6	300	297
5	1003·1	1015·5	77·9	78·1	82	77	7·6	7·2	87	83	22	3	19	4	2	0	—	73	79·2	80·7	305	—
6	1012·3	1013·6	83·2	80·6	84	78	10·9	7·6	88	73	18	10	22	5	10	0	1·6	74	79·0	80·6	325	—
7	1012·0	1013·8	80·0	76·3	81	76	7·5	6·5	75	84	21	6	21	4	7	0	—	74	79·1	80·6	341	—
8	1009·5	1002·7	75·1	75·6	80	74	6·2	5·9	88	81	22	3	22	4	9≡0	3	—	71	78·3	80·7	347	—
9	999·1	1005·7	72·7	74·3	78	72	6·0	5·5	100	82	22	2	26	3	0≡0⌙	2≡0⌙	0·1	n 68	77·5	80·7	346	—
10	1011·7	1010·0	75·5	77·2	80	74	6·0	6·7	83	82	24	2	22	2	7≡0⌙	10≡0	5·1	70	76·7	80·5	342	
11	992·9	1002·3	78·0	76·8	79	76	8·3	6·5	96	82	10	4	29	7	10≡0●	10	3·1	74	77·0	80·4	340	—
12	1018·4	1021·1	76·3	77·7	81	76	5·9	6·6	77	77	29	4	20	4	1	2≡0	0·5	73	77·3	80·2	333	—
13	1018·8	1017·9	81·3	80·7	84	79	9·4	8·8	86	84	22	3	19	3	7∞	10≡0●	5·2	72	77·8	80·0	329	—
14	1010·2	1013·9	81·5	75·8	83	76	8·4	5·7	76	77	20	6	22	4	10	1	9·9	78	78·9	80·0	327	—
15	1003·2	997·8	75·3	83·1	84	74	6·0	11·3	84	92	25	5	22	8	10	10●	4·8	72	78·0	80·0	328	—
16	989·0	998·8	83·5	76·7	x 85	76	8·5	6·3	n 67	79	22	12	21	7	10	0	0·1	79	79·6	80·0	331	—
17	1003·0	1008·8	77·9	77·4	81	77	6·2	5·9	71	71	24	8	23	5	1	2	2·5	74	78·5	80·0	331	—
18	1005·8	997·2	76·6	83·9	84	76	7·2	10·2	92	79	17	2	23	8	10●≡0	10	2·3	72	77·9	80·0	335	—
19	1004·8	1018·5	81·4	77·4	83	76	7·6	7·1	69	85	23	5	—	1	10	5≡0	1·3	79	78·9	80·1	334	—
20	1021·2	1021·1	76·2	77·0	80	72	5·3	6·1	69	76	32	2	9	4	10≡⌙	9≡0	—	n 68	78·1	80·0	335	—
21	1020·2	1020·9	76·5	76·0	78	74	6·4	5·4	81	71	8	4	2	5	10≡0	7≡0	0·1	73	77·6	80·0	338	—
22	1020·1	1019·1	74·7	74·1	77	73	5·0	5·6	73	85	31	5	31	3	10⌙	0⌙	0·1	70	76·9	80·0	339	—
23	1018·8	1012·7	74·0	73·1	76	73	5·8	5·1	89	83	32	6	3	7	10✳	10✳	2·8	71	76·4	80·0	339	—
24	1008·3	1007·8	72·7	72·1	75	71	5·3	4·8	88	84	3	4	—	1	10✳	10≡0	1·6	72	76·2	79·9	338	—
25	1006·8	1000·7	70·9	74·0	n 74	n 70	5·1	5·7	97	87	5	2	3	7	10≡0	10✳≡0	x10·7	n 68	75·9	79·8	336	—
26	998·4	997·3	74·0	74·6	75	74	5·5	6·1	84	89	5	4	4	5	10≡0	10≡0△	4·7	71	75·8	79·7	334	—
27	991·7	995·4	74·2	73·7	76	73	6·3	5·9	95	92	3	3	6	2	10≡	8≡0	—	73	75·6	79·5	332	—
28	1000·4	993·3	74·3	74·2	78	73	6·1	6·3	91	95	—	1	6	5	10≡0	10✳≡0	8·5	69	75·4	79·4	335	—
29	992·6	989·1	76·5	79·3	80	75	6·2	8·8	79	92	16	5	5	5	10	10●≡0	1·3	73	75·4	79·0	344	351
Means	1007·2	1007·5	77·2	77·1	80·1	75·0	7·0	6·9	84	83		4·6		4·6	8·4	6·5	79·8	72·8	77·7	80·2	330	—
Normal	1014·7	1014·6	76·9	77·3	80·3	74·9	6·7	6·9	84	83		3·8		3·7	—	—	39·6	—	77·1	79·1	—	—
	45 years						30 years				35 years						45 years		12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

1	999·4	992·2	78·8	77·4	79	x 77	8·7	7·6	95	91	17	7	17	6	10≡0	10≡0	11·8		REMARKS.
2	980·2	979·8	78·4	71·2	79	71	8·6	4·6	97	86	18	10	—	0	10●	10	4·4		● from 11 h. ≡0 p.
3	964·0	949·0	77·8	79·0	79	72	7·9	8·0	92	86	16	12	14	10	10	10	15·3		●2 7 h.–9 h. Fine later.
4	950·2	959·2	74·1	75·1	79	74	6·4	6·9	96	97	—	1	17	4	10	0	1·4		●2 all a. ● p.
																			●0 at times a. ⊕ 13 h. Fine p.
5	971·3	973·0	73·9	77·4	79	72	6·3	7·8	96	94	20	3	18	17	9	10●	x 29·7		Fair to c. a. Fine p. 🌂 21 h.–22 h.
6	969·9	973·1	77·3	74·6	x 82	74	7·1	5·6	85	82	19	12	20	8	10●0	5	2·4		●2 1 h. and 7 h.–9 h. ⛵✳. 🔱 21 h.
7	972·4	974·1	74·3	73·8	75	73	5·1	5·5	77	85	20	9	19	9	10	6	3·8		✳ showers.
8	971·0	965·8	73·5	72·5	75	72	5·4	5·1	86	86	20	9	21	12	10✳	8	1·4		⊠. ✳ showers.
9	966·0	974·6	73·5	74·4	77	73	5·7	5·1	90	76	19	4	27	11	10	0	—		✳ 1 h. and 8 h. o. a. Bright p.
10	981·9	976·2	72·5	73·7	76	70	4·4	6·1	74	94	—	1	15	4	5⌙	10✳●	5·8		Fine a. ⊕ a. ✳0 and d. p.
11	969·9	979·6	73·5	73·5	77	73	6·3	5·1	100	81	—	0	28	7	10✳≡0	0	0·9		⊠. ✳≡0 a. ⊕ 15 h.
12	986·9	977·9	71·8	78·8	80	70	5·1	8·9	91	97	17	2	18	12	7⌙	10●	18·0		Fine a. to ●≡0.
13	982·1	982·1	75·6	73·8	78	72	6·2	5·8	85	90	20	11	16	3	5	4	7·4		Fine a. and p. 🌂 12 h.
14	966·8	972·5	76·7	72·5	77	71	7·0	5·2	88	88	19	11	21	12	9	10	13·1		●2 till 9 h. ⛵ 7 h. ✳ squalls. ⊠.
15	966·1	958·7	72·8	73·8	75	72	5·4	6·2	90	96	24	9	17	4	4	10●	12·8		⊠ (4 cm.). ✳ 7 h. Fine a. ● p.
16	941·4	958·3	73·5	73·1	78	73	5·7	5·2	90	85	22	24	24	8	10✳●	6✳	5·0		🌂 5 h. and 7 h.–11 h. ✳ 16 h.–21 h.
17	968·2	974·8	74·2	74·5	77	73	5·2	5·6	79	82	25	12	25	10	10✳	1	4·4		⊠ (1 cm.). Frequent ✳ showers.
18	970·7	963·1	73·3	77·0	77	73	6·1	7·7	98	95	14	2	26	5	10✳	10●0	9·9		⊠. ✳ a. ● p.
19	979·8	990·8	74·5	70·5	77	69	5·8	4·1	86	80	2	6	—	1	9	1⌙	—		d. 1 h. o. to c. Very fine evening.
20	992·9	994·5	69·1	69·4	77	67	4·4	4·4	94	93	—	0	—	0	10⌙	5⌙	—		♆ 1 h. ⊕ all morning.
21	995·1	998·2	71·1	70·7	76	n 66	4·9	3·6	93	71	—	0	—	1	7⌙	1	—		Fine.
22	996·2	999·7	73·4	74·5	75	72	5·4	5·2	85	76	32	8	2	9	8	10✳	1·0		✳ 9 h. Fine a. ✳0 p. ✳ 21 h.
23	1000·6	998·5	73·9	73·4	76	72	5·8	4·4	88	n 70	3	9	4	17	10✳	10	0·1		✳ squalls a. and p. ⛵0 noon.
24	993·7	987·3	73·4	73·6	76	73	4·5	4·6	71	73	4	15	4	10	9	8	0·2		o. to c. a. ✳ 14 h. 🌂 15 h.
25	986·0	986·4	74·1	72·7	76	72	5·2	4·4	80	74	6	10	4	7	5	10	—		Fair to fine. ✳ showers 21 h.
26	983·3	978·6	72·8	72·0	n 74	71	4·9	4·8	82	84	4	11	4	9	10	10✳●0	1·6		✳0 a. ✳ p. Dull and o.
27	972·1	972·4	72·5	74·2	75	71	5·2	5·8	88	87	3	5	3	8	10✳	4	2·8		⊠ (1 cm.). ✳ till 14 h.
28	974·4	973·6	73·3	72·8	75	72	6·1	5·0	98	84	4	11	4	7	10✳	2	0·6		⊠ (2 cm.). ✳● showers. ⛵ 15 h.
29	970·8	970·3	73·9	74·4	75	72	5·4	6·3	83	93	3	12	6	4	8	9	10·7		✳0 a. ✳ p.
Means	976·7	977·0	74·1	73·9	76·9	71·7	5·9	5·7	88	85		7·8		7·4	8·8	6·6	164·5	—	Monthly **Totals** or **Means**.
Normal 1911-15	978·7	978·4	75·3	75·7	78·6	72·8	6·6	6·8	88	88		6·1		6·0	—	—	184·4	—	**Normals**.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 26 days; they are computed from the data for those days on which values at each of the four hours, 3h, 9h, 15h, 21h, are given in the table. A similar note applies to the values in Table 6.
† The insulation was less satisfactory than usual.
x denotes the maximum and n the minimum value in the column.
z Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre.† Factor 2·36.				Charge per cc. ×10¹⁶.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
		3 h.	9 h.	15 h.	21 h.	+.	−.	About 15 h.			Mean Time.		Mean Time.		Mean Time.	
		v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².			h m	γ	h m	° ′	h m	° ′
1	≡⁰ *a*. Dull throughout.	185	330	500	530	·28	·41	0·40	0	0	—	—	—	—	—	—
2	≡⁰ early. Dull and o.	265	130	385	120	·17	·19	0·75	1	0	—	—	—	—	—	—
3	Dull. ● at times *a*. and *p*.	90	120	210	−240	—	—	—	2	0	11 25	18451	14 19	15 15·7	14 35	66 56·2
4	● *a*. ⧋ 14 h. Dull to fair.	−620	65	460	725	—	—	—	2	0	—	—	—	—	—	—
5	●⁰ 4 h. Fine throughout.	530	570	305	805	—	—	—	1	1	—	—	—	—	—	—
6	Dull. ● 14 h.–15 h. Fine *n*.	130	265	−65	460	—	—	—	1	0	—	—	—	—	—	—
7	Fine and bright most of day.	210	395	290	685	·67	·52	1·25	0	0	—	—	—	—	—	—
8	Fair to fine. ●⁰ 14 h.	200	765	355	410	·32	·24	1·25	0	2	—	—	—	—	—	—
9	⌙≡⁰ early. Fine throughout.	345	715	420	595	·22	·09	1·35	0	1	—	—	—	—	—	—
10	⌙ early. Mostly fine. ⊕ 15 h.	185	570	410	740	·45	·13	0·80	1	1	11 28	18445	14 22	15 16·5	14 46	66 56·5
11	● 1 h.–3 h. and 4 h.–12 h. Dull.	−25	475	240	130	—	—	—	1	0	—	—	—	—	—	—
12	Fine all day, ⧈ 21 h.	210	460	265	805	—	—	—	0	1	—	—	—	—	—	—
13	● early. Mostly fine. ● 21 h.	170	450	305	185	—	—	—	1	1	—	—	—	—	—	—
14	● till 1 h. c. to fine. ⧈ 21 h.	65	265	225	385	·88	·35	0·85	1	0	—	—	—	—	—	—
15	✳● early. Fine 9 h.–15 h. ● *p*.	z±	420	330	105	·34	·28	0·45	2	1	—	—	—	—	—	—
16	Fine from 10 h. ✳⁰ 22 h.	65	145	265	385	1·01	1·03	—	1	0	—	—	—	—	—	—
17	Fine. v. *p*. ⧈ 19 h.	170	355	290	530	·97	·71	1·05	1	1	11 3	18455	14 22	15 14·9	14 41	66 57·4
18	Dull and o., with ●.	265	−15	275	330	—	—	—	2	2	—	—	—	—	—	—
19	Mostly dull. ● 12 h. 30 m.–13 h. 10 m.	120	330	460	1030	—	—	—	1	1	—	—	—	—	—	—
20	⌙≡ early. ⊕ 12 h. 30 m. Dull *p*.	685	395	580	805	—	—	—	0	1	—	—	—	—	—	—
21	≡⁰ till 10 h. Dull.	580	740	715	925	·32	·26	0·95	0	0	—	—	—	—	—	—
22	⌙ early. Fair to fine. ✳⁰ late *p*.	395	555	355	950	·39	·08	1·15	0	1	—	—	—	—	—	—
23	⌙ early. ✳⁰ *a*. ✳ *p*.	225	z±	z±	z±	—	—	—	2	1	—	—	—	—	—	—
24	⊠ (5 cm.). ✳ *a*. Fine to dull *p*.	−25	305	845	715	·60	·39	1·00	1	1	11 31	18448	14 19	15 16·2	14 31	66 56·7
25	⊠ (3 cm.) ≡⁰ *a*. and *p*. ✳ *p*.	660	870	765	160	—	—	—	1	0	—	—	—	—	—	—
26	⊠ (8 cm.). ✳ *a*. and *p*. △ 21 h. ≡ *n*.	z±	580	370	555	—	—	—	2	1	—	—	—	—	—	—
27	✳ 4 h.–9 h. ≡ 9 h. Dull *p*.	410	−65	530	605	—	—	—	2	1	—	—	—	—	—	—
28	⊕ 9 h. Dull from 10 h ✳● *n*.	290	555	475	225	·19	·21	0·25	2	0	—	—	—	—	—	—
29	● till 2 h and 20 h.–24 h.	185	265	355	−240	·21	·28	0·45	2	0	—	—	—	—	—	—
M.		221*	385*	393*	491*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre. Factor 5·65.				Charge per cc. ×10¹⁶.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
					+.	−.				Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².														
1	113	159	76	574	—	—	—	1 *b*	0	23 36	1004	971	12 2	13 18	1057	1030	9 14	9 34	123	116	6 50
2	−91	−2292	227	355	1·16	1·27	—	2 *c*	0	6 22	1004	971	13 22	14 1	1067	1024	22 39	16 40	124	114	4 20
3	347	234	−1306	−8	—	—	—	2 *c*	0	23 47	1002	972	10 50	1 1	1059	1023	0 1	14 30	121	114	1 15
4	151	219	400	423	—	—	—	1 *b*	1	6 30	1006	970	19 13	19 6	1070	1030	{9 32 / 9 50}	20 15	134	111	13 30
5	453	415	302	0	·40	·46	—	1 *b*	1	22 46	1012	967	16 33	13 1	1083	990	20 7	20 15	147	108	10 0
6	−393	−76	302	211	—	—	—	2 *c*	0	19 27	1002	972	12 59	13 31	1068	1016	{21 47 / 21 55}	21 45	123	115	9 35
7	234	76	—	—	—	—	—	?0 *b*	0	23 37	1014	978	13 38	14 40	1056	1025	0 24	0 22	122	108	9 5
8	—	—	143	287	—	—	—	?1 *b*	2	6 7	1016	*n* 936	12 46	13 16	*x* 1093	967	21 4	19 52	160	104	23 8
9	257	189	521	302	—	—	—	1 *a*	1	20 27	1001	960	12 13	12 50	1067	1020	9 4	17 56	133	114	{0 40 / 12 40}
10	219	234	581	302	—	—	—	1 *a*	1	0 26	1017	953	9 35	1 6	1059	1024	21 9	20 28	122	107	1 22
11	−1593	619	1049	430	·12	·64	—	1 *b*	0	6 27	1007	969	13 27	15 5	1062	1022	1 5	21 0	129	109	11 18
12	136	279	−634	*z*	—	—	—	2 *c*	1	20 21	1019	956	12 39	12 57	1076	983	19 58	20 4	150	113	11 35
13	159	83	151	385	—	—	—	1 *b*	1	22 34	1067	965	10 41	2 55	1084	986	22 43	21 50	124	*n* 94	23 26
14	310	*z*	*z*	151	—	—	—	2 *c*	1	6 34	1009	962	13 35	14 1	1065	1012	0 1	17 0	128	104	0 0
15	83	189	128	*z*	—	—	—	1 *c*	1	6 8	1013	948	13 4	12 51	1065	1025	22 18	20 20	123	113	6 15
16	*z*	438	204	*z*	—	—	—	2 *c*	0	21 14	1000	975	11 12	13 3	1056	1025	9 52	16 55	124	115	3 27
17	219	*z*	—	—	—	—	—	?1 *c*	1	22 51	1046	960	17 36	13 59	1059	1009	17 40	17 51	144	107	24 0
18	—	—	−536	468	—	—	—	1 *b*	1	0 0	1043	946	14 39	13 39	1083	971	{1 12 / 1 21}	19 49	149	96	{0 57 / 1 26}
19	98	128	604	763	·12	·17	—	0 *b*	1	21 7	1036	959	14 2	14 54	1072	1012	21 0	16 45	141	110	2 32
20	227	362	242	415	—	—	—	0 *a*	1	20 8	1019	960	12 37	15 20	1063	976	19 56	19 57	145	121	11 10
21	249	378	272	453	—	—	—	0 *a*	0	6 9	1004	971	15 31	13 47	1075	1020	9 47	17 10	135	120	11 30
22	589	325	211	189	—	—	—	1 *b*	1	7 48	1012	961	13 16	13 58	1072	1018	9 55	16 8	143	112	5 54
23	196	*z*	196	159	—	—	—	1 *b*	1	5 31	1002	959	23 57	{13 47 / 14 17}	1072	987	{21 20 / 22 38}	21 33	151	103	24 0
24	151	143	181	151	—	—	—	0 *a*	1	0 32	1034	956	12 28	13 52	1056	938	0 28	17 8	137	103	0 6
25	204	151	227	174	—	—	—	1 *b*	0	22 1	1012	978	12 17	14 21	1057	1021	21 57	17 0	138	126	12 36
26	98	113	166	294	—	—	—	1 *b*	1	23 17	1038	974	17 2	13 57	1071	1010	23 49	17 23	156	122	12 40
27	136	227	143	294	—	—	—	1 *b*	2	19 56	*x* 1112	944	20 17	13 16	1068	*n* 917	19 50	19 37	*x* 183	121	12 45
28	136	302	264	174	—	—	—	1 *c*	0	21 40	1015	959	12 47	14 27	1060	1018	9 57	17 40	143	133	13 27
29	91	378	*z*	302	—	—	—	1 *c*	0	22 58	1018	957	12 20	{14 19 / 14 40}	1067	1025	10 0	17 30	144	131	12 18
M.	79*	101*	243*	310*	—	—	—	—	—	—	1020	962	—	—	1068	1004	—	—	138	113	—

* 19 days. *See* note above.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
1	P	7 49 19	...	...	...	...	...	
	PR_1	7 52 55	...	...	...	...	...	
	S	7 59 45	...	...	...	...	8120	
	L	8 14	...	...	...	...	...	
	M	8 19	39	...	92	...	...	
	M	8 20	40	100	...	...	...	
	F	10	...	...	...	...	...	
2		22 23 to	...	<4	<4	...	...	Small waves.
		22 46	...	...	...	...	...	
6		14 54 to	...	...	...	...	...	Masked by microseisms.
		15 0	...	...	...	...	...	
6	S (?)	22 12 46	...	...	...	...	...	Subsequent disturbance masked by microseisms.
10	L	2 46	..	...	...	...	...	Masked by microseisms.
	M	2 52	25	12	...	...	...	
	F	3 5	...	...	...	...	...	
14	L	10 53	...	...	...	...	...	
	M	10 59	31	16	...	...	...	
15	S (?)	11 54 25	...	...	...	...	Circa	Masked by microseisms.
	SR_1	11 58 27	...	...	...	...	6000	
	L	12 3	...	...	...	...	...	
	M	12 9	30	24	...	...	...	
20		10 52 to	...	<2	<2	...	...	Small disturbance.
		11 13	...	...	...	...	...	
20	P	17 59 7	...	...	...	...	...	Azimuth N. 13° W. Epicentre 52° N. 162° E. Harvard confirms.
	S	18 8 23	...	...	...	...	7920	
	L	18 24	...	...	...	...	...	
	M	18 27	25	32	...	...	...	
	F	21	...	...	...	...	...	
27	P	20 33 4	...	...	...	...	...	The disturbances marked e S both had large E.-W. components. The epicentre was to the West. The Δ's given for these two disturbances are calculated on the assumption that they were of type S; either may have been of type Y. For iL the speed 3·5 km/s. is assumed.
	e S (?) or Y	20 42 26	...	...	...	...	8050	
	e S (?)	20 43 46	...	...	...	...	9650	
	SR_1	20 48	...	...	...	...	8200	
	iL	20 57 43	...	...	...	...	7400	
	M	20 59	30	...	155	...	...	
	M	21 8	18	...	87	...	...	
	F	23½	...	...	...	...	...	
28	e S (?)	13 36 10	...	...	...	...	...	
	L	13 40½	...	...	...	...	...	
	M	13 44	31	7	.	...	...	
29	M	19 28	18	...	2	...	...	

Microseisms of N. Component:—Eskdalemuir.

Day.	0 h. A_N.	0 h. T.	6 h. A_N.	6 h. T.	12 h. A_N.	12 h. T.	18 h. A_N.	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	2·2	7·5	2·0	7	1·9	7·5	1·8	7
2	1·5	6·5	1·8	7·5	1·6	7·5	1·4	6·5
3	1·4	6	1·6	6	2·3	5·5	1·7	5·5
4	2·5	5	2·3	6	2·4	6	3·0	6
5	2·8	7	2·6	7	4·1	7·5	3·4	8
6	4·1	7·5	4·3	7	4·9	8	5·3	8·5
7	(e)	(e)	4·6	8	4·7	8·5	4·8	7·5
8	4·2	8	4·6	7·5	5·4	8	5·1	8
9	5·3	8	3·3	7·5	3·1	7	2·5	7
10	2·5	5·5	2·1	6·5	2·2	7·5	3·7	7·5
11	2·7	7	2·6	6	2·2	7·5	2·0	7·5
12	3·2	7	3·1	7	2·7	7	3·1	7·5
13	2·8	7·5	5·2	8	5·9	9	6·9	8·5
14	3·8	8·5	2·9	7·5	3·5	7·5	4·5	8
15	3·9	7·5	3·1	8·5	(e)	(e)	3·3	7·5
16	2·8	7	2·7	7·5	3·0	7·5	2·7	7·5
17	3·5	7·5	2·1	8	2·4	5·5	2·3	5·5
18	2·0	7	1·2	6·5	1·3	5·5	1·4	5·5
19	1·6	6	1·2	7·5	1·3	7	1·0	7
20	1·7	5·5	1·0	6	1·0	5·5	(e)	(e)
21	0·8	6	0·9	5	0·8	5	0·9	5
22	0·9	5	0·9	5	0·8	5	0·8	5
23	0·9	5	0·7	5	1·0	4·5	1·1	5
24	0·9	4·5	0·9	5	0·9	5	1·1	4·5
25	0·8	5	0·9	5	0·8	5·5	0·8	5
26	0·7	5	0·8	4·5	0·7	5	0·7	5
27	0·8	5	0·9	5	0·7	5	0·8	5·5
28	0·8	5	0·7	5	0·9	5	0·9	5
29	1·0	5	1·0	4·5	1·0	5	0·8	4·5

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
1	7 52·1	8 29·5	Amplitude on trace 3·8 mm. Prolonged disturbance.
5	...	15 32	Very small movement.
6	...	14 53	Series of small movements.
6	22 14·0	22 49·1	Amplitude on trace 1·8 mm. Prolonged.
10	...	3 0	Very small.
14	...	11 approx.	The disturbance was recognisable at 11 h. 4 m. before artificial movements arising from changing the sheet had fully subsided.
15	11 54 4	12 7·5	Small.
20	18 9·0	18 42·5	Amplitude on trace 1·5 mm. Prolonged disturbance.
27	20 32·9	21 8·9	Amplitude on trace 5·5 mm. Prolonged disturbance.
28	...	13 49	Series of very small movements.
29	...	19 29	Very small.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	4·5	...	1·9	...	3·8	...	0·8	...	6·2	...	...	...	6·5	...	1·3	...	13·6	23	55
2	7·7	...	1·5	...	...	2·6	6·4	...	...	1·5	3·6	...	...	0·6	1·5	...	16·9	4	0
3	3·5	...	0·7	...	12·6	...	2·5	...	14·4	...	...	...	11·5	...	...	...	25·3	18	55
4	3·5	...	3·5	...	3·2	...	...	0·6	5·6	...	...	...	2·7	...	1·8	...	17·4	0	15
5	...	...	6·2	...	1·3	...	6·5	...	6·1	...	2·5	...	13·1	...	...	...	22·5	21	55
6	10·3	...	4·3	...	3·7	...	5·5	...	5·8	...	8·7	...	8·1	...	8·1	...	24·4	17	0
7	10·1	...	6·7	...	3·0	...	15·1	...	7·0	...	10·4	...	5·8	...	8·7	...	24·3	6	45
8	6·2	...	9·2	...	5·7	...	8·5	...	4·3	...	10·3	...	2·2	...	11·3	...	19·3	15	55
9	2·2	...	10·9	...	...	1·8	9·0	...	...	7·2	7·2	...	...	6·7	10·1	...	18·0	19	50
10	...	7·2	7·2	...	...	3·7	3·7	...	5·5	...	2·3	...	8·3	...	...	1·7	16·7	0	30
11	...	1·4	7·1	...	...	8·6	8·6	...	...	9·0	9·0	...	...	7·8	7·8	...	18·9	15	55
12	...	3·4	8·2	...	2·6	...	3·8	...	8·2	...	3·4	...	8·5	...	5·7	...	18·0	21	20
13	2·3	...	5·5	...	1·1	...	5·5	...	4·4	...	4·4	...	2·8	...	2·8	...	21·4	0	10
14	7·3	...	3·0	...	5·5	...	13·3	...	3·3	...	16·7	...	7·4	...	7·4	...	28·0	10	50
15	3·0	...	...	...	...	...	11·5	...	5·3	...	5·3	...	7·6	...	7·6	...	19·2	22	35
16	6·5	...	15·7	...	8·2	...	19·7	...	...	...	20·3	...	...	...	18·7	...	38·5	9	35
17	...	3·4	17·1	...	...	5·9	14·2	...	...	2·4	12·3	...	...	1·9	9·6	...	27·9	0	15
18	1·8	...	4·3	...	4·2	...	6·2	...	3·8	...	5·7	...	...	2·9	14·8	...	22·6	16	55
19	...	3·0	7·3	...	...	7·6	7·6	...	...	4·5	...	1·9	...	0·4	...	0·6	19·6	0	5
20	0·6	...	...	2·9	0·3	...	...	1·6	1·8	...	...	0·8	...	...	...	5·9	8·7	22	40
21	...	1·0	...	4·8	...	2·1	...	5·2	...	6·6	...	4·4	...	5·1	...	5·1	12·7	19	15
22	...	6·5	...	1·3	...	9·1	...	3·8	...	10·6	...	7·1	...	7·8	...	7·8	17·1	14	35
23	...	7·1	...	10·6	...	5·3	...	7·9	...	8·2	...	12·3	...	9·5	...	14·1	23·8	20	15
24	...	8·2	...	12·3	...	8·7	...	13·0	...	9·3	...	13·9	...	4·9	...	11·8	24·0	0	20
25	...	2·4	...	12·3	...	1·9	...	9·6	...	1·4	...	7·1	...	4·6	...	11·2	20·7	2	30
26	...	6·4	...	9·6	...	7·1	...	10·6	...	8·2	...	12·3	...	3·9	...	9·4	21·7	14	10
27	...	3·4	...	5·2	...	3·1	...	4·7	...	3·3	...	4·9	...	4·7	...	3·1	12·5	22	15
28	...	3·0	...	1·3	...	...	...	6·2	...	2·9	...	6·9	...	3·4	...	8·2	13·9	19	15
29	...	5·8	...	8·7	...	12·0	...	8·0	...	6·3	...	6·3	...	2·5	...	6·1	20·9	10	45
S+N & W+E	131·7		189·3		134·7		219·6		163·1		200·0		151·2		202·2				
S−N & W−E	7·3		51·3		−24·5		77·2		0·3		44·2		17·8		32·2				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	3·5	...	0·7	...	8·2	...	...	...	7·2	...	...	...	12·1	...	...	...	12·8	23
2	13·8	...	...	2·7	...	...	6·2	...	2·4	...	3·6	...	4·1	...	2·7	...	14·8	1
3	10·6	...	...	2·1	14·5	...	...	6·0	16·1	...	...	6·7	13·7	...	...	5·7	17·4	15
4	16·1	...	...	6·7	8·3	...	1·7	...	5·8	...	1·2	...	3·6	...	2·4	...	18·0	4
5	10·6	...	2·1	...	10·3	...	4·3	...	16·7	...	3·3	...	14·1	...	...	2·8	17·0	23
6	9·3	...	9·3	...	8·5	...	5·7	...	10·6	...	7·1	...	8·8	...	8·8	...	14·8	19
7	4·9	...	11·8	...	7·4	...	7·4	...	9·8	...	9·8	...	8·3	...	8·3	...	13·8	15
8	5·4	...	8·1	...	7·1	...	4·7	...	13·3	...	5·5	...	5·3	...	5·3	...	14·4	15
9	2·4	...	3·6	...	...	...	3·9	...	...	6·2	4·2	...	...	7·6	5·1	...	10·5	18
10	...	5·8	5·8	...	...	1·1	0·7	...	2·1	...	2·1	...	6·1	...	...	1·2	10·5	23
11	10·0	...	...	2·0	...	...	3·9	...	...	1·4	3·3	...	1·4	...	3·3	...	10·5	4
12	2·8	...	2·8	...	10·3	...	2·0	...	12·8	...	...	...	9·2	...	6·2	...	16·4	18
13	9·2	...	6·2	...	7·9	...	5·3	...	7·0	...	10·4	...	5·8	...	5·8	...	13·8	2
14	6·8	...	4·6	...	12·3	...	...	2·4	5·6	...	5·6	...	6·3	...	15·2	...	17·4	23
15	5·7	...	8·5	...	7·6	...	5·1	...	7·6	...	5·1	...	1·7	...	8·3	...	13·1	18
16	0·4	...	0·9	...	...	11·5	...	...	...	6·0	9·0	...	...	4·9	4·9	...	12·1	10
17	...	4·9	11·8	...	...	9·5	14·1	...	...	5·4	8·1	...	...	5·1	7·6	...	14·1	20
18	...	1·6	4·0	...	1·0	...	...	...	...	...	...	3·3	...	2·9	...	4·3	5·9	2
19	...	1·6	...	4·0	...	1·3	1·9	...	0·4	...	2·3	...	2·1	...	0·9	...	4·3	1
20	2·3	...	2·3	...	0·4	...	2·3	...	...	...	7·5	...	...	...	3·0	...	7·5	13, 15
21	...	1·2	5·8	...	...	9·0	6·0	...	...	7·4	4·9	...	...	7·6	5·1	...	10·8	9
22	...	11·9	2·4	...	..	10·2	...	...	...	9·2	...	...	...	6·4	...	2·6	12·1	3
23	...	4·8	...	2·0	...	4·7	...	3·1	...	1·0	...	5·1	...	0·1	...	0·7	7·5	11
24	...	2·6	...	0·5	...	5·5	...	2·3	...	4·7	...	3·1	...	4·7	...	3·1	6·9	24
25	...	...	...	6·2	...	...	...	2·0	...	0·3	...	1·6	...	0·7	...	1·1	7·5	1
26	...	0·4	...	0·6	...	1·1	...	1·7	...	2·1	...	2·1	1·0	...	...	5·1	5·6	20, 24
27	...	...	...	4·9	...	...	...	5·9	...	...	...	9·2	4·6	...	...	6·8	10·2	16
28	1·6	...	...	8·0	...	1·0	...	5·1	...	7·6	...	3·1	...	2·0	...	4·8	9·8	17
29	...	1·2	...	6·1	...	2·5	...	6·1	...	3·1	...	4·7	...	2·1	...	2·1	6·6	9
S+N & W+E	151·4		136·5		161·2		109·8		171·8		131·9		152·3		133·2			
S−N & W−E	79·4		44·9		46·4		40·6		63·0		54·1		64·1		52·6			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	...	...	...	1·0	...	...	2·3	2·3	...	...	1·0	3·8	...	2·6	...	8·7	23	58
2	5·8	...	2·4	...	6·6	...	2·7	...	5·4	...	...	...	6·2	...	...	1·2	14·5	23	2
3	6·9	...	4·6	...	13·3	...	...	...	16·7	...	...	...	1·6	...	8·1	...	23·8	14	58
4	1·6	...	8·1	...	4·8	...	3·2	...	...	5·1	7·7	...	...	4·0	9·6	...	24·4	18	58
5	...	4·0	9·6	...	...	3·8	9·2	...	2·4	...	5·8	...	10·4	...	4·3	...	17·0	20	10
6	7·6	...	7·6	...	9·1	...	9·1	...	...	2·3	11·5	...	...	...	12·5	...	27·0	10	17
7	2·9	...	14·7	...	...	4·8	11·6	...	...	2·7	13·5	...	...	2·6	13·1	...	28·0	5	0
8	2·2	...	11·1	...	...	4·8	11·6	...	...	4·8	11·6	...	...	5·9	14·2	...	25·5	16	5
9	..	4·6	11·2	...	...	7·0	10·4	...	...	14·2	5·9	...	...	11·6	4·8	...	26·5	12	5
10	...	7·6	7·6	...	...	4·4	6·6	...	8·5	...	3·5	...	...	...	12·5	...	16·6	20	2
11	...	9·8	2·0	...	...	14·6	6·1	...	...	13·9	9·3	...	...	13·5	5·6	...	25·7	12	54
12	...	9·0	6·0	...	...	1·1	5·7	...	1·5	...	7·4	...	1·8	...	9·0	...	20·5	0	15
13	...	1·9	9·4	...	...	...	7·5	...	1·9	...	4·6	...	7·9	...	11·8	...	19·9	23	31
14	...	2·0	9·8	...	...	...	18·8	...	...	6·6	15·8	...	7·6	...	7·6	...	29·7	9	14
15	...	8·0	19·2	...	...	2·4	12·3	...	...	...	17·6	...	...	...	19·2	...	33·8	1	52
16	3·5	...	17·7	...	...	7·5	18·1	...	...	7·4	17·7	...	...	7·4	17·7	...	31·0	9	39
17	...	6·9	16·6	...	...	7·7	11·5	...	...	4·8	11·6	...	...	...	5·0	...	28·0	5	18
18	...	2·9	14·3	...	...	3·3	16·4	...	...	...	19·2	...	...	3·6	18·1	...	25·1	17	54
19	...	6·1	14·6	...	...	5·3	12·8	...	...	4·7	4·7	...	1·8	...	1·2	...	24·6	1	15
20	1·6	...	2·4	...	3·8	...	...	2·6	5·6	...	...	5·6	3·8	...	...	3·8	12·6	19	0
21	1·2	...	...	0·5	...	8·8	...	8·8	...	7·2	...	10·7	...	4·5	...	10·8	16·1	14	20
22	...	3·5	...	8·5	...	6·5	...	6·5	...	7·3	..	3·0	...	5·6	...	5·6	17·0	17	20
23	...	3·5	...	8·5	...	2·0	...	9·8	...	8·0	...	5·3	...	9·7	...	6·5	20·5	22	3
24	..	5·8	...	8·6	...	6·5	...	9·7	...	9·4	...	9·4	...	3·7	...	8·9	20·7	10	50
25	...	1·7	...	8·6	...	1·4	...	7·0	...	0·9	...	4·5	...	5·2	...	3·5	14·5	1	6
26	...	7·7	...	3·2	...	9·0	...	6·0	...	10·8	...	4·5	...	6·2	...	1·2	17·9	8	20
27	...	0·7	1·1	...	...	6·2	...	1·2	...	4·2	...	...	...	...	...	...	10·0	9	55
28	...	1·3	...	...	1·3	...	...	3·1	...	2·3	3·5	...	...	3·9	...	1·6	11·6	10	16
29	...	4·6	...	1·9	...	5·0	...	...	.	3·8	...	...	...	3·5	8·5	...	17·0	19	49
S+N & W+E	124·9		229·8		152·0		230·6		164·7		214·9		135·8		228·5				
S−N & W−E	−58·3		150·2		−72·2		116·6		−76·1		126·9		−46·0		142·3				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in Gust. (Gorleston.)	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	2·8	...	...	2·8	1·0	...	...	5·1	0·7	...	...	0·1	0·2	...	...	1·0	8·2	9	45
2	1·2	...	0·5	...	2·3	...	...	...	3·5	...	3·5	...	5·2	...	2·1	...	12·3	18	35
3	4·5	...	1·9	...	7·7	...	1·5	...	8·9	...	...	...	11·6	...	...	2·3	22·0	20	10
4	11·9	...	...	2·4	10·5	...	...	...	6·9	...	...	...	3·2	...	0·6	...	24·5	1	55
5	3·2	...	...	0·6	1·4	...	2·2	...	...	...	2·6	...	3·2	...	2·2	...	10·5	4	15
6	5·8	...	1·2	...	6·6	...	4·4	...	5·1	...	5·1	...	1·0	...	4·8	...	19·2	13	35
7	2·5	...	2·5	...	4·0	...	6·0	...	...	...	7·9	...	2·1	...	5·2	...	16·2	11	10
8	1·5	...	3·6	...	1·8	...	4·3	...	1·8	...	4·3	...	1·4	...	3·3	...	10·8	10	50
9	0·6	...	3·2	...	0·5	...	2·6	...	0·6	...	2·9	...	0·6	...	3·2	...	6·7	22	5
10	...	0·8	4·2	...	...	4·0	4·0	...	...	2·5	2·5	...	1·8	...	2·7	...	12·7	8	55
11	2·6	...	0·5	...	10·4	...	...	7·0	6·4	...	...	9·6	...	1·5	...	7·7	16·9	9	55
12	...	7·6	...	3·1	...	3·6	...	...	...	1·4	2·2	...	3·0	...	2·0	...	12·9	4	5
13	4·2	...	4·2	...	1·4	...	3·3	...	...	...	5·2	...	1·0	...	2·4	...	12·1	3	0
14	3·0	...	...	...	...	...	6·2	...	...	...	11·8	...	1·3	...	6·8	...	25·3	16	10
15	4·0	...	1·6	...	...	2·1	0·9	...	...	...	4·9	...	4·3	...	...	...	12·4	12	25
16	3·9	...	9·4	...	...	...	11·1	...	...	2·7	13·8	...	...	...	9·2	...	25·4	13	55
17	1·5	...	7·4	...	...	2·6	6·4	...	...	3·6	8·8	...	...	...	6·9	...	19·2	4	40
18	...	...	4·6	...	1·3	...	3·0	...	4·2	...	0·8	...	1·1	...	5·5	...	11·9	13	35
19	...	3·3	7·9	...	...	3·5	0·7	...	...	4·6	...	...	...	1·5	0·6	...	14·1	4	0
20	...	1·8	0·8	...	...	1·1	0·7	...	...	1·8	...	2·7	1·8	..	...	1·8	8·7	19	15
21	5·7	...	...	3·8	1·7	...	...	2·5	...	3·5	...	3·5	...	3·0	...	1·3	9·9	2	40
22	...	3·0	...	...	...	2·8	1·1	...	...	9·6	...	1·9	...	9·4	...	3·9	18·2	17	40
23	...	8·6	...	12·8	...	10·5	...	10·5	...	6·9	...	16·6	...	3·4	...	17·1	27·7	12	10
24	...	3·3	...	16·4	...	3·1	...	15·8	...	2·0	...	10·0	...	...	...	8·9	24·0	7	35
25	...	...	...	4·9	...	1·9	...	9·3	...	9·0	...	13·4	...	7·4	...	17·8	21·1	21	15
26	...	3·3	...	16·4	...	2·2	...	11·3	1·2	...	...	5·8	...	1·5	...	7·4	18·3	2	50
27	...	2·0	...	10·0	5·0	...	...	12·1	4·4	...	...	10·6	9·2	...	...	6·2	15·7	8	55
28	1·7	...	1·1	...	3·0	...	1·3	...	1·3	...	...	0·9	...	...	...	11·8	13·1	23	25
29	4·7	...	...	4·7	6·8	...	...	1·3	1·6	...	...	4·0	1·9	...	...	4·5	13·0	9	5
S+N & W+E	99·0		132·5		102·8		134·6		94·2		155·4		81·6		149·2				
S−N & W−E	31·6		−23·3		28·0		−15·2		−1·0		−2·8		26·2		−34·2				

9. Soundings with Pilot Balloons.

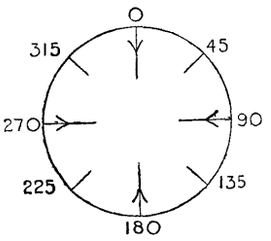
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind.															
			Geostrophic.		By Anemometer.		At Heights above M.S.L.											
							500 m.		1000 m.		2000 m.		3000 m.		4000 m.		5000 m.	
			Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.
		h. m.	°		°		°		°		°		°		°		°	
5	S. Farnborough	7 30	300	8	...	...	300	11·0	300	11·0	285	9·5	270	11·0	250	4·5	...	...
8	,,	7 25	270	10	250	6·0	265	11·5	270	16·5	275	11·5	260	13·5	...	...	...	...
9	,,	7 20	270	11	235	light	275	5·5	300	6·5	300	9·5	290	10·0	...	...	...	...
10	Eskdalemuir .	12 40	270?	7?	?	light	260	1·9	240	3·7	280	6·5	315	16·0	...	...	...	...
12	S. Farnborough	7 25	340	12	325	6·5	340	20·5	355	15·5	355	19·0	...	...	...	...	...	...
12	Benson . .	11 55	280?	9?	315	4·0	320	6·5	330	8·5	315	14·0	...	...	...	...	...	...
17	S. Farnborough	7 20	310	22	270	6·0	280	13·0	305	31·0	315	21·5	...	...	...	...	...	...
18	Aberdeen . .	11 35	...	...	160	2·0	155	5·0	185	3·8	175	6·5	...	...	...	...	...	...
21	Benson . .	12 20	90?	10?	40	5·0	90	8·0	85	8·5	80	9·0	...	...	...	...	...	...
28	,,	12 15	140	8	...	0·0	75	2·8	180	2·3	140	3·5	155	5·5	235	13·5	...	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
S. Farnborough . .	70 m.	35 m.
Benson . . .	57 m.	25 m.
Eskdalemuir . .	242 m.	15 m.
Aberdeen . . .	14 m.	32 m.

Notes on Pressure Distribution, etc.

Feb. 5 7 h. Deep depression over Iceland. Secondary over North Sea.
8 7 h. Depression between Iceland and Norway. Anticyclone over Azores.
9 7 h. Depression over Shetlands.
10 7 h. Depression S.W. of Iceland. Shallow depression over North Sea.
12 7 h. Shallow depression over Germany. Anticyclone over Azores.
12 18 h. Depression spreading down from Iceland.
17 7 h. Deep depression over Baltic. Anticyclone Azores to Spain.
18 7 h. Depressions off W. of Scotland and over Finland.
18 18 h. Atlantic depression moved over West Scotland.
21 7 h. Anticyclones over N.E. Atlantic and Germany. Shallow depression over Bay of Biscay.
28 7 h. Depression over Bay of Biscay. Irregular secondary over England. Depression spreading N.E. during day. Secondary dispersing.



Wind Protractor.

10. Nephoscope Observations.

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity-height-ratio.				Remarks.
		Degrees from N.	Milliradians per Second.	Components.		
				W.-E.	S.-N.	
		°	mr/s.	mr/s.	mr/s.	
1	Fr.-St.	207	20·0	+ 9·1	+17·8	
2	St.-Cu.	197	5·0	+ 1·5	+ 4·8	Thin high St.-Cu; Cu. below from W.N.W.
4	St.-Cu.	178	3·8	− 0·1	+ 3·8	Fused St.-Cu., rather indefinite.
8	False Ci.	252	3·1	+ 2·9	+ 1·0	False Ci., changing to thin A.-Cu.
9	Ci.	274	2·1	+ 2·1	− 0·1	Ci. to Ci.-Cu.: *Observation at 12 h.*
9	Fr.-Cu.	292	15·6	+14·5	− 5·8	
15	Fr.-Cu.	260	9·6	+ 9·4	+ 1·6	
16	Cu.-Nb.	328	18·0	+ 9·5	−15·3	Central part of cloud measured.
17	Cu.-Nb.	283	16 0	+15·0	− 4·0	Measurement approximate; base of cloud.
21	St.-Cu.	15	10·0	− 2·6	− 9·7	St.-Cu. formed from apices of Cu.-Nb.
22	Cu.-Nb.	18	12·0	− 3·7	−11·4	Base of cloud measured.
23	Cu.-Nb.	31	6·4	− 3·3	− 5·5	Degraded sheet of Cu.-Nb.
24	(?) Cu.-Nb.	15	8·3	− 2·1	− 8·0	Nb.-Cuf. or low Cu.-Nb.
25	St.-Cu.	5	7·6	− 7·6	− 0·7	
26	Cu.	37	7·0	− 4·3	− 5·5	Cu. changing to Cu.-Nb. Much internal change.
29	Cu.-Nb.	40	15·0	− 9·6	−11·5	Velocity approximate.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 3. MARCH 1916]. Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	Maximum. 11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec. Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	2·0	19	434	25	43	11 30	43	1·7	16	...	...	...	0·0	0	...	...	...	...	0·0	0
2	0·0	0	138	8	9	9 40	7	0·0	0	...	...	...	2·0	19	...	...	...	...	0·6	6
3	0·0	0	230	13	18	12 35	17	0·0	0	...	...	...	5·7	53	...	...	...	...	9·2	84
4	5·0	45	671	37	49	13 10	45	6·5	59	...	...	...	9·6	89	12 29	Hazy	2·08	75	9·2	84
5	1·7	15	628	34	48	12 50	44	2·7	24	...	...	...	0·8	7	...	...	...	...	7·5	68
6	3·2	29	608	32	52	11 45	52	3·9	35	...	...	...	8·3	75	...	...	...	...	1·4	13
7	0·0	0	249	13	21	13 10	14	0·0	0	...	...	...	8·7	78	11 57	Hazy	2·04	78	8·8	79
8	1·2	11	? 400	21	54	13 25	41	1·8	16	...	...	...	0·0	0	...	...	...	...	5·0	44
9	1·1	10	608	31	35	12 20	35	1·5	13	...	...	...	3·0	27	...	...	...	...	3·3	29
10	0·0	0	253	13	17	14 5	7	0·0	0	...	...	...	0·0	0	..	..	...	...	2·3	20
11	0·0	0	*n* 93	5	7	9 35	3	0·0	0	...	...	...	0·8	7	...	...	...	...	4·0	35
12	2·6	23	626	30	40	12 5	40	1·0	9	...	..	...	0·2	2	...	...	...	...	0·1	1
13	0·0	0	102	5	*n* 6	13 35	4	0·0	0	...	...	...	0·0	0	...	...	...	...	0·0	0
14	1·0	9	475	22	43	13 37	38	2·1	18	...	...	...	0·0	0	...	...	...	...	0·2	2
15	0·0	0	129	6	8	12 55	3	0·0	0	...	...	...	0·0	0	...	...	...	...	3·2	27
16	0·0	0	267	12	20	11 25	19	0·0	0	...	...	...	0·0	0	...	...	...	...	5·7	48
17	0·0	0	375	17	34	13 15	30	0·0	0	...	...	...	3·8	32	12 23	Hazy	1·79	72	0·3	3
18	0·2	2	402	18	31	14 25	14	0·1	1	...	...	...	1·3	11	...	...	...	...	0·0	0
19	0·0	0	346	15	27	14 30	22	0·0	0	...	...	...	0·0	0	...	...	...	...	1·1	9
20	0·0	0	353	15	41	11 10	31	0·0	0	...	...	...	0·0	0	...	...	...	...	0·0	0
21	0·0	0	158	7	11	10 40	7	0·0	0	...	...	...	2·0	17	...	...	...	...	0·0	0
22	0·0	0	335	14	23	10 30	16	0·0	0	...	...	...	4·6	38	...	...	...	...	2·1	17
23	0·0	0	314	13	24	11 25	20	0·0	0	...	...	...	3·1	25	...	...	...	...	8·3	67
24	4·3	35	813	34	47	10 45	43	5·5	45	...	...	...	4·5	36	...	...	...	...	9·2	75
25	7·7	62	1077	44	58	11 10	51	7·3	59	...	...	...	0·8	6	...	...	...	...	1·4	11
26	6·7	54	1014	41	58	10 40	28	7·5	60	...	...	...	4·7	38	...	...	...	...	3·9	31
27	4·6	37	951	38	58	12 20	58	5·2	42	50	33	Hazy	*x*11·2	89	12 18	Hazy	1·60	78	2·5	20
28	0·3	2	318	13	56	11 20	36	0·7	6	...	...	...	9·5	75	...	...	...	...	8·5	67
29	*x* 9·2	72	*x* 1460	57	*x* 65	11 55	65	*x* 9·9	78	69	46	Clear	6·1	48	...	...	...	...	4·3	34
30	0·4	3	823	32	50	10 25	42	0·7	6	...	...	...	0·0	0	...	...	...	...	0·5	4
31	1·2	9	787	30	42	15 35	33	0·9	7	...	...	...	1·3	10	...	...	...	...	*x*10·6	83
Means	1·69	14	498	23	35	—	29	1·90	16	—	—	—	2·97	25	—	—	—	—	3·65	31
Normal	2·35	20	—	—	—	—	—	3·39	29	—	—	—	3·06	26	—	—	—	—	3·97	34
	← 5 years →							← 35 years →					← 5 years →						← 35 years →	

2. METEOROLOGY AND MAGNETISM :—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L. :—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground : h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) and Velocity (*metres per second*).				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Magnetism. Declination West.	Magnetism. Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	995·3	997·9	78·5	78·5	79	77	6·3	7·9	*n* 70	87	32	10	1	10	10	10	*x* 7·5	o. at first ; ▲● showers later.	...	...	...
2	999·8	996·3	77·3	75·8	79	75	6·4	6·3	77	85	32	9	2	11	10●	7	4·6	▲● showers. q. afternoon.	...	...	...
3	1004·5	1010·1	74·7	73·8	*n* 77	72	5·1	4·9	74	77	1	7	1	2	3	1	—	✲ shower 7 h. Fine and bright.	...	...	...
4	1014·8	1018·0	73·6	74·3	78	72	4·6	5·5	73	82	—	0	6	2	0⌴	0	—	Brilliantly fine all day.	...	...	...
5	1017·6	1020·0	72·8	76·7	79	*n* 71	5·3	6·8	88	85	—	1	—·	1	1⌴	5	—	Fine *a.* to c.	...	...	...
6	1020·9	1018·9	78·2	77·2	81	75	7·1	6·1	81	74	31	7	2	7	8	1	0·3	A few ▲^{0} ●^{0} showers. ⌒ 16 h.	...	...	..
7	1018·0	1016·7	75·3	75·6	78	75	5·2	5·2	73	71	2	7	4	5	6	0	—	Fine during day. Fine sunset.	17862	19 55·3	68 6·7
8	1014·6	1013·2	73·7	75·7	78	72	5·3	5·9	83	80	2	3	4	7	2⌴	10	—	⌴ *a.* Fine to c.	...	...	...
9	1011·7	1013·2	74·8	75·1	78	74	5·7	5·6	82	79	5	11	5	5	6	1	—	Fair to c. Cold wind.	...	...	..
10	1011·0	1008·1	74·7	75·2	*n* 77	74	5·7	5·4	82	75	5	8	5	6	7	7	—	⌴ *a.* Fair to c. ✲^{0} 15 h.–16 h.	...	...	..
11	1001·0	995·9	74·5	74·8	*n* 77	74	5·2	5·0	77	73	6	4	6	4	8∞	8	—	o. early to fine.	...	...	..
12	994·3	993·7	75·5	77·4	78	75	6·6	6·8	90	82	4	6	6	6	10∞	10	4·1	Dull, with ∞. ●^{2} shower 23 h. 30 m.	...	...	...
13	993·7	995·0	78·9	78·1	80	77	7·8	7·4	84	84	8	9	5	8	10	10	0·3	Mostly dull. ∞ *p.*	...	...	...
14	995·8	995·0	81·0	81·1	82	79	8·3	8·6	78	80	8	8	9	8	10	8	5·9	Frequent ● showers.	...	...	...
15	997·8	996·8	81·4	79·7	84	79	9·0	8·9	82	91	8	7	7	3	7●	10	0·8	● showers *a.* and *p.*	...	...	...
16	997·9	1003·1	78·9	81·4	84	77	8·7	9·4	94	86	10	2	13	4	7	8	—	Fine sunrise. Fine to c. Coloured ⓓ.	...	...	...
17	1005·2	1006·5	81·6	81·8	84	79	8·8	8·1	79	72	8	6	6	5	9	10	1·4	Fine sunrise. ● showers *p.*	...	...	...
18	1003·6	1004·3	81·1	82·0	83	80	8·9	10·4	83	91	5	9	6	7	10∞	8●	4·3	∞ and ● showers. Coloured ⓓ.	...	...	...
19	1003·0	997·3	81·8	80·9	83	81	10·5	9·7	93	92	6	5	—	1	10∞	10	4·4	● early. Dull and g. ● showers *p.*	...	...	...
20	997·7	1004·4	83·3	82·6	84	*x* 82	10·1	9·4	81	79	9	10	6	3	10	7	2·1	● showers. Fair evening.	...	...	...
21	1002·0	999·7	79·7	77·8	82	78	8·9	7·3	91	85	5	3	5	4	10∞	10	4·4	Intermittent ● 10 h.–18 h.	...	...	...
22	1003·0	1005·5	77·2	76·8	80	76	6·9	6·5	84	81	6	7	5	7	7	7	—	Fair to c.	17855	19 54·2	68 7·9
23	1003·7	1001·8	75·9	77·0	80	74	5·4	6·3	72	78	5	3	32	5	1	3	—	⌴ *a.* Fine.	...	...	68 8·0
24	1002·5	1004·7	77·8	76·7	80	73	6·6	7·2	77	90	29	5	—	0	7	1	2·4	⌴ *a.* ⌒ 9 h. Fine. v.	...	...	...
25	997·8	997·0	78·8	74·8	81	73	7·9	5·0	86	73	22	10	25	11	8●	3●	3·0	● showers. ▲✲ evening.	...	...	...
26	996·9	998·6	76·0	74·9	78	75	6·6	6·0	87	86	26	8	22	7	9●	2	2·5	✲▲● showers. q.	...	...	...
27	994·9	992·0	76·2	76·7	80	74	6·3	6·8	83	85	5	2	3	4	8	7	—	▲ showers *n*. Bright and sunny.	...	...	...
28	998·0	1011·5	75·7	75·8	81	73	5·3	5·7	72	77	6	7	—	1	10	0	—	Fine, cold, and very dry.	...	...	...
29	1015·0	1016·9	79·8	79·6	82	72	7·6	9·1	77	94	21	6	22	7	9	7	2·9	Fine sunrise. ● showers.	...	...	...
30	1021·6	1025·5	80·7	81·7	84	79	9·7	9·0	93	81	22	5	19	5	7	9	—	● showers *a.* c. to o.	...	...	...
31	1026·7	1026·8	83·2	80·6	*x* 85	80	9·7	9·7	79	93	17	4	15	5	3	2	—	Brilliantly fine all day. Clear *n*.	...	...	...
Means	1005·2	1005·9	77·8	77·7	80·5	75·6	7·1	7·2	81	82		6·1		5·2	7·2	5·9	50·9	Monthly **Totals** or **Means.**	17859	19 54·8	68 7·5
Normal	1011·4	1011·7	80·0	80·1	83·2	77·5	8·5	8·5	85	85		5·6		5·7	—	—	111·7	**Normals.**			
	← 45 years →						← 30 years →				← 35 years →						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—10/17.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) and Velocity (*metres per second*).				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.	9 h.		0·3 m.	1·2 m.		
			a.	*a.*	*a.*	*a.*									Tenths of Sky covered.			*a.*	*a.*	*a.*		
	mb.	mb.	200+	200+	200+	200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.			mm.	200+	200+	200+	cm.	cm.
1	990·5	993·5	77·0	74·4	81	73	7·1	6·3	88	93	17	2	—	1	10≡⁰●	0≡⁰⌙	0·4	75	76·6	79·0	352	351
2	990·7	987·1	72·4	76·8	77	72	5·2	7·0	89	88	17	2	1	3	?10≡⌙	10≡⁰●⁰	1·9	69	76·3	79·0	356	—
3	989·3	999·2	74·9	75·1	*n* 76	74	6·3	5·0	89	71	32	7	2	6	10●	7	3·2	73	76·4	79·0	361	—
4	1006·8	1012·4	74·4	74·3	78	73	5·1	5·6	76	84	32	6	32	3	8	0	—	71	76·4	79·0	369	—
5	1013·2	1013·6	73·3	75·3	78	72	4·5	5·7	73	79	32	2	31	4	10≡⁰	5≡⁰	—	68	75·7	79·0	377	—
6	1010·2	1006·6	73·7	73·5	77	73	4·9	5·6	77	88	30	5	29	3	5	10≡⁰✲	6·8	71	75·7	79·0	382	—
7	1006·6	1006·8	72·9	75·0	*n* 76	72	5·4	6·2	88	88	31	2	2	6	10≡⁰✲	10≡⁰●	6·8	70	75·6	78·8	385	—
8	1002·4	1008·8	73·6	73·7	77	73	6·0	6·1	94	94	32	4	12	2	10≡⁰✲	1≡⌙	0·6	73	75·4	78·8	390	—
9	1012·6	1012·5	74·3	75·2	78	*n* 71	5·1	5·9	76	82	11	3	2	4	9≡⁰⌙	10	—	*n* 66	75·3	78·7	393	—
10	1009·3	1003·2	75·2	74·1	*n* 76	74	5·4	5·6	76	85	3	6	3	6	10≡⁰	10✲	1·4	73	75·1	78·7	392	—
11	996·5	993·3	75·0	76·0	*n* 76	74	6·4	6·8	91	90	4	5	4	3	10≡⁰●⁰	10≡⁰●⁰	0·3	73	75·4	78·6	389	—
12	993·3	997·3	77·7	77·0	83	76	7·6	6·9	89	85	4	2	5	8	10≡⁰	10	0·3	75	75·8	78·5	382	—
13	998·1	1002·2	76·9	77·9	79	76	7·2	8·2	89	95	5	6	8	6	10≡⁰	10●≡⁰	7·0	76	76·6	78·6	374	—
14	1006·3	1007·4	79·8	77·5	84	77	9·0	8·1	91	97	6	3	7	7	?10≡⁰	?10≡⁰	—	77	77·0	78·5	369	—
15	1003·7	1001·1	77·5	80·9	82	77	7·9	9·7	94	92	5	5	—	1	10≡⁰●⁰	10●≡⁰	5·1	76	77·8	78·6	368	—
16	1000·5	1004·9	80·2	80·7	83	*x* 80	9·5	10·0	94	96	—	1	5	2	10≡	10●≡⁰	7·6	78	78·1	78·6	366	—
17	1010·8	1013·0	79·5	81·7	83	79	8·6	10·0	89	89	3	3	8	2	10≡⁰	10≡⁰	—	78	78·6	78·8	367	—
18	1012·1	1010·3	80·0	80·0	85	77	9·3	9·9	93	99	7	3	—	1	10≡	*10*≡⌒	0·9	74	79·1	78·8	373	—
19	1006·9	1005·3	82·0	83·2	*x* 87	76	9·5	10·7	83	87	7	5	7	2	10≡	10≡	5·0	74	79·0	78·9	377	—
20	1003·8	1001·0	82·1	80·3	84	79	10·7	9·8	93	96	—	1	32	4	10≡⁰●⁰	10≡⁰	5·6	76	79·6	79·0	381	—
21	996·0	997·3	78·4	76·7	81	76	8·3	7·1	93	89	2	4	3	4	10●≡⁰	10●	10·1	78	79·8	79·2	413	—
22	1000·1	1002·4	76·4	75·3	78	74	6·8	5·8	87	81	3	6	2	6	10●	10	0·9	75	78·9	79·3	456	—
23	1000·6	998·2	73·4	74·7	*n* 76	73	5·4	6·1	85	88	2	3	—	0	10≡⁰✲	10≡⁰	—	73	78·1	79·5	467	469
24	996·1	1001·3	74·7	75·6	79	72	5·0	5·5	73	76	1	3	—	1	7	0⌙	—	69	77·8	79·5	461	—
25	1003·2	995·4	77·1	80·2	82	73	6·6	7·6	81	75	20	5	18	12	3	8	5·5	69	77·6	79·6	453	—
26	995·6	997·1	77·4	76·0	81	75	5·2	6·5	*n* 62	86	20	8	21	6	2	0	0·7	72	78·1	79·7	445	—
27	999·9	987·7	78·1	74·0	82	74	6·4	6·1	73	93	21	5	6	9	8	10✲●	*x* 23·7	72	77·9	79·7	438	—
28	977·9	998·9	77·6	72·9	80	73	7·4	5·6	88	92	14	8	31	11	10●	10✲	6·4	73	77·9	79·6	443	—
29	1013·6	1018·9	74·8	75·2	80	72	5·0	5·4	72	76	26	5	—	1	6	0≡⁰	—	69	77·4	79·6	444	—
30	1022·6	1027·5	80·5	79·1	84	74	8·6	8·5	83	90	18	4	19	2	10	?0≡⁰	—	69	77·7	79·6	440	—
31	1030·4	1029·4	81·5	79·4	85	78	8·9	7·6	81	80	19	2	—	0	10≡⁰	2≡⁰	—	74	78·5	79·5	435	—
Means	1003·2	1004·3	76·8	76·8	80·2	74·6	6·9	7·1	84	87		4·1		4·1	9·0	7·2	100·2	72·9	77·3	79·1	400	—
Normal	1012·8	1012·8	78·2	78·5	82·4	75·4	7·3	7·4	81	81		4·3		3·6	—	—	40·9 (45 years)	—	78·4	79·5	—	—
			45 years				30 years				35 years								12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

1	968·3	969·7	75·0	74·5	75	74	7·0	6·4	99	94	3	11	3	10	10	10●	5·4	
2	967·8	968·3	71·7	68·8	74	68	4·6	2·7	83	59	3	11	1	5	10	4	—	
3	971·4	978·3	70·5	70·0	74	69	4·3	3·2	83	65	1	9	2	3	8	0	—	
4	982·8	986·3	72·0	72·8	75	68	3·5	3·9	62	66	31	6	27	4	2	10	—	
5	987·5	987·7	73·4	73·0	75	70	4·5	5·2	71	85	2	5	29	3	8	10	0·2	
6	986·6	987·0	72·4	72·0	76	71	4·0	4·2	68	74	1	11	3	10	2	4	1·8	
7	991·1	989·1	72·4	72·0	75	70	3·8	4·8	66	84	2	10	4	9	6	3	1·2	
8	986·4	989·2	72·8	71·9	*n* 73	72	5·1	4·9	86	86	4	14	4	10	10	10	1·2	
9	990·6	991·2	72·5	72·0	74	72	5·1	4·3	86	76	4	8	3	5	10	10	—	
10	987·8	981·7	74·1	73·2	76	72	5·2	4·7	80	75	2	6	3	5	10	10	0·2	
11	978·0	975·3	71·5	72·6	*n* 73	71	4·2	5·2	76	88	5	5	5	9	9	10✲	0·8	
12	974·6	976·6	73·0	73·0	75	72	5·4	5·7	89	93	5	12	5	11	10✲	10✲	1·0	
13	977·9	979·9	73·1	73·5	75	73	5·7	5·7	93	90	5	11	5	8	10	9●⁰	0·5	
14	981·6	982·8	73·4	74·2	75	73	6·0	6·5	95	98	5	5	5	7	10✲	10≡⁰	1·6	
15	981·8	977·4	74·8	74·3	76	74	6·8	6·4	98	95	4	6	6	9	10	10●	5·8	
16	976·8	979·8	75·6	75·3	77	74	7·1	6·6	96	91	8	4	32	3	10	10●	*x* 13·5	
17	982·5	986·5	75·7	74·7	*x* 83	74	7·2	6·3	96	91	—	0	—	0	10	10	—	No record.
18	986·7	985·5	76·7	75·4	80	73	6·6	6·9	83	95	1	2	1	4	9∞	10≡⁰	—	
19	984·2	984·6	76·3	76·0	78	75	7·4	7·2	95	95	32	6	4	9	10	10●	8·7	
20	985·0	982·6	75·9	75·0	76	75	7·0	7·0	93	99	3	10	4	14	10●⁰	10●⁰	0·9	
21	977·0	978·0	75·0	73·9	76	73	5·9	5·9	84	90	4	9	5	7	7	10	0·3	
22	982·4	980·8	73·2	69·0	76	68	4·6	3·4	74	73	4	10	—	0	10	7	—	
23	970·8	969·6	71·6	65·0	74	62	5·2	2·7	94	78	—	1	—	0	10✲●⁰	0	6·1	
24	968·3	969·7	74·8	70·5	77	*n* 61	5·0	4·4	73	86	1	3	—	0	6	1⌙	0·5	
25	962·1	953·6	74·5	70·8	76	70	5·6	3·8	82	74	19	12	19	10	9	5	8·7	
26	952·3	955·4	74·2	73·3	77	71	4·8	5·8	71	93	25	12	19	14	8	10	3·8	
27	964·8	967·3	74·0	71·9	77	70	5·4	3·7	82	65	18	5	2	5	0	⁉6	0·4	
28	970·3	977·1	72·9	70·3	75	69	4·3	2·8	64	*n* 54	3	13	31	5	5	1	—	
29	982·7	981·5	74·6	75·8	77	68	5·0	6·9	74	93	25	3	17	7	2	10	1·1	
30	985·7	991·4	78·1	78·8	80	77	7·6	8·1	86	88	21	10	20	10	10	5	1·7	
31	993·4	996·6	80·0	80·0	*x* 83	*x* 78	8·2	8·4	82	84	21	12	20	4	6	9	—	
Means	978·7	979·4	74·1	73·0	76·2	71·2	5·6	5·3	83	83		7·8		6·5	8·0	7·5	65·4	—
Normal 1911-15	978·4	978·7	76·1	75·8	79·5	73·0	6·6	6·6	86	87		6·6		5·6	—	—	137·5	—

REMARKS.

● all *a.* ●² in afternoon.

✲ ⇜ *a.* ⊕ 13 h. Fine evening.
✲⁰ early. Fair to fine.
Very fine. Fine red sunset.
Fine to c. ✲⁰ *p.*
Fine *a.* ✲⁰ 13 h. and 15 h.

⊠ (3 cm.). ✲ early and *p.* Fine.
✲ ⇜ *a.* and *p.*
⊠✲ *a.* Fair to o.
⊠✲ early. Dull to fair.
⊠✲⁰ *a.* ✲⁰ in evening.

⊠. ✲ most of day. ⇜
⊠. ✲⁰ *a.* ● showers in evening
⊠. ✲ 8 h.–10 h., then dull.
Dull and damp. ● in evening. ≡⁰.
Dull and o., with ●.

o. to fine. ⊕ 17 h. ⊔
o. to fair. ⊕ 10 h. ≡⁝ evening.
o. and ≡⁰. ● in afternoon.
o. with ●.
✲ showers *a.* ⊕ 9 h. Fair to o.

✲ showers *a.* Fair to fine *p.*
⌙ early. ✲ *a.* Fine *p.* ⊠ *p.*
⊠ *a.* Fair to o. *a.* Fine *p.* ⩊ *n.*
●² in afternoon. ⸝ 14 h.–15 h. ✲ 16 h.–
✲² *n.* ⊠. ✲ *p.* [17 h.

⊠ (2 cm.). Fine *a.* and *p.*
⊠. ✲⁰ 8 h. ⊕⁰ 9 h. Fair to fine.
Fine to o. ✲ 18 h. ● 19 h.
o. with ● *a.* ● shower *p.* d. *n.*
Fair to fine *a.*; dull later.

Monthly Totals or Means.

Normals.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 25 days; they are computed from the data for those days on which values at each of the four hours, 3^h, 9^h, 15^h, 21^h, are given in the table. A similar note applies to the values in Table 6. † The insulation was less satisfactory than usual.
x denotes the maximum and *n* the minimum value in the column. *z* Indeterminate. ‡ Observations taken at time of considerable disturbance.

Day.	Remarks.	Potential Gradient, Volts per metre.† Factor 2·77.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
						+ .	− .				Mean Time.		Mean Time.		Mean Time.	
		3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.								
		v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².			h m	γ	h m	° ′	h m	° ′
1	Dull *a*. Fair to fine *p*. ⌣ *n*.	220	−125	280	810	·43	·17	1·40	1	0	—	—	—	—	—	—
2	≡⌣ *a*. Dull all day. ● *p*.	745	1010	840	780	—	—	—	0	0	11 28	18458	—	—	14 54	66 55·7
3	✳● *a*. ● *p*. Dull.	340	15	250	745	—	—	—	2	2	—	—	10 41	15 11·9	—	—
4	⌣ early. Mostly fine.	325	500	575	965	—	—	—	1	1	—	—	—	—	—	—
5	⌣ early. Fine to c. *a*. ✳ *p*.	810	935	405	500	—	—	—	0	1	—	—	—	—	—	—
6	Frequent ✳ showers.	250	420	*z* +	*z* ±	—	—	—	1	1	—	—	—	—	—	—
7	⊠ (8 cm.). ✳● *a*. ✳ *n*.	310	*z* ±	715	545	·24	—	0·55	1	1	—	—	—	—	—	—
8	⊠ (3 cm.). ✳ till 10 h. ⌣≡ *n*.	310	1075	375	1090	·32	·09	0·75	0	2	—	—	—	—	—	—
9	⌣≡ early. Fair to fine *a*. ⊕ 15 h.	1010	1615	900	1260	·37	·11	1·10	0	2	11 37	18374‡	14 26	15 16·1	14 46	67 0·1‡
10	0. all day. ✳⁰ 12 h.–14 h.	620	980	605	825	·32	—	0·75	0	2	11 19	18416	—	—	—	—
11	● early. Dull throughout.	360	685	745	655	—	—	—	0	1	—	—	—	—	—	—
12	Dull *a*. ●≡ 10 h.	375	545	590	530	—	—	0·40	1	1	—	—	—	—	—	—
13	Dull throughout. ● *n*.	220	745	575	*z* ±	·30	—	—	2	0	—	—	—	—	—	—
14	≡ till 9 h. and 18 h.	605	745	575	620	·30	—	0·45	0	0	—	—	14 10	15 15·4	—	—
15	Dull with ≡⁰. ≡ 15 h.	420	435	530	*z* −	—	—	—	2	0	—	—	—	—	—	—
16	● early. ≡ 9 h. Dull with ≡⁰.	480	670	685	−530	—	—	—	2	0	11 18	18452	14 42	15 15·0	14 45	66 56·8
17	Dull all day. ≡⁰ noon.	−265	375	545	340	·21	·26	0·80	2	2	—	—	—	—	—	—
18	≡ till 15 h. and after 21 h.	310	480	900	560	—	—	—	1	1	—	—	—	—	—	—
19	●⁰ 5 h. Dull with ≡.	700	590	745	250	—	—	—	0	1	—	—	—	—	—	—
20	≡ early. d. at intervals.	15	500	170	295	—	—	—	2	2	—	—	—	—	—	—
21	Dull, with d. at intervals.	170	250	745	−95	·28	·19	0·45	2	1	—	—	—	—	—	—
22	● till 12 h. Dull all day.	−620	545	655	700	·34	·21	1·30	2	0	—	—	—	—	—	—
23	✳⁰ 6 h.–19 h. ≡⁰ later.	325	870	450	655	—	—	—	0	0	11 16	18430	14 31	15 18·1	14 17	66 56·8
24	⌣≡⁰ early. Fair to fine.	530	640	235	745	·22	·13	0·65	0	2	—	—	—	—	—	—
25	⌣ early. Fine to q. △ 13 h. ●² *n*.	465	435	235	295	—	—	—	1	2	—	—	—	—	—	—
26	● early. △⁰ 15 h. ▲² 17 h.	95	280	575	500	—	—	—	1	1	—	—	—	—	—	—
27	⊕⁰ 9 h. and 13 h. ●△✳ from 20 h.	250	375	310	*z* ±	·49	·28	1·15	2	0	—	—	—	—	—	—
28	●△✳ till 1 h. and *p*. ⊠ from 18 h.	*z* ±	−245	*z* ±	1180	—	—	—	2	0	—	—	—	—	—	—
29	⊠ till 12 h. Very fine.	280	310	140	810	·43	·30	0·30	0	2	—	—	—	—	—	—
30	≡⁰ early. Dull to fine.	530	465	220	655	—	—	—	0	2	11 31	18411	14 38	15 18·0	14 37	66 59·9
31	≡⁰ till 13 h. Dull to fair.	375	420	280	545	·50	·28	0·95	0	1	—	—	—	—	—	—
M.		364*	592*	509*	580*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre. Factor 5·57.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
										Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	+.	−.	*c*.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	E.m.-U.	E.m.-U.	Amp/cm².														
1	113	234	370	76	—	—	—	2 *b*	0	6 56	1003	964	12 34	14 12	1061	1019	9 16	9 14	141	129	12 23
2	385	544	506	627	—	—	—	0 *b*	1	20 4	1026	969	12 39	14 15	1065	1008	23 42	0 0	139	119	12 30
3	423	385	370	936	—	—	—	0 *a*	1	24 0	1049	954	{12 4, 12 7}	13 21	1095	947	22 8	18 18	169	90	24 0
4	778	415	438	725	·64	·81	—	0 *b*	1	0 3	1050	958	11 26	15 3	1063	992	0 0	22 5	142	85	2 31
5	453	242	430	476	—	—	—	0 *b*	1	21 34	1038	949	11 43	15 3	1083	981	21 26	20 0	173	129	11 50
6	294	1306	*z*	302	—	—	—	0 *b*	1	16 1	1012	955	13 18	12 27	1086	944	21 4	18 25	164	128	22 0
7	91	634	287	596	—	—	—	1 *c*	1	16 33	1005	910	1 56	14 4	1073	949	{1 39, 3 15}	17 0	163	49	2 17
8	1321	1329	*z*	921	—	—	—	0 *c*	2	12 57	1051	912	16 5	12 57	1139	910	20 40	? 15 57	>310	118	12 36
9	76	121	174	211	—	—	—	0 *b*	2	17 3	*x* 1161	867	10 25	16 42	1100	*n* 764	18 47	? 18 42	*x*>386	*n*=55	5 11
10	242	143	325	159	—	—	—	0 *b*	2	14 23	1070	865	14 30	14 20	1141	901	1 23	17 40	255	79	0 47
11	423	181	234	445	—	—	—	0 *a*	1	22 28	1025	939	{12 28, 12 32}	13 21	1072	1010	8 9	21 0	158	129	0 10
12	861	680	83	227	—	—	—	1 *b*	1	21 16	1015	927	14 30	14 25	1084	1012	21 38	21 5	154	126	3 30
13	151	272	76	189	—	—	—	1 *a*	0	23 2	1000	962	13 23	13 56	1062	1017	9 21	9 0	155	146	12 44
14	302	*z*	287	242	—	—	—	1 *b*	0	16 6	1007	977	10 35	15 58	1065	1017	{23 21, 23 36}	16 27	157	139	4 26
15	151	264	159	−302	—	—	—	1 *b*	0	22 9	1022	965	11 33	13 8	1058	1018	7 57	19 31	154	139	14 8
16	−151	113	*z*	−1721	—	—	—	2 *c*	0	22 54	1016	974	12 2	14 45	1061	1007	20 32	20 45	153	133	13 35
17	60	151	211	302	·35	·40	—	1 *a*	2	0 35	1046	*n* 847	6 27	4 54	1130	939	3 11	20 1	188	51	5 10
18	242	234	317	400	·29	1·27	—	0 *a*	1	20 47	1097	943	21 13	{13 40, 13 54}	1079	982	21 47	18 10	186	135	0 12
19	310	378	211	−1133	—	—	—	2 *c*	1	18 27	1055	946	11 55	{11 48, 12 50}	1077	999	18 21	18 1	189	134	2 55
20	−619	38	−53	76	—	—	—	2 *c*	1	19 57	1112	924	11 9	13 44	1091	904	19 51	18 24	193	105	2 50
21	91	151	151	181	—	—	—	1 *b*	1	19 12	1024	938	8 47	13 14	1080	977	1 58	18 48	165	111	1 10
22	143	91	128	340	—	—	—	1 *a*	0	18 47	1031	952	11 20	14 4	1061	1008	{0 15, 7 40}	17 0	162	109	0 0
23	257	340	332	680	—	—	—	1 *b*	0	21 40	1028	944	11 57	14 23	1069	997	22 35	18 0	161	137	13 20
24	355	634	378	596	·40	·12	—	0 *b*	1	19 43	1076	938	17 0	{15 37, 15 41}	*x* 1167	976	23 57	18 18	251	129	11 53
25	227	242	*z*	204	—	—	—	1 *c*	1	18 35	1024	898	21 56	13 42	1072	896	22 12	20 17	224	59	21 53
26	*z*	*z*	*z*	249	—	—	—	1 *c*	1	0 3	1019	923	12 11	13 3	1068	983	0 3	17 15	164	76	0 0
27	234	468	430	415	·46	·46	—	0 *b*	0	5 47	1005	945	12 3	12 58	1056	1009	8 45	7 24	156	146	1 18
28	378	249	317	453	—	—	—	1 *b*	0	19 47	1020	954	{10 6, 11 49}	13 40	1068	1004	8 34	7 40	159	139	12 0
29	408	166	136	151	·35	·23	—	1 *b*	2	15 0	1046	911	24 0	13 45	1092	925	22 55	15 49	269	96	24 0
30	83	−76	−302	91	—	—	—	2 *c*	2	21 33	1094	924	0 15	11 31	1084	896	1 55	18 11	201	14	{0 37, 0 42}
31	143	98	83	370	—	—	—	1 *a*	2	22 8	1021	890	11 53	14 32	1104	971	23 41	14 48	199	95	24 0
M.	249*	281*	232*	291*	—	—	—	—	—	—	1040	933	—	—	1084	967	—	—	177‡	109‡	—

* 25 days. *See* note above. ‡ 29 days.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. $A_{N.}$	Amplitudes. $A_{E.}$	Amplitudes. $A_{Z.}$	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
4	M	8 27	20	...	3	...	...	
	M	8 31	20	4	...	...	...	
7		13 56 to 14 4	...	...	...	...	...	Small waves.
8	M	11 58	10	< 2	< 2	...	...	Similar small earthquakes.
8	M	12 45	10	< 2	< 2	...	...	,,
8	M	12 58	10	< 2	< 2	...	...	,,
8	M	13 3	10	< 2	< 2	...	...	,,
12	L	3 31	...	...	...	...	...	
	M	3 33	Circa 5 to 16 35	...	...	...	...	
16	P	23 1 55	..	...	...	...	...	Azimuth N.N.E. or S.S.W.
	S	23 9 33	...	...	...	...	6040	
	L	23 12	...	...	...	...	...	
	M	23 19	19	...	3	...	...	
	M	23 22	16	3	...	...	...	
	F	23 $\frac{3}{4}$	...	...	...	...	...	
18	P	1 7 57	...	...	...	...	...	
	S	1 17 48	...	...	...	...	8610	
	L	1 33½	...	...	...	...	...	
	M	1 43	24	4	...	...	...	
	F	2 10	...	...	...	...	...	
26	M	0 49	19	13	12	..	...	Confused by wind and microseisms.
30	M	2 32	23	...	3	...	...	
	M	2 40	22	4	...	...	...	
31	P (?)	11 30 9	...	...	..	...	...	Confused by wind and microseisms.
	e (?)	11 37 32	...	...	...	...	...	
	L	11 40	...	...	...	...	...	
	M	11 43	28	6	5	...	...	
	M	11 49	18	5	...	...	...	

Microseisms of N. Component:—Eskdalemuir.

Day.	0 h. $A_{N.}$	0 h. T.	6 h. $A_{N.}$	6 h. T.	12 h. $A_{N.}$	12 h. T.	18 h. $A_{N.}$	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	0·8	5	0·7	4·5	1·0	4	0·7	6·5
2	1·0	4	0·8	4·5	0·7	5	0·9	5
3	1·2	5	1·3	5	1·5	5	1·5	5
4	1·2	5·5	1·3	5	1·2	5	1·1	5
5	0·7	7	0·9	5·5	1·3	7	1·2	6
6	1·3	6	1·2	6	0·9	7	1·2	6
7	0·9	5·5	0·9	5	0·8	5	0·8	5
8	0·7	5	0·9	4·5	0·7	4·5	0·8	5·5
9	0·7	5	0·8	5	1·0	7·5	1·4	7
10	1·7	5·5	1·3	7	1·0	5	1·5	7
11	1·7	5·5	1·1	6	1·0	5	1·1	4·5
12	0·9	5	0·9	5	1·1	5·5	0·9	5
13	1·1	4	0·8	5	0·9	5	0·8	5
14	0·7	4·5	0·5	4·5	0·3	4	0·6	4
15	0·7	3	0·6	4	0·7	4	0·5	4
16	0·6	3	0·9	4	0·7	4	0·9	4
17	0·6	4·5	0·8	4·5	0·8	5	0·7	5
18	0·8	5	0·9	4·5	0·9	4·5	0·7	5
19	0·8	5	1·0	4·5	1·0	5	0·8	5
20	0·7	5	0·5	4·5	0·8	5	0·9	5
21	1·0	4·5	0·4	5	0·6	4	0·7	4
22	0 6	5	0·7	5	0·7	5	0·7	5
23	0·7	5	0·8	5	1·3	7	1·5	6·5
24	1·5	7	1·5	7	1·3	7	1·4	6
25	1·1	6	1·5	5	2·9	5·5	2·4	6
26	2·4	7	3·4	6	3·0	6·5	3·4	6
27	3·1	5·5	2·7	5	3·4	5	2·1	7
28	1·8	7·5	2·5	6	1·6	6	1·7	6·5
29	1·6	7	1·6	6	1·6	5·5	1·6	6
30	1·7	5·5	1·3	5	1·1	5	1·3	5·5
31	1·5	5·5	1·2	5	1·0	6	1·2	5·5

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
4	...	8 37	Very small.
12	3 29·9	3 30·8	Maximum amplitude shown by trace 1·0 mm.
,,	8 9·2	8 20·3	Small earthquake.
16	...	23 25	Series of small movements.
18	...	1 48	,,
26	0 4·1	0 51·4	Small earthquake.
30		2 41	Series of very small movements.
31	...	11 50	Series of small movements.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L., 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	8·6	...	8·6	...	4·8	...	11·6	...	3·0	...	7·3	...	2·8	...	6·7	17·9	9	40
2	...	2·9	...	6·9	...	4·0	...	6·0	...	5·7	...	8·5	...	5·8	...	8·7	16·3	18	40
3	...	10·4	...	7·0	...	10·4	...	7·0	...	10·9	...	4·5	...	7·2	...	7·2	17·8	8	45
4	...	6·2	...	4·2	...	4·9	...	3·3	...	5·5	...	2·3	...	4·8	...	1·0	11·3	0	55
5	...	4·1	2·7	...	...	6·2	...	4·2	...	6·0	...	4·0	...	7·2	...	...	11·3	6	10
6	...	6·8	...	4·6	...	10·6	...	4·4	...	12·3	...	2·4	...	12·8	...	8·6	20·3	20	55
7	...	8·1	...	8·1	...	7·3	...	10·9	...	7·8	...	11·7	...	7·8	...	7·8	18·6	14	55
8	...	8·6	...	8·6	...	7·0	...	10·4	...	9·8	...	9·8	...	6·4	...	9·6	20·0	14	40
9	...	6·0	...	9·0	...	1·5	...	7·7	...	1·8	...	9·0	...	3·1	...	7·6	16·7	1	0
10	...	8·9	...	9·4	...	3·3	...	7·9	...	5·8	...	5·8	...	3·7	...	5·5	15·1	12	5
11	...	3·1	...	4·7	...	3·9	...	9·4	...	2·4	...	11·9	...	2·1	...	10·6	17·5	19	40
12	...	4·0	...	9·7	...	3·8	...	9·1	...	2·3	...	11·6	...	2·3	...	11·6	19·3	23	40
13	...	...	...	12·1	...	2·9	...	14·5	...	2·6	...	13·1	...	2·3	...	11·6	22·9	5	50
14	...	...	...	7·2	...	...	...	3·9	...	...	...	6·6	...	...	...	7·9	15·2	0	20
15	...	...	...	9·2	...	...	...	12·5	...	...	...	12·8	...	...	...	7·5	19·3	11	15
16	3·8	...	...	5·7	1·6	...	...	1·6	3·3	...	1·4	...	0·8	...	0·6	...	12·2	3	15
17	2·1	...	0·9	...	1·6	...	0·3	...	0·9	...	0·4	...	...	...	...	6·9	10·3	20	25
18	0·9	...	...	4·5	1·4	...	...	7·1	...	...	...	4·9	...	...	...	2·3	12·0	8	35
19	...	...	...	1·3	...	...	...	10·5	...	...	...	12·1	...	...	...	6·2	17·7	13	30
20	...	2·0	...	10·3	1·9	...	...	9·3	...	2·4	...	12·3	...	1·5	...	7·4	17·7	11	0
21	...	6·4	...	9·6	...	6·2	...	9·2	...	4·4	...	10·6	...	3·8	...	9·1	17·7	2	45
22	...	4·0	...	9·7	...	2·4	...	12·3	...	3·9	...	9·4	...	2·8	...	6·7	18·9	7	45
23	...	0·9	...	2·1	3·3	...	1·4	...	...	7·9	3·3	...	...	5·2	...	...	12·0	14	40
24	...	7·9	...	3·3	...	1·3	...	0·9	...	3·0	3·0	...	...	0·6	3·2	...	13·5	6	0
25	...	...	7·9	...	5·4	...	8·1	...	8·6	...	8·6	...	2·7	...	13·5	...	24·6	15	35
26	8·2	...	12·3	...	...	...	13·4	...	3·5	...	8·5	...	2·4	...	11·9	...	27·7	4	15
27	2·9	...	14·5	...	...	1·6	8·0	...	...	1·5	0·6	...	...	4·4	...	10·6	22·9	1	35
28	...	9·0	...	13·4	...	10·9	...	10·9	...	13·0	...	5·4	...	7·4	1·5	...	23·5	6	5
29	...	7·2	7·2	...	...	2·2	3·2	...	5·1	...	5·1	...	4·2	...	4·2	...	14·5	3	30
30	2·9	...	6·9	...	3·1	...	7·6	...	4·7	...	3·1	...	3·1	...	4·7	...	15·0	3	30
31	3·4	...	5·2	...	3·1	...	4·7	...	4·9	...	4·9	...	4·0	...	4·0	...	14·0	15	55
S+N & W+E	134·3		226·8		116·6		231·3		143·0		214·9		111·2		204·7				
S−N & W−E	−85·9		−111·6		−73·8		−137·9		−81·0		−137·1		−76·8		−117·5				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	3·2	...	0·6	...	5·9	...	...	...	8·7	1·7	...	...	10·0	2·0	...	10·2	21	
2	...	7·6	5·1	...	...	6·0	4·0	...	...	13·1	...	...	...	10·5	...	...	14·4	18	
3	...	3·0	1·3	...	...	10·0	2·0	...	...	8·3	1·7	...	...	...	...	...	11·8	8	
4	...	8·7	1·7	...	...	2·7	1·8	...	...	5·1	5·1	...	...	5·1	...	1·0	9·5	24	
5	...	6·2	...	...	...	6·6	...	...	...	7·7	...	1·5	...	9·2	...	...	10·2	18	
6	...	9·0	...	1·8	...	12·3	...	2·4	...	9·1	...	3·8	...	7·1	...	4·7	12·5	9, 12	
7	...	3·1	...	4·7	...	4·9	...	4·9	...	1·6	...	4·0	...	0·4	...	2·0	7·5	7	
8	...	...	...	2·0	...	0·8	...	3·8	...	2·5	...	2·5	...	1·7	...	2·5	4·3	7	
9	0·4	...	...	2·0	...	1·2	0·5	...	...	4·3	1·8	...	...	4·8	...	2·0	5·9	17	
10	...	4·0	1·6	...	...	3·2	2·2	...	...	2·3	2·3	...	...	0·3	...	0·1	6·6	16	
11	1·1	...	...	2·8	7·8	...	...	7·8	...	...	...	10·8	...	1·9	...	9·3	11·1	9	
12	...	...	...	5·6	1·4	...	...	7·1	...	1·4	...	7·1	...	2·3	...	5·5	8·2	11	
13	...	1·6	...	4·0	...	2·4	...	5·7	...	...	...	6·2	...	...	...	4·3	7·5	14	
14	...	0·9	...	4·5	...	...	...	2·3	1·1	...	...	2·8	1·0	...	...	2·4	4·9	1	
15	2·1	...	...	5·2	1·4	...	...	7·1	3·3	...	...	7·9	7·8	...	...	7·8	11·5	24	
16	6·4	...	...	9·6	7·0	...	...	10·4	6·2	...	...	9·2	7·6	...	...	7·6	12·5	9	
17	6·9	...	...	6·9	4·7	...	...	4·7	2·5	...	1·7	...	1·7	...	1·1	...	9·8	1, 3	
18	1·3	...	0·9	...	4·5	...	...	0·9	3·0	...	...	1·3	0·9	...	...	0·4	5·2	12	
19	1·8	...	...	0·8	...	1·5	...	3·6	...	2·3	...	5·5	...	...	...	5·9	7·5	19	
20	...	1·3	...	6·8	...	2·9	...	6·9	...	5·7	...	2·4	...	3·6	...	1·5	8·2	2, 4, 6, 8	
21	...	6·2	...	4·2	...	8·5	...	5·7	...	8·1	...	8·1	...	8·1	...	8·1	12·5	20	
22	...	3·3	...	7·9	...	5·1	...	5·1	...	2·6	3·8	...	...	2·6	3·8	...	13·1	24	
23	...	8·7	5·8	...	...	4·9	7·4	...	...	7·1	4·7	...	...	5·5	...	1·1	13·4	1	
24	...	8·9	...	...	...	7·2	...	...	...	3·6	...	...	...	1·0	2·4	...	10·2	2	
25	...	0·4	0·9	...	7·9	...	...	5·3	5·5	...	2·3	...	...	...	3·6	...	13·4	11	
26	6·5	...	1·3	...	5·1	...	...	5·1	...	10·9	...	7·3	...	11·3	2·2	...	13·1	15	
27	...	5·7	3·8	...	...	10·3	4·3	...	...	12·9	2·6	...	...	10·9	2·2	...	14·4	13	
28	...	10·6	4·4	...	...	7·5	11·1	...	...	14·1	9·5	...	...	13·0	8·7	...	18·7	16	
29	...	9·0	6·0	...	...	0·5	1·2	...	7·9	...	3·3	...	9·3	...	1·9	...	12·5	1	
30	3·7	...	5·5	...	6·4	...	9·6	...	5·1	...	12·4	...	5·3	...	7·9	...	13·4	15	
31	7·1	...	4·7	...	4·9	...	4·9	...	6·2	...	9·2	...	5·8	...	5·8	...	12·1	19	
S+N & W+E	138·7		112·4		155·5		137·8		172·2		142·5		148·7		117·8				
S−N & W−E	−64·1		−26·4		−53·3		−39·8		−90·6		−18·3		−69·9		−24·6				

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	0·4	2·1	...	...	...	2·1	...	0·6	...	2·8	...	1·5	...	1·5	...	4·4	11	26
2	2·1	...	2·1	...	2·7	...	1·8	...	1·7	...	1·2	...	9·4	...	1·9	...	12·4	23	55
3	8·9	...	...	3·7	9·2	...	...	3·8	9·2	...	...	3·8	15·4	...	...	6·4	20·4	23	50
4	14·6	...	...	6·1	15·6	...	...	10·5	0·8	...	...	...	3·5	...	2·3	...	23·2	8	30
5	5·6	...	3·7	...	6·2	...	2·6	...	9·6	...	...	...	4·2	...	...	...	14·2	16	32
6	5·0	...	...	...	1·6	...	0·7	...	2·8	...	...	0·6	6·2	...	...	2·6	13·7	19	46
7	...	...	...	6·7	...	...	...	7·9	...	2·6	...	6·2	...	3·2	...	7·7	14·5	19	12
8	...	1·6	...	3·9	...	3·0	...	3·0	2·7	...	...	2·7	5·9	...	...	5·9	14·7	23	37
9	15·6	...	...	10·5	...	...	11·3	...	...	...	6·7	...	1·6	...	3·9	...	20·5	3	2
10	3·7	...	0·7	...	8·1	...	...	3·4	10·0	...	...	...	...	2·7	6·6	...	16·0	15	44
11	...	0·3	0·3	...	2·2	...	...	5·4	...	2·3	...	3·5	...	4·6	...	1·9	10·0	19	39
12	...	3·3	3·3	...	...	2·1	...	...	...	1·6	0·7	...	1·9	...	4·6	...	7·7	0	14
13	...	1·6	3·9	...	2·5	...	...	...	8·1	...	...	3·4	...	4·4	13·1	...	21·2	20	43
14	...	3·5	5·2	...	...	3·5	1·5	...	...	0·7	1·1	...	...	2·1	...	2·1	14·1	0	20
15	...	4·6	...	...	...	4·6	...	1·9	...	2·7	...	1·1	...	1·6	...	0·7	8·0	4	5
16	3·7	...	0·7	...	5·8	...	2·4	...	4·1	...	4·1	...	3·8	...	2·6	...	8·3	11	53
17	5·4	...	2·2	...	4·5	...	4·5	...	4·1	...	4·1	...	...	...	5·4	...	9·8	22	20
18	...	7·7	3·2	...	...	4·5	0·9	...	...	4·5	3·0	...	...	1·9	4·6	...	11·1	2	12
19	...	1·5	7·8	...	...	2·1	10·6	...	...	5·7	13·9	...	...	13·0	13·0	...	25·4	23	53
20	...	16·2	6·7	...	...	10·6	10·6	...	...	12·5	...	...	...	5·8	...	...	26·8	2	0
21	...	8·1	...	3·4	...	3·8	...	3·8	...	5·6	...	3·7	...	6·2	1·2	...	15·0	3	13
22	...	12·1	...	8·1	...	5·1	...	7·7	...	5·9	...	5·9	...	7·7	...	3·2	19·7	5	21
23	...	5·9	...	3·9	...	4·7	...	4·7	...	3·5	...	3·5	...	...	...	4·2	11·8	0	17
24	...	...	...	1·3	...	2·7	...	1·1	...	4·5	0·9	...	...	4·6	...	1·9	8·5	16	10
25	...	3·8	...	...	...	4·9	...	1·0	...	5·9	3·9	...	...	7·1	7·1	...	15·0	12	25
26	...	13·9	2·8	...	...	13·8	...	...	...	11·9	...	4·9	...	9·0	...	6·0	21·2	6	34
27	...	4·5	...	4·5	...	4·1	...	4·1	...	4·3	...	1·8	...	2·1	...	...	11·0	6	36
28	...	...	3·8	...	...	...	8·3	...	...	...	6·3	...	...	...	13·3	...	16·4	21	2
29	...	4·9	11·9	...	...	2·6	6·2	...	...	2·7	13·5	...	...	2·5	12·7	...	24·2	18	30
30	...	4·8	11·6	...	...	5·4	13·1	...	...	...	9·6	...	...	...	10·8	...	24·0	0	55
31	...	2·9	6·9	...	...	3·8	...	...	...	1·4	2·1	...	...	3·0	3·0	...	16·3	0	37
S+N & W+E	166·2		131·0		139·7		134·9		132·0		115·0		134·9		150·2				
S−N & W−E	−37·0		26·8		−22·9		18·3		−24·6		32·8		−28·1		65·0				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust. (Gorleston.)	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	1·0	...	...	4·8	1·8	...	...	4·3	1·9	...	1·3	...	0·4	...	2·0	...	7·3	0	25
2	0·4	...	2·0	...	...	...	1·6	...	...	2·2	...	3·2	...	3·7	...	5·5	9·8	23	45
3	...	6·2	...	4·2	...	8·6	...	8·6	...	8·8	...	8·8	...	10·3	...	4·3	19·0	15	55
4	...	9·0	...	1·8	...	8·3	...	1·7	...	6·6	...	...	...	4·3	...	...	18·8	3	40
5	...	3·0	2·0	...	...	1·8	1·8	...	...	4·2	0·8	...	...	3·2	0·6	...	12·6	18	10
6	...	1·3	3·0	...	...	1·4	3·3	...	...	1·8	1·8	...	...	...	...	10·5	15·6	20	55
7	...	5·1	...	5·1	...	5·4	...	13·0	...	5·1	...	12·4	...	9·5	...	9·5	19·0	22	10
8	...	3·9	...	9·4	...	...	...	10·8	1·3	...	...	6·8	2·6	...	...	3·8	17·1	0	15
9	...	...	...	3·9	...	2·0	...	3·0	...	4·9	...	7·4	...	6·2	...	9·2	12·2	19	5
10	...	8·1	...	8·1	...	8·3	...	8·3	...	6·4	...	9·6	...	2·3	...	11·6	14·2	2	40
11	...	2·6	...	13·1	...	2·5	...	12·6	...	2·3	...	11·6	...	...	...	10·8	14·3	3	10
12	...	...	...	9·5	2·2	...	...	10·9	...	...	...	11·5	...	2·2	...	11·3	12·7	17	0
13	...	1·8	...	9·0	...	1·9	...	9·6	...	3·8	...	9·1	...	1·6	...	8·0	11·3	6	5
14	1·4	...	...	7·1	0·5	...	...	2·6	...	...	...	3·6	...	0·8	...	4·2	7·6	2	40
15	...	1·2	...	5·8	...	2·2	...	10·9	...	...	...	9·8	...	...	...	9·5	10·7	17	5
16	0·9	...	...	4·5	1·5	...	...	7·4	0·7	...	...	3·5	1·7	...	...	1·1	9·6	7	25
17	0·9	...	...	1·3	0·7	...	...	1·1	...	1·1	...	1·7	...	0·2	...	0·2	...	...	
18	0·4	...	...	2·3	...	0·5	...	2·6	0·6	...	...	1·5	0·6	...	...	1·5	5·3	9	35
19	...	...	...	2·0	0·9	...	...	2·1	...	0·7	...	3·5	...	...	...	10·2	11·3	19	55
20	0·4	...	...	2·0	...	3·1	...	7·6	...	1·3	...	3·0	...	4·4	...	6·6	9·3	21	45
21	...	5·1	...	7·6	...	7·2	...	7·2	...	8·1	...	8·1	...	7·2	...	7·2	12·9	23	30
22	...	6·6	...	9·8	...	9·3	...	9·3	...	7·7	...	11·5	...	7·6	...	7·6	16·6	13	15
23	...	5·3	...	5·3	...	4·1	...	2·7	...	1·5	...	0·6	...	0·6	...	0·3	10·4	3	5
24	...	0·3	...	0·1	...	0·9	...	1·3	...	1·9	...	1·3	...	2·6	6·4	...	6·3	20	40
25	0·8	...	3·8	...	3·0	...	3·0	...	7·6	...	3·1	...	9·4	...	3·9	...	19·4	23	15
26	...	...	3·3	...	3·3	...	7·9	...	2·6	...	6·4	...	2·7	...	4·1	...	18·7	0	25
27	2·1	...	5·2	...	1·1	...	5·5	...	1·6	...	4·0	...	4·4	...	...	10·6	16·2	23	35
28	...	3·6	...	18·3	8·7	...	...	1·7	4·4	...	...	4·4	...	17·4	...	3·5	34·0	20	5
29	...	4·8	1·0	...	...	3·4	5·2	...	...	2·7	4·1	...	1·3	...	1·9	...	16·8	1	35
30	2·7	...	1·8	...	3·3	...	3·3	...	1·9	...	4·5	...	2·1	...	2·1	...	10·0	10	55
31	1·4	...	2·2	...	0·7	...	3·5	...	...	0·9	4·5	...	...	...	1·6	...	7·7	13	45
S+N & W+E	80·3		159·3		98·6		174·4		94·6		163·4		109·3		169·6				
S−N & W−E	55·5		−111·3		43·2		−104·2		−49·4		−102·4		−61·9		−124·4				

9. Soundings with Pilot Balloons.

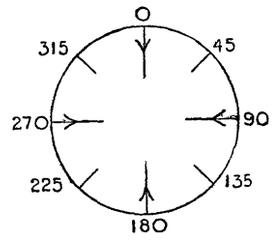
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind.															
			Geostrophic.		By Anemometer.		At Heights above M.S.L.											
							500 m.		1000 m.		2000 m.		3000 m.		4000 m.		5000 m.	
			Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.	Degrees from N.	m/s.
		h. m.	°		°		°		°		°		°		°		°	
1	Benson . .	16 55	130	9	...	0·0	175	3·5	195	3·8	140	3·6	125	6·0	130	8·5	105	21·5
7	Eskdalemuir .	12 55	60	14	35	9·5	40	13·5	50	17·0	45	12·5	...	...	...	...	...	...
24	S. Farnborough	7 10	40	7	315	light	15	6·5	15	6·5	20	5·5	...	...	...	...	...	...
25	,,	7 5	250	15	225	2·5	250	13·0	255	21·5	255	14·5	...	...	...	...	...	...
27	,,	7 20	270	15	245	6·5	265	13·0	265	18·5	275	12·5	...	...	...	...	...	...
27	Eskdalemuir .	7 30	310	12	215	2·6	...	...	335	8·5	310	10·5	...	...	...	...	...	...
27	Benson . .	12 15	250	12	240	5·0	230	6·5	230	4·3	250	7·5	255	14·5	265	15·5	...	...
29	Eskdalemuir .	7 50	320	8	...	0·0	325	6·5	330	6·5	315	5·5	275	9·0	275	8·0	...	...
30	S. Farnborough	7 10	240	11	200	...	255	8·0	255	11·5	255	7·5	...	...	...	...	...	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Benson . . .	57 m.	25 m.
Eskdalemuir . .	242 m.	15 m.
S. Farnborough . .	70 m.	35 m.

Notes on Pressure Distribution, etc.

March 1 18 h. Depression over Mouth of Channel. Trough extending over Norway.
7 7 h. Anticyclone between Iceland and Scotland. Depression over English Channel.
24 7 h. Depression over North-East France. Slight pressure gradient over British Isles. S. Farnborough ; Ci. and Ci.-Cu. moving from 200°.
25 7 h. Deep depression over Hebrides.
27 7 h. Deep depression between Shetlands and Norway. Secondary off S. of Ireland. S. Farnborough; Ci. from 270° at 7 h. Benson; Ci. moving quickly from 270°.
27 18 h. Secondary had formed a deep centre over Cornwall.
29 7 h. Anticyclone Cornwall to Azores. Depressions over Scandinavia and Iceland. Eskdalemuir; Ci. moving from 360° (3·5 milliradians per second).
30 7 h. Anticyclone over Bay of Biscay. Depression between Iceland and Norway.



Wind Protractor.

10. Nephoscope Observations.

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity-height-ratio.				Remarks.
		Degrees from N.	Milliradians per Second.	Components.		
				W.-E.	S.-N.	
		°	mr/s.	mr/s.	mr/s.	
2	Cu.	359	9·6	+ 0·1	− 9·6	
3	Cu.-Nb.	356	10·0	+ 0·7	− 10·0	Small type of Cu.-Nb.
4	St.-Cu.	340	2·8	+ 1·0	− 2·6	
6	Cu.-Nb.	13	14·0	− 3·2	− 13·6	Base of cloud measured.
7	St.-Cu.	56	6·3	− 5·2	− 3·5	Low St.-Cu., probably transition type between Cu. and St.-Cu., small Cu. being merged into it.
9	St.-Cu.	45	3·7	− 2·6	− 2·6	
11	St.-Cu.	88	6·9	− 6·9	− 0·2	
17	A.-Cu.	173	4·5	− 0·5	+ 4·5	Fine A.-Cu. changing to St.-Cu. later.
21	St.-Cu.	33	7·4	− 4·0	− 6·2	St. -Cu. formed from apices of Cu.-Nb.
22	St.-Cu.	21	3·3	− 1·2	− 3·1	Normal St.-Cu., with Cu. below and in contact.
23	Cu.	315	8·9	+ 6·3	− 6·3	
24	Ci.	328	2·5	+ 1·3	− 2·1	Ci. to high Ci.-Cu. in small patches.
	Cu.	326	6·0	+ 3·4	− 5·0	
27	A.-St.	265	1·5	+ 1·5	+ 0·1	Heavy "false" Ci., massing into A.-St.
28	Fr.-Cu.	315	17·0	+12·1	−12·1	
29	Cu.	235	5·2	+ 4·3	+ 3·0	Ci.-nebula above, with ⊕. No detail.
30	Fr.-Cu.	267	10	+10·0	+ 0·5	Lenticular fused St.-Cu. above. Direction W.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 4. APRIL 1916]. Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	Maximum. 11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	7·0	54	1028	39	44	10 35	41	9·5	74	43	30	Hazy	9·5	73	...	...	...	...	6·8	53
2	10·5	81	1411	52	56	11 30	56	10·5	81	57	39	Clear	*x*11·6	89	...	...	...	...	0·0	0
3	7·8	60	1182	43	57	11 59	57	7·7	59	...	...	...	4·2	32	...	...	...	...	3·2	25
4	3·0	23	822	30	66	13 45	54	4·9	37	...	...	...	5·8	44	...	...	...	...	7·1	54
5	7·5	57	1162	42	61	12 45	59	6·9	53	...	...	...	7·8	59	...	...	...	...	4·7	36
6	0·0	0	452	16	*n* 27	12 35	20	0·1	1	...	...	...	2·1	16	...	...	...	...	0·7	5
7	3·7	28	863	30	63	14 10	24	4·4	33	...	...	...	1·7	13	...	...	...	...	9·2	69
8	10·0	75	1463	51	57	12 0	56	10·5	79	51	37	Hazy	3·9	29	...	...	...	...	2·6	19
9	6·3	47	1314	45	67	13 15	58	6·2	46	...	...	...	3·0	22	...	..	...	...	7·0	52
10	11·2	84	1630	56	63	12 10	63	11·2	84	73	53	Clear	0·6	4	...	...	...	...	0·0	0
11	4·6	34	859	29	65	10 45	38	4·8	36	...	...	...	8·4	61	12 14	Clear	1·44	90	6·7	50
12	1·3	10	*n* 404	14	35	16 30	11	1·9	14	...	...	...	6·2	45	...	...	...	...	4·0	29
13	5·3	39	960	32	77	11 30	*x* 77	5·9	43	..	...	...	7·4	53	...	...	...	...	9·1	66
14	10·9	80	1587	52	77	12 25	*x* 77	9·9	72	...	...	...	8·1	58	...	...	...	...	8·9	64
15	7·4	54	1302	42	73	12 10	73	8·4	61	...	...	...	11·5	82	12 14	Hazy	1·41	84	4·6	33
16	0·3	2	804	26	46	10 50	38	0·6	4	...	...	...	0·0	0	...	...	...	...	0·0	0
17	4·9	35	960	31	68	13 10	48	5·3	38	...	...	...	1·0	7	...	...	...	...	2·8	20
18	0·3	2	474	15	56	14 0	26	0·6	4	...	...	...	3·5	25	...	...	...	...	2·9	21
19	1·3	9	822	26	*x* 81	13 5	47	1·3	9	...	...	...	0·0	0	...	...	...	...	8·4	60
20	1·8	13	739	23	*x* 81	13 26	27	2·0	14	...	...	...	0·0	0	...	...	...	...	7·7	55
21	6·8	48	1359	42	68	10 53	61	6·6	47	...	...	...	1·9	13	...	...	...	...	7·5	53
22	0·1	1	597	18	47	13 6	31	0·5	4	...	...	...	5·1	35	...	...	...	...	8·6	61
23	6·8	48	1247	38	71	9 31	50	6·4	45	...	...	...	1·4	10	...	...	...	...	1·4	10
24	0·4	3	1067	32	45	11 15	29	0·3	2	...	...	...	0·0	0	...	...	...	...	0·0	0
25	9·8	68	1956	59	73	11 20	70	10·4	72	...	...	...	0·0	0	...	...	...	...	0·0	0
26	8·5	59	1485	44	60	11 30	60	7·9	54	...	...	...	8·7	59	12 30	Ci.-haze	1·33	65	2·3	16
27	8·9	61	1594	47	60	9 55	54	10·3	71	...	...	...	4·1	28	...	...	...	...	2·8	19
28	6·9	47	1540	45	60	12 50	58	7·7	53	...	...	...	3·2	21	...	...	...	...	12·3	84
29	*x*13·0	89	*x* 2067	60	70	12 30	70	*x*12·8	88	...	...	...	7·4	49	12 16	Hazy	1·32	71	10·8	73
30	11·2	76	1921	56	64	13 40	64	11·8	80	...	...	...	6·8	45	...	...	...	...	*x*12·7	86
Means	5·93	43	1169	38	61	—	50	6·23	45	—	—	—	4·50	32	—	—	—	—	5·17	38
Normal	5·53	40	—	—	—	—	—	5·23	38	—	—	—	4·70	34	—	—	—	—	5·33	39
	← 5 years →							← 35 years →					← 5 years →						← 35 years →	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Magnetism. Declination West.	Magnetism. Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	1025·8	1023·2	81·9	79·8	84	79	8·7	8·0	77	81	16	5	14	4	8	7	—	Fine to c. Dull *n*.	...	...	...
2	1019·2	1017·6	81·1	81·0	83	80	7·8	9·7	72	91	12	4	15	4	10	10	2·0	Dull. ∞ *p*.	...	...	...
3	1016·7	1020·7	81·1	79·3	83	79	10·2	7·8	95	82	28	2	27	4	10	4	0·7	●^{0} 5 h.–8 h. Fine 15 h.–19 h.	...	...	...
4	1022·2	1023·4	80·5	79·0	*n* 82	78	7·9	7·0	76	75	27	10	31	10	6	4	1·8	●^{0} showers *a.* and *p.* ⌒ 16 h. and 19 h.	...	...	...
5	1025·6	1025·5	80·7	78·4	*n* 82	75	7·1	7·5	68	84	32	7	—	1	8	0	0·1	▲● showers 7 h.–8 h. Sun-pillar *p*.	...	...	...
6	1018·5	1010·2	78·5	78·3	*n* 82	*n* 73	7·8	8·0	86	90	—	1	4	3	10	10●	11·9	⌣ early. ●^{0} 14 h.–20 h.	...	...	...
7	1014·7	1021·9	80·1	78·7	*n* 82	75	8·2	7·9	81	86	31	5	—	0	7	1	—	●^{0}⌒ 8 h. Fine from 13 h.	...	19 52·3	68 6·4
8	1020·8	1021·9	81·2	80·9	84	74	9·2	9·0	85	85	19	4	26	2	10	1	0·4	d. and ≡^{0} 7 h.–13 h., then fair.	...	...	...
9	1025·1	1026·8	81·5	80·2	84	78	9·4	9·1	85	90	27	3	—	0	10	2	2·0	c. to o. *a.* Fine *p*.	...	...	...
10	1023·8	1015·8	82·6	81·8	84	78	11·7	10·6	98	94	20	5	24	8	10	10	9·3	● early to o. ● 17 h.–20 h.	17858	...	...
11	1016·6	1012·7	81·3	81·9	83	79	7·6	9·5	69	84	26	8	19	6	6	10	1·1	q. and ● *n*. Fine *a.* and *p*.	17860	...	...
12	1002·5	1002·1	83·6	81·3	85	81	12·2	8·9	96	82	21	10	22	9	10	4	3·2	Damp ≡^{0} *a*. ● showers *p*.	...	...	...
13	1002·7	1009·7	81·1	79·9	*n* 82	79	8·2	7·5	76	75	23	12	24	11	5	6	1·6	q. and ▲ *a*. ● showers.	...	...	...
14	1013·7	1019·4	80·8	80·0	*n* 82	78	7·7	8·0	73	80	24	9	25	7	8●	8●	1·3	▲^{2} shower 7 h. Bright to showery.	17866	...	...
15	1022·6	1020·6	83·3	82·1	85	80	9·8	11·2	79	97	23	3	15	3	3	10●^{0}	4·0	Fine to dull. ≡^{0}●^{0} *p*. ● *n*.	...	...	...
16	1016·5	1008·1	83·1	83·0	85	82	11·8	11·3	96	93	21	6	22	8	10≡^{0}●^{0}	10●	2·9	Dull, with d. and ≡^{0}.	...	...	...
17	1005·6	1005·6	82·1	82·0	83	81	9·3	8·7	81	76	23	12	25	12	10	9	1·5	q. and ●^{0} showers *a.* and *p*.	...	...	...
18	1007·1	1005·2	80·4	78·5	*n* 82	79	7·9	7·5	77	83	26	12	26	9	7	5	0·5	q. and ● showers. ▲^{0} 15 h. [22 h.	...	...	...
19	1000·8	995·2	80·6	79·1	*n* 82	78	6·8	7·6	66	81	26	10	24	10	7	8	1·6	q. to fair. ●^{0} showers 14 h. and from	...	...	...
20	994·8	996·9	80·8	79·7	83	78	7·9	8·3	75	85	2	3	—	1	5	8	—	Fine to c. ⊕ 14 h. ●^{0} later.	...	...	...
21	997·8	1000·9	81·6	80·5	83	76	8·5	8·1	76	78	2	5	32	6	7	8	1·8	Fine to c.; v. ● showers *n*.	...	...	...
22	1005·0	1006·8	80·9	81·0	84	78	7·0	8·9	66	84	25	5	21	8	7	8	1·1	Fine to c. ● showers *n*.	...	...	...
23	1007·7	1000·5	82·9	82·3	84	80	9·5	11·0	79	95	19	7	15	11	8	10●	30·3	Fine to dull. ● from 15 h.	...	...	...
24	1000·5	1003·5	85·0	83·9	85	83	13·1	12·5	94	97	16	8	15	8	10≡^{0}●^{0}	10●	*x* 37·8	d. *a.* Continuous ● from mid-day.	...	...	...
25	1009·6	1011·2	83·7	84·1	85	81	12·6	12·3	98	94	16	2	12	8	10≡^{0}●^{0}	10	4·6	d. and ≡^{0} most of day.	...	...	...
26	1007·6	1009·3	84·4	83·0	85	83	11·5	11·8	86	97	13	11	15	7	10●	10≡^{0}●^{0}	2·8	● showers *a.* d. and ≡^{0} *p*.	17843	19 55·0	68 7·6
27	1016·9	1022·9	83·6	82·5	85	82	12·3	10·3	97	87	21	4	30	6	10	10	—	●^{0} showers *a.* Fine *p.* Fine sunset.	...	...	...
28	1024·6	1023·4	82·6	83·0	86	81	9·3	10·0	78	82	1	7	4	3	5	4	—	Brilliantly fine and warm.	...	...	...
29	1019·9	1017·6	86·3	86·3	90	83	10·6	11·1	70	73	9	3	7	2	3∞	2∞	—	Fine. ∞ all day.	...	...	...
30	1015·4	1012·9	88·5	87·5	*x* 92	*x* 84	11·0	9·3	63	*n* 57	6	3	7	7	0∞	1∞	—	c. early to fine. ∞	...	...	...
Means	1013·3	1013·1	82·2	81·3	84·0	79·1	9·4	9·3	81	85		6·2		5·9	7·7	6·7	124·3	Monthly **Totals** or **Means**.	17857	19 53·7	68 7·0
Normal	1011·6	1011·8	82·1	81·6	85·0	79·1	9·5	9·4	82	84		5·4		4·9	—	—	96·9	**Normals.**			
	← 45 years →						← 30 years →		← 35 years →								45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—11/17.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.	*a.* 200+	*a.* 200+	*a.* 200+	cm.	cm.
1	1028·3	1025·1	80·0	80·8	86	*n* 73	8·1	7·7	81	73	—	0	7	3	10≡⁰	0≡⁰	—	70	78·9	79·5	430	432
2	1022·2	1018·9	81·5	81·0	88	77	8·9	9·1	81	85	7	5	6	3	0≡⁰	0≡⁰	0·1	71	79·1	79·5	426	—
3	1017·3	1013·1	77·4	84·0	91	76	8·0	9·4	97	72	—	1	—	1	*10*≡	0∞	—	72	79·6	79·6	423	—
4	1014·8	1013·8	80·4	80·9	84	78	7·4	6·8	72	64	30	6	28	3	7	10●	0·9	73	80·5	79·7	419	—
5	1016·5	1020·9	79·5	77·6	83	76	7·2	6·7	74	79	30	4	32	4	1	0	—	72	80·1	79·8	414	—
6	1020·1	1015·3	78·0	78·7	*n* 81	76	6·5	7·1	75	77	1	4	—	1	10	10≡⁰●	5·3	70	79·7	79·9	410	—
7	1013·5	1018·4	76·6	77·1	82	75	7·0	7·2	89	88	1	2	—	0	10	?0≡	—	75	79·4	80·0	406	—
8	1021·0	1019·0	79·0	79·5	86	74	6·5	7·9	70	82	31	3	—	1	0≡⁰	1	—	*n* 68	79·1	80·0	401	—
9	1020·4	1023·4	81·9	81·0	86	76	8·6	6·8	76	64	28	2	30	2	8	1	—	70	79·7	80·0	393	—
10	1024·0	1015·8	80·6	83·4	88	76	6·8	8·6	66	69	30	3	17	4	2	10	1·0	71	80·2	80·1	387	—
11	1006·9	1011·8	81·8	79·8	84	78	9·1	6·3	81	64	26	5	27	2	10	0	3·8	77	81·3	80·1	381	—
12	1001·5	997·0	80·8	82·7	87	77	9·5	9·4	90	79	19	8	21	5	10●	9	0·6	74	80·6	80·2	374	—
13	997·4	998·8	82·3	78·9	85	78	7·7	7·2	66	77	22	9	23	5	9	3	1·3	76	80·7	80·4	368	—
14	1006·8	1011·6	80·4	77·3	84	77	6·7	6·5	65	78	25	9	30	3	4	1	—	76	80·7	80·5	360	—
15	1014·8	1021·4	80·2	79·3	84	77	6·1	6·2	60	65	27	8	29	2	9	0Ψ⁰	—	72	80·3	80·6	353	—
16	1020·8	1010·0	80·0	81·0	83	74	7·4	10·1	74	95	27	2	17	4	5≡⁰	10≡⁰●⁰	4·2	69	79·8	80·6	351	—
17	1000·8	994·3	83·9	80·9	86	81	9·5	8·1	74	77	21	6	21	6	9	7	0·6	79	80·7	80·6	350	—
18	989·6	992·7	81·5	80·0	83	79	7·8	7·2	70	72	23	9	24	6	10	5	*x* 5·5	79	81·0	80·6	346	—
19	989·3	989·7	80·8	79·9	84	78	7·6	8·6	72	87	24	7	22	3	10	10●⁰	2·6	77	80·6	80·6	343	—
20	990·5	995·3	79·4	79·7	84	78	7·8	7·8	82	80	21	4	21	3	10	1≡⁰	—	76	80·7	80·6	341	—
21	997·3	995·3	80·7	81·0	86	75	8·2	8·7	78	82	21	2	—	1	2∞	10≡⁰	0·1	70	80·4	80·7	338	—
22	995·9	1005·5	79·6	80·9	83	78	7·9	8·0	81	75	31	5	30	2	10	10	—	76	81·1	80·8	337	—
23	1013·0	1018·1	82·2	81·8	86	75	8·1	8·9	70	79	20	4	20	2	7	1	—	70	80·5	80·9	333	—
24	1018·6	1021·2	83·9	83·8	86	80	9·5	9·7	74	75	17	7	17	3	10	10	—	75	81·0	80·9	330	—
25	1022·1	1022·3	87·0	84·5	92	81	10·6	10·4	67	77	17	6	—	1	7	0≡⁰	—	78	81·6	80·9	328	—
26	1020·4	1018·4	88·5	87·0	95	82	10·5	12·4	60	78	9	2	7	2	*0*≡⁰	1≡⁰	—	75	82·7	80·9	325	—
27	1018·1	1017·8	87·4	90·3	*x* 96	81	12·5	11·1	77	57	—	1	28	2	?3≡⁰	0	—	76	83·6	81·0	322	—
28	1019·5	1019·8	87·8	87·6	94	*x* 84	12·3	9·3	74	56	1	4	5	3	4	1	—	79	85·0	81·2	318	—
29	1020·1	1017·5	88·6	86·5	93	81	10·0	6·7	57	*n* 44	4	4	4	6	0≡⁰	0	—	77	85·0	81·5	315	—
30	1016·3	1013·2	84·9	87·0	93	80	10·2	9·8	74	62	3	4	5	5	6	0	—	78	84·7	81·7	312	311
Means	1011·9	1011·8	81·9	81·8	86·6	77·6	8·5	8·3	74	74		4·5		2·9	6·4	3·7	26·0	74·0	80·9	80·4	364	—
Normal	1013·1	1013·0	81·4	80·9	85·8	77·3	8·2	8·2	75	77		4·3		3·3	—	—	40·8 (45 years)	—	81·1 (12 years)	80·8	—	—
	45 years						30 years				35 years											

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

1	997·5	997·1	80·1	73·0	85	70	8·5	5·7	84	93	18	6	—	0	3	0	—	No record.	REMARKS. Fine to c. *a.* Very fine *p.*
2	994·6	990·1	78·8	75·5	88	*n* 67	6·4	5·5	70	76	—	0	—	0	0	0∞	—		⌴² *a.* Fine and cloudless.
3	987·5	985·5	80·0	77·7	84	70	7·9	7·3	79	85	17	4	—	1	0∞	10	—		⌴² *a.* Fine *a.* to o.
4	983·8	983·8	76·4	75·3	82	75	6·7	5·9	86	82	17	5	24	5	10	2	1·0		● showers *a.* ⌒ 11 h. Fine *p.*
5	991·9	995·2	78·0	73·5	82	71	5·5	5·4	63	86	2	8	—	1	4	6	—		⌴⁰ *a.* Fair to fine.
6	992·1	987·3	75·4	74·5	80	69	4·7	5·6	65	82	--	1	—	0	9	10	—		Mostly o.
7	987·6	988·6	75·5	72·4	79	72	5·7	5·1	78	87	—	1	—	2	7●	0	0·1		Dull and o. *a.* ⊕⁰ 17 h. Fine evening.
8	989·0	986·9	76·6	77·7	81	70	7·1	6·8	90	80	20	9	23	6	6	7	1·1		c. *a.* o. with ● *p.* Fine evening.
9	989·4	994·5	77·6	74·5	82	74	6·5	5·2	77	77	25	5	21	5	6	?3	—		c. *a.* Fair to fine *p.* ⊕ 16 h.
10	992·3	980·6	78·5	79·2	81	73	7·1	9·0	79	96	19	9	18	7	10	10●	10·0		q. and ● *a.* ● *p.* ≡⋮ ●² *n.*
11	976·4	978·0	78·0	75·9	81	76	6·6	6·1	76	81	25	8	19	4	4	9Ψ	15·0		● showers *a.* and *p.* △ 11 h.
12	962·8	961·7	82·7	77·9	86	75	9·9	6·4	83	74	23	11	22	9	3	6	7·4		●² 1 h. △● showers.
13	959·7	965·9	79·5	76·1	83	75	7·7	6·3	80	83	23	11	26	8	5⌒	7Ψ	2·2		⌒ 9 h. △ 11 h. ⊕⁰ 16 h. Ψ 21 h.
14	972·1	977·2	77·1	74·8	79	74	6·6	5·3	81	77	26	11	26	11	5	2	3·9		✳ showers *a.* and *p.* △ 11 h. Fine *n.*
15	985·6	991·0	78·4	74·9	83	71	6·0	5·6	67	79	27	10	26	3	2	6Ψ	1·1		Very fine to fair. Ψ 21 h.
16	985·4	971·9	75·5	79·9	81	69	7·3	9·7	100	98	14	4	16	7	10●⁰	10●	20·0		✳⊠ early. ● *a.* and *p.*
17	963·2	956·4	78·8	78·1	82	77	8·0	7·7	87	87	20	10	22	6	10●	10●	9·3		● 8 h.–11 h. ● showers *p.*
18	959·6	959·3	80·6	77·0	84	76	8·7	7·4	84	92	26	7	—	1	9	10	4·0		● *a.* and *p.*
19	961·5	962·4	76·5	75·5	*n* 78	75	6·8	6·7	86	91	2	8	3	8	10●	10●⁰	4·3		●² *a.* and *p.*
20	963·3	967·4	76·5	76·7	*n* 78	75	7·3	7·1	93	89	3	8	2	4	10●	5	3·0		o. with ● *a.* and *p.*
21	968·9	971·2	78·5	76·3	80	75	7·5	7·4	83	95	2	6	4	5	10	10●⁰	3·1		Dull, with ● *a.* and *p.*
22	971·2	973·5	78·3	76·8	82	76	6·9	6·5	78	81	—	1	15	4	9	9	2·7		o. *a.* Sunny *p.*
23	975·4	981·5	78·8	79·0	82	76	8·0	9·0	87	97	19	11	17	8	9	10	11·6		o. to c. *a.* c. to o. *p.*
24	977·3	982·0	80·4	81·7	82	79	9·6	11·0	94	98	17	18	17	13	10●	10●≡⁰	*x*28·0		/ 9 h.–15 h. o. *a.* ●≡⁰ *p.*
25	985·9	993·2	81·3	80·7	82	*x* 81	10·3	10·1	95	97	17	17	14	2	10●⁰≡⁰	10●≡⁰	7·0		/ 3 h.–4 h. and 8 h.–9 h. ●² *a.*
26	992·5	990·4	87·7	85·7	*x* 92	78	9·9	10·2	*n* 60	70	14	4	—	1	4	2∞	—		Ψ 1 h. Fine. ⊕ *a.* and *p.*
27	990·2	992·7	81·5	81·3	84	77	9·9	9·3	89	85	17	4	22	3	10	9	—		o. *a.* Sunny afternoon.
28	995·8	997·7	83·5	80·1	88	77	9·6	9·1	76	90	31	2	29	4	10	2	—		o. *a.* Fine afternoon.
29	997·9	996·3	82·8	78·6	85	77	9·4	8·2	78	90	4	7	32	5	6	10	—		Ψ 1 h. Fair to fine.
30	994·0	990·5	77·9	79·2	86	77	8·1	8·7	94	93	3	5	4	4	10≡⁰	10≡⁰	—		o. to fine and cloudless.
Means	981·5	981·7	79·0	77·3	82·6	74·1	7·7	7·3	81	86		7·0		4·6	7·0	6·8	134·8	—	**Monthly Totals or Means.**
Normal 1911-15	988·5	988·7	79·9	77·8	83·3	74·2	7·8	7·4	78	84		6·4		5·1	—	—	107·2	—	**Normals.**

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism:—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 25 days; they are computed from the data for those days on which values at each of the four hours, 3^h, 9^h, 15^h, 21^h, are given in the table. A similar note applies to the values in Table 6.

x denotes the maximum and n the minimum value in the column. z Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre. Factor 2·45 to 15^h on 19th, then 2·23.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
						+ .	− .				Mean Time.		Mean Time.		Mean Time.	
		3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.								
		v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².			h m	γ	h m	° ′	h m	° ′
1	≡⌙ till 10 h., then very fine.	395	560	810	710	—	—	—	0	1	—	—	—	—	—	—
2	≡⁰⌙ till 8 h. Fine all day.	370	450	755	560	—	—	—	0	0	—	—	—	—	—	—
3	≡ till 10 h., then very fine.	165	500	220	260	·19	·04	0·55	0	0	—	—	—	—	—	—
4	Fair to fine. ● 21 h.–23 h.	135	235	180	z ±	·26	·21	0·60	1	0	—	—	—	—	—	—
5	Fine to dull; very fine later.	355	535	300	560	·73	·28	1·40	1	0	—	—	—	—	—	—
6	●⁰ 9 h. ≡⁰ later. ● 21 h.–24 h.	345	605	795	70	—	—	—	1	1	11 27	18419	14 29	15 21·9	14 56	66 55·5
7	●≡⁰ 0 h.–6 h. to fine. ≡ 21 h.	495	495	395	765	—	—	—	2	1	—	—	—	—	—	—
8	≡⌙ early, then fine.	395	605	300	605	—	—	—	1	1	—	—	—	—	—	—
9	≡⁰ early, then very fine. ⊔ 21 h.	385	300	165	290	—	—	—	0	0	—	—	—	—	—	—
10	≡⁰⌙ early. Unusual v. in afternoon.	180	480	220	385	—	—	—	0	0	—	—	—	—	—	—
11	▲△● at times.	220	40	z +	480	—	—	—	1	0	—	—	—	—	—	—
12	≡⁰ till 8 h. Dull with ●.	220	15	220	315	—	—	—	1	0	—	—	—	—	—	—
13	● showers. ▲ 14 h.	165	180	345	290	—	—	—	2	0	11 30	18439	14 31	15 16·2	14 39	66 57·8
14	● 2 h.–3 h.	−205	205	95	235	—	—	—	1	1	—	—	—	—	—	—
15	✳⁰ 8 h. Mostly fine; ●⁰ showers.	150	180	z ±	205	—	—	—	1	1	—	—	—	—	—	—
16	≡⁰⌙ early. ⊕ 7 h. Mostly d.	395	550	−95	300	—	—	—	1	1	—	—	—	—	—	—
17	●² 2 h.–3 h. ● showers. △ 16 h.	−25	235	40	300	—	—	—	1	0	—	—	—	—	—	—
18	Dull, with ● showers. ≡⁰ from 17 h.	135	150	z ±	315	—	—	—	2	1	—	—	—	—	—	—
19	● at times. △ 14 h.	95	235	z ±	−425	—	—	—	2	0	—	—	—	—	—	—
20	●⁰ at times. Dull to fair.	115	125	150	600	—	—	—	1	1	11 14	18421	14 13	15 18·1	14 38	66 57·2
21	≡⁰◠ early. Fine to dull.	290	400	225	350	—	—	—	1	0	—	—	—	—	—	—
22	≡⁰ early. Mostly dull.	250	250	225	225	—	—	—	1	0	—	—	—	—	—	—
23	Mostly fine. ●⁰ 13 h. and 14 h.	250	190	165	440	—	—	—	1	0	—	—	—	—	—	—
24	Dull and o. all day.	250	215	175	315	—	—	—	0	0	—	—	—	—	—	—
25	≡⁰ early. Very fine. v. *p*.	215	265	215	525	—	—	—	0	2	—	—	—	—	—	—
26	Fine; ≡⁰. ⊕ 12 h.–13 h.	390	800	600	575	—	—	—	1	2	—	—	—	—	—	—
27	≡⁰ till 13 h. Mostly fine.	250	375	125	325	—	—	—	1	2	11 15	18421	14 6	15 21·8	15 2	66 58·6
28	≡⁰ till 8 h. Mostly fine. ⊕⁰ 13 h.	150	550	550	690	—	—	1·25	0	2	—	—	—	—	—	—
29	≡⁰ till 10 h. Very fine.	350	750	425	675	—	—	—	0	2	—	—	—	—	—	—
30	Very fine and clear.	415	400	325	465	—	—	—	0	1	—	—	—	—	—	—
M.		262*	404*	310*	433*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism:—Eskdalemuir.

Day.	Potential Gradient, Volts per metre. Factor 5·52.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
					+ .	− .				Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.														
	v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
1	385	370	219	385	·46	·35	—	0 *a*	1	19 9	1044	937	0 43	13 0	1090	988	2 36	16 58	186	65	0 32
2	340	234	196	294	—	—	—	0 *a*	0	19 5	1014	941	11 36	13 36	1062	998	8 7	18 56	168	130	0 53
3	143	264	136	76	·17	·12	—	1 *b*	0	11 34	1028	949	12 36	{13 / 13} {22 / 32}	1061	992	8 40	7 50	160	140	12 32
4	91	211	219	302	—	—	—	1 *b*	0	20 37	1018	947	11 10	13 44	1075	987	{8 / 8} {43 / 54}	7 55	160	130	12 24
5	242	174	159	242	·40	·52	—	0 *a*	0	{21 / 22} {37 / 4}	1025	954	12 5	14 1	1074	998	9 2	7 40	157	130	13 8
6	68	76	219	219	—	—	—	0 *a*	1	6 25	1024	941	12 20	14 25	1104	996	9 0	17 5	157	126	12 40
7	83	91	211	385	0	0	—	1 *a*	1	22 46	1050	948	11 46	14 3	1070	993	{8 / 8} {17 / 27}	18 20	169	134	24 0
8	589	513	143	166	—	—	—	1 *a*	1	1 37	1039	904	13 7	13 56	1089	987	0 22	14 32	176	107	3 25
9	113	226	98	204	—	—	—	1 *b*	1	23 43	1011	938	11 16	12 38	1075	997	8 27	6 50	156	131	12 38
10	189	181	294	−1140	—	—	—	2 *c*	0	19 8	1014	950	11 34	13 57	1068	1003	8 30	19 0	151	132	12 45
11	159	143	211	204	—	—	—	1 *b*	1	21 43	1038	947	11 28	13 8	1066	1003	8 40	19 23	158	130	12 18
12	−1925	121	15	151	—	—	—	2 *c*	0	7 0	1022	968	13 7	13 18	1067	1006	8 55	17 10	153	126	12 24
13	0	−76	159	264	—	—	—	2 *c*	0	21 13	1033	972	{10 / 11} {44 / 19}	13 25	1067	1007	8 26	? 16 10	? 159	136	12 30
14	151	325	z	204	—	—	—	2 *c*	1	22 14	1038	958	10 26	13 53	1066	987	22 11	21 8	161	126	12 35
15	—	159	159	400	—	—	—	? 0 *a*	2	17 31	1069	939	11 6	†	†	?988	? 7 45	18 27	200	107	0 34
16	143	z	38	z	—	—	—	2 *b*	2	18 32	1067	950	11 41	†	†	†	†	18 14	179	83	2 0
17	15	−785	−8	−1133	—	—	—	2 *c*	1	18 43	1058	948	10 50	13 43	1078	?1011	? 19 5	18 28	164	135	12 10
18	151	60	−1684	−53	—	—	—	2 *c*	1	22 53	1032	937	7 48	13 3	1099	992	23 10	18 45	177	128	23 19
19	−408	−317	−1019	−68	—	—	—	2 *c*	0	18 34	1033	945	12 6	14 1	1076	997	{8 / 9} {26 / 8}	17 50	157	136	12 45
20	−83	−513	−76	30	—	—	—	2 *c*	1	16 30	1059	947	11 30	16 30	1088	987	19 44	19 48	173	138	11 37
21	−8	76	189	−257	—	—	—	2 *b*	0	21 3	1025	948	10 38	13 53	1075	1003	8 15	17 45	156	135	12 37
22	76	83	219	181	—	—	—	1 *b*	0	22 25	1032	949	11 19	14 20	1057	1003	8 2	18 25	154	117	4 52
23	159	−30	143	166	—	—	—	2 *c*	0	17 13	1022	958	11 26	13 6	1066	1024	{10 / 10} {5 / 34}	18 55	170	136	12 42
24	−151	76	159	−498	—	—	—	2 *c*	0	18 59	1027	963	10 31	17 22	1056	995	8 53	19 24	155	134	12 34
25	−1299	76	264	143	—	—	—	2 *c*	2	17 20	*x* 1195	762	24 0	17 16	*x*1184	917	18 55	17 17	*x* 397	4	24 0
26	265	340	143	242	—	—	—	0 *a*	2	20 44	1023	*n*<762	0 3	{14 / 14} {13 / 17}	1072	923	1 27	16 37	172	−23	0 8
27	219	91	136	143	·52	·52	—	0 *a*	2	20 48	1074	933	9 50	13 34	1119	983	20 24	20 23	190	83	0 55
28	476	151	181	340	—	—	—	0 *a*	2	23 55	1077	909	12 37	13 19	1082	944	20 25	15 45	177	38	4 19
29	151	166	91	219	—	—	—	0 *a*	2	19 12	1038	808	2 33	13 19	1092	*n*880	1 3	14 42	171	*n*−80	2 46
30	181	378	91	378	—	—	—	0 *a*	1	17 53	1056	934	11 52	14 6	1075	964	6 55	18 3	174	122	1 34
M.	8*	88*	41*	59*	—	—	—	—	—	—	1044‡	934‡	—	—	1081§	983§	—	—	175	105	—

* 27 days. *See* note above. † Magnet touching side of case. ‡ 29 days. § 27 days.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. $A_{N.}$	Amplitudes. $A_{E.}$	Amplitudes. $A_{Z.}$	Δ.	Remarks
		h m s	s	μ	μ	μ	km.	
2	P	7 17	...	...	...	...	...	Very slight disturbance.
	F	7 21	...	...	...	...	...	
3	Pe	8 54	...	...	...	...	...	Slight disturbance with no marked phases.
	Max	9 2	...	...	...	...	...	
	F	10 10	...	...	...	...	...	
6	P	19 35	...	...	...	...	...	Very slight disturbance.
	F	19 39	...	...	...	...	...	
7	Pi	9 39 57	...	...	...	...	9560	Azimuth uncertain.
	PR_1	9 44 4	...	...	...	...	...	
	PR_2	9 46 33	...	...	...	...	...	
	PR_3	9 49 44	...	...	...	...	...	
	S	9 50 35	...	...	...	...	...	
	SR_1	9 53 4	...	...	...	...	...	
	SR_2	10 1 42	...	...	...	...	...	
	SR_3 (?)	10 8 33	...	...	...	...	...	
	L	10 13	...	...	...	...	...	
	M	10 31	16	82	...	...	...	
	F	12 30	...	...	...	...	...	
7	P	15 28 to	...	...	...	...	...	Very slight disturbance.
		15 49	...	...	...	...	...	
11	P	4 20 to	...	...	...	...	...	Slight disturbance obscured by wind effects.
		4 30	...	...	...	...	...	
15	Pi	12 57 5	...	...	...	...	...	Phase-times obscured by wind effects.
	M	13 25 14	16	17	...	...	...	
	M	13 36 26	22	...	40	...	...	
	F	14 20	...	...	...	...	...	
16	P	23 3	...	...	...	...	...	Very slight disturbance.
	F	23 36	...	...	...	...	...	
18	P	4 12 52	...	...	...	...	7650	Small earthquake. Record obscured by wind effects and microseisms.
	S	4 21 54	...	...	...	...	...	
	Max	4 36	...	...	...	...	...	
	F	6	...	...	...	...	...	
21	Pi	11 44 33	...	...	...	...	9040	The sharply pronounced P. at 14 h. 12 m. 28 s. was possibly due to a wave travelling round the earth in the direction opposite to that of the principal disturbance.
	PR_1	11 48 6	...	...	...	...	...	
	PR_2	11 51 32	...	...	...	...	...	
	S	11 54 46	...	...	...	...	...	
	SR_1	12 2	...	...	...	...	...	
	SR_2	12 9	...	...	...	...	...	
	L	12 15	...	...	...	...	...	
	F	14 0	...	...	...	...	...	
	P	14 12 28	...	...	...	...	...	
24	P	4 37	...	...	...	...	6780	P and F obscured by wind effects. L well marked on E-W instrument.
	S	4 45 18	...	...	...	...	...	
	L	4 58	...	...	...	...	...	
	M	4 59	20	...	57	...	...	
	F	5 45	...	...	...	...	...	
24	P	8 14 12	...	...	...	...	8160	Large distant earthquake; azimuth uncertain, L prominent on vertical instrument.
	S	8 23 40	...	...	...	...	...	
	L	8 35	...	...	...	...	...	
	M	8 37	22	71	...	...	...	
	M	8 40	20	...	83	...	...	
	M	8 43	...	...	...	...	...	
	M	8 51	...	...	...	...	...	
	F	10 28	...	...	...	...	...	
26	P	2 33 38	...	...	...	...	8400	P indistinct on N-S trace. Azimuth uncertain.
	S	2 43 18	...	...	...	...	...	
	L	2 58	...	...	...	...	...	
	M	3 3	20	...	67	...	...	
	M	3 4	20	41	...	...	...	
	F	?	...	...	...	...	...	
26	P	6 47	...	...	...	...	...	Prolonged disturbance with no marked phases.
	F	8 30	...	...	...	...	...	

* No trace.

Microseisms of N. Component:—Eskdalemuir.

Day.	0 h. $A_{N.}$	0 h. T.	6 h. $A_{N.}$	6 h. T.	12 h. $A_{N.}$	12 h. T.	18 h. $A_{N.}$	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	1·8	5	1·6	5·5	1·7	5·5	1·7	5·5
2	2·2	6	1·7	5	1·5	7	1·4	5·5
3	1·7	5·5	1·2	6	1·5	5	1·1	5·5
4	1·3	6	1·6	6	1·9	6·5	2·2	7
5	1·6	6	1·2	5·5	1·0	5·5	1·0	5
6	0·8	5	0·8	5	0·9	5	1·0	5
7	0·7	6·5	0·8	6·5	Earthquake		1·7	7
8	1·3	7	1·7	5·5	1·2	6	1·9	5·5
9	2·1	6·5	2·6	6	2·3	6	1·8	6
10	1·7	5·5	1·6	5·5	0·9	6	1·4	6·5
11	1·6	7	1·6	6	2·2	8	2·5	8
12	1·7	7	1·7	5·5	1·4	6·5	2·2	5
13	1·7	5·5	1·7	7	1·8	6·5	2·3	5·5
14	2·3	5·5	1·7	5·5	0·9	6·5	0·9	5
15	1·2	6	0·9	5	1·2	5	0·8	6
16	0·9	5	0·6	5	0·7	5·5	0·9	5
17	1·1	5·5	1·5	6	3·7	5·5	2·3	6
18	3·0	5·5	2·7	5·5	2·0	5	2·5	6
19	1·9	5	1·5	6	1·2	5	1·0	5
20	1·1	5	1·0	5	0·9	5	0·9	5
21	0·8	5·5	0·7	5·5	Earthquake		0·6	5
22	0·5	5	0·4	5	0·8	5	0·8	5
23	0·7	5	0·9	5	1·0	5	1·3	4·5
24	1·7	5·5	1·9	5	1·9	6	1·9	5
25	1·6	5·5	1·5	5	1·5	4·5	1·7	5
26	1·2	5	1·1	5	1·4	5	1·1	5·5
27	1·7	5·5	1·7	5·5	0·9	6	1·5	5
28	0·9	5	0·7	5	*	*	*	*
29	†	†	†	†	†	†	†	†
30	0·5	6	0·6	5	0·4	5	0·5	5

* No trace.

† Trace indistinct.

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
5	21 12	21 14	Small earthquake.
7	...	...	Prolonged disturbance ending 12h 30m. Record previous to 11h 3m lost owing to clock stopping.
11	...	4 19	Series of very small movements.
15	12 58·0	13 47·3	Prolonged disturbance.
16	23 15	...	Series of very small movements till 23h 30m.
18	4 22	4 35·9	Prolonged disturbance.
21	11 47·5	11 56·1	Prolonged disturbance. Amplitude on trace 2·0 mm.
24	4 45·0	4 59·5	
24	8 14·0	8 48·8	Prolonged disturbance. Amplitude on trace 3·7 mm.
26	2 42·6	3 9·5	Amplitude on trace 2·1 mm.
26	7 6	8 2·0	Long succession of small movements.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	3·0	...	1·3	...	4·5	...	1·9	...	4·7	...	4·7	...	1·1	...	1·1	...	10·4	12	0
2	0·7	...	0·7	...	0·2	...	0·2	...	...	1·1	1·1	...	...	1·4	1·4	...	4·0	14	15
3	1·6	...	1·6	...	4·0	...	1·6	...	5·7	...	2·4	...	...	3·6	2·4	...	11·5	22	47
4	...	3·8	9·1	...	...	3·3	7·9	...	...	1·3	6·5	...	...	5·6	5·6	...	15·3	17	8
5	...	9·6	1·9	...	...	6·2	...	...	...	5·6	...	...	...	1·6	...	...	15·1	1	52
6	...	2·0	...	...	4·8	...	2·0	...	5·2	...	2·1	...	1·6	...	0·3	...	9·7	12	9
7	1·5	...	...	0·6	4·3	...	1·8	...	1·0	...	2·4	...	0·5	...	1·2	...	9·9	9	50
8	0·5	...	2·6	...	1·6	...	4·0	...	6·6	...	4·4	...	3·7	...	5·5	...	13·6	14	18
9	...	2·1	5·2	...	...	2·8	6·7	...	...	1·0	5·1	...	...	...	0·7	...	11·5	9	20
10	...	...	2·3	...	3·8	...	2·6	...	6·2	...	4·2	...	3·1	...	4·7	...	13·7	22	18
11	...	3·5	8·5	...	...	4·8	11·6	...	...	1·3	6·8	...	1·3	...	6·5	...	20·6	0	48
12	7·8	...	7·8	...	3·1	...	7·6	...	3·5	...	8·5	...	1·8	...	9·0	...	20·5	15	40
13	2·8	...	6·7	...	...	...	12·5	...	1·9	...	9·6	...	...	7·8	11·7	...	21·5	22	6
14	...	5·4	13·0	...	...	4·5	10·9	...	...	...	11·5	...	...	4·4	10·6	...	21·0	0	29
15	...	5·0	12·1	...	...	5·8	8·7	...	...	1·6	4·0	...	2·2	...	3·2	...	19·4	1	28
16	5·1	...	1·0	...	7·1	...	4·7	...	3·7	...	3·7	...	4·6	...	6·8	...	15·5	23	55
17	2·8	...	6·7	...	3·8	...	9·1	...	2·1	...	10·6	...	...	...	13·8	...	23·9	23	56
18	...	3·7	18·6	...	...	5·9	14·2	...	...	7·5	11·1	...	...	2·8	14·1	...	26·8	2	37
19	...	5·4	13·0	...	...	5·6	5·6	...	...	1·8	1·8	...	...	3·0	...	1·3	22·2	2	11
20	...	6·6	...	...	...	5·5	1·1	...	...	4·3	1·8	...	...	2·7	1·8	...	10·7	5	9
21	...	4·5	...	0·9	...	2·3	...	0·4	...	2·6	...	0·5	...	2·9	...	0·6	7·1	23	34
22	...	3·5	...	0·7	...	5·5	2·3	...	...	1·4	3·3	...	3·5	...	3·5	...	10·3	10	48
23	2·6	...	6·4	...	5·8	...	5·8	...	8·7	...	5·8	...	6·7	...	2·8	...	18·0	15	43
24	11·3	...	2·2	...	11·3	...	2·2	...	9·4	...	3·9	...	7·9	...	3·3	...	20·2	7	35
25	9·3	...	1·9	...	8·7	...	1·7	...	6·5	...	1·3	...	0·9	...	0·4	...	17·7	2	53
26	0·6	...	0·3	...	4·8	...	...	2·0	4·8	...	2·0	...	3·3	...	1·4	...	10·4	11	22
27	6·1	...	2·5	...	6·8	...	1·3	...	7·3	...	3·0	...	3·6	...	2·4	...	12·0	12	57
28	0·2	...	0·2	...	...	4·2	...	0·8	...	6·1	...	1·2	...	3·2	...	0·6	9·9	11	58
29	...	2·6	...	0·5	...	2·9	...	4·3	...	3·3	...	4·9	...	2·0	...	3·0	12·3	12	34
30	...	1·2	...	6·1	...	3·1	...	7·6	...	6·4	...	2·6	...	5·2	...	3·4	13·7	12	9
S+N & W+E	114·8		134·4		137·0		143·1		122·6		130·8		92·0		123·1				
S−N & W−E	−3·0		116·8		12·2		112·9		32·0		112·4		−0·4		105·3				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	6·3	...	6·3	...	4·7	...	7·1	...	1·4	...	7·1	...	3·3	...	1·4	...	11·8	12
2	2·9	...	0·6	...	2·6	...	...	...	4·5	...	...	0·9	0·9	...	0·9	...	5·9	12, 13
3	...	...	...	2·0	2·1	...	...	0·9	0·6	...	2·9	...	0·9	...	1·3	...	4·9	16
4	4·1	...	2·7	...	5·2	...	3·4	...	4·4	...	10·6	...	...	10·9	4·5	...	13·1	20
5	...	15·3	10·2	...	...	9·8	6·6	...	...	6·6	4·4	...	...	1·1	0·7	...	12·1	7
6	...	0·4	0·6	...	8·7	...	...	1·7	8·5	...	...	5·7	10·6	...	...	2·1	12·8	19
7	8·3	...	...	1·7	12·3	...	...	2·4	7·3	...	...	3·0	3·0	...	...	1·3	12·5	9
8	2·5	...	2·5	...	10·9	...	2·2	...	7·0	...	10·4	...	7·0	...	10·4	...	14·4	23
9	3·2	...	16·1	...	...	3·1	15·8	...	...	8·0	12·0	...	...	4·2	6·2	...	18·4	2
10	...	0·6	0·8	...	6·8	...	1·3	...	4·5	...	1·9	...	3·4	...	5·2	...	8·9	14
11	3·6	...	8·8	...	1·9	...	9·3	...	...	...	13·1	...	...	...	7·5	...	13·8	14
12	7·7	...	1·5	...	4·8	...	2·0	...	4·7	...	3·1	...	6·4	...	2·6	...	9·8	5, 11, 18
13	4·2	...	2·8	...	1·9	...	9·6	...	...	5·4	13·0	...	...	5·4	13·0	...	15·4	11
14	...	5·0	12·1	...	...	2·3	11·6	...	...	6·7	10·1	...	...	9·0	9·0	...	15·4?	19?
15	...	5·1	7·6	...	...	10·0	10·0	...	...	7·2	7·2	...	...	0·4	2·0	...	14·4	10, 12
16	3·3	...	1·4	...	10·0	...	...	4·1	13·0	...	...	5·4	10·3	...	...	2·0	14·1	15, 16, 17
17	1·6	...	1·6	...	4·3	...	...	...	3·2	...	...	2·2	...	2·4	...	3·6	5·6	24
18	...	4·1	...	2·7	...	2·8	...	6·7	...	...	...	8·2	...	1·9	...	9·6	10·2	20
19	...	0·9	...	4·5	...	2·1	...	2·1	...	1·8	...	2·7	...	0·8	...	3·8	6·6	22
20	...	3·5	...	3·5	...	4·9	...	4·9	...	7·1	...	4·7	...	5·2	...	3·4	8·9	13
21	...	4·8	...	2·0	...	6·1	...	1·2	...	6·7	...	2·8	...	4·5	...	0·9	8·5	16
22	...	1·6	...	0·3	...	0·8	...	1·8	2·9	...	...	4·3	6·1	...	...	2·5	7·5	22, 23
23	2·5	...	1·7	...	8·8	...	3·6	...	6·4	...	2·6	...	6·7	...	2·8	...	10·5	10
24	7·3	...	...	3·0	14·5	...	...	9·7	11·6	...	...	2·3	3·2	...	2·2	...	19·0	11
25	0·9	...	1·3	...	6·1	...	1·2	...	1·9	...	4·5	...	1·8	...	0·8	...	6·9	10, 12
26	1·1	...	...	1·7	...	...	...	8·9	3·8	...	...	9·1	1·9	...	...	4·5	9·8	15
27	3·7	...	...	5·5	6·9	...	...	6·9	7·3	...	...	3·0	0·3	...	...	...	10·8	10, 13
28	2·4	...	1·0	...	0·7	...	3·5	...	1·4	...	2·2	...	0·7	...	...	0·1	6·6	7
29	...	...	1·3	...	0·5	...	0·5	...	3·0	...	...	1·3	2·0	...	...	0·4	3·3	12, 13, 15, 16
30	2·0	...	...	0·4	2·6	...	...	...	...	1·0	5·1	...	...	0·8	3·8	...	6·9	16, 17
S+N & W+E	108·9		108·2		158·2		139·0		147·9		165·8		115·1		108·5			
S−N & W−E	26·3		53·6		74·4		36·4		46·9		54·6		21·9		40·1			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	0·7	1·6	...	...	...	...	4·2	...	1·3	...	3·1	...	1·8	...	2·7	4·8	10	28
2	...	...	...	2·5	...	...	...	4·2	1·8	...	...	1·8	0·7	...	...	0·3	5·5	9	30
3	...	0·6	0·6	...	...	1·4	0·9	...	...	1·6	3·9	...	...	8·3	5·6	...	14·5	21	30
4	...	9·2	3·8	...	...	7·3	3·0	...	...	6·5	6·5	...	...	10·1	6·7	...	17·2	20	55
5	...	10·4	...	...	...	11·7	...	...	...	9·2	...	...	...	6·2	...	4·2	18·0	5	25
6	...	3·5	...	1·5	...	...	...	0·8	4·7	...	...	4·7	5·0	...	...	5·0	10·4	22	48
7	5·2	...	...	3·5	0·9	...	...	4·5	...	3·5	...	1·5	...	3·3	...	...	10·5	0	10
8	...	2·5	...	...	...	3·3	...	...	...	3·8	2·6	...	...	0·8	4·1	...	7·5	16	25
9	...	2·4	1·6	...	...	5·0	...	2·1	...	4·6	...	...	...	3·8	...	...	8·0	6	44
10	...	1·7	...	...	...	1·4	...	0·9	...	...	4·2	...	...	1·4	7·0	...	11·0	21	53
11	...	4·5	10·8	...	...	9·0	6·0	...	...	4·9	7·3	...	...	3·8	9·2	...	17·2	5	3
12	2·1	...	10·6	...	...	...	13·3	...	...	2·7	13·5	...	...	2·6	13·1	...	19·5	16	10
13	...	2·4	12·3	...	...	4·8	11·6	...	...	5·7	13·9	...	...	7·2	17·4	...	26·0	15	37
14	...	4·9	11·9	...	...	4·6	11·2	...	...	7·2	10·7	...	...	7·4	11·1	...	20·5	2	20
15	...	6·3	9·4	...	...	7·4	7·4	...	...	1·9	4·6	...	...	...	1·7	...	16·4	0	46
16	3·9	...	1·6	...	...	...	5·4	...	...	...	8·8	...	3·4	...	8·1	...	18·0	23	59
17	...	2·4	11·9	...	...	2·5	12·7	...	...	3·3	16·8	...	...	7·2	17·4	...	25·3	17	56
18	...	7·2	17·4	...	...	10·2	15·3	...	...	9·8	14·6	...	...	9·5	14·2	...	26·3	5	50
19	...	9·1	13·6	...	...	9·5	14·2	...	...	5·4	13·1	...	...	6·2	15·1	...	22·6	18	10
20	...	5·7	13·9	...	...	4·0	9·6	...	...	2·1	5·0	...	...	0·7	1·1	...	23·0	4	0
21	...	0·7	1·1	...	...	...	...	2·5	...	4·3	...	1·8	...	4·6	...	...	11·4	23	53
22	...	6·7	...	...	...	7·7	5·1	...	...	6·8	6·8	...	...	2·0	10·2	...	14·7	21	50
23	...	...	9·2	...	...	...	7·9	...	4·7	...	4·7	...	7·9	...	...	...	14·0	23	46
24	10·8	...	...	...	11·6	...	4·8	...	8·3	...	...	...	17·9	...	...	...	17·4	7	8
25	7·1	...	...	...	6·9	...	...	2·9	5·9	...	...	5·9	4·5	...	...	4·5	10·9	5	9
26	4·8	...	...	3·2	4·6	...	...	1·9	4·3	...	1·8	...	3·0	...	3·0	...	8·9	0	20
27	...	...	3·8	...	...	...	3·3	...	...	1·6	3·9	...	...	1·0	2·3	...	8·5	2	45
28	...	4·3	...	1·8	...	6·9	...	2·9	...	7·7	...	3·2	...	7·3	...	3·0	12·6	17	10
29	...	2·8	...	4·2	...	1·6	...	8·1	...	1·9	...	9·4	...	2·6	...	6·2	14·6	15	36
30	...	3·0	...	4·5	...	...	...	7·1	...	1·9	...	4·6	...	1·1	...	5·3	12·5	11	28
S+N & W+E	124·9		156·3		122·3		173·8		127·4		178·7		131·3		178·5				
S−N & W−E	−57·1		113·9		−74·3		89·6		−68·0		106·7		−66·5		116·1				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust. (Gorleston.)	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	...	2·0	...	...	...	1·6	...	...	2·3	...	2·3	...	0·7	...	1·1	5·0	16	40
2	...	0·2	...	0·2	...	2·2	...	3·2	...	2·4	...	3·6	...	1·7	...	2·5	5·1	9	15
3	...	0·2	...	0·2	...	0·4	0·6	...	...	0·9	1·3	...	1·3	...	...	...	4·0	16	15
4	...	0·7	3·5	...	...	4·7	3·1	...	...	4·5	...	0·9	1·4	...	1·4	...	12·6	8	55
5	...	...	2·3	...	...	4·0	1·6	...	...	6·1	1·2	...	...	4·3	...	...	14·5	15	30
6	...	3·0	...	...	...	3·2	...	0·6	...	2·3	...	2·3	...	0·8	...	3·8	8·8	5	5
7	...	3·6	...	2·4	...	3·0	3·0	...	...	2·2	3·2	...	...	0·6	0·8	...	8·4	13	40
8	...	0·9	1·3	...	...	1·6	1·6	...	...	2·9	...	0·6	2·5	...	1·7	...	5·3	12	10
9	...	...	3·0	...	...	2·9	4·3	...	...	3·0	3·0	...	...	1·3	0·3	...	9·6	9	35
10	...	1·4	2·2	...	...	3·3	...	...	3·5	...	...	3·5	4·8	...	1·0	...	10·2	21	40
11	1·7	...	2·5	...	...	1·8	4·3	...	...	3·3	3·3	...	...	0·4	2·0	...	14·8	12	50
12	1·4	...	3·3	...	6·6	...	4·4	...	1·6	...	8·0	...	...	1·2	6·1	...	14·1	8	50
13	...	...	6·2	...	1·5	...	7·7	...	...	1·7	8·3	...	1·0	...	5·1	...	13·0	8	35
14	...	2·1	5·2	...	...	4·7	7·1	...	...	1·5	7·4	...	...	1·2	5·8	...	16·3	13	25
15	...	1·3	6·5	...	...	4·7	4·7	...	...	6·4	2·6	...	...	2·3	2·3	...	16·7	12	15
16	...	1·0	2·4	...	...	0·4	0·9	...	*	*	*	*	*	*	*	*	12·6	19	40
17	*	*	*	*	*	*	*	*	1·4	...	7·1	...	1·0	...	4·8	...	15·9	16	30
18	1·0	...	5·1	...	1·0	...	5·1	...	...	2·2	3·2	...	...	1·2	6·1	...	13·9	11	10
19	...	...	5·6	...	0·8	...	3·8	...	...	1·1	2·8	...	...	0·2	1·0	...	9·8	14	45
20	0·4	...	0·9	...	0·4	...	0·9	...	0·6	...	2·9	...	0·9	...	0·9	...	8·5	13	10
21	1·4	...	2·2	...	0·9	...	2·1	...	4·8	...	...	1·0	0·6	...	...	0·3	10·5	14	10
22	...	0·6	...	0·4	...	6·5	...	1·3	...	4·5	0·9	...	...	1·3	0·9	...	12·2	13	40
23	...	0·8	1·8	...	0·8	...	4·2	...	0·9	...	4·5	...	1·8	...	0·8	...	9·5	13	20
24	1·6	...	...	...	5·1	...	1·0	...	6·5	...	...	1·3	3·9	...	...	...	14·2	10	10
25	3·3	...	...	...	4·5	...	...	0·9	4·8	...	...	1·0	3·3	...	...	...	10·4	10	30
26	1·1	...	...	1·1	...	...	...	1·6	0·3	...	...	0·6	...	...	...	1·6	5·6	17	5
27	0·3	...	...	0·6	...	0·4	...	0·9	0·3	...	...	1·3	0·2	...	...	1·0	4·2	23	0
28	...	0·6	0·4	...	...	2·6	...	...	...	2·1	...	2·1	...	3·6	...	2·4	6·3	5	0
29	...	0·5	...	1·2	...	0·9	...	1·3	...	2·9	...	4·3	...	4·9	...	4·9	9·7	23	25
30	...	3·4	...	5·2	...	3·3	...	3·3	...	3·1	...	4·7	...	4·2	...	4·2	9·7	2	55
S+N & W+E	32·5		67·7		72·2		75·1		80·1		89·2		52·6		62·8				
S−N & W−E	−8·1		45·1		−29·0		48·9		−30·7		30·2		−7·2		19·2				

* No record.

9. Soundings with Pilot Balloons.

Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind. Geostrophic. From N.	m/s.	By Anemometer. From N.	m/s.	At Heights above M.S.L. 500 m. From N.	m/s.	1000 m. From N.	m/s.	2000 m. From N.	m/s.	3000 m. From N.	m/s.	4000 m. From N.	m/s.	5000 m. From N.	m/s.	Cloud Observations. Type.	From N.	mr/s.
		h. m.	°		°		°		°		°		°		°		°			°	
1	S. Farnboro' .	7 0	...	0	295	light	355	3·0	85	1·5	220	1·0	100	1·5	225	1·0	235	4·5	...	...	...
1	Eskdalemuir .	7 50	250	9	270	5·0	260	4·9	260	6·5	305	3·5	...	...	...	...	...	...	Ci.–St.	260	2·3
1	Benson . .	11 40	...	0	10	2·0	25	5·5	40	6·0	80	2·0	170	1·7	..	...	...	...	...	...	...
3	S. Farnboro' .	11 25	...	...	315	light	320	1·5	190	4·5	195	6·0	220	6·0	...	...	...	...	...	...	...
3	Benson . .	12 40	...	...	...	0·0	305	1·2	230	2·3	205	6·0	...	...	...	...	...	...	...	...	...
5	S. Farnboro' .	6 55	360	7	325	light	15	9·5	355	5·5	325	5·5	30	5·5	...	...	...	...	...	...	...
5	Eskdalemuir .	7 25	10	9	15	4·5	360	6·5	5	11·0	5	4·3	...	...	...	...	...	...	...	...	...
7	S. Farnboro' .	18 15	360	4	10	light	355	6·0	345	9·5	275	5·0	...	...	...	...	...	...	Ci.	200	...
8	,,	7 15	...	0	295	light	20	5·5	360	9·0	350	5·0	...	...	...	...	...	...	...	...	...
10	Benson . .	12 25	300	7	240	2·0	295	3·3	315	8·5	350	7·5	...	...	...	...	...	...	...	...	...
25	S. Kensington	11 40	210	6	...	...	215	6·0	215	8·0	190	10·0	210	8·5	...	...	...	...	...	...	...
26	Eskdalemuir .	7 35	160	15	360	2·2	...	...	175	7·0	200	8·5	200	6·0	...	...	...	...	Ci.	220	3·1
27	S. Farnboro' .	7 15	...	0	270	light	360	2·5	285	3·0	220	3·5	350	7·0	...	...	...	...	...	...	...
27	Benson . .	12 20	350	8	290	1·0	270	3·0	220	1·5	225	3·5	205	7·0	200	9·5	...	...	...	...	...
27	S. Farnboro' .	17 0	360	7	280	light	290	4·0	295	5·0	190	2·5	...	...	...	...	...	...	...	...	...
28	,,	7 15	60	8	...	0·0	80	4·5	70	4·5	60	4·0	...	...	...	...	...	...	Ci.–Cu.	135	...
28	,,	17 35	90	10	80	4·0	70	13·5	75	11·0	75	11·0	...	...	...	...	...	...	Ci.	110	...

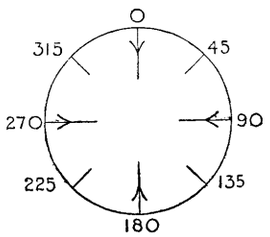
				6000 m.		7000 m.		8000 m.		9000 m.		10,000 m.		
1	S. Farnboro' .	7 0	(For observations up to 5000 m. see above)	275	6·5	305	1·5	235	1·0	60	2·5	...	...	

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Benson . . .	57 m.	25 m.
Eskdalemuir . .	242 m.	15 m.
S. Farnborough . .	70 m.	31 m.
S. Kensington . .	10 m.	...

Notes on Pressure Distribution, etc.

April 1 7 h. Anticyclone extending over England and Germany. Depression between Iceland and Azores.
3 7 h. Depression over Iceland. Uniform pressure over England.
5 7 h. Anticyclone over Atlantic. Depression over Baltic.
7 18 h. Col over British Isles. Anticyclones over Azores and Baltic.
8 7 h. Anticyclone over Azores extending to England.
10 7 h. Anticyclone over Azores extending to England.
25 7 h. Depression off S.W. of Ireland. Anticyclone over Russia.
26 7 h. Shallow depression W. of Ireland.
27 7 h. and 18 h. Uniform rather high pressure over England.
28 7 h. Anticyclone over British Isles.
,, 18 h. Depression spreading over England from S.



Wind Protractor.

10. Nephoscope Observations.

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity–height–ratio. Degrees from N.	Milliradians per Second.	Components. W.-E.	S.-N.	Remarks.
		°	mr/s.	mr/s.	mr/s.	
1	Ci.-Cu. to A.-Cu.	282	3·6	+3·5	−0·7	Ci.-Cu. changing to A.-Cu.
4	Cu.-Nb.	300	2·5	+2·2	−1·3	Central part of cloud-mass measured.
5	Cu.-Nb.	340	7·4	+2·6	−6·9	Main cloud-mass measured. *Observation at 12 h.*
6	St.-Cu.	238	6·2	+5·3	+3·3	Heavy type, transitional from Cu.
8	Ci.-Cu.	253	4·0	+3·8	+1·2	
10	A.-Cu.	282	8·3	+8·1	−1·7	False Ci. massing into A.-Cu.
11	Cu.	290	10·0	+9·4	−3·4	
12	Cu.-Nb.	267	6·0	+6·0	+0·3	Cu.-Nb. of "thunder" type.
13	Cu.-Nb.	289	7·0	+6·6	−2·3	Cu.-Nb. of "shower" type; "rain screen" measured.
14	Cu.-Nb.	291	6·9	+6·4	−2·5	Base measured.
15	Cu.	322	10·0	+6·2	−7·9	Average velocity; varying in places.
22	St.-Cu.	237	1·4	+1·2	+0·8	St.-Cu. from upper portions of Cu.-Nb.
28	Cu.	320	2·8	+2·1	−1·8	St. below from N.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 5. MAY 1916.] Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Time.	11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	11·3	76	1749	50	70	13 5	59	10·9	74	...	...	...	4·3	28	12 21	Hazy	1·30	79	12·3	83
2	0·0	0	7	7	*n* 20	14 40	6	0·0	0	...	...	...	2·4	16	12 16	Hazy	1·29	74	9·6	64
3	0·3	2	653	18	53	12 40	39	0·4	3	...	...	...	5·7	37	...	...	...	...	12·5	84
4	2·0	13	1147	32	70	12 15	70	1·4	9	...	...	...	5·2	34	...	...	...	...	7·3	49
5	0·7	5	1255	35	64	11 10	47	1·1	73	...	...	...	0·0	0	...	...	...	...	0·5	3
6	1·2	8	925	26	64	11 42	25	0·6	4	...	...	...	0·0	0	...	...	...	...	0·0	0
7	2·5	17	868	24	63	15 10	21	3·8	25	...	...	...	0·0	0	...	...	...	...	8·5	56
8	0·0	0	515	14	28	10 25	15	0·1	1	...	...	...	0·4	3	...	...	...	...	3·6	24
9	0·0	0	483	13	28	9 5	18	0·0	0	...	...	...	0·0	0	...	...	...	...	10·0	66
10	8·0	53	1652	45	87	11 20	86	8·5	56	...	...	...	11·7	74	12 12	Ci.	1·24	90	0·8	5
11	0·1	1	717	19	44	15 0	12	0·1	1	...	...	...	0·3	2	...	...	...	...	0·0	0
12	0·7	5	784	21	71	12 50	55	0·5	3	...	...	...	0·0	0	...	...	...	...	10·1	66
13	0·1	1	448	12	41	9 40	32	0·0	0	...	..	...	0·9	6	...	...	...	...	0·6	4
14	3·2	21	1171	31	69	8 45	57	3·1	20	...	...	...	0·0	0	...	...	...	...	0·0	0
15	6·0	39	1280	34	82	13 25	27	7·1	46	...	...	...	8·0	50	...	...	...	...	5·5	35
16	1·8	12	972	26	57	9 25	29	1·2	8	...	...	...	7·2	45	...	...	...	...	0·7	4
17	10·6	68	1906	50	68	12 20	68	10·1	65	...	...	...	0·0	0	...	...	...	...	11·8	75
18	13·0	83	1788	47	55	11 30	55	11·4	73	...	...	...	12·7	78	12 10	Clear	1·23	85	11·2	71
19	11·5	73	2016	52	69	12 35	67	12·5	80	65	55	Clear	*x* 13·2	81	12 20	Hazy	1·23	72	11·3	72
20	*x* 13·7	87	*x* 2439	63	78	11 50	78	*x* 14·0	89	80	68	Clear	10·4	63	...	...	...	...	11·2	71
21	13·4	85	2398	62	78	12 10	78	13·0	82	...	...	...	5·6	34	...	...	...	...	0·7	4
22	2·2	14	1081	28	60	8 50	57	2·2	14	...	...	...	8·4	51	...	...	...	...	6·6	42
23	6·0	38	1587	41	72	11 50	72	6·8	43	...	...	...	1·0	6	...	...	...	...	0·0	0
24	8·4	53	1991	51	81	13 5	73	8·7	55	...	...	...	2·5	15	...	...	...	...	9·2	58
25	6·3	39	1532	39	*x* 90	12 10	90	7·4	46	...	...	...	0·4	2	...	...	...	...	12·8	80
26	10·8	68	2083	53	*x* 90	12 10	90	10·9	68	80	69	Ci.	10·8	65	...	...	...	...	12·4	77
27	7·6	47	1430	36	71	14 10	57	9·3	58	57	49	Ci.	10·6	63	...	...	...	...	14·1	88
28	12·6	78	2106	53	*x* 90	11 50	90	12·4	77	...	...	...	12·4	74	...	...	...	...	*x* 15·5	96
29	12·1	75	2325	58	*x* 90	12 5	90	12·4	77	76	66	Clear	9·6	57	...	...	...	...	12·8	79
30	2·3	14	1094	27	71	14 40	27	5·7	35	...	...	...	8·5	50	...	...	...	...	5·0	3
31	9·7	60	2010	50	77	11 50	77	10·3	64	53	46	Ci.	0·0	0	...	...	...	...	0·0	0
Means	5·74	37	1376	36	66	—	54	6·00	39	—	—	—	4·90	31	—	—	—	—	7·00	45
Normal	6·13	40	—	—	—	—	—	6·48	42	—	—	—	5·23	33	—	—	—	—	6·55	42
	←5 years→							←35 years→					←5 years→						←35 years→	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Declination West.	Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	1011·6	1011·2	88·3	86·0	91	82	10·7	11·0	62	74	6	5	—	1	3☁	1☁	—	Fine. ☁. Fine sunset.	...	...	...
2	1011·2	1009·8	86·0	82·9	87	79	11·6	10·8	78	89	—	1	29	5	4☁	8☁	—	Fine. ☂ 15 h. Fine sunset.	...	...	...
3	1008·1	1006·7	82·6	80·5	84	80	7·8	8·6	66	83	1	7	—	1	7	2	—	Fine. v.	...	...	...
4	1003·9	1000·7	81·2	81·8	83	*n* 77	7·2	8·5	67	75	2	6	31	8	6	9	—	☽ *a.* Fine to c. Fine sunset.	...	...	...
5	998·9	995·1	80·7	79·5	83	79	7·9	8·2	75	85	1	9	2	11	10	10●⁰	10·2	Fair to c. ●⁰ 21 h.–23 h.	...	...	...
6	993·7	997·4	78·7	78·7	*n* 80	78	8·0	8·0	87	87	1	11	1	9	10●	10●	9·4	o. and g., with ●.	...	...	...
7	1002·2	1008·7	80·2	79·2	82	78	7·1	5·9	70	62	32	11	30	10	7	4	0·2	● *n.* Fine. ▲● in evening.	...	...	...
8	1007·8	1003·3	81·9	81·1	84	78	7·9	8·3	69	77	14	2	5	5	8	9	0·6	c. to dull. ● showers *p.*	17865	19 52·7	68 8·2
9	1008·5	1013·6	81·2	80·6	84	78	8·1	8·0	75	77	29	7	25	3	8	4	—	Fine all day. v.	...	...	...
10	1011·8	1010·6	81·6	82·2	84	*n* 77	8·7	11·0	78	95	13	6	18	2	10	6	6·3	Dull and d. *a.* Fine evening.	...	...	...
11	1008·6	1007·5	84·3	83·6	85	82	12·6	12·3	95	97	15	5	15	5	10≡⁰●⁰	10	6·2	● *n.* ≡⁰ and ● at times.	...	...	...
12	1010·5	1014·6	81·5	81·7	85	80	9·4	9·2	85	82	28	4	23	2	4	10	2·7	● *n.* Fine during day. ☁ *n.*	...	...	...
13	1012·2	1014·9	83·6	82·7	85	81	12·2	11·0	96	92	23	5	20	4	10	10●	3·3	● early. ≡⁰ *a.* Fair *p.* ● *n.*	...	...	...
14	1010·3	1007·3	84·2	84·7	86	82	13·1	13·2	99	97	19	5	20	8	10≡⁰	10≡⁰●	0·6	● *n.* ≡⁰ all day.	...	...	...
15	1012·9	1012·5	84·1	84·5	88	82	10·9	10·5	83	78	25	4	13	6	8	10●⁰	6·3	Fine early to c. ●≡⁰ *n.*	...	...	...
16	1016·0	1018·6	83·6	84·6	87	83	11·5	13·1	91	97	26	3	15	5	10	10≡⁰	0·6	Fair to c. d. from 20 h.	...	...	...
17	1022·1	1024·4	87·2	84·6	89	83	13·8	12·3	86	91	15	5	15	2	9	0	—	≡⁰ *n.* Fine.	...	...	...
18	1024·4	1024·4	91·6	89·7	94	83	13·4	12·5	63	66	12	6	9	4	3	7	—	☽ *a.* Fine.	...	...	...
19	1021·9	1018·1	93·7	87·5	*x* 96	*x* 86	13·6	14·0	*n* 56	85	8	6	14	8	2☁	7☁	1·7	Fine. ≡⁰●⁰ *n.*	...	...	...
20	1021·3	1022·0	89·1	83·9	90	83	15·2	12·3	84	95	14	3	15	2	7	9≡⁰	0·4	● showers early. Fine. ≡⁰ *n.*	...	...	...
21	1016·1	1018·8	87·1	83·3	89	82	13·1	11·5	82	93	14	7	—	1	10	1	12·1	● early and 13 h.–19 h. Dull.	...	...	...
22	1024·4	1022·9	86·6	84·9	89	81	12·8	11·9	83	86	22	7	16	4	4	10	12·1	Fine early, then c. to o.	...	...	...
23	1014·7	1005·6	84·8	84·7	87	84	13·0	13·2	95	97	16	7	15	8	10●	10	*x* 16·7	Dull, with ≡⁰●.	...	...	...
24	1004·6	1005·2	84·0	82·6	87	81	11·7	9·8	90	82	19	3	24	2	10	4	0·3	● showers 7 h.–9 h. Fine.	17860	19 55·6	68 5·6
25	1005·1	1006·7	84·6	82·6	86	80	9·9	9·5	73	80	25	4	24	2	6	3	1·4	●⁰ showers *a.* Mostly fine.	...	...	...
26	1008·2	1009·4	86·6	82·1	88	79	11·1	10·0	72	87	18	3	—	1	6	6	—	●⁰ early. Fine all day. Fine sunset.	...	...	...
27	1009·5	1010·7	86·4	83·4	88	80	11·2	9·6	73	77	6	2	—	1	7	2	—	Fine all day.	...	...	...
28	1011·7	1014·7	86·4	83·0	87	78	10·9	9·5	71	78	26	2	28	3	4	2	—	Very fine all day. v.	...	...	...
29	1018·0	1020·6	84·4	83·3	87	79	9·3	9·7	70	78	29	3	27	2	7	7	0·3	Fine.	...	...	...
30	1021·1	1020·8	85·2	84·3	88	81	11·0	11·3	78	85	21	3	20	3	8	10	1·2	●⁰ showers early. Fine to o.	...	...	...
31	1017·4	1013·3	85·9	85·5	87	84	13·3	13·1	90	91	17	6	16	7	10	10	7·3	Dull and o. ●² showers 22 h.–24 h.	...	...	...
Means	1011·9	1011·9	84·8	83·2	86·6	80·5	10·9	10·6	79	84		5·1		4·4	7·4	6·8	99·9	Monthly **Totals** or **Means.**	17863	19 54·2	68 6·9
Normal	1013·9	1014·3	84·8	83·8	87·5	81·0	11·0	10·9	79	84		5·0		4·3	—	—	79·3	**Normals.**			
	←45 years→						←30 years→				←35 years→						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—11/17.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.	a. 200+	a. 200+	a. 200+	cm.	cm.
1	1011·9	1012·2	86·0	84·9	92	81	10·7	9·0	72	65	3	5	4	6	1	3≤	x10·6	80	84·8	81·9	311	311
2	1011·9	1008·7	82·3	82·9	83	81	9·4	10·8	81	89	5	6	—	1	10	10≡0 ●0	5·1	80	84·8	82·0	309	—
3	1007·1	1006·3	83·2	83·3	87	81	10·6	11·3	86	91	26	2	—	1	10	0≡0 p	—	81	84·1	82·2	308	—
4	1002·4	997·5	85·3	88·1	94	80	11·2	13·9	79	82	6	6	—	0	10≡0 ●0	10	—	76	84·1	82·4	307	—
5	994·8	991·9	87·7	83·3	94	82	13·1	11·4	79	92	3	4	2	4	10	10	2·6	80	85·0	82·5	307	—
6	993·7	998·1	86·5	84·6	90	83	12·8	10·8	83	80	16	4	16	5	10●	10	0·6	82	85·5	82·5	305	—
7	1000·0	998·5	85·3	81·5	88	81	10·5	9·2	74	83	16	7	16	4	10	1	3·1	79	85·0	82·7	303	—
8	1002·0	1010·2	80·2	80·6	n 82	78	7·7	7·0	76	68	20	6	21	4	10	1	5·6	78	84·3	82·7	301	—
9	1005·3	1008·1	83·1	79·5	86	n 76	11·1	8·0	90	83	14	4	27	3	10●0	10	4·4	n 70	83·0	82·8	298	—
10	1015·3	1017·4	82·1	82·4	86	77	7·3	8·8	63	75	24	3	23	2	1	8	—	73	82·9	82·9	294	—
11	1017·6	1016·2	83·8	85·0	87	79	10·3	12·1	80	87	18	4	17	2	10	10	—	72	83·5	82·9	293	—
12	1014·9	1011·4	87·3	85·7	90	x 84	12·7	12·4	79	85	—	1	18	2	10	9	7·0	82	84·0	82·9	291	—
13	1009·4	1011·3	85·4	84·0	86	82	11·1	9·5	78	73	27	2	28	2	10	10●0	—	83	84·9	82·8	289	—
14	1012·0	1008·8	84·9	84·3	87	79	9·5	11·8	69	89	25	3	20	4	9	10●0	2·0	76	84·3	83·0	286	—
15	1004·4	1014·4	87·7	84·8	91	82	13·0	10·1	78	73	24	5	28	2	10	0	—	83	84·9	83·0	284	—
16	1018·7	1020·8	86·8	85·6	89	79	11·6	12·9	74	89	—	1	19	2	8	1	0·1	73	85·0	83·0	283	—
17	1025·4	1026·2	86·0	86·9	94	83	11·7	13·1	79	83	—	1	—	0	5	0≡0 p	—	78	85·0	83·2	282	—
18	1028·7	1029·6	89·6	89·5	97	81	14·4	13·2	77	71	—	0	8	4	?0 p 8	0≡0	—	78	86·4	83·2	281	—
19	1030·2	1027·4	91·2	88·2	96	83	14·1	13·0	68	76	9	4	6	3	5 p 8	0≡0	—	79	82·0	83·3	280	—
20	1026·0	1023·5	91·9	90·3	97	83	14·5	13·1	67	67	15	4	17	2	1	1	—	78	87·6	83·5	279	—
21	1022·3	1019·7	94·1	91·0	x 99	83	14·6	14·3	59	70	17	4	17	2	1	7	—	78	88·0	83·8	279	—
22	1018·7	1021·9	91·9	86·0	92	82	14·7	8·8	68	59	24	2	30	3	9	1	0·1	80	88·6	83·9	277	—
23	1020·8	1016·7	87·9	85·2	93	82	10·7	11·3	64	80	26	2	—	1	7	1	—	76	87·7	84·2	276	—
24	1010·9	1005·2	89·6	90·0	94	81	10·8	13·4	58	70	13	3	11	2	10	3	1·0	76	87·7	84·3	275	—
25	1001·2	1007·4	87·2	86·3	92	x 84	14·9	10·3	93	68	10	2	19	3	10●0	10	—	83	88·1	84·5	274	—
26	1012·3	1012·5	85·8	85·2	92	81	8·5	9·2	58	65	23	3	19	2	4	1	—	75	87·7	84·7	271	—
27	1011·1	1010·1	87·1	86·6	93	78	9·9	9·9	62	64	—	1	—	1	6	7	—	73	87·5	84·7	269	—
28	1011·0	1012·9	87·8	87·0	93	80	10·9	10·3	65	65	17	2	18	2	1	1	—	74	87·6	84·9	267	—
29	1015·2	1015·3	89·1	89·1	94	80	9·6	10·7	n 53	59	18	2	—	1	6	1	—	74	87·5	84·9	265	—
30	1016·2	1018·9	87·2	85·7	91	83	12·1	12·6	75	86	—	1	—	0	7≡0	10	—	78	88·0	85·0	263	—
31	1020·8	1021·1	87·5	87·7	93	81	11·7	11·3	71	68	26	2	—	1	2	3	—	77	87·6	85·1	262	261
Means	1012·6	1012·9	86·8	85·7	91·1	80·9	11·5	11·1	73	76		3·1		2·3	6·9	4·8	42·2	77·6	85·7	83·4	286	—
Normal	1015·0	1015·0	85·0	84·2	89·3	80·1	10·1	10·3	71	75		4·2		2·9	—	—	43·8	—	85·1	83·0	—	—
	45 years						30 years				35 years						45 years		12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

1	991·0	991·6	79·4	76·5	84	75	7·4	6·8	78	86	6	10	4	3	9	2	—	
2	989·2	982·3	79·8	80·9	85	75	7·2	9·2	73	87	6	4	—	0	9	10●0	1·7	
3	976·0	976·8	79·3	75·8	84	n 71	8·8	5·8	93	78	18	7	20	2	10≡0	0	1·0	
4	977·0	976·6	80·3	78·2	85	72	6·9	7·7	68	88	20	5	6	3	7	10●	3·5	
5	976·0	972·4	76·5	76·0	n 77	76	7·0	7·5	89	99	4	11	3	13	10●0	10●	20·3	
6	967·7	970·3	76·7	75·9	n 77	75	7·1	6·6	89	88	3	14	3	8	10●0	10	13·1	
7	970·3	970·5	75·8	76·5	n 77	74	6·9	7·3	93	93	3	9	2	6	10●	10	19·8	
8	970·3	977·3	76·0	78·0	81	74	7·1	7·5	94	86	1	3	—	1	10●0	9	7·8	
9	978·9	980·9	77·1	77·0	80	76	6·9	7·2	84	89	4	7	—	0	10●0	10●0	6·7	
10	984·0	987·0	80·3	74·8	84	n 71	6·6	5·9	65	86	25	5	—	0	2	0Ψ	—	
11	987·1	986·2	80·4	81·5	85	72	7·0	10·0	68	90	15	2	—	0	10	10∞	0·7	
12	985·0	983·0	84·3	81·6	86	81	10·4	10·6	78	96	15	3	—	0	10	10●	2·6	
13	982·0	983·0	82·4	79·6	85	76	10·7	7·6	91	78	—	1	—	1	10●0	7	1·2	
14	979·0	972·8	79·9	82·4	83	75	8·6	10·9	87	93	18	7	23	6	10●0	10	13·1	
15	973·7	982·4	82·9	80·3	86	79	9·3	7·9	77	77	26	8	25	8	8	3	—	
16	985·2	990·8	81·8	80·3	88	76	9·8	7·4	87	72	18	5	—	1	10	1	1·1	
17	995·2	997·2	81·6	82·5	83	76	10·6	11·8	96	100	15	2	14	2	10≡0 ●0	10≡	4·6	
18	1000·5	1001·9	89·0	84·9	94	x 82	14·6	11·6	81	84	24	2	—	0	3	1	—	
19	1000·9	998·0	92·2	86·4	x 96	x 82	15·0	12·3	68	81	15	3	—	1	0∞	1∞	—	
20	994·1	994·4	91·4	83·6	94	x 82	13·0	10·9	62	86	18	6	29	4	6∞	3	—	
21	993·1	989·6	90·5	86·7	94	81	12·9	14·3	65	92	14	3	18	2	6	10 p0	5·9	
22	989·9	991·8	84·7	79·8	88	77	10·6	7·6	78	77	26	7	—	0	7	10	—	
23	988·9	985·9	83·7	81·6	86	75	10·0	10·6	78	96	18	7	17	8	10	10	—	
24	981·8	980·5	84·5	83·0	89	79	8·8	9·9	65	81	16	7	—	2	9	10●0⊕	0·8	
25	977·6	975·6	84·4	81·7	86	80	11·0	10·1	82	90	6	8	18	5	10	10	4·0	
26	981·5	984·4	83·1	77·8	87	73	9·2	7·0	75	82	19	7	—	1	8	0 p T	—	
27	984·4	983·0	86·1	82·0	90	72	8·3	10·2	55	89	—	2	—	1	1	10T	3·3	
28	982·8	984·7	85·8	82·0	90	76	10·1	8·3	69	73	17	2	—	0	7∞	2	—	
29	987·9	990·5	87·4	82·0	88	73	8·6	8·8	n 53	77	—	1	—	1	1	2	0·4	
30	990·6	990·4	86·3	78·8	88	75	8·1	7·5	n 53	82	23	2	27	2	2	2	0·9	
31	988·8	982·8	82·8	83·0	85	76	8·7	11·8	72	97	19	6	20	14	10	10	x 29·0	
Means	984·2	984·3	82·8	80·4	85·9	75·9	9·3	9·0	76	86		5·4		3·1	7·6	6·5	141·5	—
Normal 1911-15	987·4	987·6	82·5	80·4	86·2	76·6	9·3	8·9	78	85		5·5		3·5	—	—	69·5	—

No record.

REMARKS.

o. to c. Fair evening.
Fair to fine a. o. and ●0 p.
Dull and d. a. Fine p.
Fine to fair. ● from 20 h.
o., with ●.
● till 7 h. ⸝ 5 h.–7 h. ✲● p.
o., with ● a. o., d. p.
✲2 ●2 (sleet) till 8 h. o. to fair p.
o., with ●.
Mostly fine. ▲ showers 15 h. ⊕ 20 h.
Dull. ⊕ 16 h.
≡0 a. o. d.
o. and d. to fair.
o. d. Thick mist 14 h.
●2 1 h. Bright intervals. ●0 14 h.
Dull to ● a. Fine p.
d. ≡0 a. ≡2 12 h.–16 h.
Very fine.
Very fine and warm.
p a. Fine. ⊕ 13 h. and 20 h.
Fine a. d. from 15 h.
≡ 1 h. c. to o. a. Fine to c. p.
o. Dull evening.
o. a. Fair p. ● n.
c. to o. ● from 15 h.
Dull to fair a. Fine p. v.
v. a. Fine to c. T● shower 18 h.
Fine.
⌙p2 early. v. a. Fine to showery p.
⌙ early. Fine to c. ● showers p.
o., with ●.

Monthly **Totals** or **Means.**

Normals.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 28 days; they are computed from the data for those days on which values at each of the four hours, 3^h, 9^h, 15^h, 21^h, are given in the table. A similar note applies to the values in Table 6.
† The insulation was less satisfactory than usual.
x denotes the maximum and n the minimum value in the column.
z Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre.† Factor 1·89.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
		3 h.	9 h.	15 h.	21 h.	+.	−.	About 15 h.			Mean Time.		Mean Time.		Mean Time.	
		v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².			h m	γ	h m	° ′	h m	° ′
1	≡⁰ till 8 h. Fine. Distant ⌐ 21 h.	295	520	465	160	...	...	1·70	1	0	...	...	...	...	...	...
2	Dull, with ≡⁰ ●.	z±	435	30	...	...	...	...	2	1	...	...	...	...	...	...
3	●⁰ 4 h.–6 h. ≡⁰ early. Dull.	...	...	115	190	...	...	0·60	0	1	...	...	...	...	...	...
4	≡⁰ till 14 h. Dull to fair.	85	320	245	255	...	...	0·40	1	0	11 12	18418	14 17	15 17·5	15 0	66 56·1
5	≡⁰ till 8 h. Dull, with ● showers.	320	380	340	245	...	...	0·60	1	1	...	...	...	...	...	..
6	● showers. Unusual v. 14 h.–18 h.	65	105	125	65	...	...	...	1	1	...	...	...	...	...	...
7	Fine from 15 h. ● n.	40	115	190	235	...	...	...	1	1	...	...	...	...	...	...
8	● till 15 h. Dull. Fine n.	55	0	−490	200	...	...	...	2	1	...	...	...	..	...	...
9	Dull and o., with ●.	320	115	295	235	...	...	0·45	1	1	...	...	...	...	...	...
10	Fine a. Fair to fine p.	140	200	170	275	...	...	0·60	0	0	...	...	...	...	...	...
11	Dull to fair.	295	180	235	275	...	...	1·15	0	1	11 19	18433	14 16	15 15·8	15 0	66 57·8
12	Mostly dull. ● 16 h. and 23 h.	160	235	140	370	...	...	...	0	1	...	...	...	...	...	...
13	Dull all day.	−40	210	140	245	...	...	...	2	0	...	...	...	...	...	...
14	Fair to fine till 12 h., then dull.	255	190	140	140	...	...	...	1	0	...	...	...	...	...	...
15	● early. Fair to fine from 8 h.	105	210	170	350	...	...	...	1	0	...	...	...	...	...	...
16	Fine early. c. from 10 h. Fine n.	330	360	255	330	...	...	0·75	1	1	...	...	...	...	...	...
17	Fine from 9 h. ≡ n.	255	255	225	160	...	...	0·85	0	1	...	...	...	...	...	...
18	≡² till 7 h. Fine throughout.	245	550	415	425	...	...	0·55	1	0	11 18	18453	14 23	15 16·2	14 38	66 55·6
19	≡⁰ early. Very fine throughout.	150	285	425	490	...	...	0·80	0	1	...	...	...	...	...	...
20	Very fine. ⊕ 13 h.–15 h. v. p.	340	255	225	455	...	...	...	0	0	...	...	...	...	...	...
21	Very fine throughout.	340	255	105	170	...	...	...	0	2	...	...	...	...	...	...
22	Dull 9 h.–16 h., then fine.	160	245	...	305	...	...	...	0	2	...	...	...	...	...	...
23	⊕ 7 h. and 13 h.–15 h. Fine.	170	285	105	105	...	...	0·85	0	1	...	...	...	...	...	...
24	⊕ 7 h.–11 h. Fine.	190	225	125	340	...	...	1·00	0	1	...	...	...	...	...	...
25	Dull till 10 h., then fine. v. p.	245	75	125	150	...	..	0·70	1	1	11 15	18445	14 14	15 18·0	14 46	66 56·5
26	Mostly fine.	170	235	105	105	...	...	0·65	0	0	...	...	...	...	...	...
27	Fine. Distant T 13 h.	170	330	140	105	...	...	...	0	0	...	...	...	...	...	...
28	Very fine all day. v. p.	160	275	85	125	...	...	...	0	0	...	...	...	...	...	...
29	Fine throughout. v. p.	125	295	95	105	...	...	0·60	0	1	...	...	...	...	...	...
30	o. till 8 h. and 12 h.–14 h. T 13 h.	125	255	−75	65	...	...	...	1	2	...	...	...	...	...	...
31	≡² 6 h.–7 h. Fine. ⊕ 12 h.	200	190	95	170	...	...	0·35	0	1	...	...	...	...	...	...
M.		190*	247*	165*	227*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre. Factor 5·61.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
					+.	−.				Maximum. 15000 γ +.		Minimum. 15000 γ +.		Maximum. 4000 γ +.		Minimum. 4000 γ +.		Maximum. 45000 γ +.		Minimum. 45000 γ +.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².														
1	448	76	144	160	...	...	...	0 a	1	22 14	1040	918	12 22	12 8	1075	982	8 40	{21 15 / 21 32}	158	133	9 54
2	76	99	144	z	...	...	...	1 b	1	18 24	1075	944	10 30	14 43	1092	991	{3 29 / 6 57}	18 58	157	109	1 47
3	220	99	76	160	·58	·40	...	1 b	1	23 54	1031	924	8 57	4 13	1066	970	8 22	15 27	158	124	4 36
4	160	304	114	−836	·75	·75	...	2 b	0	18 49	1022	940	9 16	14 18	1072	986	8 2	{5 9 / 17 16}	149	130	11 27
5	−562	−23	−258	−114	...	...	...	2 b	1	16 47	1068	945	10 3	14 5	1109	977	8 32	17 25	177	129	12 23
6	106	114	z	46	...	...	...	2 c	1	17 50	1025	904	10 38	13 18	1097	1013	9 32	17 0	156	114	7 4
7	−350	−1148	38	76	...	...	...	2 c	1	20 20	1042	954	11 55	17 19	1061	996	7 54	18 3	174	123	24 0
8	z	76	84	114	·40	·17	...	2 c	1	19 18	1036	948	12 59	0 8	1056	981	2 18	18 10	155	106	0 27
9	z	61	61	−1626	...	...	...	2 c	0	19 44	1027	962	13 55	1 10	1058	1000	1 35	19 35	139	96	4 30
10	−68	160	91	388	...	...	...	1 a	1	19 6	1046	955	11 21	13 34	1053	991	7 37	17 46	141	116	11 34
11	160	76	167	152	...	...	...	0 a	1	18 10	1047	927	10 39	15 35	1077	975	3 5	18 59	152	86	2 35
12	471	152	327	−372	...	...	...	1 b	1	22 47	1034	950	9 49	14 48	1060	984	6 10	17 22	141	84	1 59
13	61	84	167	304	·29	·46	...	1 a	0	20 35	1024	960	{12 2 / 12 6}	13 40	1058	994	22 11	21 34	137	115	13 0
14	243	−167	213	160	...	...	...	2 b	0	18 40	1025	960	10 31	12 32	1072	995	6 50	20 20	131	100	11 27
15	−464	144	114	228	...	...	...	1 b	0	18 38	1032	947	12 2	{13 52 / 14 3}	1064	986	8 1	19 20	136	112	11 57
16	129	152	129	388	...	...	...	1 b	1	19 26	1061	934	10 59	16 7	1058	985	6 28	19 15	133	102	11 16
17	114	99	327	486	...	...	...	1 a	1	18 41	1033	950	10 32	13 10	1066	989	{6 47 / 7 35}	17 56	134	103	11 25
18	456	190	...	372	·52	·23	...	0 a	0	17 47	1023	960	12 9	13 23	1071	1001	6 58	18 0	129	103	11 34
19	144	190	99	243	·40	·35	...	0 a	1	21 23	1061	961	9 48	14 10	1058	986	21 10	19 36	126	91	11 43
20	160	296	160	365	0	·23	...	0 a	0	23 8	1032	957	11 31	23 8	1053	1002	8 54	4 52	115	87	12 8
21	182	144	76	410	...	...	...	1 a	2	18 0	1117	928	23 37	18 23	1051	990	8 5	18 36	x 211	52	24 0
22	281	190	144	388	...	...	...	0 a	2	17 42	1068	n 897	11 45	16 57	1071	n 862	1 43	17 50	172	n 6	2 22
23	84	129	152	76	...	...	...	0 a	2	18 26	1067	921	5 17	14 51	1069	969	0 0	17 43	137	51	4 16
24	76	175	68	−91	·35	·29	...	1 a	1	17 17	1117	921	8 53	14 4	1070	978	7 25	17 7	147	60	4 22
25	190	129	z	167	...	...	...	1 b	1	18 35	1069	941	11 34	14 20	1076	990	5 38	18 30	135	80	1 50
26	152	190	122	228	·46	·46	...	0 a	0	18 7	1035	947	{12 4 / 12 19}	12 48	1061	978	6 20	18 29	132	87	11 31
27	167	152	137	z	·52	·35	...	1 b	0	20 23	1027	946	12 28	12 57	1060	978	7 20	20 46	117	88	11 18
28	−236	220	−76	319	...	...	...	2 c	0	16 55	1050	945	12 29	16 54	1067	990	7 30	19 3	123	94	11 34
29	144	84	144	228	...	...	...	1 a	1	21 3	1054	951	11 22	15 56	1071	980	6 52	18 0	122	95	{2 56 / 11 29}
30	76	68	z	228	...	...	...	1 b	2	14 36	x 1155	925	13 51	14 34	x 1110	984	6 56	15 35	140	78	12 44
31	122	−251	99	190	...	...	...	2 b	2	17 43	1074	916	5 6	17 50	1089	964	7 37	16 39	166	36	4 32
M.	73*	60*	115*	154*	—	—	—	—	—	—	1052	940	—	—	1070	982	—	—	145	93	—

* 23 days. *See* note above.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
3	P	4 54	...	...	...	...	...	Disturbance with no prominent phases except long wave maxima between 5 h. 41 m. and 5 h. 46 m.
	F	6 7	...	...	...	...	...	
7	L	12 3	...	...	...	...	...	
9	Pi	13 57 41	...	...	...	...	...	Small earthquake. S obscure.
	L	14 21	...	...	...	...	...	
	M	14 29	21	11	10	...	...	
	F	15 13	...	...	...	...	...	
10	P e (?)	21 48 30	...	...	...	...	...	Small earthquake. L not prominent.
	S	21 58 20	...	...	...	...	...	
	F	23	...	...	...	...	...	
11	L	10 46	18	9	...	...	...	Small earthquake, with feebly marked initial phases.
	F	11 9	...	...	...	...	...	
13	L	5 55	...	...	...	...	...	Very slight disturbance.
14	P	12 36	...	...	...	...	...	Slight disturbance obscured by wind effects.
	F	12 50	...	...	...	.	...	
15	L	0 38	..	...	...	...	...	Slight disturbance.
	F	1 6	...	...	...	...	...	
17	S (?)	12 56 20	...	...	...	...	...	Initial phases obscured by wind effects and microseisms.
	M	13 0 20	...	43	.	...	...	
17	P	15 13	...	...	...	...	...	Slight disturbance.
	F	15 32	...	...	...	..	...	
20	L	22 57	...	...	...	...	...	Time uncertain, owing to time marking arrangements being under adjustment.
23	L	23 22	...	...	...	...	...	Slight disturbance.

Microseisms of N. Component:—Eskdalemuir.

Day.	0 h. A_N.	0 h. T.	6 h. A_N.	6 h. T.	12 h. A_N.	12 h. T.	18 h. A_N.	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	0·4	5	0·2	4	0·0	...	0·0	...
2	0·0	...	0·0	...	0·0	...	0·0	...
3	0·0	...	0·0	...	0·0	...	0·2	4
4	0·4	5	0·5	5	0·9	5	1·0	5
5	0·9	5	0·8	5	0·8	4·5	0·6	5
6	0·8	5	0·5 ?	5	0·7	5	0·9	5
7	1·2	5	0·9	5	1·0	5	0·9	5
8	*	*	*	*	*	*	0·8	5
9	0·8	4·5	0·6	5	†	†	0·7	4·5
10	0·8	4	0·7	4	0·6	4·5	0·6	4·5
11	0·3	4	0·3	4	0·3	5	0·3	4
12	0·5	5	0·6	4	0·4	5	0·5	5
13	0·4	4·5	0·4	5	0·5	5	0 6	5
14	0·6	5	0·6	4·5	0·6	4·5	0·3	3
15	0·5	5	0·5	5	0·9	5	1·0	5
16	1·5	5	1·7	5	1·4	6	1·0	5
17	0·9	5	1·0	5	0·8	6	0·6	5
18	0·7	4·5	0·7	4·5	0·7	5	0·6	5
19	0·8	5	0·5 ?	5	0·6	5	0·6	5
20	0·9	5	0·9	5	0·9	5	0·8	5
21	0·8	5	0·8	5	0·8	5	0·9	5
22	0·7	5	0·7	5·5	0·8	5	0·7	5
23	0·9	5	0·9	5	0·7	5·5	0·5	5
24	0·7	5	0·4	5	‡	‡	‡	‡
25	0·4	5·5	0·6	5·5	‡	‡	0·5	5
26	‡	‡	‡	‡	‡	‡	‡	‡
27	0·5	5	0·9	4	‡	‡	0·2 ?	5
28	0·2	4	0·2	4	0·1 ?	...	0·1 ?	4
29	0·1	4	0·1	4	0·1	4	0·1 ?	5
30	0·1	3·5	0·0	...	‡	‡	‡	‡
31	‡	‡	‡	‡	‡	‡	‡	‡

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
3	...	5 53	Very small.
7	...	12 13	Succession of very small movements.
9	...	15 32	Small earthquake.
10	...	22 25	Small earthquake.
11	...	10 51	Disturbance confused by changing.
17	12 55·8	12 58·0	Maximum amplitude shown by trace 3·4 mm.
17	...	15 21 ?	Small movements obscured by air tremors.
20	...	22 30	Small movements.

* Trace indistinct. † Instrument being standardised. ‡ No trace.

Note.—The horizontal instruments were under adjustment on 26th May, 10 h.–13 h. and 17 h.–20 h.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	3·8	...	5·7	...	3·8	...	9·1	...	2·6	...	12·9	...	1·9	...	9·3	18·7	16	5
2	...	...	...	11·1	...	2·1	...	10·6	...	...	...	3·6	1·7	...	...	1·1	18·3	5	40
3	2·5	...	2·5	...	4·0	...	1·6	...	...	1·1	0·7	...	0·9	...	2·1	...	9·8	11	30
4	0·6	...	2·9	...	...	2·5	1·7	...	...	7·4	...	4·9	...	4·6	...	6·8	13·0	23	5
5	...	7·8	...	7·8	...	4·4	...	10·6	...	5·3	...	12·8	...	4·4	...	10·6	22·2	23	5
6	...	2·3	...	11·6	...	...	...	10·2	...	1·3	...	6·8	...	0·4	...	2·3	20·1	4	25
7	...	0·6	...	3·2	3·3	...	...	7·9	4·0	...	4·0	...	...	...	...	5·2	19·6	23	55
8	...	11·7	7·8	...	...	6·6	9·8	...	...	3·0	7·3	...	...	0·8	1·8	...	20·5	0	0
9	...	0·4	0·9	...	...	3·6	...	2·4	...	5·5	2·3	...	...	2·5	1·7	...	10·4	10	35
10	...	0·5	1·2	...	...	2·5	1·7	...	4·5	...	1·9	...	3·6	...	1·5	...	10·2	19	0
11	5·9	...	...	...	4·8	...	2·0	...	5·5	...	1·1	...	5·2	...	2·1	...	11·8	2	15
12	6·1	...	1·2	...	6·1	...	...	1·2	5·5	...	1·1	...	...	2·9	4·3	...	12·0	19	20
13	...	5·2	3·4	...	...	3·6	2·4	...	3·7	...	3·7	...	1·4	...	2·2	...	10·9	14	20
14	...	1·5	7·4	...	5·7	...	3·8	...	5·1	...	5·1	...	4·2	...	4·2	...	15·8	12	35
15	2·2	...	11·3	...	...	4·7	7·1	...	...	...	8·2	...	2·7	...	4·1	...	17·9	3	55
16	2·2	...	3·2	...	2·8	...	1·1	...	...	0·3	1·6	...	3·7	...	3·7	...	11·1	6	55
17	5·2	...	2·1	...	8·2	...	3·4	...	5·5	...	3·7	...	5·5	...	2·3	...	14·1	10	0
18	2·1	...	0·9	...	0·6	...	0·3	...	...	1·4	2·2	...	...	0·4	0·6	...	9·3	0	15
19	...	0·9	1·3	...	2·5	...	1·7	...	3·0	...	1·3	...	1·3	...	0·9	...	6·6	13	15
20	1·9	...	1·3	...	6·0	...	4·0	...	4·3	...	1·8	...	3·6	...	2·4	...	12·6	11	40
21	1·1	...	0·7	...	...	0·5	2·6	...	3·0	...	3·0	...	5·7	...	3·8	...	12·5	19	25
22	4·1	...	2·7	...	...	2·9	4·3	...	4·9	...	3·3	...	2·7	...	3·8	...	12·3	6	45
23	2·2	...	3·2	...	6·2	...	4·2	...	7·9	...	3·3	...	5·8	...	1·2	...	15·8	12	50
24	6·8	...	1·3	...	6·6	...	...	...	3·6	...	1·5	...	1·3	...	0·9	...	11·5	5	10
25	...	3·3	...	...	...	1·8	1·8	...	2·3	...	5·5	...	0·8	...	4·2	...	14·0	18	55
26	1·7	...	2·5	...	2·8	...	2·8	...	4·8	...	2·0	...	1·5	...	0·6	...	9·5	14	15
27	1·1	...	0·7	...	2·3	...	...	...	...	1·6	...	...	...	0·6	...	0·8	5·4	8	25
28	...	0·4	...	0·9	...	1·7	1·1	...	...	2·7	1·8	...	...	0·3	1·6	...	7·6	22	5
29	...	0·4	2·0	...	...	...	1·3	...	...	1·1	1·7	...	...	0·2	0·2	...	6·4	6	0
30	...	0·9	0·4	...	...	2·2	1·4	...	...	1·3	0·9	...	2·2	...	3·2	...	7·5	20	15
31	...	...	5·9	...	6·4	...	2·6	...	8·1	...	5·4	...	8·7	...	5·8	...	18·5	23	25
S+N & W+E	85·4		107·1		111·2		114·7		110·3		115·4		81·5		95·3				
S−N & W−E	6·0		26·5		25·4		10·7		41·1		33·4		43·5		23·1				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	...	3·0	3·0	...	...	5·6	...	...	...	1·4	...	3·3	...	0·6	...	1·5	6·2	8
2	2·8	...	...	2·8	5·7	...	...	2·4	6·1	...	...	2·5	0·9	...	2·1	...	7·5	13
3	0·3	...	1·3	...	...	4·3	1·8	...	...	5·2	2·1	...	...	...	3·6	...	6·9	12
4	0·5	...	2·6	...	4·0	...	4·0	...	...	...	9·5	...	...	4·3	2·9	...	9·5	15
5	...	6·5	1·3	...	...	8·0	1·6	...	...	9·2	...	...	...	6·7	...	2·8	9·5	11,12,13,17,18
6	...	6·4	...	2·6	...	8·8	...	3·6	...	14·1	...	...	...	12·4	...	5·1	14·1	15, 17, 18
7	...	7·2	7·2	...	...	2·4	5·7	...	1·6	...	...	1·6	...	1·5	...	0·6	10·8	2
8	...	6·1	...	2·5	...	4·7	...	4·7	5·6	...	5·6	...	...	0·3	1·3	...	8·2	8, 18
9	...	1·1	1·7	...	...	6·4	2·6	...	...	6·8	4·6	...	...	2·6	3·8	.	8·5	14, 16
10	...	1·3	3·0	...	..	2·4	5·7	...	...	2·5	6·1	...	...	0·6	1·5	...	7·2	12
11	0·4	...	0·9	...	...	...	...	3·0	2·3	...	...	5·5	2·3	...	...	5·5	6·6	16, 18
12	4·7	...	...	4·7	5·8	...	...	5·8	4·7	...	...	7·1	5·8	...	...	5·8	10·8	11
13	6·6	...	...	4·4	6·7	...	...	2·8	4·9	...	...	3·3	...	2·1	5·2	...	8·5	12
14	...	...	4·3	...	1·5	...	3·6	..	3·3	...	...	1·4	0·7	...	...	0·7	5·6	8
15	...	1·8	...	0·8	...	6·6	...	...	...	...	4·2	4·2	..	...	1·5	3·6	...	6·9	16, 17, 19
16	...	0·4	2·3	...	3·3	...	1·4	...	...	0·4	...	0·9	...	3·6	1·5	...	4·9	19. 20
17	...	1·4	3·3	...	...	4·2	4·2	...	...	0·6	...	3·2	3·7	...	...	3·7	6·9	8
18	5·6	...	...	5·6	4·0	...	...	6·0	2·4	...	...	5·7	2·5	...	...	2·5	7·9	3
19	3·0	...	...	3·0	5·7	..	...	2·4	7·1	...	...	4·7	6·0	...	...	6·0	9·5	22, 23
20	7·4	...	...	4·9	6·9	...	...	2·9	...	...	3·3	...	...	...	9·5	...	10·8	6
21	...	...	8·5	...	...	1·1	2·8	...	...	...	...	4·6	4·2	...	...	6·2	8·9	23
22	5·1	...	...	5·1	...	2·1	5·2	...	...	1·6	8·0	...	1·8	...	0·8	...	8·5	14
23	2·5	...	1·7	...	5·5	...	...	2·3	4·5	...	...	1·9	2·5	...	...	1·7	8·2	12
24	2·3	...	...	0·4	5·7	...	...	3·8	7·3	...	...	3·0	5·5	...	...	3·7	8·9	13
25	5·8	...	...	5·8	4·6	...	...	6·8	1·6	...	...	8·0	1·9	...	...	9·3	12·1	24
26	2·4	...	...	12·3	5·6	...	...	5·6	2·7	...	...	4·1	0·7	...	0·7	...	12·5	1, 3, 5
27	...	1·3	...	0·9	...	0·9	2·1	...	0·6	...	...	2·9	0·3	...	...	1·6	3·9	18
28	2·1	...	...	2·1	...	0·7	...	3·5	...	4·9	...	...	...	2·8	2·8	...	4·9	10, 16, 23
29	...	0·9	2·1	...	...	0·8	4·2	...	0·4	...	...	2·3	1·3	...	0·9	...	4·9	18
30	2·4	..	...	1·0	2·7	...	...	1·8	2·7	...	...	1·8	2·5	...	...	2·5	4·6	11
31	1·3	...	...	0·3	0·4	...	2·0	...	4·9	...	...	3·3	4·7	...	...	7·1	8·5	21
S+N & W+E	92·6		102·4		127·1		104·3		113·6		114·5		86·3		106·5			
S−N & W−E	17·8		−16·0		9·1		−10·5		11·8		−27·7		8·3		−26·1			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	3·0	...	3·0	...	2·1	...	5·0	...	...	...	6·7	...	1·8	...	1·8	11·5	11	29
2	...	0·6	...	2·8	...	...	...	2·9	0·6	...	...	2·8	...	calm	...	...	6·7	7	11
3	...	1·2	1·2	...	...	0·3	0·2	...	1·7	...	..	...	...	0·7	...	1·6	3·8	23	40
4	...	1·8	...	2·7	...	4·1	...	4·1	...	5·3	...	5·3	...	4·5	...	3·0	12·0	15	4
5	...	2·1	...	1·4	...	4·2	...	2·8	...	5·8	...	2·4	...	0·8	...	0·2	9·3	13	20
6	4·8	...	11·6	...	5·3	...	12·8	...	...	...	12·5	...	...	...	10·8	...	18·8	4	43
7	...	...	8·3	...	...	1·3	6·6	...	...	9·4	9·4	...	...	11·8	11·8	...	26·2	21	23
8	...	11·8	11·8	...	...	4·0	9·6	...	5·0	...	...	...	7·7	...	...	3·2	21·6	0	48
9	1·9	...	4·6	...	...	...	8·3	...	...	11·1	2·2	...	...	4·9	7·3	...	17·1	13	38
10	...	3·7	5·6	...	...	...	3·8	...	5·8	...	...	...	6·6	...	2·7	...	11·5	19	43
11	1·6	...	2·4	...	3·3	...	3·3	...	4·2	...	2·8	...	4·5	...	...	0·9	7·5	17	14
12	5·8	...	...	...	5·8	...	...	...	1·1	...	5·3	...	...	5·1	7·7	...	15·5	17	55
13	...	3·9	5·9	...	...	...	2·5	...	...	...	6·7	...	...	2·6	6·2	...	12·2	0	28
14	...	2·6	6·2	...	3·5	...	3·5	...	1·7	...	8·6	...	...	...	10·0	...	15·1	{23 23}	{11 13}
15	...	...	12·9	...	...	4·0	9·6	...	...	1·4	7·0	...	...	...	2·9	...	19·3	6	15
16	4·2	...	2·8	...	2·8	...	4·2	...	2·1	...	3·2	...	...	calm	...	...	8·6	3	23
17	...	calm	...	...	3·1	...	...	1·3	...	...	...	1·7	...	...	...	3·3	5·8	19	43
18	1·6	...	...	3·9	2·2	...	...	5·4	4·2	...	...	6·2	2·7	...	...	6·6	11·5	11	47
19	2·9	...	...	6·9	3·7	...	...	5·6	3·9	...	...	5·9	3·2	...	...	4·8	12·2	11	15
20	1·6	...	...	0·7	...	2·3	2·3	...	...	1·8	1·2	...	...	1·1	0·7	...	7·4	0	14
21	...	2·3	...	1·0	...	0·1	...	0·4	...	0·4	0·7	...	...	1·0	2·3	...	3·9	2	45
22	...	5·9	3·9	...	...	8·3	...	...	...	4·5	4·5	...	...	3·2	4·8	...	14·4	4	15
23	..	1·1	2·7	...	...	...	2·5	...	3·9	...	1·6	...	1·9	...	0·8	...	6·4	13	26
24	3·9	...	1·6	...	2·3	...	1·0	...	...	1·5	1·5	...	...	1·8	...	1·8	6·4	1	26
25	...	1·4	...	0·9	...	8·0	5·3	...	...	3·2	7·7	...	...	...	5·4	...	14·6	8	30
26	1·2	...	1·8	...	5·2	...	...	3·5	5·3	...	...	5·3	3·3	...	...	3·3	11·2	13	13
27	0·4	..	...	...	...	4·1	4·1	...	...	4·1	4·1	...	...	3·5	3·5	...	7·4	8	25
28	...	1·5	1·5	...	...	0·9	0·9	...	...	2·1	2·1	...	...	1·8	1·2	...	4·0	1	5
29	...	0·3	0·2	...	...	0·6	0·6	...	...	2·5	...	...	...	3·0	...	...	7·5	19	18
30	...	4·9	...	...	...	2·5	...	...	...	6·6	2·7	...	...	4·5	3·0	...	10·0	13	41
31	...	3·3	3·3	...	...	1·0	4·9	...	1·1	...	5·3	...	2·2	...	5·4	...	9·9	23	49
S+N & W+E	81·3		111·6		85·0		117·0		100·3		125·4		84·2		117·0				
S−N & W−E	−21·5		65·0		−10·6		55·0		−19·1		52·8		−20·0		56·0				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust. (Gorleston.)	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	2·7	...	4·1	...	6·0	...	9·0	...	6·2	...	9·2	...	7·8	...	11·7	15·0	18	5
2	...	5·7	...	8·5	...	3·5	...	8·5	...	2·6	...	3·8	...	2·5	...	2·5	14·7	7	45
3	...	1·9	1·3	...	...	2·0	3·0	...	0·5	...	2·6	...	1·3	...	...	...	6·3	13	10
4	1·0	...	0·2	...	0·7	...	...	3·5	...	1·4	...	7·1	...	0·3	...	1·3	10·0	14	50
5	0·4	...	...	0·6	...	4·3	...	1·8	...	4·8	...	1·0	...	2·0	3·0	...	11·5	16	55
6	0·4	...	2·0	...	3·4	...	5·2	...	5·5	...	...	1·1	3·6	...	...	...	13·2	16	30
7	3·2	...	0·6	...	5·9	...	...	...	2·5	...	...	1·7	2·2	...	1·4	...	16·8	17	20
8	3·5	...	0·7	...	2·3	...	5·5	...	3·5	...	3·5	...	1·5	...	3·6	...	12·4	4	35
9	1·5	...	3·6	...	4·2	...	0·8	...	8·7	...	...	1·7	..	...	7·2	...	17·0	15	35
10	...	1·8	4·4	...	...	4·7	4·7	...	...	2·5	...	1·7	0·8	...	...	0·6	12·6	9	5
11	0·8	...	1·8	...	1·0	...	2·4	...	3·6	...	...	1·5	0·7	...	0·1	...	7·5	14	15
12	0·5	...	0·5	...	4·5	...	...	0·9	4·1	...	...	2·7	4·2	...	...	4·2	8·3	12	35
13	2·3	...	...	5·5	2·1	...	...	2·1	0·6	...	...	1·5	0·4	...	...	0·6	6·9	1	5
14	...	2·2	3·2	...	...	1·7	2·5	...	1·6	...	...	1·6	2·7	...	4·1	...	9·3	19	30
15	3·0	...	3·0	...	1·2	...	5·8	...	...	3·1	7·6	...	...	0·4	2·3	...	12·8	13	55
16	...	0·6	3·2	...	1·7	...	2·5	...	1·9	...	4·5	...	0·9	...	2·1	...	11·7	12	35
17	...	...	2·3	...	...	2·8	...	1·1	2·1	...	...	5·2	2·1	..	...	0·9	6·1	16	20
18	0·9	...	1·3	...	...	3·6	...	1·5	...	3·0	...	1·3	0·3	...	...	0·6	6·8	7	55
19	...	0·9	...	1·3	...	1·4	...	2·2	3·5	...	...	3·5	3·0	...	...	2·0	7·3	13	45
20	3·3	...	...	1·4	3·3	...	...	1·4	5·8	...	...	1·2	2·9	...	0·6	...	10·6	15	15
21	0·4	...	2·3	...	1·8	...	2·7	...	5·5	...	...	1·1	2·7	...	1·8	...	10·0	16	5
22	1·8	...	2·7	...	...	3·6	...	2·4	...	1·3	0·3	...	...	2·2	1·4	...	9·1	18	45
23	...	1·1	1·7	...	...	0·5	1·2	...	4·8	...	...	2·0	1·5	...	...	0·6	9·4	15	55
24	3·0	...	...	...	4·2	...	...	4·2	1·7	...	...	8·7	...	...	...	8·5	9·7	17	5
25	...	...	...	6·9	...	...	...	7·2	4·3	...	...	1·8	2·9	..	0·6	...	9·5	17	25
26	...	...	3·3	...	...	1·3	1·9	...	...	1·0	...	2·4	1·3	...	...	3·0	6·3	12	20
27	0·6	...	...	0·4	...	2·2	...	1·4	...	3·0	...	3·0	...	0·7	...	0·7	5·0	15	0
28	...	0·9	...	0·9	...	0·6	...	2·9	4·0	...	...	1·6	...	...	...	1·3	7·7	12	35
29	0·4	...	0·6	...	...	2·4	...	1·0	...	1·8	...	1·8	...	1·3	...	3·0	4·3	11	50
30	...	0·9	...	2·1	..	1·0	...	2·4	...	1·7	...	2·5	...	0·4	...	0·9	5·3	5	10
31	0·8	...	1·8	...	...	1·6	...	...	3·8	...	...	2·6	2·1	...	0·9	...	7·3	15	55
S+N & W+E	46·5		72·2		79·5		91·7		100·4		91·8		54·7		71·5				
S−N & W−E	9·1		8·8		−6·9		−15·3		35·6		−54·8		19·5		−13·3				

9. Soundings with Pilot Balloons.

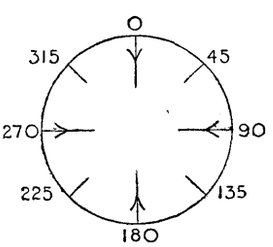
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind. Geostrophic. From N.	m/s.	By Anemometer. From N.	m/s.	At Heights above M.S.L. 500 m. From N.	m/s.	1000 m. From N.	m/s.	2000 m. From N.	m/s.	3000 m. From N.	m/s.	4000 m. From N.	m/s.	5000 m. From N.	m/s.	Cloud Observations. Type.	From N.	mr/s.
		h. m.	°		°		°		°		°		°		°		°			°	
1	Benson .	12 0	90	14	45	7·5	55	11·0	95	10·0	105	10·5	...	...	...	...	...	...	A.-Cu.	100	...
1	S. Farnboro' .	16 35	90	17	80	9·0	75	7·0	85	10·5	110	7·5	...	...	...	...	...	...	...	...	...
2	Eskdalemuir .	12 50	180	6	125	0·9	150	1·6	125	1·2	270	1·0	...	...	...	...	...	...	A.-Cu.	270	2·8
4	S. Farnboro' .	14 35	120	7	160	2·5	175	7·0	170	8·5	205	14·5	...	...	...	...	...	...	...	...	...
4	,,	17 0	130	7	160	1·0	175	8·0	185	8·5	210	15·0	...	...	...	...	...	...	St.-Cu.	135	...
5	,,	7 25	90	12	45	light	100	9·5	115	9·0	180	10·5	...	...	...	...	...	...	...	...	...
10	,,	7 15	310	10	290	2·5	300	7·0	300	7·5	270	9·0	...	...	...	...	...	...	...	...	...
10	Eskdalemuir.	7 30	320	6	330	3·5	320	4·1	285	4·1	275	3·9	...	...	...	...	...	...	...	...	...
10	Aberdeen .	8 0	330	5	300	5·0	320	6·0	310	7·0	280	7·5	...	...	...	...	...	...	...	...	...
10	S. Farnboro' .	17 5	230	6	250	2·0	265	7·5	260	7·5	265	3·5	285	11·0	...	...	...	...	...	...	...
17	,,	17 20	...	0	...	0·0	270	1·5	275	3·5	285	4·5	250	5·5	...	...	...	...	...	...	...
18	,,	7 10	40	3	...	0·0	95	3·0	60	1·5	325	4·0	350	5·5	315	7·0	...	...	...	...	...
18	Benson .	11 55	...	0	125	2·0	120	1·6	55	0·7	165	0·4	310	1·2	335	7·5	325	7·5	...	...	...
19	S. Farnboro' .	6 55	100	6	100	light	120	9·5	95	5·0	145	4·5	50	1·5	...	...	...	...	Ci.	270	...
19	Benson .	12 5	140	6	110	5·0	140	6·0	145	4·3	170	3·9	...	...	...	...	...	...	Ci.	315	...
20	S. Farnboro' .	6 45	210	6	145	light	180	8·0	180	5·5	200	4·0	...	...	...	...	...	...	...	...	...
20	Benson .	11 40	240	6	180	7·0	180	8·0	200	6·0	220	6·5	260	4·4	245	6·5	260	4·7	...	...	...
22	S. Farnboro' .	6 40	320	5	270	light	280	6·5	245	8·0	250	9·0	...	...	...	...	...	...	Ci.-Cu.	270	...
23	,,	6 20	...	0	...	0·0	330	4·5	305	4·5	315	5·5	270	10·5	...	...	...	...	Ci.	270	...
23	Benson .	7 15	...	0	...	0·0	315	3·2	305	5·5	300	2·4	260	10·5	...	...	...	...	Ci.	270	...
23	Aberdeen .	7 25	?	?	135	3·0	190	4·9	220	8·0	250	8·5	...	...	...	...	...	...	A.-Cu.	245	4·0
24	S. Farnboro' .	6 30	130	7	135	light	160	7·0	200	4·5	175	7·5	...	...	...	...	...	...	...	...	...
24	Benson .	7 10	130	7	130	4·1	165	7·0	180	5·0	175	8·5	205	8·5	...	...	...	...	...	...	...
24	Eskdalemuir .	7 25	180	? 18	170	4·3	205	3·0	195	8·5	185	9·5	190	8·0	...	...	...	...	...	...	...
26	S. Farnboro' .	6 40	...	0	260	light	265	4·0	265	6·5	225	6·5	200	9·5	...	...	...	...	Ci.	170	...
26	Benson .	7 15	...	0	225	1·0	260	3·8	250	2·9	220	5·0	195	9·0	...	...	...	...	...	...	...
27	S. Farnboro' .	6 35	140	5	...	0·0	95	3·0	95	0·5	115	5·0	145	2·5	155	4·0	155	5·5	...	...	...
27	Benson .	7 10	140	5	...	0·0	110	2·9	120	3·1	105	3·6	160	3·1	160	5·0	160	6·5	...	...	...
27	Eskdalemuir .	7 20	...	0	135	0·3	185	1·1	205	3·5	200	3·7	210	2·7	165	4·5	180	8·0	...	...	...
29	Benson .	7 15	...	0	...	0·0	235	2·5	150	0·8	220	6·5	205	4·5	230	5·5	...	...	Ci.	200	...
29	Falmouth .	7 25	360	5	350	2·0	360	6·0	315	2·2	185	0·8	230	3·4	195	3·9	225	7·0	...	...	...
29	Eskdalemuir .	7 30	360	5	...	0·0	...	0·0	285	3·3	240	2·7	280	2·3	200	3·1	...	...	Ci.-Cu.	...	0
30	S. Farnboro' .	6 45	20	3	...	0·0	265	5·0	290	4·0	265	2·0	30	1·5	...	...	...	...	...	...	...
30	Benson .	7 10	20	3	340	2·5	15	6·0	345	5·0	245	2·6	...	...	...	...	...	...	...	...	...
30	Eskdalemuir .	7 20	360	3	135	0·7	215	0·5	245	3·0	215	3·5	220	3·6	240	5·0	225	7·5	...	...	...
31	Benson .	7 20	?	?	290	1·2	315	4·0	275	4·3	245	6·0	270	9·0	...	...	...	...	...	...	...
31	Aberdeen .	7 25	?	?	...	0·0	305	2·9	230	3·6	220	7·0	...	...	...	...	...	...	...	...	...
									6000 m.		7000 m.		8000 m.		9000 m.		10,000 m.				
20	Benson .	11 40	(For winds at lower levels, see above)						305	7·5	315	4·0	...	...	...	...	...	...			

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Aberdeen	14 m.	32 m.
Benson	57 m.	25 m.
Eskdalemuir	242 m.	15 m.
Falmouth (Pendennis)	51 m.	12 m.
S. Farnborough	70 m.	31 m.

Notes on Pressure Distribution.

May 1 7 h. and 18 h. Depression from Azores to Bay of Biscay. Ridge of high pressure from Iceland to North Sea.
2 7 h. Depression over Madeira. Ridge running southwards to North Sea. Separate depression forming over English Channel during day.
4 18 h. Depression over Bay of Biscay.
5 7 h. Depression over Bay of Biscay. Secondary over North Sea.
10 7 h. and 18 h. Anticyclone Azores to Spain. Depressions to westward of Ireland and over North Sea.
17 18 h. Anticyclone over England.
18 7 h. Anticyclone over British Isles and Iceland.
19 7 h. Anticyclone over British Isles and North Sea.
20 7 h. Anticyclone stretching from Bay of Biscay to Norway. Depression S.W. of Iceland.
22 7 h. Anticyclone Azores to Bay of Biscay. Ridge over North Sea to Norway.
23 7 h. Depression S. of Iceland. Shallow depression over Bay of Biscay.
24 7 h. Depression S. of Iceland, with trough stretching to Corunna.
26 7 h. Depression off W. of Scotland. Uniform pressure over England.
27 7 h. Depression S. of Iceland. Uniform pressure over British Isles.
29 7 h. Uniform pressure over British Isles and surrounding areas.
30 7 h. Anticyclone Azores to British Isles.
31 7 h. Anticyclone over Bay of Biscay. Shallow depression W. of Scotland.



Wind Protractor.

10. Nephoscope Observations at Aberdeen.

See page 36.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 6. JUNE 1916]. Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	Maximum. 11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	0·1	1	1058	26	42	8 20	39	0·0	0	…	…	…	0·0	0	…	…	…	…	6·6	40
2	10·3	63	1833	45	88	11 15	87	9·2	56	…	…	…	7·1	42	…	…	…	…	10·1	62
3	8·3	51	1573	39	85	11 30	85	8·8	54	…	…	…	5·7	34	…	…	…	…	0·6	4
4	3·7	23	890	22	56	7 55	21	2·7	17	…	…	…	1·0	6	…	…	…	…	1·1	7
5	8·3	51	1587	39	90	11 55	90	8·8	54	…	…	…	6·3	37	…	…	…	…	9·3	56
6	6·8	41	1503	37	86	12 45	77	6·2	38	75	66	Clear	2·4	14	…	…	…	…	11·0	67
7	9·5	58	1566	38	89	11 45	89	10·3	63	65	57	Ci.	0·0	0	…	…	…	…	9·5	58
8	5·7	35	1639	40	97	12 50	89	5·8	35	81	71	Clear	3·8	22	…	..	…	…	10·8	65
9	7·9	48	1780	44	*x* 98	12 20	*x* 98	6·7	41	…	…	…	5·2	30	…	…	…	…	6·6	40
10	3·5	21	1232	30	81	13 15	78	4·9	30	…	…	…	2·1	12	…	…	…	…	2·4	14
11	3·8	23	1223	30	89	13 20	64	4·1	25	…	…	…	0·6	3	…	…	…	…	10·3	62
12	0·0	0	*n* 463	11	36	9 40	8	0·0	0	…	…	…	12·6	73	12 23	Ci.	1·16	92	6·3	38
13	2·7	16	1039	25	79	13 30	40	1·3	8	…	…	…	6·1	35	…	…	…	…	7·5	45
14	0·0	0	640	16	*n* 26	10 15	24	0·3	2	…	…	…	8·0	46	…	…	…	…	10·4	63
15	6·7	41	1607	39	85	14 0	44	6·4	39	…	…	…	14·0	81	12 19	Clear	1·17	90	14·5	87
16	5·5	33	1284	31	83	11 55	83	6·2	38	…	…	…	14·6	84	12 16	Clear	1·18	92	*x*15·6	94
17	*x*14·0	84	*x* 2561	62	78	13 5	76	*x*13·6	82	…	…	…	*x*14·7	84	…	…	…	…	15·4	92
18	6·0	36	1318	32	74	13 50	39	6·4	39	…	…	…	11·8	68	…	…	…	…	15·2	91
19	0·7	4	916	22	78	13 45	51	0·9	5	…	…	…	10·2	59	…	…	…	…	0·9	5
20	9·3	56	1982	48	94	11 45	94	9·1	55	…	…	…	0·3	2	…	…	…	…	0·1	1
21	2·1	13	1609	39	79	9 55	56	2·3	14	…	…	…	1·1	6	…	…	…	…	0·0	0
22	2·8	17	1605	39	87	11 0	60	3·1	19	…	…	…	0·0	0	…	…	…	…	2·0	12
23	0·2	1	969	24	62	10 10	30	0·2	1	…	…	…	4·6	26	…	…	…	…	1·8	11
24	3·5	21	1323	32	88	12 20	88	2·5	15	…	…	…	1·0	6	…	…	…	…	15·2	91
25	10·3	62	2029	49	92	11 55	92	9·2	55	…	…	…	3·8	22	…	…	…	…	5·2	31
26	0·0	0	938	23	49	11 55	49	0·0	0	…	…	…	0·4	2	…	…	…	…	3·5	21
27	0·6	4	? 868	? 21	59	12 33	52	0·5	3	…	…	…	1·4	8	…	…	…	…	4·7	28
28	1·9	12	1114	27	78	11 24	77	2·7	16	…	…	…	1·4	8	…	…	…	…	4·5	27
29	2·5	15	1305	32	82	12 9	82	2·7	16	…	…	…	4·7	27	…	…	…	…	0·1	1
30	7·5	45	1543	38	83	13 12	81	7·2	44	77	68	Clear	9·9	57	…	…	…	…	8·5	51
Means	4·80	29	1367	33	76	—	65	4·73	29	—	—	—	5·17	30	—	—	—	—	7·00	43
Normal	6·97	43	—	—	—	—	—	6·57	40	—	—	—	5·43	32	—	—	—	—	6·27	38
	← 5 years →							← 35 years →					← 5 years →						← 35 years →	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Magnetism. Declination West.	Magnetism. Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
			a.	*a.*	*a.*	*a.*									Tenths of Sky covered.						
	mb.	mb.	200+	200+	200+	200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.			mm.		γ	° ′	° ′
1	1009·6	1019·2	85·6	83·4	86	84	13·9	9·8	96	78	20	9	29	6	10●⁰	5	0·7	● showers *a.* Fine *p.*	…	…	…
2	1020·0	1021·8	84·0	83·3	85	82	9·8	9·6	75	77	24	5	29	8	6	7●	1·3	●⁰ showers 7 h.–9 h. Fine.	…	…	…
3	1022·0	1014·1	84·0	83·6	86	82	8·6	11·2	66	88	26	4	18	4	10	10●	11·8	⊕ 7 h.–9 h. c. to o. ● from 20 h.	…	…	…
4	999·1	996·9	85·3	83·8	86	83	13·5	10·7	95	83	21	10	24	12	10●	7	1·1	● till 9 h. Mostly o. d. midday.	…	…	…
5	1001·2	1005·6	84·3	83·1	86	81	11·1	9·5	84	77	27	9	27	6	9	7	1·7	● showers *a.* and *n.* Sunny *p.*	…	…	…
6	1006·4	1007·8	84·1	82·0	86	81	9·3	8·2	71	72	27	5	28	5	8●	6	1·1	Fine. Showery evening.	…	…	…
7	1007·3	1007·8	82·7	82·0	85	*n* 80	8·7	8·2	73	72	29	4	30	5	6	6	0·3	Mostly fine. Showery afternoon.	…	…	…
8	1008·6	1010·9	83·4	82·4	*n* 84	*n* 80	8·5	8·2	68	70	1	4	29	6	6	7	0·5	●⁰ showers *a.* Fine to c. *p.*	17865	19 51·6	68 3·6
9	1013·5	1019·4	83·4	83·2	85	82	8·7	8·8	70	71	29	7	29	6	8	7	—	⌒ 7 h. Fine to c.	…	…	…
10	1023·9	1026·5	84·4	84·0	87	81	11·2	10·2	84	78	27	3	27	3	10	10	0·3	●⁰ showers *a.* Fine to c. *p.* o. *n.*	…	…	…
11	1026·9	1028·5	85·0	84·0	88	82	10·2	10·3	73	79	32	5	31	4	8	2	—	Fine from 8 h. v.	…	19 55·0	…
12	1025·2	1021·2	85·1	84·5	87	83	9·0	10·7	64	79	32	8	32	4	8	7	—	Fine to c. Fine sunset.	…	…	68 4·7
13	1018·1	1018·2	85·7	85·8	89	83	10·1	11·6	69	79	3	3	—	0	4	10	—	Fine to c. o. *n.*	…	…	…
14	1020·0	1020·0	88·6	86·2	90	82	10·0	10·7	57	71	8	2	—	1	2∞	6	—	∩∞ *a.* Fine. Fine sunset.	…	…	…
15	1019·8	1020·0	88·7	85·9	90	81	13·9	12·5	79	85	—	1	—	0	0∞	7∞	—	Fine. Fine sunset.	…	…	…
16	1021·1	1020·8	89·9	87·7	93	83	12·2	9·1	64	*n* 55	6	5	7	3	1∞	4∞	—	Fine. Fine sunset.	…	…	…
17	1020·8	1021·0	89·1	86·6	*x* 95	83	10·2	11·3	56	73	3	3	16	2	2∞	0∞	—	Fine. Fine sunset.	…	…	…
18	1019·7	1021·0	89·0	84·4	89	83	12·4	10·6	69	79	32	3	32	4	1	6	—	Fine all day.	…	…	…
19	1022·0	1023·7	85·2	85·1	87	84	9·7	11·1	69	79	30	7	30	3	10	10	—	Mostly o. Cool.	…	…	…
20	1023·1	1020·7	85·6	85·6	88	84	11·7	12·6	81	87	24	3	16	3	10	10	1·1	d. *a.* o. all day.	…	…	…
21	1015·5	1010·0	86·6	86·3	87	*x* 85	14·3	14·9	93	98	14	7	14	3	10●⁰	10●	*x* 15·1	⌒ 8 h. o. all day.	…	…	…
22	1002·3	1001·0	86·5	86·3	90	*x* 85	14·3	13·7	93	90	14	6	—	0	10	10	8·1	≡⁰ early. ● at times. o. *n.*	17862	19 51·2	68 3·9
23	1004·4	1010·4	84·9	84·9	87	84	13·3	11·3	96	82	27	8	28	5	10●	9	—	● early. o. to c. Fine sunset.	…	…	…
24	1011·0	1014·1	86·8	85·5	89	82	12·8	12·4	82	86	29	3	28	4	5	1	—	Fine and bright.	…	…	…
25	1014·9	1009·1	88·8	86·4	90	82	14·2	14·7	80	96	28	2	19	6	7	10●⁰	3·3	⌒² early. Dull to o. ● *n.*	…	…	…
26	1007·2	1011·1	87·3	85·7	88	*x* 85	13·8	12·4	85	85	27	5	30	8	9	7	1·1	● showers early. o. d.	…	…	…
27	1012·8	1015·4	85·6	84·8	88	84	13·2	10·3	91	75	29	7	30	8	10	10	0·6	● showers *a.* c. to o. *p.*	…	…	…
28	1014·1	1011·7	87·1	85·4	89	84	11·7	12·6	73	88	26	2	22	4	8	10	0·8	Fair to c. ●⁰ 16 h. o. *n.*	…	…	…
29	1006·2	1008·1	85·5	85·2	87	84	12·8	11·9	89	84	—	1	29	5	10●	10	3·3	● *a.* o. to c. *p.*	…	…	…
30	1012·1	1011·6	87·2	86·1	89	84	12·1	13·0	75	87	21	7	16	2	9	9	13·2	Fair to c. ⊕ 18 h. Sun-pillar.	…	…	…
Means	1014·3	1014·9	86·0	84·8	87·9	82·7	11·5	11·1	77	80		4·9		4·3	7·2	7·3	65·4	Monthly **Totals** or **Means.**	17864	19 52·6	68 4·1
Normal	1014·5	1014·7	87·2	86·3	89·8	83·7	13·2	13·0	80	84		4·7		4·1	—	—	90·5	**Normals.**			
	← 45 years →						← 30 years →				← 35 years →						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—12/17.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.	*a.* 200+	*a.* 200+	*a.* 200+	cm.	cm.
1	1017·5	1013·4	88·2	86·6	90	85	11·7	13·0	68	84	17	7	19	5	10	10	0·1	81	88·0	85·1	261	261
2	1016·2	1014·6	86·2	83·8	90	81	9·5	9·0	63	70	24	3	24	2	8	4	—	74	87·3	85·3	259	—
3	1015·5	1014·9	84·4	84·5	89	79	8·8	8·6	66	64	29	4	31	2	6	3	—	74	87·0	85·2	258	—
4	1008·3	995·9	85·4	85·1	85	79	9·7	12·8	68	91	18	7	17	7	10	10●	5·2	n_{73}	86·4	85·3	258	—
5	993·2	997·9	85·7	84·6	88	82	10·2	10·8	70	80	20	6	22	4	10	8	3·3	80	86·0	85·3	256	—
6	1001·6	1004·6	85·0	82·7	87	81	9·5	10·2	68	85	22	4	20	2	7	1∞	3·9	79	86·1	85·2	254	—
7	1004·0	1004·7	84·6	82·8	89	79	9·4	7·6	69	63	20	4	21	2	9	3	3·5	75	85·8	85·1	252	—
8	1006·4	1006·8	84·8	83·2	89	n78	9·5	10·1	69	82	19	3	—	1	8	3	3·1	75	85·5	85·1	251	
9	1008·9	1013·0	84·4	83·2	89	81	8·8	10·5	66	85	24	2	—	1	4	3	0·1	76	85·9	85·1	249	—
10	1018·2	1021·5	86·0	82·2	89	82	10·4	11·0	70	95	26	3	—	1	7	4≡⁰	x 9·3	78	86·2	85·0	248	—
11	1021·1	1020·2	84·8	82·5	88	80	9·9	10·4	72	88	27	3	—	1	9	9	7·1	77	86·1	85·0	246	—
12	1015·6	1009·9	81·5	81·3	n83	80	9·9	10·0	89	92	—	1	31	2	10●	10≡⁰●	3·5	80	85·9	85·1	245	—
13	1008·1	1013·7	83·7	83·2	86	82	10·1	10·5	79	85	29	5	32	4	10	10	1·2	80	85·2	85·0	244	—
14	1016·9	1018·8	81·9	82·5	85	81	8·9	10·1	79	85	31	5	—	1	10	1≡⁰	—	81	85·0	85·0	244	—
15	1018·7	1022·7	84·5	82·4	89	80	10·3	8·4	76	72	32	5	4	4	10	1	—	76	85·0	85·0	244	—
16	1024·8	1023·7	82·7	84·4	89	81	8·2	9·9	68	74	3	4	7	5	10	10	—	77	85·2	85·0	244	—
17	1022·4	1018·1	83·5	84·7	92	n78	8·2	10·9	65	80	4	5	8	2	1	1∞	—	75	85·2	85·0	245	—
18	1016·1	1012·7	82·5	87·2	90	81	9·5	12·6	80	78	2	4	—	1	10	10∞	—	79	86·2	84·9	245	—
19	1012·6	1018·5	84·6	84·6	88	81	10·8	10·4	80	77	28	3	—	1	10	?8∞	0·2	81	86·6	84·9	245	—
20	1019·5	1020·4	86·6	87·2	90	81	8·5	10·4	n55	65	24	2	—	1	5	8	—	76	86·3	85·0	244	—
21	1021·5	1019·6	87·2	87·1	92	84	9·5	12·3	59	77	25	3	19	2	9	2	—	81	87·0	85·0	244	—
22	1016·4	1011·6	88·8	90·0	x94	81	12·6	13·8	71	72	17	4	13	2	10	10	—	76	87·1	85·0	243	—
23	1011·4	1011·2	90·8	87·8	93	x86	14·5	13·8	72	83	13	3	17	3	10	8	1·6	85	87·7	85·1	242	—
24	1010·3	1012·5	88·5	87·2	92	85	13·7	13·0	78	81	18	4	19	5	10●⁰	7	0·9	82	87·6	85·2	241	—
25	1014·9	1014·1	88·1	88·5	x94	84	11·6	13·3	68	76	21	4	20	2	9	1	—	81	87·5	85·3	239	—
26	1009·8	1006·1	88·2	85·7	91	84	12·7	13·1	74	90	18	4	—	0	10	10	2·4	81	87·8	85·4	237	—
27	1005·6	1006·5	86·6	87·3	91	85	13·6	13·8	88	85	23	2	32	2	10≡⁰	10●⁰	2·2	84	87·5	85·5	235	—
28	1006·7	1008·9	87·2	87·4	92	85	12·2	12·2	76	75	30	3	25	2	10	8∞	—	85	87·7	85·6	234	—
29	1011·5	1010·3	87·6	84·5	91	83	11·0	12·4	67	92	22	5	16	5	10	10●≡⁰	7·3	80	87·8	85·6	233	—
30	1008·2	1015·5	88·3	86·8	92	84	12·7	9·9	74	63	23	5	23	3	9	4	—	84	87·6	85·6	232	232
Means	1012·7	1012·7	85·7	85·0	89·5	81·8	10·5	11·2	72	80		3·9		2·5	8·7	6·2	54·9	78·9	86·5	85·2	246	—
Normal	1015·3	1015·3	88·3	87·6	92·8	83·4	12·3	12·5	71	75		3·6		2·7	—	—	55·6 (45 years)	—	88·1	85·6	—	—
	45 years						30 years				35 years								12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

1	978·6	979·2	83·3	80·3	84	79	11·9	8·2	96	80	18	11	26	11	10●≡⁰	3	13·8		o., with ●. ≡² *a.*
2	983·4	985·3	81·6	77·5	85	76	8·0	7·4	72	87	24	6	--	0	6	9	2·8		● showers *a.* and *p.* ▲ 15 h. T 17 h.
3	986·5	983·2	82·3	79·3	84	n74	7·7	7·4	66	78	26	8	22	4	4	6	7·1		Mostly o. ● showers *p.*
4	968·1	960·2	79·6	81·0	85	79	9·2	9·1	95	85	15	10	18	5	10●²	10	16·1		●² 7 h.–9 h. o.
5	958·8	966·7	83·2	79·6	86	78	9·6	7·2	78	74	27	4	28	5	10	4	1·1		● at times *a.* Fine evening.
6	968·5	970·7	81·3	79·5	84	76	7·2	7·5	66	77	26	11	24	4	8	8	0·3		c. to o. ● in afternoon.
7	970·1	972·8	81·5	80·3	84	79	9·7	8·8	88	86	26	4	—	1	10●	10●⁰	0·5		● *a.* Dull.
8	974·5	977·3	81·9	80·6	87	78	8·5	9·1	75	87	25	3	—	0	8	9	1·1		c. to o. ● in evening.
9	980·5	985·9	82·8	77·6	86	76	8·6	7·5	71	89	2	5	29	2	9	4	0·9		o. to c. ⌒▲T 19 h.
10	989·8	993·1	82·2	81·0	87	75	8·5	9·1	74	85	26	2	31	2	10	10	2·5		⊃ early. Mostly o. ●² showers *p.*
11	994·6	993·7	83·5	80·7	85	79	8·5	7·7	67	73	31	5	32	5	10	6	—		o. *a.* Brighter afternoon.
12	987·7	986·8	84·5	81·3	89	78	8·0	7·8	59	71	32	12	2	13	6	10	0·7		Fine. q. and o. *n.*
13	989·5	991·5	78·9	78·4	n83	77	8·0	7·1	86	80	3	11	2	5	10●⁰	2	—		o. d. *a.* Fair *p.*
14	992·3	991·2	84·8	87·1	90	77	6·4	10·9	n47	68	1	5	—	0	2	10	—		v. *a.* Fine to c. ⊕ 9 h. and 13 h.
15	994·4	998·2	83·6	79·2	87	78	8·4	7·6	66	81	4	8	3	6	8	1	—		Fair to very fine.
16	1000·4	998·8	82·5	81·0	87	77	7·7	8·7	65	82	5	6	31	2	3	0	—		Fine and cloudless. v. *p.*
17	994·6	992·4	91·3	82·5	x96	n74	12·3	10·2	59	86	2	4	1	4	0	0	—		Fine and very warm.
18	987·3	985·3	88·0	83·2	91	79	11·0	9·4	65	76	26	2	27	3	2	4	—		Fine. v. *p.* ⊕ 18 h.
19	987·3	989·0	83·0	82·0	87	79	7·0	7·2	57	63	32	4	27	6	5	10	—		Fine to c. o. evening.
20	988·8	989·3	82·6	81·9	86	76	8·8	9·9	74	88	26	5	25	6	9	10●⁰	0·2		d. till 8 h. Dull. ● 15 h.
21	990·1	989·1	82·1	83·4	86	81	9·9	11·5	86	92	19	4	17	4	10●⁰	10	0·1		Dull and o.
22	984·4	981·3	86·4	83·9	89	82	11·3	12·4	74	96	14	5	—	1	10	10●⁰≡⁰	6·1		Dull and d. *a.* ● in afternoon.
23	982·3	982·4	87·0	84·0	92	80	13·0	10·9	82	84	14	2	—	1	9	5	—		≡⁰●⁰ *a.* o. to fair. ⊕ 16 h.
24	981·2	978·5	89·6	85·9	90	79	13·5	13·0	72	88	4	3	24	4	7∞	10	*x* 27·7		⌇ 11 h. T●² *p.*
25	980·3	982·6	83·9	83·5	88	x83	11·2	9·7	87	77	23	7	20	4	10●	7	5·1		●⁰ and o. *a.* Fair *p.*
26	980·5	981·2	83·5	84·0	88	x83	11·7	11·7	93	90	17	6	31	2	10≡⁰●⁰	10	0·3		d. *a.* Dull. ● evening.
27	981·7	982·7	84·9	82·7	88	82	11·4	10·5	83	88	3	5	3	3	10≡⁰	4	—		Dull *a.* ; brighter *p.* ; fine evening.
28	980·7	978·5	84·1	83·3	88	81	10·7	9·0	81	72	28	2	26	8	10	10	—		Dull *a.* ; fine *p.* ; o. evening.
29	979·1	978·6	84·4	79·7	88	76	9·5	8·1	71	83	24	6	26	3	9⊕	3	—		o. to fair. Fine evening.
30	977·9	982·3	84·7	81·3	89	n74	9·5	8·7	70	80	26	5	24	2	7	3	—		Fair to fine.
Means	983·1	983·6	83·8	81·5	87·2	78·1	9·6	9·1	74	82		5·7		3·9	7·7	6·6	86·4	—	Monthly **Totals** or **Means**.
Normal 1911-15	986·7	986·9	85·5	83·5	89·1	79·6	11·1	10·8	77	84		5·3		3·6	—	—	80·2	--	**Normals.**

No record.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 22 days; they are computed from the data for those days on which values at each of the four hours, 3h, 9h, 15h, 21h, are given in the table. A similar note applies to the values in Table 6.

x denotes the maximum and *n* the minimum value in the column. *z* Indeterminate

Day.	Remarks.	Potential Gradient, Volts per metre. Factor 1·74.				Charge per cc. ×10¹⁶.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
		3 h.	9 h.	15 h.	21 h.	+.	−.	About 15 h.			Mean Time.		Mean Time.		Mean Time.	
		v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².			h m	γ	h m	° ′	h m	° ′
1	Dull and o. all day.	135	175	60	80	...	...	...	1	1	11 3	18423	14 26	15 17·0	14 46	66 57·2
2	Fine *a*. Fair to fine *p*. ⊕ 15 h.	155	125	80	135	...	...	0·55	1	0	...	...	...	...	...	...
3	Fine to c.	135	165	105	145	...	...	...	0	0	...	...	...	...	...	...
4	Dull from 8 h. ● at times.	155	155	50	90	...	...	...	1	0	...	...	...	...	...	...
5	● showers; bright intervals. ┳ 14 h.	50	−40	*z* ±	215	...	...	...	2	0	...	...	...	...	...	...
6	● showers; bright intervals. ┳ 12 h.	135	*z* +	*z* −	295	...	...	...	2	1	...	...	...	...	...	...
7	⊼● midday. ┳▲● *p*. [▲ 13 h.	185	135	*z* ±	165	...	...	...	2	1	...	...	...	...	...	...
8	Fair to fine till 15 h., then o.	145	185	*z* ±	225	...	...	...	1	1	11 5	18437	14 16	15 20·3	14 43	66 55·9
9	Dull till 8 h., then fine to fair.	100	175	60	195	...	...	...	1	0	...	..	...	...	...	...
10	Fine *a*. ⊼▲ 12 h. ⊼● 15 h.	60	175	*z* ±	780	...	...	...	2	0	...	...	...	...	...	...
11	Dull 9 h.–12 h. ⊼● 17 h.	80	115	*z* ±	215	...	...	...	1	0	...	...	...	...	...	...
12	Dull and cold. ● at times.	−265	50	30	−205	...	...	...	2	1	...	...	...	...	...	...
13	Dull to fair. ● *p*.	70	100	90	105	...	...	...	1	1	...	...	...	...	...	...
14	Dull till 17 h.	40	135	135	275	...	...	...	0	0	11 7	18437	14 18	15 17·1	14 43	66 57·8
15	Fair to fine.	115	145	175	320	...	...	...	0	0	...	...	...	...	...	...
16	Fair to fine.	195	340	410	275	...	...	0·55	0	0	...	...	...	...	...	...
17	Fine throughout.	340	360	320	235	...	...	...	0	1	...	...	...	...	...	...
18	Dull till 13 h., then fine.	115	215	165	70	...	...	...	0	1	...	...	...	...	...	...
19	Mostly dull and o.	80	50	155	265	...	...	...	0	1	...	...	...	...	...	...
20	Fair to fine.	145	185	125	165	·57	·32	0·65	0	1	...	...	...	...	...	...
21	Bright intervals *a*. Fair to dull *p*.	105	125	90	215	·59	·17	0·40	0	1	...	...	...	...	...	...
22	Fair to fine till 14 h., then dull.	155	195	155	205	...	...	...	0	2	11 26	18440	14 20	15 20·8	14 35	66 57·3
23	Dull till 18 h., then fair.	145	195	50	155	...	...	...	1	2	...	...	...	...	...	...
24	Dull to fine. ●² showers 13 h.	50	100	70	—	...	...	...	1	0	...	...	...	...	...	...
25	Fair to fine. v. *p*.	—	50	90	175	...	...	...	0	1	...	...	...	...	...	...
26	Dull and o. all day. ● *p*.	100	135	115	235	...	...	...	1	1	...	...	...	...	...	...
27	Dull *a*. Fair to dull *p*. ● *n*.	105	80	100	235	·27	·46	0·60	1	1	...	...	...	...	...	...
28	Dull to fair.	60	80	255	115	...	...	...	1	1	...	...	...	...	...	...
29	Occasional sunshine 11 h.–16 h. v. *p*.	100	135	115	−30	1·01	1·18	0·55	1	1	11 0	18439	14 24	15 14·1	14 42	66 58·8
30	Fair to fine from 9 h. v. *p*.	30	90	40	145	...	...	0·30	1	1	...	...	...	...	...	..
M.		105*	155*	131*	156*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre. Factor 5·54.				Charge per cc. ×10¹⁶.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
					+.	−.				Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².														
1	*z*	8	*z*	116	...	...	...	2 *c*	1	15 52	1030	922	12 24	14 8	1067	977	7 41	17 32	125	101	11 55
2	92	123	*z*	193	...	...	...	2 *c*	0	? 17 10	? 1014	945	10 57	13 43	1071	990	7 57	17 45	118	95	12 0
3	354	116	15	154	·58	·46	...	1 *b*	0	21 8	1011	940	12 28	14 22	1063	989	8 45	18 5	117	96	11 53
4	177	−1078	231	200	...	...	...	2 *b*	0	19 58	1019	950	11 43	14 38	1063	989	{6 6 / 18 28}	{5 19 / 15 0}	115	89	12 40
5	−316	162	69	208	...	...	...	2 *c*	0	18 3	1021	951	9 57	14 30	1053	984	8 10	18 25	110	84	12 36
6	377	139	15	177	...	...	...	1 *a*	1	21 54	1046	961	11 46	14 20	1064	996	8 48	20 2	113	85	12 15
7	39	†	−200	15	...	...	...	1 *b*	1	{19 / 20 42 / 56}	1034	946	12 27	14 36	1082	982	0 11	20 23	116	56	24 0
8	308	100	? 239	616	...	...	...	2 *c*	1	15 26	1071	920	10 26	14 30	*x* 1117	973	7 18	15 30	*x* 145	55	0 0
9	100	162	8	231	...	...	...	1 *b*	0	18 37	1029	944	11 29	15 48	1052	978	7 35	18 47	121	89	2 22
10	193	85	23	39	...	...	...	1 *b*	0	18 13	1018	947	12 13	14 57	1059	987	6 53	19 42	110	91	11 49
11	154	116	131	185	...	...	...	1 *a*	0	21 8	1039	953	10 28	15 32	1059	977	7 17	{5 18 / 33 53}	105	75	12 36
12	208	223	177	46	...	...	...	0 *a*	1	16 31	1074	958	10 33	16 30	1080	984	7 52	18 10	129	80	24 0
13	77	62	85	223	...	...	...	0 *a*	1	{1 / 16 52 / 3}	1027	932	11 22	15 1	1060	978	8 47	17 8	113	78	0 4
14	92	231	154	300	...	...	...	0 *a*	0	19 12	1020	944	10 25	15 30	1058	973	6 47	17 50	108	83	10 33
15	−8	69	154	216	...	...	...	1 *a*	0	20 7	1018	945	12 3	15 3	1053	984	8 37	16 45	111	86	13 12
16	‡	116	193	177	...	...	...	0 *a*	0	20 33	1013	959	10 42	13 38	1058	989	8 0	17 35	106	89	1 14
17	154	239	‡	‡	...	...	...	0 *a*	1	16 30	1032	958	{12 / 12 18 / 32}	{15 / 16 0 / 30}	1069	991	8 36	{6 / 17 55 / 30}	101	78	11 11
18	169	231	146	231	...	...	...	0 *a*	1	15 48	1043	933	13 9	15 48	1101	994	{6 / 8 54 / 9}	18 54	108	66	11 28
19	300	146	131	116	·58	·23	...	0 *a*	1	17 31	1061	938	11 56	15 37	1090	962	23 47	19 10	126	69	24 0
20	216	77	116	116	...	...	...	? 0 *a*	1	15 57	1057	923	11 19	15 58	1089	967	{1 / 1 41 / 51}	16 30	122	50	3 35
21	169	100	100	185	...	...	...	0 *a*	1	17 11	1068	938	10 58	17 11	1074	982	6 18	19 17	126	86	12 12
22	162	162	154	293	...	...	...	1 *a*	2	18 8	*x* 1102	943	23 13	17 2	1103	918	23 22	19 27	135	42	23 5
23	308	462	92	77	...	...	..	0 *a*	1	20 32	1021	*n* 912	11 29	16 14	1061	*n* 879	1 3	{16 / 16 7 / 18}	114	*n* 7	4 14
24	31	100	*z*	108	...	...	...	2 *c*	0	23 46	1026	935	11 59	14 22	1057	979	5 57	18 32	106	76	11 42
25	92	62	62	123	...	...	...	1 *a*	1	17 28	1088	942	11 16	17 23	1073	967	7 0	18 19	119	80	10 35
26	−15	185	77	−39	...	...	...	1 *a*	1	19 21	1060	933	10 44	13 23	1079	968	6 57	19 32	121	81	11 25
27	0	270	108	208	...	...	...	1 *a*	1	14 28	1049	953	11 13	14 25	1087	978	6 36	18 10	115	81	11 30
28	139	−8	92	123	...	...	...	1 *a*	1	19 53	1032	933	11 40	14 51	1058	983	8 25	18 3	120	82	3 42
29	169	162	85	300	...	...	...	0 *a*	1	20 31	1095	935	10 50	20 28	1078	983	7 50	5 15	102	79	23 28
30	300	139	123	177	...	...	..	0 *a*	1	23 24	1070	945	11 32	14 1	1062	989	8 0	18 27	129	79	24 0
M.	155*	99*	108*	188*	—	—	—	—	—	—	1043	941	—	—	1071	976	—	—	117	76	—

* 24 days. *See* note above. † Instrument earthed. ‡ Insulation very bad.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
1	L	15 10 to	...	...	...	...	...	
		15 24	...	...	...	...	...	
2	P	14 11 11	...	...	...	...	...	Timing indistinct on horizontal traces. P taken from vertical.
	F	14 55	...	...	...	...	...	
5		1 50 to	...	...	...	...	...	Very slight disturbance, chiefly E.-W.
		2 20	...	...	...	...	...	
9	Pe	21 43 1	...	...	...	...	...	Very distant earthquake. Remarkably smooth waves after L. Direction of oscillation N.W.-S.E. at 22 h. 16 m.; N.E.-S.W. at 22 h. 28 m.
	e	21 49 33	...	...	...	...	...	
	e	21 50 53	...	...	...	...	...	
	L	22 21	30	...	...	...	...	
	M	22 23	...	10	...	...	...	
	M	22 29	...	...	9	...	...	
	F	23 50	...	...	...	...	...	
11		0 30 to	...	...	...	...	...	Prolonged slight disturbance.
		1 30	...	...	...	...	...	
14		14 26 to	...	...	...	...	...	Slight disturbance.
		15 10	...	...	...	...	...	
15	Pe	11 53	...	...	...	...	...	
	L	12 18	32	...	...	...	...	
	M	12 32	19	...	6½	...	...	
	M	12 33	22	7	...	...	...	
	M	12 36	19	6	...	...	...	
15	L	16 53	...	...	...	...	...	Noticeable on E.-W. instrument.
16		23 40 to	...	...	...	...	...	Very slight disturbance.
		24	...	...	...	...	...	
19	e	1 39 33	...	...	...	...	...	
	e	1 45 48	...	...	...	...	...	
	L	1 58	24	...	...	...	...	
	M	2 2	20	...	4	...	...	
19		4 9 to	...	...	...	...	...	Very slight disturbance.
		4 50	...	...	...	...	...	
20	L	7 38	...	...	...	...	...	
21		1 46 to	...	...	...	...	...	Slight disturbance; initial phases imperfectly marked.
		2 10	...	...	...	...	...	
21		20 22 to	...	...	...	...	...	Slight disturbance.
		20 47	...	...	...	...	...	
21	P	21 45 11	...	...	...	...	8280	No well-marked long waves.
	PR_1	21 48 24	...	...	...	...	...	
	S	21 54 45	...	...	...	...	...	
	SR_1	21 58 55	...	...	...	...	...	
	M	22 1	16	...	24	...	...	
	F	24	...	...	...	...	...	
24	e	4 22 9	...	...	...	...	...	Slight disturbance.
	S (?)	4 27 21	...	...	...	...	...	
	L	4 37	30	...	...	...	...	
24	e	7 9	...	...	...	...	...	Slight disturbance; initial phases obscure.
	M	7 32	21	2½	...	...	...	
	M	7 33	18	...	2½	...	...	
25	L	19 2	17	...	...	...	...	
28		18 18 to	...	...	...	...	...	Slight disturbance; maximum at 18 h. 33 m.
		18 34	...	...	...	...	...	
30	P	3 12 45	...	...	...	...	9140	Epicentre 2° N., 92° W.
	S	3 23 3	...	...	...	...	...	
	L	3 34	...	...	...	...	...	
	M	3 38	25	17	...	...	...	
	M	3 49	20	...	19	...	...	
	F	6	...	...	...	...	...	

Microseisms of N. Component:—Eskdalemuir.

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

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
2	...	14 5c	Small movement.
9	22 21	22 33	Succession of small movements lasting till 22h 52m.
11	0 37	1 5	Succession of small movements lasting till 1h 10m.
14	...	15 7	Small movement.
15	12 26	12 38·4	Small earthquake.
19	2 1	2 10·3	,,
21	21 48	21 59·6	Prolonged disturbance.
24	...	7 39	Very small.
25	...	19 9	Succession of small movements.
30	3 12·6	3 51·8	Prolonged disturbance. Maximum amplitude on trace 1·0 mm.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	9·0	...	6·0	...	6·9	...	6·9	...	5·4	...	8·1	...	...	1·5	7·7	...	18·5	14	45
2	...	3·1	7·6	...	...	1·3	6·8	...	1·9	...	4·5	...	...	2·7	4·1	...	14·3	13	25
3	...	8·1	5·4	...	...	4·2	4·2	...	2·6	...	6·4	...	2·3	...	2·3	...	15·4	1	45
4	4·7	...	4·7	...	8·1	...	5·4	...	0·9	...	4·5	...	2·4	...	5·7	...	18·7	7	0
5	...	...	11·1	...	...	4·5	10·9	...	...	4·0	9·7	...	...	4·6	6·8	...	18·3	8	35
6	...	5·8	8·7	...	...	4·4	6·6	...	2·8	...	6·7	...	0·8	...	3·8	...	13·9	2	25
7	...	5·8	5·8	...	...	1·8	9·0	...	1·5	...	7·4	...	...	1·4	3·3	...	...	...	
8	...	4·2	4·2	...	...	4·0	4·0	...	...	0·8	3·8	...	...	0·6	3·2	...	9·3	1	0
9	...	2·3	5·5	...	...	4·0	4·0	...	...	3·7	3·7	...	...	3·7	3·7	...	9·3	6	15
10	...	6·7	2·8	...	...	5·7	3·8	...	...	2·8	2·8	...	...	1·8	1·8	...	11·8	7	0
11	...	5·8	5·8	...	...	5·8	1·2	...	...	5·6	...	...	...	8·7	1·7	...	14·4	23	10
12	...	10·6	2·1	...	...	9·0	1·8	...	...	7·6	5·1	...	...	10·3	2·0	...	17·7	6	10
13	...	10·1	...	6·7	...	9·8	...	6·6	...	7·2	...	7·2	...	4·0	...	4·0	18·5	3	55
14	...	4·4	...	4·4	...	3·7	...	3·7	...	4·2	...	0·8	...	2·4	1·0	...	10·7	4	45
15	...	0·4	2·0	...	...	1·9	1·3	...	...	3·8	...	5·7	...	4·0	...	6·0	12·2	19	50
16	...	...	...	6·6	...	1·9	...	9·3	...	3·6	...	8·8	...	2·4	...	3·6	15·2	9	55
17	...	1·8	...	4·3	...	3·1	...	4·7	...	2·6	...	8·8	...	3·0	...	...	9·7	23	55
18	...	8·2	...	...	...	8·2	...	...	...	5·2	...	...	...	4·6	...	...	13·3	22	15
19	...	10·1	6·7	...	...	9·1	3·8	...	...	4·5	0·9	...	...	1·8	2·7	...	17·2	6	45
20	...	3·3	3·3	...	...	5·3	5·3	...	...	1·2	6·1	...	0·8	...	3·8	...	11·3	7	0
21	...	...	3·0	...	3·7	...	3·7	...	7·6	...	3·1	...	4·5	...	1·9	...	14·0	15	20
22	6·9	...	...	...	8·7	...	...	1·7	7·4	...	...	1·5	7·2	...	...	...	16·7	9	15
23	3·2	...	0·6	...	6·2	...	...	...	1·1	...	...	2·8	...	0·3	...	1·6	10·0	13	35
24	...	0·3	...	1·6	...	2·5	1·7	...	...	2·3	2·3	...	2·5	...	6·1	...	10·7	20	40
25	...	...	7·9	...	...	...	5·9	...	5·2	...	3·4	...	4·3	...	2·9	...	11·6	2	40
26	4·8	...	2·0	...	8·5	...	...	...	5·9	...	...	...	...	4·2	0·8	...	14·9	10	25
27	...	6·1	...	1·2	...	7·4	1·5	...	...	6·1	1·2	...	...	7·1	1·4	...	12·3	9	50
28	...	6·9	2·9	...	...	8·2	3·4	...	...	1·8	4·3	...	2·9	...	4·3	...	13·6	5	50
29	1·5	...	7·7	...	2·0	...	4·8	...	4·8	...	2·0	...	...	1·0	...	4·8	12·5	1	45
30	...	4·2	0·8	...	1·3	...	6·5	...	4·0	...	4·0	...	5·5	...	3·7	...	13·1	19	50
S+N & W+E	138·3		131·4		151·2		128·5		118·1		125·6		103·3		94·7				
S−N & W−E	−78·1		81·8		−60·4		76·5		−15·9		54·4		−36·9		54·7				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	5·9	...	...	...	4·0	...	6·0	...	...	3·9	9·4	...	...	4·2	6·2	...	11·1	13
2	...	5·7	8·5	...	...	7·5	11·1	...	...	7·3	10·9	...	...	8·1	8·1	...	14·4	12
3	...	6·0	6·0	...	...	4·2	4·2	...	...	2·3	0·4	...	4·9	...	...	...	9·8	4
4	4·8	...	...	1·0	6·5	...	...	6·5	4·6	...	...	6·8	...	2·1	...	10·6	11·5	13
5	...	6·5	...	6·5	...	11·6	...	4·8	...	15·4	...	...	...	10·9	10·9	...	18·0	20
6	...	6·7	...	2·8	...	9·0	1·8	...	...	7·7	...	1·5	...	7·9	...	3·3	10·5	1
7	...	6·5	...	1·3	...	9·2	...	...	...	8·2	...	...	...	6·6	...	...	9·2	6, 8, 9, 13
8	...	7·6	...	3·1	...	7·6	...	3·1	...	7·4	...	4·9	...	5·2	...	3·4	9·2	5, 11, 16
9	...	7·1	...	1·4	...	6·2	...	...	...	6·5	1·3	...	...	4·5	0·9	...	7·9	2
10	...	2·1	0·9	...	...	4·6	...	...	...	6·4	2·6	...	...	5·7	2·4	...	7·9	14
11	...	8·3	1·7	...	...	10·3	2·0	...	...	9·4	3·9	...	...	11·6	4·8	...	13·8	24
12	...	14·0	5·8	...	...	16·1	...	...	...	15·1	...	...	...	12·9	...	2·6	16·1	9, 16
13	...	10·3	...	4·3	...	10·0	...	2·0	...	12·1	...	...	...	8·5	...	...	12·1	15, 16
14	...	5·2	...	2·1	...	6·9	6·9	...	...	8·3	8·3	...	...	10·5	...	...	12·1	17, 18
15	...	8·9	...	...	...	7·9	...	...	...	8·3	...	1·7	...	5·2	...	...	8·9	2, 3
16	...	4·3	...	...	...	4·5	1·9	...	...	4·7	7·1	...	...	3·8	5·7	...	9·2	18
17	...	3·8	5·7	...	...	5·2	3·4	...	...	5·1	5·1	...	...	3·7	3·7	...	8·2	1
18	...	2·0	4·8	...	...	5·1	7·6	...	...	6·0	6·0	...	...	7·6	5·1	...	10·2	11, 17, 18
19					No record — Clocks stopped.												...	..
20	...	0·7	0·7	...	...	1·1	1·7	...	...	1·0	...	...	...	0·8	4·2	...	4·6	23, 24
21	...	...	4·9	...	...	1·5	7·4	...	...	...	4·9	...	2·1	...	...	0·9	7·9	11, 12
22	3·0	...	...	1·3	5·1	...	...	1·0	5·7	...	...	2·4	3·6	...	...	...	7·2	16
23	3·0	...	...	2·0	4·9	...	...	...	4·3	...	...	1·8	1·1	...	...	1·1	6·2	11
24	1·1	...	...	1·7	1·8	...	...	2·7	...	1·9	...	4·5	...	5·8	...	5·8	9·2	23
25	...	...	...	6·6	...	3·0	...	7·3	...	3·3	...	3·3	...	1·1	5·5	...	9·2	6, 8
26	1·3	...	6·5	...	3·3	...	4·9	...	0·8	...	4·2	...	...	...	2·0	...	6·6	1, 2, 3
27	...	...	1·0	...	...	...	0·3	...	...	...	1·0	...	...	...	...	...	1·6	1, 24
28	...	1·8	1·8	...	...	3·5	...	0·7	...	7·6	3·1	...	...	5·8	5·8	...	9·5	20
29	...	4·0	1·6	...	...	3·8	2·6	...	...	2·1	0·9	...	...	1·2	0·5	...	8·5	1
30	...	1·1	...	2·8	...	3·2	...	0·6	...	0·8	...	0·6	...	0·2	0·2	...	3·9	11, 12, 13
S+N & W+E	131·7		86·8		167·6		90·5		166·2		96·6		145·6		93·7			
S−N & W−E	−93·5		13·0		−116·4		33·1		−135·4		41·6		−122·2		38·3			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	3·9	...	5·9	...	4·9	...	7·3	...	...	...	9·6	...	...	4·1	4·1	...	13·1	12	56
2	...	5·3	1·1	...	...	3·2	0·6	...	...	5·0	5·0	...	...	7·3	4·9	...	12·5	18	14
3	...	9·0	1·8	...	...	5·8	...	...	...	4·5	4·5	...	...	2·4	5·8	...	14·2	1	26
4	2·7	...	6·6	...	2·3	...	11·5	...	2·1	...	10·6	...	...	5·3	12·8	...	19·1	22	0
5	...	4·8	11·5	...	...	8·8	8·8	...	...	7·0	10·4	...	...	9·8	9·8	...	21·1	1	40
6	...	5·6	8·3	...	...	5·6	5·6	...	...	2·2	5·4	...	...	2·7	6·6	...	19·0	2	35
7	...	2·7	6·6	...	...	2·3	2·3	...	...	3·5	3·5	...	...	4·1	4·1	...	12·7	14	44
8	...	1·5	3·5	...	...	3·5	2·3	...	...	2·3	3·5	...	...	5·0	2·1	...	8·7	22	50
9	...	2·1	5·0	...	...	4·1	4·1	...	...	4·7	4·7	...	...	6·5	6·5	...	13·0	20	17
10	...	6·6	4·4	...	...	5·6	3·7	...	...	4·7	4·7	...	...	5·3	5·3	...	11·9	4	38
11	...	5·3	5·3	...	...	2·5	...	...	...	5·7	...	1·1	...	6·7	...	...	13·4	19	38
12	...	3·3	...	...	...	8·8	...	...	...	7·5	...	...	...	5·9	5·9	...	14·3	10	52
13	...	5·8	...	2·4	...	5·9	...	3·9	...	6·9	...	2·9	...	3·0	...	3·0	11·0	0	50
14	...	1·0	...	2·3	1·0	...	...	2·3	...	4·2	...	...	...	1·3	...	3·1	4·8	0	10
15	0·5	...	...	2·5	0·7	...	...	1·6	...	...	...	2·1	...	1·6	...	3·9	3·5	21	57
16	2·4	...	...	5·8	2·6	...	...	13·1	2·7	...	...	13·5	2·4	...	...	12·3	20·3	14	10
17	5·1	...	...	12·3	...	...	...	10·8	...	2·2	...	5·4	...	0·6	...	3·2	17·5	7	23
18	...	1·0	...	2·3	...	5·0	...	2·1	...	5·8	...	2·4	...	6·2	2·6	...	11·2	11	15
19	...	5·0	...	...	...	7·5	...	...	...	6·6	2·7	...	...	4·5	4·5	...	12·4	8	58
20	...	3·5	2·3	...	...	3·9	1·6	...	...	2·3	2·3	...	...	0·6	0·6	...	10·2	1	33
21	...	0·7	1·6	...	2·3	...	2·3	...	5·8	...	...	...	6·7	...	...	...	9·6	20	38
22	7·1	...	...	...	11·3	...	...	...	7·1	...	...	...	5·4	...	2·2	...	14·0	9	12
23	6·6	...	2·7	...	4·1	...	4·1	...	2·2	...	5·4	...	...	3·5	8·5	...	15·9	23	59
24	...	4·3	10·4	...	...	2·7	6·6	...	...	...	4·2	...	...	ca	lm.	...	15·3	1	51
25	...	...	1·7	...	...	...	2·5	...	...	2·3	2·3	...	...	1·5	1·5	...	2·9	23	37
26	4·5	...	4·5	...	...	1·3	6·6	...	...	3·2	7·7	...	...	4·6	6·9	...	13·0	19	38
27	...	2·7	6·6	...	...	6·3	...	...	...	6·9	2·9	...	...	6·2	4·2	...	12·7	15	20
28	...	7·7	5·1	...	...	7·3	3·0	...	...	5·6	5·6	...	...	3·4	8·1	...	12·5	12	12
29	...	...	5·0	...	4·7	...	4·7	...	6·3	...	9·4	...	1·6	...	8·1	...	13·5	12	23
30	...	5·3	8·0	...	...	5·3	5·3	...	...	...	5·8	...	2·7	...	1·8	...	18·3	0	55
S+N & W+E	116·0		135·5		129·3		116·7		119·3		137·6		120·9		142·4				
S−N & W−E	−50·4		80·3		−61·5		49·1		−66·9		82·8		−83·3		91·4				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust. (Gorleston.)	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	1·8	...	1·8	...	4·3	...	2·9	...	3·7	...	3·7	...	4·0	...	4·0	...	13·5	22	45
2	...	...	3·3	...	...	1·1	2·8	...	...	0·7	3·5	...	0·4	...	2·3	...	13·0	20	35
3	...	0·4	2·3	...	...	4·0	1·6	...	...	3·3	...	3·3	2·8	...	1·1	...	11·0	13	0
4	0·8	...	1·8	...	3·1	...	4·7	...	6·8	...	1·3	...	5·5	...	1·1	...	18·5	16	25
5	3·6	...	2·4	...	4·9	...	4·9	...	2·6	...	3·8	...	1·3	...	3·0	...	15·0	12	25
6	0·8	...	3·8	...	...	...	6·2	...	1·3	...	3·0	...	1·4	...	2·2	...	9·5	15	55
7	0·5	...	2·6	...	3·6	...	2·4	...	4·8	...	1·0	...	...	...	1·0	...	15·0	15	30
8	2·0	...	3·0	...	...	...	7·9	...	2·2	...	1·4	...	...	0·9	0·9	...	12·0	14	50
9	...	...	2·0	...	...	1·8	2·7	...	...	2·6	...	3·8	0·6	...	0·4	...	8·5	15	35
10	...	1·3	0·9	...	...	2·9	4·3	...	...	4·2	0·8	...	...	0·9	0·9	...	10·8	10	45
11	...	...	2·3	...	...	1·6	1·6	...	...	4·1	2·7	...	...	2·9	4·3	...	12·3	18	15
12	...	2·6	3·8	...	...	3·4	5·2	...	...	4·7	7·1	...	...	4·9	4·9	...	15·5	19	50
13	...	8·2	3·4	...	...	10·2	...	...	...	8·2	...	...	...	7·2	...	...	21·8	5	50
14	...	6·9	...	...	...	5·2	2·1	...	...	4·1	2·7	...	...	2·4	3·6	...	14·8	7	50
15	...	3·2	2·2	...	...	4·7	3·1	...	...	6·7	2·8	...	...	5·5	2·3	...	16·5	12	35
16	...	6·1	1·2	...	...	5·7	...	2·4	...	5·5	...	1·1	...	4·2	...	0·8	12·6	0	40
17	...	3·2	...	0·6	...	2·3	0·4	...	...	3·2	0·6	...	...	2·6	...	0·5	8·2	16	10
18	...	2·6	...	...	...	3·9	...	...	...	4·8	...	2·0	...	1·6	...	0·3	8·5	1	25
19	0·2	...	1·0	...	...	6·5	...	1·3	...	4·0	1·6	...	...	1·3	1·9	...	11·9	13	15
20	...	...	2·0	...	0·8	...	3·8	...	...	2·0	3·0	...	...	0·8	1·8	...	8·6	11	0
21	...	0·5	2·6	...	...	...	4·9	...	...	0·8	3·8	...	...	0·1	...	0·7	8·5	9	30
22	1·1	...	1·1	...	3·6	...	...	1·5	6·1	...	...	2·5	5·5	...	...	1·1	9·6	13	0
23	0·6	...	...	0·8	2·4	...	...	1·0	1·3	...	...	0·3	0·9	...	0·4	...	8·3	11	10
24	1·3	...	0·9	...	...	...	1·0	...	4·9	...	...	...	3·3	...	1·4	...	11·9	14	10
25	2·5	...	1·7	...	2·5	...	2·5	...	2·8	...	1·1	...	2·6	...	...	...	8·7	11	45
26	1·1	...	1·7	...	5·1	...	...	1·0	5·2	...	...	2·1	0·9	...	...	0·4	11·1	12	25
27	0·3	...	...	0·1	...	4·2	...	0·8	...	4·6	...	...	...	2·3	0·4	...	7·7	16	50
28	...	2·5	2·5	...	...	3·3	3·3	...	...	2·8	2·8	...	...	0·6	1·5	...	10·6	10	15
29	...	...	3·9	...	...	...	5·6	...	0·8	...	3·8	...	3·7	...	5·5	...	11·6	20	25
30	3·8	...	0·8	...	4·0	...	4·0	...	...	...	4·6	...	0·6	...	3·2	...	15·4	15	40
S+N & W+E	57·9		56·5		95·1		77·9		108·8		70·2		71·7		51·9				
S−N & W−E	−17·1		53·5		−26·5		69·9		−23·8		40·0		4·7		44·3				

9. Soundings with Pilot Balloons.

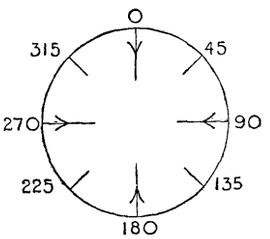
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind. Geostrophic. From N.	Geostrophic. m/s.	By Anemometer. From N.	By Anemometer. m/s.	At Heights above M.S.L. 500 m. From N.	500 m. m/s.	1000 m. From N.	1000 m. m/s.	2000 m. From N.	2000 m. m/s.	3000 m. From N.	3000 m. m/s.	4000 m. From N.	4000 m. m/s.	5000 m. From N.	5000 m. m/s.	Cloud Observations. Type.	From N.	mr/s.
		h. m.	°		°		°		°		°		°		°		°			°	
2	S. Farnboro'	6 35	310	8	315	1·0	315	5·0	300	6·0	295	11·5	...	...	...	...	...	...	Ci.	270	...
2	Falmouth	7 15	330	13	360	4·0	345	6·0	330	6·5	325	10·5	...	...	...	...	...	...	...	...	...
7	S. Farnboro'	6 35	270	10	250	4·5	250	8·5	250	9·5	255	9·0	...	...	..	...	...	...	Ci.	225	...
8	,,	6 35	...	...	250	2·0	275	5·0	255	6·5	290	4·0	270	4·0	250	7·5	...	...	...	..	...
10	,,	6 35	330	6	310	light	330	7·0	320	6·5	335	6·0	...	...	...	...	...	...	A.-Cu.	325	...
14	Eskdalemuir	7 30	10	8	20	6·5	20	4·8	35	6·5	45	8·0	...	...	...	...	...	...	Ci.-St.	55	3·0
16	,,	12 55	80	4	20	5·0	40	3·0	25	3·5	40	8·5	40	8·5	...	...	...	...	Ci.	340	2·6
17	S. Farnboro'	6 25	90	12	...	...	75	7·5	70	10·0	80	12·5	...	...	...	...	...	...	Ci.	260	...
17	Eskdalemuir	7 25	...	...	135	0·6	305	4·3	330	5·0	340	7·0	355	8·0	10	7·5	...	...	...	...	...
17	Benson	7 30	90	12	40	4·5	75	6·0	65	9·5	70	12·5	...	...	...	...	...	...	Fr.-Cu.	90	...
18	Falmouth	7 20	60	8	10	2·5	85	4·7	5	10·0	25	15·5	...	...	...	...	...	...	...	...	...
19	S. Farnboro'	6 35	360	6	315	4·5	335	9·5	340	7·0	310	8·5	...	...	...	...	...	...	St.-Cu.	340	...
20	,,	6 20	280	8	...	0·0	320	4·5	300	5·5	245	8·0	...	...	...	...	...	...	...	...	...
20	Benson	7 20	290	8	290	1·0	305	3·8	315	7·0	305	9 0	..	...	...	...	...	...	...	...	...
22	S. Farnboro'	7 30	200	8	125	0·5	205	6·5	220	9·5	235	10·0	...	...	...	...	...	...	...	...	...
29	,,	6 25	280	10	250	4·0	280	11·0	275	8·5	280	8·5	...	...	...	...	...	...	...	...	...
30	,,	18 10	290	11	250	8·0	270	8·0	280	13·5	280	14·0	280	19·0	...	...	...	...	...	...	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Benson	57 m.	25 m.
Eskdalemuir	242 m.	15 m.
Falmouth (Pendennis)	51 m.	12 m.
S. Farnborough	70 m.	31 m.

Notes on Pressure Distribution.

June 2 7 h. Depression over Southern Norway. Anticyclone over North-eastern Atlantic.
7 7 h. Depression over Northern North Sea.
8 7 h. Depression over Northern North Sea. Secondary over Bay of Biscay.
10 7 h. Anticyclone S.W. of British Isles. Depression over Scandinavia.
14 7 h. Anticyclone S.W. of Iceland. Lower pressure over Continent.
16 7 h. Anticyclone over North Scotland.
17 7 h. Anticyclone Westward of Scotland. Shallow depression over Bay of Biscay.
18 7 h. Anticyclone Westward of British Isles. Shallow depression over Western Mediterranean.
19 7 h. Anticyclone Westward of British Isles. Depression over Scandinavia and North Italy.
20 7 h. Anticyclone stretching from S.W. coasts to Azores. Depression over Scandinavia and Baltic.
22 7 h. Depression Westward of British Isles. Anticyclone over Germany.
29 7 h. Depression over North Sea. Secondary Westward of Ireland.
30 18 h. Trough of low pressure running W.S.W. and E.N.E. across Scotland.



Wind Protractor.

10. Nephoscope Observations. May 1916.*

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity-height-ratio. Degrees from N.	Milliradians per Second.	Components. W.-E.	Components. S.-N.	Remarks.
		°	mr/s.	mr/s.	mr/s.	
1	Cu.	5	5·0	− 0·4	− 5·0	
2	Fr.-St.	203	12·0	+4·7	+11·0	
4	Cu.-Nb.	264	3·0	+3·0	+ 0·3	Cu. to Cu.-Nb.
9	Nb.-Cuf.	341	6·3	+2·1	− 6·0	Really Cu., with few spots rain.
10	Cu.	272	3·7	+3·7	− 0·1	Transition type between Cu. and St.-Cu.
16	Ci.	263	4·6	+4·6	+ 0·6	Relatively high velocity for Cirrus.
	Cu.	274	8·3	+8·3	− 0·6	
18	Ci.-Cu.	310	3·0	+2·3	+ 1·9	Ci.-Cu. to A.-Cu.
20	A.-Cu.	223	5·0	+3·4	+ 3·7	Ci.-Cu. to A.-Cu. ; mainly the latter.
23	A.-Cu.	244	3·6	+3·2	+ 1·6	A.-Cu. to St.-Cu. in lenticular masses.
26	St.-Cu.	151	6·0	−2·9	+ 5·2	A.-Cu. to high St.-Cu.
27	Ci.	175	5·0	−0·4	+ 5·0	True Ci., rather coarse and moving fast, with structureless and almost invisible Cirro-Nebula above. A finely-coloured elliptical solar halo was visible.
29	St.-Cu.	243	2·3	+2·0	+ 1·0	

* For June, see p. 55.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 7. JULY 1916.] Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	5·8	35	1740	42	85	12 13	85	4·9	30	...	...	...	0·3	2	...	...	...	...	4·8	29
2	7·7	47	1547	38	85	13 10	81	7·1	43	...	...	...	0·1	1	...	...	...	...	5·2	31
3	0·4	2	1088	27	53	11 50	53	0·3	2	...	...	...	0·5	3	...	...	...	...	4·3	26
4	5·8	35	1296	32	84	11 10	76	7·3	45	73	65	Clear	3·8	22	...	...	...	...	10·9	66
5	5·3	32	1313	32	82	12 0	82	5·3	32	...	...	...	0·8	5	...	...	...	...	0·6	4
6	0·7	4	1028	25	39	8 11	31	0·7	4	...	...	...	2·9	17	...	...	...	...	1·9	12
7	2·9	18	1056	26	89	12 55	88	2·5	15	79	70	Clear	0·0	0	...	...	...	...	10·3	62
8	7·4	45	1602	40	95	12 36	85	7·9	48	...	...	...	0·1	1	...	...	...	...	6·2	38
9	6·4	39	1496	37	86	9 46	74	5·2	32	...	...	...	0·2	1	...	...	...	...	7·7	47
10	4·8	29	1484	37	*x* 96	11 37	96	4·3	26	84	74	Clear	0·1	1	...	...	...	...	6·4	39
11	1·4	9	1043	26	83	13 34	59	0·8	5	...	...	...	0·0	0	...	...	...	...	1·3	8
12	2·1	13	1039	26	81	9 30	42	2·2	14	...	...	...	0·0	0	...	...	...	...	0·3	2
13	0·0	0	653	16	47	11 47	47	0·0	0	...	...	...	3·9	23	...	...	...	...	4·7	29
14	1·7	10	804	20	75	11 21	31	1·3	8	...	...	...	3·8	22	...	...	...	...	11·4	70
15	1·9	12	1121	28	48	11 3	33	1·9	12	...	...	...	4·2	25	...	...	...	...	0·6	4
16	0·5	3	579	15	30	9 25	16	0·9	6	...	...	...	0·1	1	...	...	...	...	0·0	0
17	0·0	0	483	12	38	15 53	23	0·0	0	...	...	...	0·0	0	...	...	...	...	12·8	79
18	6·1	38	1698	43	80	12 40	74	6·2	39	...	...	...	2·8	17	...	...	...	...	10·6	65
19	11·2	70	1788	46	86	11 55	86	11·3	71	...	...	...	9·9	59	...	...	...	...	10·0	62
20	7·6	48	1458	37	56	12 30	56	8·2	51	29	25	Ci.	0·9	5	...	...	...	...	10·9	68
21	1·1	7	985	25	63	10 50	52	4·3	27	...	...	...	1·7	10	...	...	...	...	13·7	86
22	7·4	47	1456	38	86	12 8	86	7·2	45	...	...	...	4·8	29	...	...	...	...	*x*14·0	88
23	0·0	0	443	12	23	11 33	23	0·0	0	...	...	...	8·7	53	...	...	...	...	10·3	64
24	0·0	0	*n* 414	11	*n* 20	13 45	16	0·0	0	...	...	...	12·6	77	...	...	...	...	8·1	51
25	7·1	45	1690	44	76	11 39	76	6·2	39	...	...	...	12·2	74	...	...	...	...	3·7	23
26	8·5	54	1575	41	62	12 5	62	9·6	61	...	...	...	9·5	58	12 15	Hazy	1·22	69	0·0	0
27	7·0	45	1465	39	72	13 25	63	7·4	47	...	...	...	8·8	54	...	...	...	...	11·3	72
28	6·3	40	1489	39	60	12 42	58	7·7	49	32	27	Hazy	*x*13·1	81	12 5	Ci.-haze	1·22	63	2·4	15
29	13·2	85	1978	53	69	11 38	69	*x*13·7	88	66	55	Ci.	5·6	35	...	...	...	...	1·6	10
30	*x*14·0	90	*x* 2192	59	73	12 1	73	13·6	88	...	...	...	3·9	24	...	...	...	...	0·5	3
31	11·5	75	1700	46	72	11 1	68	11·6	75	66	55	Clear	9·3	58	...	...	...	...	1·3	8
Means	5·03	32	1281	33	68	—	60	5·16	33	—	—	—	4·03	24	—	—	—	—	6·06	38
Normal	5·65	36	—	—	—	—	—	6·48	41	—	—	—	5·00	30	—	—	—	—	5·13	32
	←5 years→							←35 years→					←5 years→						←35 years→	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Declination West.	Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	1008·0	1008·7	87·0	85·9	89	83	13·6	13·4	86	91	23	6	21	4	7	9	0·6	●² 0 h.–3 h. 30 m. Fine midday.	...	...	...
2	1006·0	1007·7	86·9	86·5	90	85	14·5	12·6	92	82	23	5	32	3	7	8	1·5	Clear *a.* to c. ●⁰ 18 h. Fine sunset.	...	...	...
3	1007·8	1007·8	85·8	85·1	*n* 88	85	13·2	12·8	90	91	30	5	28	5	10	10●	1·3	● showers.	...	...	...
4	1008·9	1011·4	86·8	85·9	89	83	12·5	12·8	80	87	32	2	28	3	7	1	0·2	Fine. ☌ *n.*	...	...	...
5	1013·9	1013·6	87 6	86·6	90	*n* 82	12·4	12·1	75	78	—	1	15	2	10	8	1·7	●⁰ 5 h. Mostly o.	...	...	...
6	1005·4	1001·6	88·5	87·5	91	85	14·3	15·2	82	93	—	1	—	0	10●⁰	8	2·0	● *n.* d. and ≡⁰ *a.* c. *p.*	...	...	...
7	1001·8	1005·8	87·2	85·6	89	85	12·1	11·0	75	76	2	7	32	6	4	4	0·2	Fine and sunny.	...	...	...
8	1008·5	1010·0	84·5	85·6	*n* 88	84	12·0	11·3	89	78	27	5	25	4	8●	9	0·7	● showers. c. to o.	17863	19 50·2	68 5·6
9	1010·9	1012·9	87·0	85·9	90	84	12·4	11·8	78	80	24	3	26	4	10	4	2·4	Fine to c.	...	...	...
10	1015·7	1018·7	85·4	86·4	89	84	11·8	11·3	83	74	26	5	24	6	9	10	—	● showers till 9 h. Fine 10 h.–15 h.	...	...	...
11	1019·1	1017·1	88·0	87·6	91	86	13·3	14·8	79	90	21	7	15	4	10	10	*x* 14·6	●⁰ showers 10 h.–12 h. Fair to c.	...	...	...
12	1010·1	1012·4	88·2	86·6	89	86	16·3	13·7	95	89	21	9	24	8	10●⁰	10	0·2	●² 1 h.–2 h. Mostly o. ●⁰ showers *p.*	...	...	...
13	1014·9	1019·0	86·7	86·1	89	86	14·4	12·6	93	84	26	5	29	2	10	4	—	d. *a.*, then fine to c.	...	...	...
14	1021·3	1022·6	87·5	86·0	90	84	12·0	13·2	73	89	32	3	—	0	8∞	3∞	—	Fine. Fine sunset.	...	...	...
15	1022·2	1020·6	88·4	88·1	91	85	14·2	16·2	82	95	14	4	15	4	10	10	1·2	Mostly o. d. from 22 h.	...	...	...
16	1019·7	1020·7	88·8	86·9	91	86	17·1	14·8	96	94	—	1	29	6	10	8	0·1	d. *n.* Sultry *a.* o. ≡⁰ *p.*	...	...	...
17	1023·2	1024·3	87·1	85·6	89	84	11·7	10·8	73	75	2	4	32	5	8	2	—	Fine.	...	...	...
18	1023·6	1022·5	87·2	86·8	91	*n* 82	12·4	13·9	77	89	29	3	27	2	6	6	—	Fine. ⊕⁰ *a.*	...	...	...
19	1021·7	1022·4	88·6	88·2	92	85	13·3	14·7	76	86	27	3	—	1	8	8	—	Fine. c. evening. o. *n.*	...	...	...
20	1023·3	1023·9	89·1	87·7	92	84	16·0	14·9	88	90	—	0	—	0	9∞	6∞	—	Fine. Pretty sunset.	...	...	...
21	1023·8	1023·2	90·7	88·5	94	84	16·5	15·5	82	89	—	1	—	0	5	2	—	☌ early. Fine. Fine sunset.	...	...	...
22	1022·6	1023·0	91·8	89·6	*x* 95	85	17·9	16·9	83	90	—	1	—	0	5	2	—	☌ early. Fine, hot, and close.	17870	19 48·6	68 6·4
23	1023·3	1022·7	92·0	90·1	*x* 95	87	18·5	17·4	85	90	—	1	—	0	4∞	7∞	—	☌ *a.* Fine, hot, and close.	...	...	...
24	1021·2	1020·2	91·3	88·4	94	87	17·7	15·6	85	90	—	0	—	0	9∞	5∞	—	Fine and sultry. Fine sunset.	...	...	...
25	1019·2	1018·9	90·5	89·3	94	85	16·7	16·5	84	90	—	1	15	2	10∞	3∞	—	Mostly o. Fine 14 h.–16 h. Fine sunset.	...	...	...
26	1017·3	1019·3	90·3	88·5	92	87	17·0	15·7	87	90	15	4	—	1	10∞	7	0·4	Dull and o. d. 18 h. Fine sunset.	...	...	...
27	1022·1	1025·8	90·5	87·5	92	85	13·9	12·1	70	74	30	2	28	4	4	3	—	☌². Fine. Fine sunset.	...	...	...
28	1028·1	1030·2	89·9	89·3	93	83	12·6	12·8	*n* 66	70	24	3	24	2	8	10	—	Fine to c.	...	...	...
29	1030·0	1029·2	90·5	89·7	93	83	16·5	18·5	83	98	13	3	—	1	10	10●⁰	1·2	Fine to o. *a.* ≡⁰ from 19 h. d. *n.*	...	...	...
30	1027·3	1024·6	91·2	90·0	94	88	18·4	18·2	89	95	—	1	—	1	10	10	0·6	Mostly o. Sultry. d. ≡⁰ at times.	...	...	...
31	1023·0	1021·3	90·4	89·4	94	*x* 89	18·5	16·1	94	87	—	1	—	1	10	1	0·2	Damp and sultry. o. to c.	...	...	...
Means	1017·5	1018·1	88·6	87·4	91·2	84·9	14·6	14·2	83	86		3·2		2·6	8·3	6·4	29·1	Monthly Totals or Means.	17866	19 49·4	68 6·0
Normal	1014·0	1014·5	88·3	87·4	90·7	85·1	14·5	14·2	83	86		4·6		4·0	—	—	99·9	Normals.			
	←45 years→						←30 years→				←35 years→						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—12/17.—N. & Co., Ltd. Gp. XV.

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
			a.	a.	a.	a.									Tenths of Sky covered.			a.	a.	a.		
	mb.	mb.	200+	200+	200+	200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.			mm.	200+	200+	200+	cm.	cm.
1	1014·5	1009·8	89·5	87·2	92	82	11·6	12·7	*n* 62	79	17	6	18	5	8	8	0·1	77	87·5	85·7	232	232
2	1009·4	1008·8	88·6	88·5	93	82	11·8	13·7	67	78	20	4	20	2	9	10	—	77	87·4	85·9	231	—
3	1007·5	1007·0	89·0	86·0	93	83	13·7	12·9	76	87	—	1	—	0	9	9	0·7	81	87·6	85·8	230	—
4	1007·3	1007·5	87·0	90·2	95	*n* 81	13·0	13·5	82	69	—	0	—	1	2	8	—	*n* 76	87·6	85·9	230	—
5	1011·1	1015·6	89·5	89·6	94	85	14·0	14·6	75	78	26	2	—	1	7	1∞	0·8	80	88·7	85·9	229	—
6	1014·8	1009·0	89·3	87·3	91	86	12·7	13·8	69	85	19	4	16	4	10	10●⁰	*x* 10·6	81	88·7	85·9	229	—
7	999·8	998·9	88·4	89·5	93	*x* 87	15·8	15·6	91	84	14	3	19	4	10●	9	2·7	86	88·2	86·0	229	—
8	1002·1	1006·4	88·0	88·2	93	85	12·2	11·3	72	66	27	3	—	1	10	5	—	84	88·9	86·1	228	—
9	1010·9	1012·5	88·9	87·4	92	82	11·4	12·0	64	74	20	4	19	2	8	2	—	78	88·7	86·2	227	—
10	1013·3	1015·8	88·0	87·5	92	85	12·2	11·3	72	69	19	4	24	4	9	8	1·4	81	88·1	86·2	226	—
11	1017·3	1018·9	87·4	87·8	91	86	10·9	11·9	67	71	22	4	24	2	10	10	—	84	88·3	86·3	225	—
12	1016·5	1009·2	90·2	88·3	91	86	12·3	15·3	63	89	19	6	18	5	7	10	0·2	85	88·2	86·4	224	—
13	1009·6	1012·3	88·7	89·0	91	86	14·1	16·4	80	91	22	5	21	2	10	10≡⁰●	6·8	86	88·0	86·4	223	—
14	1014·9	1018·4	86·5	87·1	90	84	12·3	12·5	80	78	28	3	—	1	10	10≡⁰	—	81	88·0	86·4	221	—
15	1021·5	1021·3	87·0	88·1	92	82	10·8	13·3	68	78	27	3	—	1	10	7	3·3	77	87·4	86·4	221	—
16	1019·5	1015·3	86·9	89·2	90	84	14·6	17·1	93	94	21	3	23	2	10≡⁰●⁰	10	3·4	81	87·6	86·3	221	—
17	1016·4	1017·7	88·5	88·3	91	*x* 87	15·4	15·3	88	89	27	2	29	2	10	10≡⁰	0·4	87	88·0	86·3	221	—
18	1019·3	1018·4	86·7	87·1	92	85	11·7	12·0	75	75	3	4	—	0	9	1∞	—	84	88·1	86·5	221	—
19	1018·3	1019·1	89·1	88·7	94	85	12·0	14·1	66	80	30	2	—	0	3	0	—	80	88·8	86·4	222	—
20	1021·3	1022·7	89·6	90·8	96	84	13·8	15·1	74	75	24	2	—	1	0≡⁰	6∞	—	79	89·0	86·4	223	—
21	1023·4	1022·9	92·8	91·4	97	85	14·4	18·2	63	87	14	2	2	2	? 9∞	10≡⁰	4·9	80	89·3	86·5	224	—
22	1023·5	1022·1	87·8	88·8	93	85	13·8	12·4	83	70	4	3	3	3	10	0	—	87	90·0	86·6	224	—
23	1023·0	1022·3	84·5	87·8	*n* 88	83	11·0	13·3	81	80	6	3	4	2	10	10	—	80	89·4	86·7	223	—
24	1022·4	1021·3	85·1	86·4	89	84	11·9	12·5	85	82	2	2	—	0	10	8	—	80	88·6	86·8	222	—
25	1021·1	1020·4	88·7	88·8	95	84	13·6	14·6	77	82	2	2	—	1	10	0≡⁰	—	79	88·2	86·8	220	—
26	1020·4	1018·8	89·4	91·1	97	83	14·1	16·1	76	78	—	1	10	2	?8≡⁰	1≡⁰	—	79	88·9	86·9	219	—
27	1019·1	1020·4	91·0	92·0	98	*x* 87	16·0	16·3	78	75	—	1	—	1	? 7≡⁰	7	—	82	89·8	86·9	218	—
28	1023·8	1025·5	91·6	94·1	98	*x* 87	17·2	15·4	81	*n* 62	13	2	32	3	10≡⁰	9	—	83	90·3	87·0	216	—
29	1027·6	1026·1	91·2	91·0	98	86	14·5	14·7	70	72	—	1	—	1	? 6∞	1	—	81	90·6	87·0	215	—
30	1025·6	1021·7	92·6	93·4	*x* 100	85	16·0	17·1	71	72	—	1	—	1	0	0	—	80	90·8	87·1	214	—
31	1021·6	1022·1	95·1	94·2	*x* 100	*x* 87	17·1	16·5	65	66	—	1	—	1	0∞	1	—	83	91·4	87·3	213	213
Means	1016·7	1016·4	88·9	89·2	93·5	84·6	13·4	14·2	75	78		2·7		1·8	7·8	6·2	35·3	81·3	88·7	86·4	223	—
Normal	1014·7	1014·5	90·1	89·5	94·7	85·4	13·7	14·1	71	76		3·4		2·4	—	—	60·1	—	90·0	87·3	—	—
	45 years						30 years				35 years						45 years		12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

																			Remarks.
1	981·6	974·1	84·3	82·7	86	78	10·2	10·9	77	91	14	3	1	3	10	10	18·7		●² from 11 h. Dull and o.
2	976·5	979·7	83·7	82·2	85	81	10·9	10·5	85	91	31	4	—	1	10	10	0·6		d. 7 h.–9 h. ●⁰ 15 h. o.
3	979·9	980·7	84·8	83·3	88	80	11·4	11·8	83	95	—	0	3	2	10	8	6·3		Dull and o. ● *p*.
4	981·0	981·8	85·8	84·6	91	81	12·0	12·3	82	91	—	1	—	0	7∞	10	3·7		Fair *a*. ●⁰ 11 h. ● showers *p*.
5	983·0	986·4	84·4	80·7	86	77	10·2	8·4	76	80	26	5	24	2	9	6	—		Mostly o.
6	984·5	979·3	84·6	83·2	85	74	10·2	11·2	75	91	16	3	—	0	6	10●	16·3		Fair to o. ● later.
7	973·2	971·3	85·7	84·3	88	83	13·7	12·5	94	94	—	2	2	5	10	10●≡⁰	*x* 53·3		o., with ●² at times.
8	971·5	974·9	85·5	81·8	87	82	11·1	10·6	77	94	24	2	32	2	10	10●	3·0		Dull. Gloomy and damp *n*.
9	977·0	980·5	83·3	82·7	86	81	10·6	10·7	85	89	19	5	19	5	10	10	2·7		d. and ≡⁰ early. ● showers. o.
10	978·5	980·4	83·4	82·6	85	82	10·8	10·9	86	92	19	9	21	7	10	10●⁰	12·3		● *a*. and *p*. o.
11	983·1	985·4	83·1	83·5	86	82	10·6	10·4	86	82	22	7	21	5	10●	10	11·3		● showers. o.
12	980·2	977·2	84·8	84·3	86	83	13·2	12·8	96	96	19	6	5	3	10●	10●⁰	13·3		● *a*. and *p*. o.
13	982·1	985·5	86·4	81·8	90	80	10·7	10·1	70	89	—	1	29	2	9	7	1·0		Fair to o. *a*. T● showers *p*.
14	987·8	989·4	85·9	83·0	90	81	10·0	10·5	68	86	1	4	26	7	9	2	—		c. *a*. Fair to o. *p*. T 18 h. Fine *n*.
15	991·2	991·4	86·0	85·6	90	77	11·0	13·2	74	91	24	5	18	3	9	10	2·6		o. *a*. Bright intervals *p*. ● 19 h.
16	987·9	987·9	87·4	87·6	92	84	15·6	14·5	96	88	17	2	—	1	10	9	0·1		●² 8 h. ≡⁰ to o.
17	990·4	992·9	85 8	83·6	87	82	13·2	11·5	90	91	4	3	—	0	10	10	—		Dull and damp, with ≡⁰
18	991·8	989·2	87·2	83·2	88	82	10·9	11·9	68	96	23	4	19	5	6∞	10●⁰≡⁰	1·5		Fine *a*. to dull. ● evening.
19	989·2	991·9	86·6	84·3	91	81	11·0	12·2	71	92	25	5	—	1	5	6	—		Fair to fine.
20	994·3	995·2	89·4	89·1	95	79	16·3	15·8	88	87	22	2	—	1	10	8	0·2		Mostly o. Fine evening.
21	997·2	997·7	90·4	89·6	94	87	17·3	17·3	88	92	6	2	—	1	10	10	5·8		Mostly o. ● showers *p*.
22	996·9	996·1	92·7	88·9	97	86	18·9	17·9	83	100	—	1	—	1	5∞	8	2·2		Fine to o. and ● showers *a*. Fine *p*.
23	996·4	996·6	94·1	88·5	98	84	17·8	15·7	72	90	—	2	30	3	4	3	—		Fine. T *a*. and *p*. ⌓ *n*.
24	995·8	994·0	92·9	85·5	96	82	14·7	12·5	64	87	7	3	29	2	1	2	—		Fine. ⊕ 19 h. 45 m.
25	993·4	993·0	90·9	87·8	96	81	16·1	14·5	79	87	—	1	—	1	? 0≡⁰	2≡⁰	0·1		Fine, warm, and close.
26	992·6	991·3	88·5	87·6	95	83	15·4	14·3	88	87	18	2	—	1	8≡⁰	10∞	—		≡ 1 h. Fine to o., with ∞≡⁰.
27	992·4	994·4	87·8	86·2	95	81	16·0	12·4	96	82	—	1	—	0	10≡⁰	2	—		Dense ≡⁰ and ≡ early to fine.
28	997·0	999·3	89·2	84·2	92	79	10·9	10·3	*n* 60	78	26	2	—	1	4	3	—		Fine. ⊕ 13 h.
29	998·9	997·6	88·5	88·6	93	81	11·9	16·4	68	93	20	7	17	4	6	10	—		Fine to dull and o.
30	994·5	992·6	89·4	88·4	94	88	15·4	15·8	83	91	20	6	24	5	10	10	0·7		Mostly o.
31	993·6	994·2	89·1	84·6	93	82	13·6	12·2	75	90	—	1	—	0	7	10	—		o. to fine.
Means	987·5	987·8	87·1	85·0	90·4	81·4	13·0	12·6	80	90		3·3		2·4	7·9	7·9	155·7	—	Monthly **Totals** or **Means**.
Normal 1911-15	986·5	986·6	86·8	85·1	90·3	81·5	12·4	12·3	78	87		4·7		3·4	—	—	77·3	—	**Normals**.

No record.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 29 days; they are computed from the data for those days on which values at each of the four hours, 3^h, 9^h, 15^h, 21^h, are given in the table. A similar note applies to the values in Table 6.

x denotes the maximum and *n* the minimum value in the column. *z* Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre. Factor 1·90.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
		3 h.	9 h.	15 h.	21 h.	+.	−.	About 15 h.			Mean Time.		Mean Time.		Mean Time.	
		v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².			h m	γ	h m	° ′	h m	° ′
1	Fine *a*. and from 18 h. v. *p*.	180	180	150	200	...	...	...	0	2	...	...	...	...	...	...
2	Fair to fine *a*. Fine to dull *p*. v.	150	130	130	190	...	...	...	0	1	...	...	...	...	...	...
3	Dull. ● *p*.	200	170	200	385	...	...	...	0	1	...	...	...	...	...	...
4	≡² 5 h.–8 h. Fine till 15 h.	360	300	190	95	·40	·19	0·50	1	1	...	...	...	...	...	...
5	Fine from 8 h. ● showers 17 h. ≡⁰ *n*.	130	130	140	85	·23	·02	0·55	1	1	...	...	...	...	...	...
6	Dull and o. from 6 h. ⊕ 8 h. ● *p*.	85	245	160	130	·95	·63	1·35	0	1	11 2	18424	14 23	15 12·2	14 47	66 58·3
7	● *a*. Fine 11 h.–13 h. ⊤ 13 h.	30	0	215	215	...	...	...	1	0	...	...	...	..	...	...
8	Fine to fair.	140	170	140	115	...	...	...	0	2	...	...	...	...	...	...
9	Fine to fair. v. all day.	190	180	130	200	...	...	...	0	1	...	...	...	...	...	...
10	o. to fine. ● at times.	170	180	−10	190	...	...	...	1	1	...	...	...	...	...	...
11	Dull to fair.	105	160	150	190	·38	·38	0·40	0	1	...	...	...	...	...	...
12	Fine 7 h. 30 m.–10 h., then o.	95	215	105	160	...	...	...	1	1	...	...	...	...	...	...
13	Dull throughout. ●² 20 h.	65	95	75	*z*±	...	...	...	1	0	11 1	18425	14 25	15 11·5	14 43	66 57·0
14	Mostly dull.	55	200	95	105	·32	·11	0·45	1	0	...	...	...	...	...	...
15	Fine early; dull till 16 h., then fair.	170	195	115	180	...	...	...	0	0	...	...	...	...	...	...
16	Dull from 7 h. ● *p*.	170	85	65	55	...	...	...	1	0	...	...	...	...	...	...
17	Dull and o. throughout.	30	55	55	95	...	...	...	1	1	...	...	...	...	...	...
18	Dull till 9 h. Fine to fair later.	75	330	255	130	...	...	...	1	1	...	...	...	...	...	...
19	Fine. ≡⁰ on ground *n*.	95	255	105	85	·74	·38	0·75	1	0	...	...	...	...	...	...
20	Fine till 15 h. ∞ all day.	105	300	330	160	·23	·19	0·60	0	1	11 5	18426	14 26	15 13·4	14 45	66 58·3
21	Fine to fair till 14 h., then o. ∞	140	215	225	225	·61	·04	0·85	1	0	...	...	...	...	...	...
22	● early. Dull *a*. Fine *p*.	*z*±	320	235	480	...	...	...	1	0	...	...	...	...	...	...
23	Dull. o. all day.	300	275	130	265	...	...	...	1	1	...	...	...	...	...	...
24	Dull and c. all day.	10	235	200	170	·76	·42	1·40	0	1	...	...	...	...	...	...
25	≡⁰ early. Dull till 10 h. Fine later.	130	140	290	255	...	...	...	0	0	...	...	...	...	...	...
26	≡² 5 h.–7 h. Fine from 9 h.	170	245	225	490	·34	·11	0·50	0	1	...	...	...	...	...	...
27	≡⁰ ☌ early. Fine from 9 h. ∞	105	215	265	265	·42	·21	0·55	1	0	11 5	18445	14 23	15 15·6	14 38	66 55·9
28	≡² 5 h. Fine from 11 h. ∞	180	140	255	160	...	...	...	1	0	...	...	...	...	...	...
29	∞ *a*. Very fine and warm.	95	290	180	105	...	...	...	1	0	...	...	...	...	...	...
30	Fine and warm throughout.	150	255	95	150	...	...	...	0	0	...	...	...	...	...	...
31	≡⁰ early. Fine and warm throughout.	170	300	85	290	...	...	...	0	0	...	...	...	...	...	...
M.		137*	200*	161*	184*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre.* Factor 5·73.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
										Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².														
1	281	148	*z*	234	...	...	...	2 *c*	2	19 2	1042	*n* 833	10 7	0 50	1088	929	0 22	18 46	147	*n* −90	1 7
2	250	156	78	289	...	...	...	1 *a*	1	18 27	1026	935	11 17	16 28	1057	978	7 39	{6 25 / 20 20}	110	89	12 32
3	156	156	296	328	...	...	...	1 *b*	0	19 8	1029	913	10 32	14 34	1065	983	8 20	20 0	119	88	9 50
4	156	312	*z*	234	...	...	...	1 *b*	1	20 21	1060	928	8 52	16 2	1083	946	7 34	18 30	124	72	2 28
5	148	156	156	234	...	...	...	0 *a*	1	20 33	1061	929	12 54	16 37	1072	977	7 31	17 1	144	81	11 21
6	172	195	16	−39	...	...	...	1 *a*	0	17 23	1049	916	10 24	16 26	1060	968	7 26	17 43	123	71	4 14
7	23	351	*z*	*z*	...	...	...	2 *c*	0	19 37	1060	940	10 33	17 27	1045	974	8 2	19 20	116	89	11 47
8	78	172	55	86	...	...	...	1 *b*	2	18 29	*x* 1098	941	21 23	18 15	*x* 1099	*n* 924	21 28	19 25	169	−50	21 31
9	39	78	55	195	...	...	...	1 *b*	1	15 51	1042	920	0 8	5 31	1067	960	9 42	15 36	*x* 172	40	5 37
10	94	109	−39	−39	...	...	...	1 *a*	1	21 16	1047	907	9 21	14 48	1042	966	7 42	21 6	125	84	0 56
11	...	70	78	148	...	...	...	? 0 *a*	1	17 32	1026	929	4 22	22 31	1055	964	8 9	17 40	117	22	3 4
12	−55	−148	−70	70	...	...	...	1 *b*	0	17 19	1026	922	9 5	16 7	1051	977	7 4	16 28	120	82	0 0
13	78	156	*z*	†	...	...	...	1 *b*	0	18 22	1028	927	11 19	14 17	1041	972	7 3	21 0	113	81	0 22
14	†	†	78	133	...	...	...	...	0	19 14	1010	943	10 8	14 28	1050	972	7 30	16 28	113	84	0 0
15	187	156	94	†	...	...	...	? 0 *a*	0	20 28	1013	942	10 38	13 32	1053	984	8 46	17 40	113	92	11 21
16	†	†	†	320	...	...	...	...	0	18 52	1031	949	11 36	13 50	1067	971	7 25	19 10	110	84	{12 17 / 12 37}
17	39	164	8	70	...	...	...	1 *a*	1	20 21	1043	939	12 6	14 39	1071	970	8 47	16 3	121	85	{1 22 / 9 41}
18	78	359	†	179	...	...	...	1 *b*	1	21 50	1068	920	8 20	13 52	1056	972	21 42	19 25	115	42	3 52
19	164	156	164	507	...	...	...	0 *a*	1	18 8	1035	936	12 44	14 30	1063	972	7 43	19 28	120	82	12 8
20	507	156	94	312	...	...	...	0 *a*	0	20 57	1018	940	13 34	15 50	1042	966	1 21	20 22	110	71	1 0
21	195	‡	‡	‡	...	...	...	...	0	18 17	1028	948	13 58	12 31	1037	981	7 43	19 1	110	79	11 55
22	‡	‡	‡	‡	...	...	...	...	0	12 14	1045	958	11 37	13 47	1056	982	8 49	{20 45 / 22 33}	107	85	12 0
23	‡	‡	‡	‡	...	...	...	...	1	6 23	1047	939	15 51	14 50	1079	954	8 35	15 58	130	74	5 36
24	179	148	156	406	...	...	...	0 *a*	1	18 47	1019	943	10 35	2 29	1050	987	9 8	18 28	116	63	3 40
25	94	164	304	335	...	...	...	0 *a*	0	19 18	1023	959	12 43	0 17	1053	976	8 10	17 21	113	73	0 38
26	†	†	†	†	...	...	...	0 *a*	0	18 53	1021	950	11 50	13 11	1052	982	7 24	17 10	123	76	1 5
27	460	195	78	351	...	...	...	0 *a*	0	17 3	1015	952	16 8	14 12	1059	979	7 37	16 36	113	85	12 55
28	156	172	195	413	...	...	...	0 *a*	0	17 43	1028	953	11 21	12 54	1065	972	7 35	19 5	123	82	11 36
29	312	187	86	257	...	...	...	0 *a*	0	18 47	1017	955	9 48	13 51	1056	976	7 20	16 47	127	94	11 50
30	195	47	31	195	...	...	...	0 *a*	0	18 20	1030	962	10 21	16 11	1057	983	7 23	{19 10 / 19 29}	125	94	12 1
31	148	156	179	304	...	...	...	0 *a*	0	{18 39 / 20 10}	1025	951	11 40	14 33	1042	974	7 23	17 25	111	89	12 7
M.	174*	134*	102*	237*	—	—	—	—	—	—	1036	935	—	—	1059	970	—	—	123	68	—

* 18 days. *See* note above. † Insulation bad. ‡ Instrument being adjusted.

7. Seismological Diary.

Earthquakes :—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
3	L	4 1 to	18 to	1	1	...	...	
		4 12	20	...	...	...	...	
3	Pi	9 52 51	...	...	...	...	7800	Epicentre in Mexico. L not prominent, but a few well-marked waves of 32 secs. period at 10 h. 53 m.
	PR	9 56 5	...	...	...	...	...	
	S	10 2 7	...	...	...	...	...	
	M	10 14 3	12	3	...	...	...	
	M	10 14 5	14	...	9	...	...	
	M	10 17 45	19	...	7	...	...	
	F	11 39	...	...	...	...	...	
9		12	...	...	...	...	...	Long waves.
13		15 20 to	...	...	...	...	...	Slight disturbance without definitely marked phases. Long waves of 18 secs. period and low amplitude.
		16 20	...	...	...	...	...	
14		15 43 to	...	...	...	...	...	Long waves.
		15 56	...	...	...	...	...	
14	e	14 30 (?)	...	...	...	...	...	
	M	14 36 2	16	8	...	...	...	
	M	14 36 2	16	...	7	...	...	
	F	...	...	...	...	...	...	
15	e	8 (?)	...	...	...	...	...	Slight disturbance.
	F	8 35	...	...	...	...	...	Record of initial phases lost while changing sheets.
16	Pe	18 27 0	...	...	...	...	...	P faint and doubtful.
	S (?)	18 37 10	...	...	...	...	...	Motion N.W.-S.E. from 18 h. 58 m. to 19 h. 7 m., N.E.-S.W. from 19 h. 7 m. to 19 h. 10 m.
	SR (?)	18 42 30	...	...	...	...	...	
	L	18 53	...	...	...	...	...	
	M	19 3	20	...	5	...	...	
	M	19 4	18	4	...	...	..	
	F	19 30	...	...	...	...	...	
17	Pe	1 8 34	...	...	...	...	...	P prominent on vertical instrument.
	M	1 30 4	...	...	...	...	...	
	M	1 33 44	...	...	...	...	...	
21	L	22 40 to	18 to	...	...	...	...	
		23 9	22	...	...	...	...	
22		6 15 to	...	...	...	...	...	Faint disturbance.
		7 10	...	...	...	...	...	No definite phases.
23	L	11 12 to	...	...	...	...	...	
		11 35	...	...	...	...	...	
27		12 17 to	...	...	...	...	...	Prolonged slight disturbance.
		13 50	...	...	...	...	...	No definite phases.
28		17 59 to	...	...	...	...	...	Prolonged slight disturbance.
		18 43	...	...	...	...	...	No definite phases.
31		0 13 to	...	...	...	...	...	Prolonged slight disturbance.
		0 40	...	...	...	...	...	No definite phases.

Microseisms of N. Component :—Eskdalemuir.

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

Earthquakes :—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
8	...	10 1	Very small.
13	...	16 5	Very small disturbance visible from $16^h\ 2^m$ to $16^h\ 13^m$.
15	...	8 13	Very small.
16	19 5	19 10	Disturbance visible from $19^h\ 5^m$ to $19^h\ 27^m$.
31	0 14	0 26	Very small.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	4·1	...	2·7	...	6·6	...	...	4·4	6·0	...	9·0	...	5·8	...	5·8	...	23·7	14	5
2	1·2	...	6·1	...	...	...	2·3	...	1·6	...	1·6	...	0·8	...	0·6	...	11·6	1	10
3	0·6	...	0·4	...	1·1	...	...	1·7	...	3·3	...	1·4	...	1·8	...	0·8	6·8	13	35
4	...	1·2	...	0·5	...	1·1	1·1	...	...	1·6	1·6	...	...	0·5	0·5	...	6·9	11	35
5	...	4·6	...	...	...	2·3	...	...	...	0·7	...	...	1·7	...	1·1	...	7·2	5	10
6	2·9	...	0·6	...	3·8	...	0·8	...	1·2	...	...	5·8	3·6	...	...	...	10·8	11	55
7	2·3	...	0·4	...	2·0	...	0·4	...	...	4·9	3·3	...	...	5·1	5·1	...	15·1	23	0
8	...	4·6	6·8	...	...	3·4	8·2	...	5·3	...	5·3	...	2·4	...	3·6	...	14·3	0	20
9	1·5	...	7·4	...	4·6	...	6·8	...	6·9	...	2·9	...	2·9	...	4·3	...	13·3	14	45
10	2·6	...	6·4	...	2·8	...	6·7	...	3·3	...	4·9	...	4·4	...	6·6	...	14·3	18	30
11	1·5	...	7·4	...	3·0	...	7·3	...	3·3	...	4·9	...	3·3	...	3·3	...	14·4	0	5
12	5·5	...	3·7	...	7·4	...	1·5	...	5·6	...	5·6	...	3·8	...	9·1	...	16·0	19	50
13	...	1·2	6·1	...	...	4·9	3·3	...	...	2·0	4·8	...	...	5·5	3·7	...	11·5	22	25
14	...	6·3	6·3	...	...	6·1	2·5	...	...	3·5	3·5	...	...	0·9	1·3	...	13·7	3	40
15	0·6	...	2·9	...	1·0	...	4·8	...	3·5	...	3·5	...	4·2	...	0·8	...	10·4	11	40
16	5·8	...	1·2	...	4·0	...	4·0	...	...	1·2	6·1	...	...	0·9	2·1	...	10·1	10	5
17	...	4·9	3·3	...	...	5·7	3·8	...	...	7·9	3·3	...	...	9·6	1·9	...	14·7	20	40
18	...	7·7	1·5	...	...	3·2	0·6	...	...	1·1	2·8	...	2·0	...	3·0	...	12·1	0	20
19	...	...	7·9	...	...	1·3	6·8	...	1·4	...	3·3	...	4·0	...	1·6	...	11·6	2	5
20	2·0	...	0·4	...	2·2	...	1·4	...	1·0	...	2·4	...	...	0·6	1·5	...	5·9	7	30
21	...	0·1	0·3	...	...	0·6	0·8	...	...	2·3	2·3	...	...	0·6	0·3	...	6·2	12	55
22	...	1·2	0·5	...	...	0·9	0·4	...	...	1·8	0·8	...	...	0·3	0·1	...	4·6	18	35
23	...	0·6	0·3	...	...	1·5	0·6	...	...	3·0	1·3	...	...	0·4	0·6	...	5·8	15	35
24	...	0·9	0·9	...	...	0·7	0·7	...	...	1·5	2·2	...	0·3	...	1·6	...	6·4	14	30
25	1·7	...	1·1	...	5·2	...	...	...	5·8	...	1·2	...	2·8	...	1·1	...	10·4	9	40
26	2·3	...	0·4	...	3·2	...	0·6	...	4·5	...	1·9	...	0·9	...	0·9	...	8·9	16	45
27	2·8	...	1·1	...	1·8	...	2·7	...	...	4·5	0·9	...	...	1·8	0·8	...	8·7	13	15
28	...	2·6	0·5	...	...	1·6	0·3	...	...	2·2	1·4	...	...	0·6	0·4	...	7·0	1	10
29	1·8	...	4·3	...	...	...	4·6	...	4·3	...	2·9	...	3·8	...	2·6	...	10·0	3	25
30	3·0	...	2·0	...	...	...	3·3	...	3·8	...	2·6	...	4·1	...	2·7	...	10·7	11	45
31	2·4	...	1·0	...	...	2·8	1·1	...	...	1·8	0·8	...	...	0·8	0·6	...	8·1	5	30
S+N & W+E	80·5		84·4		84·8		83·5		100·8		94·3		80·2		68·4				
S−N & W−E	8·7		83·4		12·6		71·3		14·2		79·9		21·4		66·8				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	1·3	...	...	...	1·3	...	...	1·9	1·0	...	...	4·8	...	0·7	...	3·5	4·9	14,15,16,17,24
2	...	2·3	...	5·5	...	3·2	...	2·2	...	3·9	...	...	...	2·3	...	...	5·9	3
3	...	0·6	0·3	...	...	2·5	...	2·5	...	3·6	...	1·5	...	2·8	...	1·1	4·6	13, 24
4	...	6·2	...	...	...	5·6	...	...	...	5·5	1·1	...	...	1·8	0·8	...	6·2	3, 6
5	...	1·8	0·8	...	...	1·8	0·8	...	...	0·7	1·1	...	...	1·1	1·1	...	3·0	12
6	...	0·2	0·2	...	1·3	...	3·0	...	2·3	...	...	0·4	0·7	...	...	0·1	3·3	9
7	1·0	...	...	0·2	2·3	...	...	2·3	0·8	...	...	3·8	...	0·7	...	3·5	4·9	12
8	...	2·0	...	3·0	...	2·7	...	4·1	...	6·6	...	...	...	4·3	...	...	6·6	13, 14, 15
9	...	1·6	...	...	...	2·3	...	...	5·1	...	...	1·0	2·8	...	...	1·1	5·2	15
10	2·1	...	...	0·9	3·3	...	...	1·4	2·8	...	...	1·1	0·9	...	...	0·4	4·3	12
11	...	...	2·4	...	...	1·5	3·6	...	...	2·8	6·7	...	...	0·9	4·5	.	7·5	16
12	0·8	...	3·8	...	...	3·6	1·5	...	...	4·9	...	...	...	3·8	0·8	...	6·2	17
13	...	4·9	3·3	...	...	4·2	6·2	...	...	6·5	6·5	...	...	5·7	3·8	...	9·8	16
14	...	4·3	2·9	...	...	4·0	6·0	...	...	6·3	6·3	...	...	5·4	8·1	...	10·2	20
15	...	4·9	7·4	...	...	1·5	7·4	...	...	1·2	6·1	...	...	0·2	1·0	...	9·2	1, 2
16	2·0	...	0·4	...	1·3	...	...	...	0·8	...	4·2	...	...	2·6	6·4	...	7·5	24
17	...	4·9	4·9	...	...	5·3	7·9	...	...	4·2	6·2	...	...	0·8	3·8	...	10·5	10
18	1·0	...	4·8	...	2·6	...	3·8	...	2·0	...	4·8	...	0·9	...	2·1	...	6·2	5
19	...	0·5	1·2	...	1·8	...	1·8	...	...	...	5·6	...	2·6	...	0·5	...	7·2	13
20	1·7	...	0·3	...	...	...	3·9	...	...	2·6	3·8	...	...	0·5	0·5	...	5·2	8
21	1·3	...	0·3	...	2·9	...	0·6	...	3·6	...	...	1·5	1·6	...	...	...	3·9	15
22	2·0	...	...	..	4·8	...	...	2·0	3·5	...	...	0·7	2·9	...	...	0·6	5·2	9
23	1·0	...	...	0·2	...	2·0	...	0·4	...	...	...	1·3	...	...	...	0·3	3·3	7
24	0·2	...	...	1·0	0·6	...	...	3·2	2·0	...	...	4·8	4·0	...	...	4·0	5·6	17, 21, 24
25	3·6	...	...	2·4	2·5	...	...	2·5	3·7	...	...	3·7	3·0	...	...	1·3	5·6	2
26	1·6	...	...	1·6	0·5	...	...	0·5	1·9	...	...	1·3	...	0·7	...	1·1	3·0	18, 19
27	...	1·0	2·4	...	...	1·6	4·0	...	...	2·7	4·1	...	...	1·1	1·7	...	5·9	13
28	1·2	...	1·7	...	1·6	...	1·6	...	2·5	...	1·7	...	4·2	...	0·8	...	4·3	20, 21
29	4·6	...	...	...	5·8	...	5·8	...	3·6	...	8·8	...	4·2	...	4·2	...	11·5	12, 24
30	...	...	10·8	...	...	1·0	4·8	...	...	2·6	6·4	...	...	2·1	5·2	...	10·8	3
31	...	0·9	4·5	...	...	...	4·6	...	...	2·4	5·7	...	1·1	...	1·1	...	7·2	13
S+N & W+E	61·5		67·2		75·4		90·3		92·1		105·0		66·4		64·5			
S−N & W−E	−10·7		37·6		−10·2		44·3		−20·9		53·2		−8·6		30·5			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	6·9	...	4·6	...	2·0	...	10·2	...	...	3·4	8·1	...	...	1·4	7·0	...	16·8	11	50
2	...	...	6·3	...	...	...	5·8	...	1·1	...	5·3	...	...	...	3·3	...	8·4	0	5
3	...	...	2·1	...	...	...	2·1	...	0·8	...	1·9	...	...	1·2	1·2	...	2·8	20	4
4	...	1·2	1·2	...	...	1·4	0·9	...	...	2·3	1·0	...	...	3·1	1·3	...	6·8	23	35
5	...	2·8	4·2	...	...	2·2	5·4	...	...	...	3·8	...	1·3	...	3·1	...	8·4	8	55
6	6·3	...	...	...	8·3	...	...	...	4·6	...	1·9	...	2·1	...	2·1	...	12·7	6	43
7	...	...	4·2	...	...	3·0	3·0	...	...	2·1	2·1	...	...	2·8	...	0·6	6·4	4	57
8	...	2·3	1·0	...	...	5·0	...	...	...	3·8	3·8	...	...	2·2	5·4	...	9·5	22	38
9	...	4·2	6·2	...	...	...	3·8	...	...	0·9	4·5	...	...	1·6	3·9	...	10·9	24	0
10	...	2·2	5·4	...	...	3·9	5·9	...	...	2·6	6·2	...	...	3·7	5·6	...	12·0	7	6
11	...	2·2	5·4	...	...	2·4	5·8	...	...	2·4	5·8	...	...	1·0	4·9	...	9·8	4	22
12	2·2	...	5·4	...	5·6	...	8·3	...	...	1·6	8·1	...	...	3·8	9·2	...	16·6	17	48
13	...	4·1	10·0	...	...	3·5	8·5	...	...	4·6	6·9	...	...	4·1	4·1	...	14·9	1	24
14	...	3·3	3·3	...	...	2·9	...	...	...	4·6	...	...	...	2·5	...	...	6·0	2	20
15	...	2·1	2·1	...	...	2·1	2·1	...	...	2·1	2·1	...	...	...	4·6	...	4·3	19	36
16	..	...	3·3	...	...	...	7·5	...	...	...	8·3	...	...	3·0	3·0	...	8·7	13	54
17	...	1·8	2·7	...	...	4·6	...	1·9	...	5·0	...	2·1	...	4·2	...	...	6·5	7	17
18	...	5·0	...	2·1	...	5·8	...	2·4	...	6·6	...	2·7	...	3·5	...	1·5	9·1	17	19
19	...	1·6	...	0·7	...	1·6	...	0·7	...	2·7	1·1	...	...	1·7	...	...	5·2	16	17
20	...	0·8	...	...	...	1·7	...	...	...	2·3	...	1·0	...	2·7	...	1·8	3·7	21	32
21	...	2·1	...	2·1	...	0·3	...	1·3	2·7	...	...	2·7	0·9	...	...	0·9	4·8	11	7
22	0·9	...	...	0·9	...	...	...	1·7	...	1·2	1·2	...	...	1·3	...	...	2·5	4	20
23	...	2·5	...	0·5	...	2·3	...	1·0	...	3·7	0·7	...	...	2·8	0·6	...	2·6	15	15
24	...	2·3	1·0	...	...	0·4	...	...	...	0·7	...	0·3	...	calm		...	2·4	2	35
25	...	calm		...	1·7	...	0·3	...	1·6	...	0·7	...	...	calm		...	0·0	...	
26	0·7	...	0·3	...	1·6	...	...	0·7	...	1·2	...	1·2	...	0·7	...	0·4	1·6	17	38
27	...	1·8	...	1·2	...	2·1	...	0·4	...	3·8	3·8	...	...	3·3	...	...	4·0	15	44
28	...	2·1	...	...	...	3·1	...	1·3	...	4·2	...	...	...	3·3	...	...	4·6	13	5
29	...	1·7	...	..	...	2·7	...	1·1	...	3·5	...	1·5	...	3·2	0·6	...	3·6	22	35
30	...	2·8	0·6	...	...	3·1	1·3	...	...	5·0	2·1	...	...	2·7	1·1	...	4·5	10	50
31	...	3·3	...	...	...	0·8	...	...	...	2·7	1·1	...	...	2·1	...	...	3·2	22	10
S−N & W+E	69·2		76·8		74·1		83·4		83·8		92·0		66·2		66·2				
S−N & W−E	−35·2		61·8		−35·7		58·4		−62·2		69·0		−57·6		55·8				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust. (Gorleston.)	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	1·1	...	2·8	...	3·2	...	2·2	...	7·7	...	...	1·5	3·5	...	0·7	...	15·1	15	0
2	1·3	...	1·9	...	2·6	...	3·8	...	...	...	3·3	...	3·0	...	...	1·3	10·5	9	30
3	0·9	...	0·4	...	1·3	...	...	...	1·8	...	...	2·7	...	...	...	2·1	5·0	15	5
4	0·1	...	...	0·3	1·1	...	...	1·7	...	0·7	...	3·5	0·6	...	...	3·2	6·4	16	10
5	...	2·7	...	1·8	...	1·7	...	1·1	...	0·6	...	2·9	2·0	...	...	...	6·4	1	45
6	0·1	...	0·7	...	...	0·9	0·9	...	...	...	3·6	...	1·7	...	1·1	...	7·5	13	45
7	5·5	...	...	1·1	6·7	...	...	2·8	6·8	...	...	4·6	3·5	...	...	0·7	11·3	8	45
8	1·8	...	2·7	...	...	...	4·6	...	...	1·0	5·1	...	...	0·2	1·0	...	8·4	11	45
9	0·4	...	2·3	...	2·0	...	4·8	...	0·8	...	3·8	...	1·1	...	1·1	...	9·0	9	45
10	0·8	...	1·8	...	0·5	...	2·6	...	2·3	...	2·3	...	0·3	...	1·6	...	10·6	13	45
11	0·6	...	2·9	...	...	...	4·6	...	...	...	5·2	...	1·1	...	2·8	...	9·7	16	0
12	0·6	...	3·2	...	2·7	...	4·1	...	5·1	...	5·1	...	3·7	...	3·7	...	14·5	18	55
13	2·4	...	3·6	...	...	2·4	1·0	...	...	4·5	...	1·9	1·8	...	...	1·8	8·7	12	40
14	...	...	1·6	...	...	3·3	1·4	...	...	3·0	2·0	...	...	1·4	1·4	...	10·5	12	45
15	...	...	2·3	...	...	2·0	3·0	...	0·6	...	...	2·9	...	0·4	2·3	...	9·5	10	45
16	0·4	...	2·0	...	0·9	...	4·5	...	...	1·7	2·5	...	...	1·1	...	0·7	7·0	9	0
17	..	0·8	...	0·6	1·1	...	...	1·7	2·2	...	...	3·2	...	3·5	0·7	...	7·4	21	50
18	...	1·2	0·5	...	...	4·6	...	...	...	4·0	...	1·6	0·0	0·0	0·0	0·0	9·8	8	25
19	1·1	...	1·1	...	...	1·4	1·4	...	1·3	...	...	1·9	0·6	...	...	0·8	3·4	12	15
20	0·4	...	...	0·6	...	0·9	...	0·4	0·4	...	...	2·3	0·8	...	...	0·6	4·4	14	20
21	1·1	...	0·7	...	0·3	...	...	1·6	...	2·7	...	1·8	...	3·6	...	1·5	7·5	21	55
22	...	2·0	0·4	...	...	3·0	...	...	...	3·5	0·7	...	...	2·9	...	0·6	8·8	13	10
23	...	2·3	0·4	...	...	3·3	...	...	...	4·9	...	...	...	3·6	...	...	8·8	14	10
24	...	1·6	0·3	...	...	3·3	...	...	...	4·8	...	1·0	...	2·3	0·4	...	8·2	14	10
25	...	1·7	1·1	...	...	1·4	1·4	...	...	3·6	...	2·4	...	0·5	...	0·5	6·9	11	20
26	...	1·0	...	...	...	1·3	...	0·9	...	...	...	3·3	1·7	...	...	2·5	2·5	4	0
27	...	...	...	1·6	...	...	...	0·7	...	1·1	...	2·8	...	1·8	...	1·8	3·5	16	30
28	...	0·2	...	0·2	...	2·5	...	1·7	...	2·8	...	1·1	...	1·1	...	0·7	7·2	10	55
29	...	0·3	...	...	...	1·3	0·3	...	...	1·6	...	1·6	1·0	...	...	1·0	5·0	12	15
30	0·6	...	2·9	...	...	0·3	1·3	...	2·8	...	...	1·1	...	...	1·6	...	6·1	17	5
31	...	1·5	0·6	...	..	0·9	0·9	...	2·5	...	...	1·7	...	2·6	...	3·8	4·1	6	5
S+N & W+E	34·5		42·4		56·9		55·4		74·8		79·4		51·4		42·0				
S−N & W−E	3·9		30·0		−12·1		−30·2		−6·2		−12·2		1·4		−15·2				

9. Soundings with Pilot Balloons.

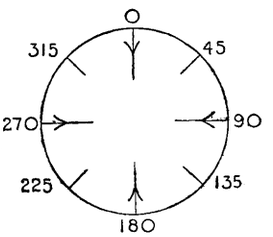
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind.														Cloud Observations.		
			Geostrophic.		By Anemometer.		At Heights above M.S.L.												
							500 m.		1000 m.		2000 m.		3000 m.		4000 m.		5000 m.		
			From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	Type.	From N.	mr/s.
		h. m.	°		°		°		°		°		°		°		°			°	
4	S. Farnboro'	6 25	...	0	...	0·0	...	1·0	195	0·5	190	5·0	...	...	...	...	...	...	A.-Cu.	190	...
5	,,	6 30	300	5	...	...	320	5·0	310	2·5	305	4·5	270	5·0	...	...	...	...	...	...	...
11	,,	6 15	290	11	225	4·0	290	10·5	285	13·5	270	14·5	...	...	...	...	...	...	*	*	*
12	,,	6 15	260	15	215	6·0	240	10·5	250	12·5	245	9·0	260	11·0	275	13·5	285	11·0	...	...	...
12	Benson	7 15	260	16	220	6·0	230	11·5	245	14·5	260	9·5	270	7·5	...	...	...	...	...	...	...
15	Eskdalemuir	7 30	300	7	280	7·5	295	6·0	265	6·0	310	4·2	...	...	...	...	...	...	Ci.	335	3·0
18	,,	7 45	290	6	215	2·7	255	2·7	315	4·3	305	9·5	295	8·0	...	...	...	...	A.-Cu.	310	3·1
19	Benson	7 15	360?	3	315	1·8	335	5·5	335	5·0	330	11·5	...	...	...	...	...	...	...	...	...
20	S. Farnboro'	6 5	30	3	290	light	355	4·5	345	3·5	350	4·5	...	...	...	...	...	...	...	...	...
21	,,	6 15	...	0	...	0·0	340	2·5	5	2·5	50	5·5	45	8·5	...	...	...	...	Ci.	340	...
21	Benson	7 15	...	0	...	0·0	345	1·5	60	1·6	60	5·0	50	6·5	...	...	...	...	...	...	...
21	S. Farnboro'	17 20	70	7	...	light	55	5·0	20	3·0	45	6·5	...	...	...	...	...	...	...	...	...
24	Eskdalemuir	7 20	140	3	0	1·4	55	3·1	40	1·8	45	4·5	30	3·0	80	1·9	65	0·9	A.-Cu.	135	...
25	Benson	11 50	...	0	0	0·4	20	1·9	25	7·5	30	5·0	45	6·0	...	...	...	...	Cu.	35	...
26	,,	11 45	...	0	135	2·0	85	1·8	105	5·0	70	3·0	...	...	...	...	...	...	...	...	...
27	S. Farnboro'	9 40	...	...	...	0·0	60	3·5	50	5·0	60	4·0	35	4·0	...	...	...	...	...	...	...
27	Benson	11 50	...	0	40	2·0	10	2·0	15	0·9	35	4·9	35	4·8	5	2·8	...	...	Cu.	45	...
27	Eskdalemuir	13 15	340	7	215	5·0	230	3·9	280	0·9	215	4·5	...	...	...	...	...	...	Ci.	200	...
28	S. Farnboro'	6 25	50	5	...	0·0	10	3·5	30	2·0	5	6·5	...	...	...	...	...	...	...	...	...
28	,,	10 25	20	6	10	light	345	4·0	360	4·0	5	6·0	...	...	...	...	...	...	...	...	...
29	,,	6 5	30	5	...	0·0	335	5·0	280	4·5	340	1·5	...	...	...	...	...	...	Ci.	360	...
29	Benson	7 0	30	5	...	0·0	340	5·5	320	5·0	5	3·0	345	4·6	...	...	...	...	Ci.	Stationary.	
31	S. Farnboro'	6 30	330?	4	...	0·0	20	3·0	340	3·5	275	5·5	...	...	...	...	...	...	...	...	...
31	Benson	11 50	...	...	30	1·5	345	3·1	320	2·1	285	4·2	295	6·0	...	...	...	...	Cu.	315	...
									6000 m.		7000 m.		8000 m.		9000 m.		10,000 m.				
24	Eskdalemuir	7 20	(For observations at lower levels, see above.)						230	3·5	215	4·0	225	5·5	...	...	...	...			

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Benson	57 m.	25 m.
Eskdalemuir	242 m.	15 m.
S. Farnborough	70 m.	31 m.

Notes on Pressure Distribution.

July 4 7 h. Uniform pressure over British Isles, France, and Germany.
5 7 h. Shallow depression over Germany. Anticyclone from the Azores to Spain.
11 7 h. Depression over N. Scotland. Anticyclone from the Azores to the Bay of Biscay.
12 7 h. Depression off the N.W. of Ireland; trough of low pressure stretching to Norway.
15 7 h. Ridge of high pressure from the Azores to the Mouth of the English Channel. Depressions over Iceland and Scandinavia.
18 7 h. Anticyclone over N.E. France. Shallow depression over Iceland.
19 7 h. Anticyclone over the N.E. Atlantic.
20 7 h. Anticyclone over the Azores and extending to the British Isles.
21 7 h. and 18 h. Anticyclone over the British Isles.
24 7 h. Anticyclone over the British Isles.
25 7 h. Anticyclone over the British Isles. Depression beyond Iceland.
26 7 h. Anticyclone over the British Isles. Depression beyond Iceland.
27 7 h. Anticyclone over the N.E. Atlantic. Rather uniform pressure over the British Isles.
28 7 h. Anticyclone over the N.E. Atlantic and the British Isles.
29 7 h. Anticyclone extending from the Azores to England.
31 7 h. Anticyclone extending from the Azores to England.



Wind Protractor.

* S. Farnboro', July 11. Balloon lost in St.-Cu. at 2000 m.

10. Nephoscope Observations at Aberdeen.

See page 55.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 8. AUGUST 1916]. Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
					Maximum.															
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	For Day. Amount.	For Day. Time.	11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	11·0	71	1795	49	72	12 35	70	10·3	67	59	50	Hazy	4·4	28	…	…	…	…	0·2	1
2	8·6	56	1679	46	69	14 14	43	9·0	59	…	…	…	5·0	31	…	…	…	…	9·7	63
3	*x*11·7	76	2014	55	68	11 38	68	11·8	77	64	53	Hazy	8·3	53	…	…	…	…	*x*13·9	90
4	7·3	48	1320	36	66	14 40	47	8·1	53	…	…	…	6·2	39	11 58	Clear	1·27	88	13·7	90
5	11·6	76	*x* 2065	57	67	12 15	67	*x*12·0	79	75	62	Clear	*x*13·8	88	12 0	Clear	1·27	84	13·6	89
6	4·3	28	1077	30	44	9 30	35	4·5	30	…	…	…	7·8	50	…	…	…	…	9·8	64
7	7·6	50	1496	42	66	11 55	66	7·6	50	55	45	Hazy	12·0	77	12 13	Clear	1·29	70	12·4	82
8	6·4	43	1127	32	65	12 57	49	6·4	43	…	…	…	11·6	75	12 17	Clear	1·28	64	9·8	65
9	7·7	51	1553	44	66	12 18	66	7·3	49	43	35	Ci.	10·7	69	12 19	Hazy	1·29	57	8·9	59
10	1·8	12	848	24	34	10 3	25	6·6	44	26	21	Hazy	8·0	52	12 16	Hazy	1·29	51	2·0	13
11	2·1	14	1104	32	58	13 37	32	2·5	17	…	…	…	7·2	47	…	…	…	…	0·0	0
12	2·4	16	1190	34	73	12 27	73	2·5	17	71	57	Clear	1·0	7	…	…	…	…	1·2	8
13	2·5	17	1097	32	72	14 0	62	2·7	18	…	…	…	0·3	2	…	…	…	…	0·2	1
14	3·8	26	1043	30	73	12 12	73	3·6	24	70	56	Clear	4·1	27	…	…	…	…	5·4	37
15	4·6	32	1112	33	74	11 20	25	4·5	31	…	…	…	0·7	5	…	…	…	…	4·7	32
16	3·2	22	1123	33	82	12 0	82	3·4	23	…	…	…	1·4	9	…	…	…	…	3·7	25
17	1·6	11	875	26	*x* 83	12 10	83	1·6	11	…	…	…	7·6	51	…	…	…	…	6·1	42
18	1·3	9	762	23	50	15 40	31	1·5	10	…	…	…	0·5	3	…	…	…	…	5·0	34
19	5·6	39	1254	38	73	11 50	73	5·3	37	43	34	Ci.	0·8	5	…	…	…	…	7·7	53
20	5·6	39	1064	33	65	13 6	33	4·8	34	…	…	…	4·5	31	…	…	…	…	10·1	70
21	10·7	75	1422	44	75	12 30	75	11·8	83	73	57	Clear	9·1	62	…	…	…	…	11·3	79
22	2·8	20	845	26	40	13 37	34	7·3	51	26	20	Ci.	5·8	40	…	…	…	…	0·0	0
23	0·5	4	929	29	59	10 38	46	1·1	8	…	…	…	1·3	9	…	…	…	…	6·9	49
24	4·6	33	1026	32	76	11 30	76	3·6	26	…	…	…	0·6	4	…	…	…	…	0·0	0
25	0·0	0	490	16	38	10 15	30	0·0	0	…	…	…	0·0	0	…	…	…	…	9·4	67
26	5·9	42	1157	37	79	12 4	79	5·7	41	79	60	Clear	0·0	0	…	…	…	…	7·2	51
27	5·6	40	992	32	70	12 45	32	4·9	35	…	…	…	1·0	7	…	…	…	…	10·3	74
28	4·7	34	1119	37	80	12 6	80	4·6	33	…	…	…	0·3	2	…	…	…	…	2·7	19
29	0·0	0	*n* 179	6	*n* 8	13 23	5	0·0	0	…	…	…	7·4	53	…	…	…	…	4·0	29
30	1·0	7	453	15	42	15 50	11	1·7	12	…	…	…	3·2	23	…	…	…	…	3·8	28
31	5·0	37	1139	38	64	10 35	50	5·2	38	..	…	…	0·8	6	…	…	…	…	1·8	13
Means	4·90	34	1140	34	63	—	52	5·23	36	—	—	—	4·68	32	—	—	—	—	6·32	44
Normal	5·10	36	—	—	—	—	—	6·03	42	—	—	—	4·32	29	—	—	—	—	5·00	35
	← 5 years →							← 35 years →					← 5 years →						← 35 years →	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Declination West.	Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	200+	200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	1018·9	1020·8	91·5	90·0	94	*x* 90	19·4	18·6	92	97	16	3	—	1	10	10	1·1	Dull and d.	…	…	…
2	1024·0	1027·4	91·2	90·1	94	88	19·2	16·6	93	86	—	0	—	0	8	2	—	c. to brilliantly fine.	…	…	…
3	1029·3	1028·5	91·7	90·7	95	85	16·9	17·5	79	87	—	0	—	0	2∞	4∞	—	Brilliantly fine.	…	…	…
4	1028·7	1027·7	90·9	91·2	*x* 98	84	17·5	17·2	86	83	—	0	—	0	0∞	2	—	$\frac{p}{2}$ *n*. Sunny and hot.	…	…	…
5	1027·0	1025·2	93·1	90·2	95	87	19·8	17·9	85	92	—	0	—	0	3	10	—	Fine. ∞. Fine sunset. ≡⁰ *n*.	…	…	…
6	1023·6	1021·1	90·1	89·4	94	88	18·9	17·9	98	97	—	0	—	0	*10*≡⁰	*0*≡⁰	0·1	Thick mist till 9 h. Damp and oppres-	…	…	…
7	1018·8	1019·4	92·6	91·5	97	86	19·0	15·8	84	75	—	0	9	4	3	3∞	—	Fine. Fine sunset. [sive.	…	…	…
8	1019·6	1019·9	92·7	91·3	95	*x* 90	15·7	15·8	*n* 69	76	13	4	--	1	8∞	9∞	—	Fine to c. ≤ 23 h.	17869	19 50·7	68 7·4
9	1020·3	1022·1	93·9	90·5	95	*x* 90	17·1	18·0	70	91	14	4	—	0	7∞	5∞	1·4	T 3 h. ● 10 h. Fine to c.	…	…	…
10	1022·8	1020·1	92·1	91·2	94	89	19·0	18·4	87	89	—	1	15	4	8∞	10	—	c. to o.	…	…	…
11	1012·8	1006·2	92·2	90·3	93	89	17·8	18·2	81	93	15	9	14	9	10	10●	31·3	o. ● *p*. ●² 22 h.–24 h.	…	…	…
12	1001·6	1000·9	91·3	89·9	93	88	19·2	16·6	92	87	15	6	16	5	10	7	10·5	● till 2 h. ● showers.	…	…	…
13	999·3	999·3	90·8	89·1	92	87	18·4	15·1	91	83	17	6	21	8	10	7	10·9	o. *a.* ●² afternoon.	…	…	…
14	1000·3	1003·5	89·5	87·5	91	87	16·6	13·8	89	84	21	9	25	9	8	7	2·3	● showers all day.	…	…	…
15	1003·7	1004·1	88·5	87·8	90	86	13·7	15·5	78	93	27	7	24	5	8●	10●	1·7	● showers *a.* and in evening.	…	…	…
16	1005·9	1008·8	88·8	88·6	91	87	14·0	15·6	79	89	29	5	31	6	10	6	0·6	●, then c. to fine.	…	…	…
17	1012·5	1013·8	89·2	88·3	91	88	15·0	14·1	82	82	31	6	28	4	9∞	*8*∞	0·2	$\frac{p}{2}$ *n*. Dull to fine. o. *n*.	…	…	…
18	1011·2	1013·1	87·8	88·0	90	87	14·0	12·8	84	76	28	2	31	6	10	7	0·1	●⁰ early and 19 h. Fine *p*.	…	…	…
19	1015·6	1015·7	89·5	88·2	92	87	16·0	14·7	86	86	26	2	20	2	10∞	8	0·6	Fine to c. ● showers 16 h.	…	…	…
20	1015·2	1016·5	89·9	88·2	92	86	15·3	14·2	80	83	—	1	—	0	6∞	8	—	Fine and bright.	…	…	…
21	1016·4	1015·7	89·6	88·8	93	*n* 83	15·7	14·2	84	80	—	0	13	4	2∞	3	—	$\frac{p}{2}$ early. ⊕ 11 h. Fine *p*.	17879	19 53·8	68 7·2
22	1011·0	1007·2	90·3	89·7	92	89	15·3	18·5	78	98	12	8	14	7	10∞	10	*x* 35·6	o. ● showers in afternoon.	…	…	…
23	1002·8	1006·4	87·4	88·6	92	87	15·6	16·7	96	95	1	2	17	2	10●	6	3·7	● till 9 h. Fine to c. from 11 h.	…	…	…
24	1000·6	995·6	90·8	90·4	92	88	19·2	19·1	95	97	15	6	15	10	10	10●	8·8	o., with ● showers.	…	…	…
25	994·1	994·1	90·3	88·7	93	87	18·4	16·6	94	94	—	1	15	3	4	8	1·6	Fine to c. ● shower 23 h.	…	…	…
26	995·1	997·1	89·6	88·4	92	87	16·5	15·6	88	90	18	3	17	3	7	6	3·4	● showers. ⌒ 8 h.	…	…	…
27	996·9	1001·0	90·3	88·7	93	87	17·2	16·1	88	91	15	3	27	3	7	3	—	● showers early. Fine.	…	…	…
28	1006·0	1006·3	87·9	86·7	90	86	12·6	12·3	75	79	1	3	—	1	7	8	--	c. to dull. Fine sunset.	…	…	…
29	1003·6	1005·9	86·6	86·6	*n* 89	85	11·9	11·6	77	75	1	4	29	7	10	3	1·3	$\frac{p}{2}$ early. o. *a.* ● showers *p*. ⌒	…	…	…
30	1008·9	1010·3	88·0	88·2	91	85	13·2	16·3	78	95	25	4	19	3	10	10	1·5	● showers.	…	…	…
31	1007·1	1011·3	89·3	87·7	91	86	16·3	13·4	89	81	15	6	21	7	10●⁰	3	4·9	● showers *a.* Fine to c. *p*.	…	…	…
Means	1011·4	1011·8	90·2	89·2	92·7	87·1	16·6	16·0	85	87		3·4		3·7	7·6	6·5	121·6	Monthly **Totals** or **Means**.	17874	19 52·3	68 7·3
Normal	1012·7	1013·1	88·3	87·4	90·9	85·3	14·6	14·3	85	87		4·7		4·1	—	—	124·1 (45 yrs.)	**Normals.**			
	← 45 years →						← 30 years →				← 35 years →										

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—12/17.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.	9 h.		0·3 m.	1·2 m.		
	mb.	mb.	a. 200+	a. 200+	a 200+	a. 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.	a. 200+	a. 200+	a. 200+	cm.	cm.
1	1022·0	1020·3	95·6	93·8	x101	89	16·6	15·8	61	65	11	3	17	2	7	1	—	84	91·7	87·4	213	—
2	1023·3	1024·6	92·8	93·2	100	88	16·7	18·0	73	77	—	1	—	0	7	1	—	82	91·7	87·5	213	—
3	1027·3	1024·5	93·6	94·6	99	87	13·9	15·8	58	62	29	2	29	2	0	6	—	81	91·9	87·6	212	—
4	1025·1	1027·1	92·3	89·1	95	85	14·7	9·6	66	n 53	2	5	4	4	7	1	—	83	91·9	87·8	212	—
5	1027·8	1024·1	87·9	89·7	96	84	10·9	13·6	65	72	1	3	—	0	1	1	—	80	91·0	88·0	212	—
6	1022·8	1023·8	91·4	87·7	96	85	13·0	12·3	62	74	—	0	3	5	2	10	—	81	91·1	88·0	212	—
7	1024·2	1023·9	86·1	87·5	95	85	10·2	12·8	68	78	4	4	10	3	10	?5	—	84	90·5	88·0	211	—
8	1024·8	1023·1	87·4	89·2	95	84	12·3	14·1	76	77	5	2	—	1	10≡0	0	—	82	90·3	88·0	211	—
9	1021·3	1019·7	91·7	91·2	100	88	16·9	14·7	79	71	—	0	—	1	?6∞	5	—	81	90·3	88·0	210	—
10	1020·7	1020·2	92·1	93·6	100	87	15·1	17·8	69	74	—	1	—	1	4≡0	7	—	83	90·7	88·0	209	—
11	1019·7	1017·1	92·5	93·2	99	87	14·9	17·3	66	74	—	1	—	0	8≡0	10	—	82	91·1	88·0	208	—
12	1014·2	1009·5	93·7	91·9	100	89	15·7	18·0	65	83	15	4	21	2	9	10	1·6	85	91·4	88·1	207	—
13	1007·8	1006·4	93·2	91·8	97	x 90	16·9	17·0	72	79	19	6	19	4	9	10	5·2	87	91·4	88·2	206	—
14	1002·8	1002·7	92·1	89·7	95	89	17·7	16·0	81	85	19	6	19	5	10	2	13·2	89	91·0	88·2	206	206
15	1002·3	1003·4	91·3	88·7	93	88	14·6	14·8	70	84	19	6	19	3	9	9	6·2	86	91·8	88·3	206	—
16	1006·1	1006·7	90·1	88·5	93	87	14·7	14·2	76	81	19	3	17	2	8	9	5·7	85	89·9	88·3	207	—
17	1004·5	1005·7	88·6	87·8	92	87	15·8	15·3	90	92	9	2	32	2	9	4	1·0	83	89·7	88·2	208	—
18	1008·5	1008·1	88·7	87·7	93	85	14·3	15·2	81	92	28	2	24	2	?9	10	7·8	84	89·6	88·3	210	—
19	1010·1	1012·6	88·2	88·5	92	85	12·5	14·7	73	84	30	3	—	1	6	4	—	85	89·7	88·2	212	—
20	1012·7	1013·7	89·6	88·5	93	85	14·2	11·7	76	67	23	4	—	1	9	0	0·2	80	89·2	88·1	214	—
21	1015·3	1016·4	88·5	89·2	94	83	12·1	12·6	69	69	29	4	—	1	4	9	—	77	88·7	88·1	216	216
22	1017·9	1017·0	87·4	88·8	93	82	13·3	14·2	82	80	—	1	—	1	?1≡0	8	—	77	88·6	88·1	216	216
23	1014·7	1011·0	91·0	89·7	95	86	15·5	15·3	76	81	16	2	—	1	9	8	0·4	84	89·0	88·0	214	—
24	1009·3	1008·1	91·0	90·8	94	89	15·5	17·6	76	87	22	3	19	5	9	10	0·7	85	89·6	88·0	212	—
25	1004·4	998·1	91·5	89·5	93	89	18·0	17·0	85	91	17	3	19	3	10	2	5·8	88	90·0	88·0	210	—
26	998·2	1001·3	91·0	88·7	95	88	15·5	16·6	76	94	21	5	19	2	7	5	9·9	87	89·9	88·0	208	—
27	1001·7	1001·2	91·1	87·7	93	87	15·0	15·2	73	92	20	5	23	2	4	6	10·3	84	89·6	88·0	207	—
28	1002·9	1005·2	89·8	89·5	94	86	15·5	15·1	82	81	21	3	—	1	8	10	0·8	83	89·4	88·0	206	—
29	1000·9	991·5	87·7	88·1	89	87	14·4	16·3	87	96	5	2	4	5	10≡0●	10●	x 28·8	84	89·7	88·0	207	—
30	997·6	1011·1	84·4	84·8	n 88	84	11·2	12·2	84	89	31	7	—	1	10●0	5≡0	1·9	84	88·8	88·0	209	—
31	1016·3	1016·2	87·0	88·8	92	n 80	11·6	14·9	73	84	20	3	18	4	2	4	1·9	n 76	87·7	88·0	211	—
Means	1013·1	1012·7	90·3	89·7	94·9	86·2	14·5	15·0	74	80		3·1		2·2	6·9	5·9	101·4	83·1	90·2	88·0	210	—
Normal	1014·2	1014·1	89·6	88·8	94·1	85·1	13·9	14·1	75	80		3·5		2·5	—	—	56·6 (45 years)	—	89·7	88·1	—	—
	45 years						30 years				35 years								12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

																			Remarks.
1	990·4	990·7	89·8	87·4	92	81	16·3	13·3	86	82	18	8	17	2	10≡0	7	0·4		Bright intervals a. ● showers p.
2	994·6	996·7	87·0	86·8	92	83	12·4	11·9	78	76	23	3	23	5	10	9	—		Sunny a.
3	997·8	997·3	89·6	87·0	91	86	13·7	13·0	73	82	22	7	20	2	8	7	—		o. to fine
4	1000·3	1000·9	86·1	86·0	96	84	13·6	10·1	91	68	—	1	1	4	9	4	—		c. to fine. v.
5	999·5	997·0	92·4	89·7	x 99	80	15·2	13·9	68	74	17	3	3	2	0	0	—		Continuous sunshine. Unusual v.
6	998·5	999·1	85·6	83·4	90	82	12·9	10·9	89	87	4	4	3	4	10	10	—		o. and damp to fine.
7	998·4	997·9	86·3	85·4	93	81	11·5	12·4	76	87	3	4	32	4	0	1	—		Fine and cloudless.
8	997·2	995·4	89·4	86·4	97	78	12·2	11·6	66	76	—	0	—	1	2∞	1∞	—		Fine, but ∞.
9	994·6	993·7	90·8	87·6	97	80	14·7	14·3	73	87	—	0	—	0	3∞	10∞	—		Fine, but ∞.
10	994·1	993·4	86·8	85·3	95	81	15·2	11·0	97	78	—	1	—	1	10≡0	1∞	—		≡2 early to fine. ┳ 17 h.
11	991·7	988·4	90·5	87·6	93	78	15·7	15·1	79	92	14	3	17	2	4∞	9	—		≡ early to fine. ≺ 22 h.
12	983·3	977·5	89·5	89·0	94	86	15·8	16·6	85	92	15	2	17	8	10	10≡0	7·2		Dull, with ≡0.
13	973·9	971·3	87·9	88·6	90	x 87	15·6	16·4	93	93	18	8	16	9	10	10	8·7		d. 7 h. ● showers later.
14	969·1	969·3	87·6	86·3	90	86	14·1	14·4	86	95	18	4	16	2	10	10≡0	3·0	No record.	d. and ≡ early. ●2 10 h. and 19 h.
15	970·1	972·9	86·6	85·6	89	84	13·3	13·3	86	92	6	3	3	5	10	9	8·5		Dull and d. ↯ 13 h. ⊕ 18 h.
16	976·5	979·7	87·4	85·2	90	84	13·3	12·9	82	91	4	6	2	2	9	8	0·4		o. to dull; brighter later.
17	981·1	982·3	86·7	84·9	90	84	13·2	12·6	85	91	2	6	2	2	9	10	4·1		Fine to c.
18	981·6	982·3	84·9	82·7	88	82	12·6	11·0	91	92	—	1	—	1	10	3	2·9		● at intervals 9 h.–13 h. ↯ 14 h.
19	982·9	983·0	85·0	85·0	89	82	11·7	12·2	84	88	—	0	—	0	9	10	0·1		Dull and o.
20	981·5	985·0	87·1	84·9	89	83	12·8	11·3	80	82	20	3	27	5	8	7	1·3		● showers 10 h.–12 h. ≺ 22 h.
21	987·2	989·3	89·1	84·4	92	81	11·5	11·5	n 63	86	—	1	31	2	2	3	—		Fine to c. ┳ 14 h.
22	990·0	988·5	85·4	81·7	91	79	11·6	10·4	81	93	—	0	—	0	10	1	—		o. to fine.
23	985·6	982·4	86·7	86·8	93	80	13·7	14·9	88	95	—	0	—	1	10≡0	10≡0●0	—		≡0 early. o. to sunny p. d. from 20 h.
24	979·2	976·8	87·7	86·8	91	84	14·1	15·2	85	97	—	0	—	0	10≡0	10●	25·1		o. and d. ● from 19 h.
25	973·3	967·7	87·5	88·5	91	86	15·6	17·2	95	98	32	2	—	0	10●≡0	10●	x 35·3		●≡0 a. ●2 showers p.
26	965·2	969·3	87·9	86·0	89	86	15·3	13·5	91	91	21	6	—	0	10●0	8	1·4		●2 2 h.–3 h. ● showers p. ⩊ 21 h.
27	970·4	971·0	88·2	86·5	91	84	13·4	14·5	78	94	25	3	19	2	9	10	16·6		⩊ glow 1 h. Mostly o. ● p.
28	974·5	978·4	82·8	79·6	n 86	78	10·8	9·1	89	94	3	5	—	0	10	6≡0	0·3		d. and o.
29	977 0	975·4	85·4	82·7	89	n 74	10·2	10·4	71	87	—	0	—	1	3	?5≡0	—		Thick wet mist 1 h. Fine. v.
30	977·1	981·9	84·9	80·4	88	77	11·3	8·8	82	86	3	2	—	0	8∞	9∞	0·2		≡0∞ to fair. ⊕0 9 h.
31	981·9	979·0	85·9	86·4	89	77	14·2	13·3	96	87	18	7	21	7	10	10●0	4·9		Mostly o. d. at times.
Means	984·5	984·3	87·4	85·6	91·4	81·8	13·5	12·8	83	88		3·0		2·4	7·8	7·0	120·4	—	Monthly Totals or Means.
Normal 1911-15	985·7	986·0	86·4	84·5	89·7	81·1	12·5	12·1	81	89		4·5		3·3	—	—	103·6	—	Normals.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 17 days ; they are computed from the data for those days on which values at each of the four hours, 3^h, 9^h, 15^h, 21^h, are given in the table. A similar note applies to the values in Table 6.

x denotes the maximum and *n* the minimum value in the column. *z* Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre. Factor 2·03.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
						+ .	− .				Mean Time.		Mean Time.		Mean Time.	
		3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.								
		v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².			h m	γ	h m	° ′	h m	° ′
1	≡⁰ early. Fine and hot from 9 h.	70	240	100	170	...	...	...	1	0	...	...	...	...	...	...
2	Fine and warm.	180	305	100	80	·87	·38	0·65	1	1	...	...	...	...	...	...
3	Fine all day. ∞ *p*.	80	205	90	195	...	...	...	0	1	11 2	18413	14 17	15 13·5	14 53	66 58·7
4	c. 9 h.–14 h. Fine.	115	225	170	340	...	...	...	0	0	...	...	...	...	...	...
5	Very fine throughout.	250	295	150	115	...	...	...	1	1	...	...	...	...	...	...
6	Fair to fine. ∞ *p*.	70	225	240	225	...	...	...	0	2	...	...	...	...	...	...
7	o. till 11 h., then fine. ∞ *p*.	135	285	285	215	...	...	...	0	1	...	...	...	...	...	...
8	≡⁰ early. o. till 12 h., then fine. ∞	320	330	330	270	...	...	...	0	1	...	...	...	...	...	...
9	c. till 8 h., then fine to fair. ∞	90	260	100	90	...	...	...	0	1	...	...	...	...	...	...
10	o. till 9 h., then fine. ∞²	70	260	115	100	·34	·17	0·80	1	0	11 5	18432	14 31	15 10·8	15 4	66 57·4
11	Fine to fair. ⊕ 13 h. ∞ *p*.	90	510	90	55	...	...	...	1	1	..	...	...	...	...	...
12	Dull to fair. ● at times *p*.	150	170	125	*z* ±	...	...	...	1	0	...	...	...	...	...	...
13	Dull and o. to fair.	55	90	90	150	...	...	...	1	0	...	...	...	...	...	...
14	● showers ; bright intervals. ⚿ 18 h.	70	180	...	180	...	...	...	1	1	...	...	...	...	...	...
15	●² 12 h. ⌒ 18 h. ┳ *p*.	115	205	*z* ±	270	...	...	...	1	0	...	...	...	...	...	...
16	● showers *a*. v. *p*. ┳● 15 h.	170	225	*z* ±	225	...	...	...	1	0	..	...	...	...	...	...
17	● early. Fine 10 h.–12 h. ┳ *p*.	115	*z* ±	455	350	...	...	...	2	0	11 15	18435	14 17	15 11·9	14 52	66 55·8
18	Dull till 15 h. ⚿● 17 h.	135	160	115	*z* ±	...	...	...	1	0	...	...	...	...	...	...
19	● 1 h.–2 h. Fair to fine.	*z* +	215	80	205	...	...	...	1	1	...	...	...	...	...	...
20	Dull to fair till 14 h., then fine.	115	115	90	150	...	...	...	0	1	...	...	...	...	...	...
21	Fine throughout.	160	260	100	125	...	...	...	0	1	...	...	...	...	...	...
22	≡⁰ early. Fine till 16 h. ∞² *p*.	90	270	240	160	·61	·76	0·05	0	2	...	...	..	...	...	...
23	Dull till 10 h. and from 12 h.	80	180	70	205	...	...	...	0	2	...	...	...	...	...	...
24	Fair to fine till 13 h., then dull.	70	115	...	70	...	...	...	0	1	...	...	14 20	15 12·7	14 41	66 57·8
25	Dull ; ● at times.	...	...	*z* −	225	...	...	...	1	0	...	...	...	...	...	...
26	⚿●² 14 h. and 15 h. ⌒ 18 h.	115	160	*z* −	295	...	...	...	2	2	...	...	...	...	...	...
27	● at times. Occasional sunshine *p*.	135	180	*z* −	270	...	...	...	2	2	...	...	...	...	...	...
28	Dull to fine.	225	195	90	215	...	...	...	1	1	11 21	18425	...	...	...	...
29	Dull ; ● most of day.	180	100	...	...	...	...	...	1 ?	1	...	...	...	...	...	...
30	Dull, with ● till 14 h.	...	...	...	...	·51	·46	...	2	1	...	...	...	...	...	...
31	Fine till 11 h. ; dull to fair *p*.	...	...	150	180	·46	·34	0·60	0	0	11 6	18420	14 23	15 12·5	14 47	66 58·5
M.		129*	250*	144*	168*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre. Factor 5·70.				Charge per cc. $\times 10^{16}$. + . | − .	Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
									Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.	About 15 h.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	Coulomb.	Amp/cm².														
1	87	323	118	228	... ...	...	1 *b*	0	{19 45 / 20 15}	1024	957	11 30	13 53	1056	982	8 43	{4 45 / 17 22}	114	94	14 0
2	236	197	134	150	... ...	...	0 *a*	1	5 47	1058	898	9 59	13 55	1075	935	8 53	17 25	130	83	10 18
3	150	94	150	386	... ...	...	1 *a*	0	15 31	1018	939	9 34	15 30	1050	976	7 12	15 37	122	85	4 19
4	307	87	94	?87	... ...	...	? 0 *a*	0	22 31	1040	960	11 55	14 40	1038	982	7 23	17 0	117	100	9 50
5	157	401	157	504	... ...	...	0 *a*	1	23 35	1055	963	{10 44 / 10 48}	14 10	1066	972	23 17	16 44	143	85	24 0
6	370	299	79	87	... ...	...	0 *a*	1	17 56	1043	916	8 53	12 53	1060	957	20 37	18 1	168	73	6 28
7	79	118	142	118	... ...	...	0 *a*	1	18 17	1043	911	9 38	14 42	1055	976	{8 41 / 9 37}	18 45	150	53	2 40
8	142	189	236	370	... ...	...	0 *a*	1	17 47	1066	920	9 45	1 48	1056	967	7 32	17 38	154	71	3 1
9	386	220	275	79	... ...	...	0 *a*	1	14 15	1027	958	10 39	14 13	1063	980	7 45	15 6	129	92	0 54
10	244	307	165	323	... ...	...	1 *b*	0	20 50	1013	953	11 0	13 6	1036	985	7 12	18 1	130	101	12 0
11	449	331	197	244	.. ...	...	0 *a*	0	19 50	1048	964	9 54	20 16	1039	977	22 42	22 32	127	104	1 25
12	150	252	126	79	... ...	...	1 *a*	0	{10 11 / 10 17}	1021	958	9 34	13 50	1064	966	8 25	16 40	129	92	3 48
13	157	228	150	†	... ...	...	1 *b*	1	23 5	1059	947	11 13	12 49	1053	969	7 53	18 25	125	99	12 25
14	−71	165	134	†	... ...	...	1 *b*	1	17 18	1021	954	12 20	13 56	1064	967	8 3	16 46	142	94	3 45
15	71	142	*z*	236	... ...	...	1 *c*	0	18 28	1011	954	10 25	{14 30 / 14 37}	1042	979	7 2	17 40	126	96	12 0
16	268	252	*z*	220	... ...	...	1 *b*	0	21 30	1018	960	11 19	14 18	1053	984	8 50	17 25	122	98	12 0
17	157	79	94	173	... ...	...	1 *a*	0	21 39	1023	954	{10 57 / 11 24}	13 23	1042	978	6 40	5 0	123	105	10 40
18	†	126	†	†	... ...	...	...	0	18 14	1022	957	{11 37 / 11 43}	13 30	1054	981	7 47	17 25	126	99	12 0
19	†	165	150	275	... ...	...	? 0 *a*	1	22 14	1070	940	13 38	14 5	1059	971	8 1	19 2	168	100	23 30
20	71	126	87	236	... ...	...	1 *b*	1	18 40	1038	944	12 7	14 44	1041	969	7 42	16 40	141	54	2 17
21	181	150	126	189	... ...	...	0 *a*	1	{18 33 / 18 41}	1035	960	12 37	15 17	1049	973	7 29	18 18	145	105	24 0
22	157	150	165	370	... ...	..	0 *a*	2	20 15	*x* 1275	829	20 33	20 27	*x* 1092	878	20 7	20 11	172	−10	21 12
23	205	165	71	31	... ...	...	1 *a*	2	17 29	1109	909	22 0	1 13	1066	925	23 10	17 22	*x* 181	10	1 43
24	323	173	189	307	... ...	...	1 *a*	0	16 9	1055	930	11 19	13 30	1043	946	0 14	16 14	151	80	0 0
25	−79	157	228	†	... ...	...	1 *b*	0	19 13	1008	946	11 3	12 28	1038	986	5 22	7 1	131	105	11 48
26	*z*	236	−31	‡	... ...	...	...	2	19 48	1096	845	22 29	20 35	1067	917	22 7	18 45	135	−53	22 25
27	‡	‡	‡	‡	... ...	...	...	2	20 29	1015	*n* <660	...	4 38	1073	*n* 772	2 4	10 3	155	*n* <−267	{2 42 / 4 14}
28	150	157	24	496	... ...	...	? 1 *b*	0	22 3	1014	931	11 40	13 18	1043	965	6 24	...	...	? 108	3 5
29	236	197	94	488	... ...	..	0 *a*	1	16 53	1033	902	9 29	14 2	1045	955	16 38	16 38	...	...	...
30	575	244	118	244	... ...	..	0 *a*	1	17 38	1012	935	10 50	13 24	1055	973	8 53	19 5	151	111	0 0
31	118	165	110	79	... ..	...	1 *a*	0	21 52	1006	926	10 12	13 10	1050	966	7 17	16 45	141	116	0 0
M.	224*	201*	134*	239*	— —	—	—	—	—	1045¶	934¶	—	—	1054	958	—	—	1398	808	—

* 22 days. *See* note above. † Electrograph earthed. ‡ Instrument out of order. § 28 days. ¶ 30 days.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
3	Pe	1 50 34	...	...	...	...	9450	
	PR	1 54 21	...	...	...	...	...	
	S	2 1 7	...	...	...	...	...	
	SR	2 8 3	...	...	...	...	...	
	M	2 32 3	32	...	53	...	...	
	M	2 32 13	29	39	...	...	...	
	F	4	...	...	...	...	...	
3		15 1 to	...	...	...	...	...	Faint disturbance.
		15 10	...	...	...	...	...	
5		4 35 to	...	...	...	...	...	,,
		4 44	...	...	...	...	...	
6	L	23 24 to	19	...	...	...	...	Long waves.
		24 20	...	...	...	...	...	
8	P	4 37 3	...	...	...	...	9230	Slight earthquake.
	PR	4 40 39	...	...	...	...	...	
	S	4 47 25	...	...	...	...	...	
	SR	4 53 29	...	...	...	...	...	
	L	5 4	...	...	...	...	...	
	M	5 9 39	28	8	...	...	...	
	M	5 18 4	18	7	...	...	...	
	F	6	...	...	..	...	...	
8	i	19 6 16	...	...	...	...	...	Preliminary phases very faint.
	i	19 10 0	...	...	...	...	...	
	i	19 16 50	...	...	...	...	...	
	L	19 41	...	...	...	...	...	
	M	19 43 31	26	...	7	...	...	
	M	19 43 42	25	6	...	...	...	
14		7 31 to	...	...	...	...	...	Faint disturbance.
		7 45	...	...	...	...	...	
14		21 50 to	...	...	...	...	...	,,
		22 6	...	...	...	...	...	
15	L	0 41	...	...	...	...	...	
15		9 25 to	...	...	...	...	...	
		9 41	...	...	...	...	...	
15		14 7 to	...	...	...	...	...	
		14 22	...	...	...	...	...	
15		16 46 to	...	...	...	...	...	
		16 54	...	...	...	...	...	
16	P	7 9 57	...	...	...	...	2350	
	S (?)	7 13 50	...	...	...	...	...	
	M	7 16 35	14	19	...	...	...	
	F	8 5	...	...	...	...	...	
16		8 21 to	...	...	...	...	...	,,
		8 48	...	...	...	...	...	
16		9 52 to	...	...	...	...	...	,,
		10	...	...	...	...	...	
16	L	13 30	14	2	...	...	...	Long waves.
17	L	11 9 to	18	...	...	...	...	,,
		11 18	...	...	...	...	...	
18	Pi	0 25 24	...	...	...	...	...	Distant slight earthquake. Steep
	S	0 36 3	...	...	...	...	...	emergence. L inconspicuous.
18		16 39 to	...	...	...	...	...	
		16 44	...	...	...	...	...	
25	Pe	9 57 44	...	...	...	...	...	
	PR	10 1 35	...	...	...	...	...	
	S	10 8 23	...	...	...	...	...	
	SR	10 14 56	...	...	...	...	...	
	L	10 20	...	...	...	...	...	
	M	10 26 13	...	...	...	...	...	
	M	10 34 33	28	28	...	...	...	
	M	10 35 3	26	...	20	...	...	
	F	12 40	...	...	...	...	...	
26		11 14½ to	...	...	...	...	...	Slight disturbance. No definitely
		12 0	...	...	...	...	...	marked phases.
27	Pe	22 55 1	...	...	...	...	9000	
	S (?)	23 5 12	...	...	...	...	...	
	L	23 21	...	...	...	...	...	
	L	23 27	32	16	...	...	...	
	M	23 36 35	18	17	...	...	...	
	F	24	...	...	...	...	...	
28		*	*	*	*	*	*	
30		16 20 to	...	...	...	...	...	Prolonged faint disturbance.
		17 0	...	...	...	...	...	

Microseisms of N. Component:—Eskdalemuir.

Day.	0 h. A_N.	0 h. T.	6 h. A_N.	6 h. T.	12 h. A_N.	12 h. T.	18 h. A_N.	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	0·5	4	0·8	4	0·8	4	0·7	4·5
2	0·8	5	0·8	4·5	0·7	5	0·8	5
3	0·6	4·5	0·4	4·5	0·8	5	0·7	5
4	0·6	5	0·5	6	0·5	5	0·6	5
5	0·7	4·5	0·5	5	0·5	5	0·6	5
6	0·5	5	0·5	5	0·6	5	0·6	5
7	?Small ea	rthquake	0·2	4	0·2	4·5	0·2	4
8	0·0	...	0·0	...	0·0	...	0·0	...
9	0·0	...	0·0	...	0·0	...	0·0	...
10	0·0	...	0·0	...	0·0	...	0·0	...
11	0·0	...	0·0	...	0·3	4·5	0·5	5
12	0·7	5·5	0·7	5·5	0·9	6	0·8	6
13	0·9	5·5	0·8	6	0·7	5·5	0·8	5·5
14	0·7	6	0·7	5·5	0·8	5·5	0·6	6
15	0·8	5	0·7	5	0·7	4	0·4	4·5
16	0·5	4·5	0·4	5	0·3	4	0·2	4
17	0·0	...	0·0	...	0·0	...	0·0	...
18	0·0	...	0·0	...	0·0	...	0·0	...
19	0·0	...	0·0	...	0·0	...	0·0	...
20	0·0	...	0·0	...	0·0	...	0·0	...
21	0·0	...	0·0	...	*	*	*	*
22	0·3	4	0·2	4	0·3	5	0·5	4
23	0·6	4·5	0·6	5·5	0·8	6	0·7	6
24	0·7	6·5	†	†	0·5	5	0·4	5
25	0·6	5	0·7	5·5	Earth	quake	0·8	6
26	0·8	5	†	†	0·8	5	0·9	4
27	†	†	†	†	0·6	4·5	0·6	4·5
28	?0·3	4	? Earth	quake	0·6	4	0·3	4
29	0·3	4	0·3	4	0·7	4	0·8	4·5
30	0·7	4·5	0·3	4	0·2	4	0·1	4
31	0·3	4	0·6	4	0·7	4·5	1·0	5

* Instrument under adjustment. † Clock stopped.

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
3	2 2	2 52	Continued until at least 3h 52m.
6	...	23 45	Very small.
8	...	5 22	Several nearly equal very small maxima from 5h 12m to 5h 25m.
8	...	19 53	Very small.
15	...	9 26	,,
18	...	16 40	,,
25	...	...	Visible from 10h 0m to 11h 30m, maximum probably during changing time.
26	...	11 16	Very small.
27	...	23 38	Small.
28	6 50	7 21	Amplitude on trace 5·0 mm.
28	...	8 21	Amplitude on trace 3·5 mm. May be part of earthquake commencing at 6h 50m.
30	...	16 30	Very small and somewhat doubtful.

* The traversing clock of the horizontal Galitzin seismograph stopped during the passage of the large earthquake on 28th August. P was recorded on the vertical Galitzin instrument at 6h 50m 5s, and on the Milne-Shaw instrument at 6h 50m 4s. The maximum vertical displacement was recorded at 7h 19m 37s.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	3·8	...	0·8	...	7·3	...	3·0	...	6·7	...	2·8	...	5·2	...	2·1	...	14·2	11	30
2	...	0·6	2·9	...	...	0·2	1·0	..	..	0·5	1·2	...	1·8	...	2·7	..	10·0	0	50
3	...	...	3·9	...	...	1·0	5·1	...	...	0·8	3·8	...	3·3	...	3·3	...	10·2	1	10
4	...	0·7	0·1	...	...	3·3	3·3	...	...	4·0	1·6	...	...	0·9	0·4	..	8·8	7	45
5	...	2·4	1·0	...	...	1·2	0·5	...	...	2·3	2·3	...	...	1·7	1·1	...	5·6	15	15
6	...	1·1	0·7	...	...	1·9	1·3	...	...	4·8	..	2·0	...	4·1	...	10·0	16·0	20	35
7	...	2·8	...	6·7	...	0·2	...	1·0	...	3·0	1·3	...	1·0	...	...	2·4	11·8	4	15
8	0·2	...	...	0·2	0·5	...	...	0·5	...	...	4·3	...	...	...	1·0	...	6·8	14	55
9	...	0·1	0·7	...	...	0·1	0·7	...	...	0·9	2·1	...	...	0·4	0·9	...	5·7	12	0
10	1·6	...	...	...	1·8	...	2·7	...	...	...	3·6	...	4·1	...	2·7	...	8·2	18	20
11	3·5	...	0·7	...	4·9	...	...	...	5·2	...	...	...	4·3	...	...	...	10·5	16	55
12	6·1	...	...	1·2	7·4	...	...	1·5	6·6	..	...	...	6·1	...	1·2	...	15·9	14	25
13	5·7	...	2·4	...	7·6	...	3·1	..	7·6	...	3·1	...	8·7	...	1·7	...	15·4	14	0
14	3·5	...	3·5	...	4·7	...	4·7	...	6·0	...	4·0	..	3·7	...	3·7	..	13·4	12	45
15	3·7	...	5·5	...	0·9	...	4·5	...	..	...	5·9	...	0·5	...	2·6	...	12·4	5	5
16	...	...	5·6	...	...	...	3·3	...	..	1·8	2·7	...	...	2·3	2·3	...	8·1	2	45
17	...	5·6	...	...	...	6·5	1·3	...	...	6·7	2·8	...	...	4·8	2·0	...	10·7	14	45
18	...	1·3	0·9	...	...	1·4	3·3	...	...	2·7	1·8	...	...	2·5	2·5	...	7·4	7	50
19	...	2·5	2·5	...	...	5·5	3·7	...	0·9	...	4·5	...	2·4	...	5·7	...	10·9	23	55
20	...	...	5·9	...	...	1·5	7·7	...	2·0	...	4·8	...	..	1·7	2·5	...	11·9	5	35
21	...	...	...	1·6	...	0·6	1·5	...	3·0	...	2·0	...	2·2	...	1·4	...	7·0	18	45
22	1·3	...	...	0·9	4·5	...	0·9	..	3·6	...	2·4	...	1·1	...	0·7	...	8·4	12	40
23	2·9	...	...	0·6	4·0	...	...	1·6	5·7	...	...	2·4	3·3	...	...	1·4	11·6	10	50
24	5·6	...	...	...	5·2	...	2·1	...	7·1	...	...	1·4	6·1	...	1·2	...	13·4	18	55
25	5·2	...	...	...	6·6	...	...	4·4	4·2	...	...	0·8	4·5	...	1·9	...	13·3	15	20
26	3·6	...	2·4	...	1·7	...	2·5	...	4·4	...	4·4	...	4·4	...	4·4	...	13·0	15	5
27	3·7	...	3·7	...	3·5	...	3·5	...	4·1	...	2·7	...	3·3	...	3·3	...	10·9	16	45
28	...	6·0	6·0	...	...	6·0	6·0	...	...	4·2	4·2	...	..	1·7	1·1	...	14·7	7	10
29	0·2	...	...	0·9	...	4·2	...	4·2	...	6·0	...	4·0	..	8·3	...	1·7	12·5	22	10
30	...	0·5	...	0·5	...	6·8	4·6	...	...	2·7	4·1	...	2·2	...	3·2	...	11·5	7	45
31	3·0	...	2·0	...	6·9	...	2·9	...	10·0	...	4·1	...	5·6	...	5·6	...	18·3	14	0
S+N & W+E	77·2		63·8		107·9		86·4		117·5		87·1		102·2		76·7				
S−N & W−E	30·0		38·6		27·1		60·0		36·7		65·9		45·4		45·7				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Date.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	8·2	...	...	3·4	10·0	...	...	2·0	3·4	...	8·2	...	4·6	...	11·2	...	12·8	23
2	...	...	10·2	...	2·0	...	10·0	...	3·3	...	4·9	...	4·3	...	10·3	...	13·8	24
3	...	...	13·4	...	...	2·9	14·5	...	...	3·6	8·8	...	...	2·1	5·2	...	14·8	9
4	...	2·7	4·1	...	...	5·2	3·4	...	...	5·2	3·4	...	...	1·2	0·5	...	7·5	7
5	...	...	6·2	...	...	2·8	6·7	...	...	5·1	7·6	...	...	5·1	5·1	...	11·8	16
6	...	4·7	3·1	...	...	3·5	0·7	...	...	2·6	0·5	...	...	0·7	...	0·7	7·5	1
7	...	0·9	...	0·9	1·3	...	...	1·9	3·8	...	...	2·6	3·6	...	...	2·4	4·6	14, 15, 16, 19
8	4·3	...	...	1·8	2·1	...	...	0·9	2·1	...	...	0·9	1·2	...	...	0·5	4·6	3
9	0·6	...	...	0·3	2·1	...	...	0·9	1·8	...	...	0·8	...	0·8	...	1·8	2·6	22
10	...	0·1	...	0·3	...	0·4	...	0·9	...	1·0	...	0·2	...	2·0	...	0·4	2·3	18
11	...	1·3	...	0·3	3·8	...	...	2·6	6·2	..	...	4·2	5·6	...	...	5·6	8·5	20, 22
12	6·1	...	...	2·5	6·6	...	...	4·4	5·6	...	...	5·6	5·5	...	...	3·7	8·9	19
13	4·5	...	..	1·9	4·2	...	..	0·8	5·5	...	...	1·1	1·5	...	...	0·6	6·2	1
14	1·4	...	...	3·3	3·8	...	...	5·7	1·4	...	...	3·3	...	...	...	5·9	6·9	9
15	1·0	...	...	5·1	...	...	...	4·9	...	1·5	...	7·4	...	1·3	...	6·8	8·2	18
16	...	2·5	...	6·1	...	3·4	...	5·2	...	4·7	...	3·1	...	2·3	...	2·3	7·5	1, 2
17	...	4·3	...	2·9	..	3·6	...	1·5	...	2·6	...	...	...	2·6	...	...	5·2	2, 3
18	...	3·3	...	...	...	3·3	...	...	...	4·8	1·0	...	...	3·6	...	...	4·9	12, 15
19	...	3·0	1·3	...	...	3·3	1·4	...	..	4·5	1·9	..	...	1·8	0·8	...	4·9	4, 15
20	...	0·6	0·3	...	...	3·0	2·0	...	...	4·9	3·3	...	...	4·9	3·3	...	5·9	15, 16, 21, 22
21	...	4·9	4·9	..	...	5·2	3·4	...	...	6·9	2·9	...	...	3·2	2·2	...	7·5	15
22	...	3·3	1·4	...	...	3·8	0·8	...	...	3·8	...	0·8	...	0·9	...	0·4	4·9	14
23	...	0·6	...	0·3	1·6	...	...	1·6	1·0	...	...	2·4	0·3	...	...	0·6	3·3	13
24	...	0·7	...	1·1	...	1·2	...	0·5	...	1·3	...	3·0	...	0·5	...	2·6	3·3	15
25	...	...	...	3·3	1·0	...	...	5·1	1·2	...	...	5·8	1·0	...	...	5·1	6·2	13
26	...	1·0	...	5·1	...	3·0	...	7·3	...	4·4	...	4·4	...	2·3	...	2·3	7·9	7, 8, 9, 10
27	...	0·6	...	0·8	...	1·4	...	1·4	...	1·4	...	1·4	...	1·3	...	0·9	3·0	23
28	...	1·1	0·7	...	...	4·1	2·7	...	...	3·7	3·7	...	...	0·8	4·2	...	5·6	12, 16
29	0·6	...	3·2	...	2·0	...	4·8	...	...	1·9	4·5	...	...	0·5	1·2	...	6·6	11
30	...	0·5	1·2	...	...	0·4	0·9	...	3·2	...	0·6	...	2·9	...	0·6	...	4·3	24
31	4·8	...	...	1·0	6·8	...	...	1·4	9·0	...	...	1·8	5·2	...	...	...	9·2	15
S+N & W+E	67·6		90·4		97·8		100·3		111·4		100·1		73·6		87·2			
S−N & W−E	−4·6		9·6		−3·2		2·3		−16·4		2·5		−2·2		2·0			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	1·7	...	...	...	1·3	...	..	...	1·4	2·1	...	...	2·1	2·1	...	4·3	17	50
2	...	0·9	0·9	...	...	1·5	1·5	...	...	...	2·9	...	...	0·5	1·2	...	3·8	0	25
3	..	0·2	0·4	...	...	1·2	0·5	...	...	3·5	...	1·5	...	1·8	...	1·8	5·6	18	55
4	..	4·1	...	4·1	...	3·0	...	3·0	...	4·2	...	2·8	...	1·3	...	3·1	9·8	11	35
5	..	...	...	1·7	2·2	...	...	5·4	1·5	...	...	3·5	0·2	...	...	0·4	7·1	9	35
6	0·7	...	...	1·6	0·4	...	...	0·7	...	3·5	...	2·3	...	1·6	...	0·7	4·0	14	25
7	1·6	...	...	3·9	3·7	...	...	8·9	5·6	...	...	8·3	2·2	...	...	5·4	14·0	11	5
8	2·6	...	...	3·8	3·2	...	...	4·8	3·9	...	...	5·9	2·3	...	...	3·5	9·3	13	10
9	1·6	...	...	3·9	0·7	...	...	1·6	...	2·5	...	...	...	2·4	1·6	...	3·6	19	25
10	...	2·1	1·4	...	...	1·8	1·2	...	...	1·1	2·7	...	...	ca	lm	...	2·5	6	40
11	...	...	2·1	...	2·9	...	...	...	5·8	...	...	2·4	7·3	...	...	3·0	9·0	21	40
12	5·8	...	...	2·4	5·8	...	...	...	2·6	...	6·2	...	1·9	...	4·6	...	10·0	1	5
13	2·2	...	5·4	...	...	...	7·1	...	2·7	...	6·6	...	1·5	...	7·8	...	12·0	3	40
14	...	...	8·8	...	...	3·2	7·7	...	...	...	10·0	...	...	4·3	10·4	...	16·7	17	40
15	...	3·8	9·2	...	...	3·7	8·9	...	...	2·9	6·9	...	...	1·5	7·8	...	16·7	5	45
16	...	...	6·3	...	1·8	...	4·3	...	...	1·3	3·1	...	...	2·7	1·1	...	7·8	1	30
17	...	1·2	0·5	...	...	5·8	...	...	...	5·4	2·2	...	...	4·7	4·7	...	10·6	9	35
18	...	3·2	2·1	...	...	1·2	1·2	...	...	ca	lm	...	...	1·8	1·8	...	5·9	1	30
19	...	2·3	1·0	...	...	5·0	...	...	...	6·7	...	...	...	2·4	1·6	...	10·7	11	35
20	...	2·1	3·2	...	...	2·1	3·2	...	...	1·3	3·1	...	...	1·1	2·7	...	4·5	3	45
21	...	ca	lm	...	1·2	...	1·2	...	2·1	...	...	0·4	...	ca	lm	...	1·6	14	0
22	1·9	...	0·8	...	4·6	...	...	1·9	5·4	...	...	2·2	6·2	...	...	2·6	8·3	23	15
23	7·7	...	...	3·2	9·2	...	...	3·8	...	1·0	4·9	...	...	...	4·2	...	14·6	7	40
24	2·3	...	3·5	...	6·2	...	1·2	...	6·2	...	2·6	...	6·7	...	...	...	13·2	23	10
25	10·8	...	...	...	...	...	5·4	...	2·2	...	5·4	...	2·8	...	4·2	...	15·2	3	35
26	...	...	8·3	...	1·8	...	4·3	...	...	...	6·7	...	1·1	...	5·7	...	12·2	1	10
27	1·8	...	4·3	...	...	...	5·4	...	1·1	...	5·7	...	...	...	5·8	...	13·7	6	0
28	...	0·6	3·2	...	...	0·5	1·2	...	...	2·7	...	1·8	...	1·1	...	2·7	7·7	2	45
29	...	1·9	...	4·6	...	7·4	...	7·4	...	11·6	...	4·8	..	13·5	2·7	...	20·9	17	20
30	...	8·9	3·7	...	...	6·9	2·9	...	...	1·6	2·4	...	...	1·0	4·9	...	17·7	3	45
31	1·6	...	3·9	...	2·1	...	5·0	...	4·2	...	6·2	...	4·6	...	6·9	...	12·2	5	40
S+N & W+E	73·6		98·2		90·4		99·7		94·0		115·6		80·6		105·0				
S−N & W−E	7·6		39·8		1·2		24·7		−7·4		43·8		−7·0		58·6				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Date.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust (Gorleston).	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	0·5	...	...	2·6	3·3	...	...	1·4	6·1	...	...	2·5	3·5	...	...	0·7	9·3	15	35
2	0·6	...	2·9	...	...	0·1	0·7	...	...	1·8	...	0·8	0·5	...	...	0·5	6·9	0	45
3	...	1·1	2·8	...	...	2·6	3·8	...	...	1·2	...	0·5	1·1	...	1·7	...	10·7	12	5
4	...	3·8	2·6	...	...	5·2	2·1	...	...	5·8	1·2	...	...	4·5	0·9	...	13·3	10	30
5	...	2·6	0·5	...	...	3·0	1·3	...	...	4·1	...	2·7	...	1·1	...	0·7	10·7	0	10
6	...	...	2·0	...	...	4·8	...	2·0	...	4·9	...	...	...	3·6	...	...	10·5	11	50
7	...	2·6	...	...	...	3·2	0·6	...	...	5·6	...	...	...	3·8	...	2·6	9·3	10	15
8	...	0·7	...	0·7	0·5	...	...	1·2	0·9	...	...	4·5	1·4	...	...	3·3	6·0	16	20
9	1·1	...	...	2·8	0·8	...	...	1·8	...	...	...	4·3	...	0·9	...	4·5	5·0	20	10
10	...	0·4	...	0·6	...	0·6	...	3·2	0·8	...	...	3·8	2·1	...	...	2·1	5·0	14	55
11	1·1	...	...	0·7	3·0	...	...	1·3	5·2	...	...	2·1	1·6	...	...	0·3	8·0	14	10
12	3·5	...	...	0·7	3·8	...	...	2·6	4·5	...	...	1·9	2·8	...	...	1·1	8·7	12	5
13	1·0	...	2·4	...	2·5	...	2·5	...	4·5	...	0·9	...	1·8	...	2·7	...	10·2	15	50
14	2·8	...	2·8	...	4·9	...	3·3	...	5·5	...	2·3	...	2·8	...	1·1	...	13·0	8	35
15	1·8	...	2·7	...	3·5	...	3·5	...	2·5	...	1·7	...	1·9	...	1·3	...	13·8	12	45
16	2·7	...	1·8	...	3·6	...	2·4	...	6·8	...	...	1·3	1·1	...	1·7	...	14·5	12	40
17	2·5	...	1·7	...	2·6	...	...	...	2·4	...	...	3·6	...	...	...	2·3	7·2	9	40
18	...	0·9	...	0·9	...	1·1	1·1	...	...	1·5	...	0·6	...	0·8	0·6	...	7·0	11	40
19	...	1·1	0·7	...	...	1·9	1·3	...	...	3·6	2·4	...	...	1·4	1·4	...	10·3	14	10
20	0·6	...	3·2	...	...	0·9	4·5	...	1·0	...	5·1	...	...	1·4	3·3	...	15·1	14	5
21	...	1·0	2·4	...	...	1·7	2·5	...	...	3·0	1·3	...	...	1·8	1·8	...	10·8	11	25
22	...	1·9	1·3	...	...	3·0	2·0	...	...	4·8	...	1·0	...	0·7	...	...	9·3	10	25
23	1·6	...	...	0·3	3·3	...	3·3	...	3·9	...	...	...	1·9	...	1·3	...	9·8	14	5
24	3·9	...	...	...	1·6	...	1·6	...	0·8	...	3·8	...	0·6	...	3·2	...	10·3	5	40
25	1·8	...	2·7	...	2·0	...	...	...	4·6	...	...	...	5·2	...	...	2·1	10·7	14	30
26	2·3	...	2·3	...	2·9	...	6·9	...	2·1	...	5·2	...	1·4	...	3·3	...	12·1	15	55
27	1·4	...	3·3	...	1·1	...	5·5	...	2·6	...	3·8	...	0·5	...	2·6	...	9·0	14	20
28	...	...	2·6	...	...	...	...	...	...	1·1	1·1	...	...	1·4	1·4	...	8·1	8	45
29	...	3·0	...	3·0	...	1·9	...	9·3	...	2·6	...	13·1	...	9·0	...	13·4	18·2	19	30
30	...	9·7	...	14·5	...	13·8	...	2·7	...	5·2	2·1	...	...	2·5	2·5	...	21·9	6	45
31	...	0·6	2·9	...	...	0·6	3·2	...	2·0	...	3·0	...	2·8	...	2·8	...	7·5	11	35
S+N & W+E	58·6		70·4		83·8		77·6		101·4		76·6		65·9		67·2				
S−N & W−E	−0·2		16·8		−5·0		26·6		11·0		−8·8		0·1		0·0				

9. Soundings with Pilot Balloons.

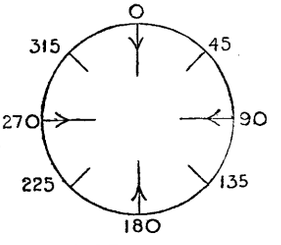
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind.														Cloud Observations.		
			Geostrophic.		By Anemometer.		At Heights above M.S.L.												
							500 m.		1000 m.		2000 m.		3000 m.		4000 m.		5000 m.		
			From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	Type.	From N.	m/s.
		h. m.	°		°		°		°		°		°		°		°			°	
2	S. Farnboro'	6 10	310	6	...	0·0	300	4·0	260	6·0	300	7·5	275	12·0	275	11·5	...	...	...	...	...
3	,,	6 15	360 ?	4 ?	325	light	5	7·5	320	7·0	310	7·5	335	8·0	...	...	...	...	...	...	...
3	Benson	7 15	360 ?	4 ?	?	?	335	6·5	345	6·0	345	6·5	...	...	...	...	...	...	...	...	...
4	S. Farnboro'	6 20	360	6	35	light	15	10·5	5	13·5	350	15·5	...	...	...	...	...	...	...	...	...
5	Eskdalemuir	7 10	360	4	...	0·0	285	3·8	340	4·6	350	10·5	340	14·5	...	...	...	...	Ci.	30	...
5	Benson	7 15	40	4	?	?	25	6·5	20	11·0	30	13·0	...	...	...	...	...	...	Fr.-Cu.	45	...
5	S. Farnboro'	9 0	40	4	45	light	15	1·5	30	12·5	35	13·5	25	16·5	...	...	...	...	...	...	...
7	Eskdalemuir	12 50	140	7	45	2·5	75	2·8	90	2·6	60	2·4	55	3·0	75	4·8	...	...	...	...	...
7	S. Farnboro'	13 25	100	6	55	3·0	55	6·5	55	4·5	85	8·5	...	...	...	...	...	...	...	...	...
8	Eskdalemuir	7 20	...	...	...	0·0	235	1·9	160	2·9	280	1·2	165	2·1	...	...	...	...	Ci.	220	1·7
8	S. Farnboro'	14 40	90	6	55	4·5	125	3·5	130	3·0	125	6·5	145	5·5	180	5·5	...	...	...	...	...
9	Eskdalemuir	7 20	...	...	...	0·0	...	0·0	125	1·9	165	2·3	145	3·3	...	...	...	...	Ci.	210	1·3
10	S. Farnboro'	6 15	350	4 ?	...	0·0	15	1·5	70	1·5	15	3·5	...	...	...	...	...	...	...	...	...
10	,,	10 45	350	4	325	light	55	0·5	40	1·5	340	2·5	...	...	...	...	...	...	...	...	...
11	,,	6 20	...	0	...	0·0	30	4·5	5	1·5	280	3·0	280	4·5	...	...	...	...	Ci.	315	...
11	Benson	7 20	...	0	?	?	10	2·5	250	2·1	250	3·1	...	...	...	...	...	...	A.-Cu.	340	...
12	S. Farnboro'	6 15	180	8	170	3·0	180	10·0	190	10·0	190	8·5	210	8·0	...	...	...	...	A.-Cu.	170	...
15	,,	6 10	240	14	235	6·5	255	14·0	250	15·5	240	10·0	...	...	...	...	...	...	Ci.	225	...
16	,,	6 15	250	10	235	5·0	235	10·0	240	10·5	245	7·0	230	13·0	...	...	...	...	...	...	...
21	,,	6 55	330	6	305	light	335	11·5	335	11·0	325	11·5	...	...	...	...	...	...	...	...	...
21	Eskdalemuir	7 15	340	5	155	0·2	325	1·4	25	1·3	330	10·0	320	14·0	...	...	...	...	Cu.	5	2·2
22	S. Farnboro'	6 10	...	0	...	0·0	15	5·0	335	5·5	315	6·5	...	...	...	...	...	...	Ci.	315	...
23	,,	6 10	180	5	190	light	190	8·5	185	8·5	280	3·5	245	7·5	...	...	...	...	...	...	...
24	,,	6 30	250	6	280	light	285	5·5	280	7·5	280	9·0	...	...	...	...	...	...	Ci.	340	...
28	,,	13 30	280	4	235	4·5	260	5·5	280	9·0	265	10·5	...	...	...	...	...	...	...	...	...
31	,,	6 15	270	6	...	0·0	265	5·5	285	9·5	305	9·5	310	8·0	...	...	...	...	...	...	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Benson	57 m.	25 m.
Eskdalemuir	242 m.	15 m.
S. Farnborough	70 m.	31 m.

Notes on Pressure Distribution.

August 2 7 h. Anticyclone from Azores to S.W. England. Depression N. of Faröe.
3 7 h. Anticyclone W. of Ireland. Depression off Norwegian coast.
4 7 h. Anticyclone W. of Ireland, extending over British Isles.
5 7 h. Anticyclone W. of Scotland, extending over British Isles.
7 7 h. and 18 h. Anticyclone over British Isles.
8 7 h. and 18 h. Anticyclone over British Isles.
9 7 h. Uniform high pressure over British Isles and surrounding areas.
10 7 h. Anticyclone over Bay of Biscay, extending over British Isles.
11 7 h. Anticyclone over France, England, and North Sea.
12 7 h. Anticyclone over Germany. Depression S. of Iceland.
15 7 h. Depression over N. England and Scotland.
16 7 h. Depression centred over N. England.
21 7 h. } Anticyclone British Isles to Madeira. Depressions over Atlantic and Russia.
22 7 h. }
23 7 h. Anticyclone over Germany. Secondary depression W. of Ireland.
24 7 h. Col. Depressions W. of Ireland and over Gulf of Bothnia.
28 7 h. Shallow depression over Denmark. High pressure over Atlantic.
31 7 h. Depressions S. of Iceland and over Denmark. Anticyclone Bay of Biscay to Azores.



Wind Protractor.

10. Nephoscope Observations at Aberdeen.

See page 56.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 9. SEPTEMBER 1916.] Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.				ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.					CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.		Bright Sunshine.		Radiation by Ångström Pyrheliometer.			Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	Maximum. 11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	6·2	46	1228	42	65	13 22	59	5·5	41	…	…	…	8·9	64	…	…	…	…	8·2	60
2	0·0	0	427	15	30	14 28	18	0·0	0	…	…	…	3·4	25	…	…	…	…	6·1	45
3	4·0	30	820	28	65	13 15	37	3·1	23	…	…	…	0·0	0	…	…	…	…	9·8	73
4	2·7	20	850	30	67	11 5	35	3·5	26	…	…	…	7·5	55	…	…	…	…	0·2	1
5	4·4	33	811	29	53	9 55	42	3·0	23	…	…	…	5·1	38	…	…	…	…	0·0	0
6	5·2	39	1080	39	*x* 71	12 22	71	7·0	53	…	…	…	0·0	0	…	…	…	…	0·0	0
7	6·5	49	1147	41	61	11 40	61	6·9	52	40	28	Hazy	3·5	26	…	…	…	…	4·2	32
8	1·9	15	834	30	57	13 25	30	2·4	18	…	…	…	6·4	48	…	…	…	…	3·6	27
9	2·6	20	764	28	63	13 58	21	2·7	21	…	…	…	6·6	50	…	…	…	…	*x*11·5	88
10	0·0	0	329	12	*n* 17	13 0	13	0·0	0	…	…	…	7·7	59	…	…	…	…	7·9	61
11	0·2	2	682	26	51	11 35	51	0·2	2	…	…	…	0·7	5	…	…	…	…	0·4	3
12	0·0	0	409	16	23	12 45	18	0·0	0	…	…	…	1·2	9	…	…	…	…	0·7	5
13	4·5	35	925	36	66	13 58	65	4·4	34	71	48	Clear	*x* 9·4	73	12 10	Clear	1·58	87	5·1	40
14	*x* 9·7	76	*x* 1512	59	66	12 45	64	*x* 10·0	79	69	46	Clear	8·5	66	…	…	…	…	4·5	35
15	3·4	27	1036	41	68	11 7	67	3·7	29	72	48	Clear	2·2	17	…	…	…	…	0·0	0
16	6·7	53	1009	40	65	12 5	65	7·7	61	57	38	Hazy	8·1	64	…	…	…	…	8·9	71
17	1·1	9	848	34	52	10 27	30	1·1	9	…	…	…	0·0	0	…	…	…	…	0·0	0
18	5·8	46	1076	44	*x* 71	12 10	71	5·6	45	77	50	Clear	3·9	31	…	…	…	…	5·6	45
19	3·5	28	676	28	65	12 8	65	2·4	19	…	…	…	5·2	42	…	…	…	…	2·1	17
20	0·7	6	574	24	35	15 50	24	0·8	7	…	…	…	6·7	54	…	…	…	…	0·8	6
21	8·7	71	1247	53	60	11 21	59	8·4	69	47	30	Hazy	1·6	13	…	…	…	…	0·0	0
22	1·2	10	726	31	46	10 35	28	2·1	17	…	…	…	0·0	0	…	…	…	…	0·1	1
23	3·5	29	845	37	56	12 39	52	4·4	36	…	…	…	0·9	7	…	…	…	…	0·3	2
24	1·5	12	610	27	48	12 45	47	2·5	21	…	…	…	3·0	25	…	…	…	…	0·7	6
25	6·0	50	908	41	40	12 12	40	7·0	58	…	…	…	4·6	38	…	…	…	…	0·0	0
26	0·7	6	423	19	33	14 30	19	0·8	7	…	…	…	0·7	6	…	…	…	…	6·8	57
27	0·9	8	448	20	44	11 27	19	0·8	7	…	…	…	0·0	0	…	…	…	…	5·2	44
28	1·0	8	509	24	42	12 55	40	2·1	18	14	9	Ci.	4·1	35	…	…	…	…	4·6	39
29	0·0	0	*n* 280	13	19	13 20	16	0·0	0	…	…	…	0·2	2	…	…	…	…	5·6	48
30	2·7	23	759	36	50	12 20	50	3·2	27	…	…	…	0·1	1	…	…	…	…	0·3	3
Means	3·17	25	793	31	52	—	43	3·37	27	—	—	—	3·67	29	—	—	—	—	3·43	28
Normal	5·30	43	—	—	—	—	—	4·83	39	—	—	—	4·30	34	—	—	—	—	4·43	36
	←5 years→							←35 years→				←5 years→							←35 years→	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Magnetism. Declination West.	Magnetism. Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	1015·1	1017·6	89·0	84·8	91	*n* 83	13·2	12·1	73	88	22	5	21	2	3	2	—	Fine to c.	…	…	…
2	1016·9	1014·4	87·4	87·4	91	*n* 83	13·7	14·8	84	91	—	0	—	0	7	8	—	☽ *a.* Fine to c.	17867	19 56·1	68 7·0
3	1012·3	1015·7	87·6	86·8	89	85	13·8	12·2	84	78	26	5	27	6	7	8	1·5	☽ *a.* ⌒ 9 h. Fine to c.	…	…	…
4	1013·8	1018·9	88·3	88·3	90	86	15·5	14·8	90	86	24	9	26	4	10	10	0·5	o., with ● showers.	…	…	…
5	1019·7	1022·8	88·5	88·7	90	*x* 88	16·8	17·7	96	100	—	1	25	3	10≡⁰●⁰	10≡⁰	4·2	o., with ●⁰ at times. ≡⁰ from 15 h.	…	…	…
6	1024·6	1026·8	89·9	90·0	91	*x* 88	17·8	18·6	93	97	—	0	—	0	10	10	0·2	o., with low misty clouds.	…	…	…
7	1028·0	1027·1	89·1	89·4	*x* 93	86	17·8	17·2	98	93	—	1	14	3	7	10	—	Fine to c. Fine sunset.	…	…	…
8	1026·0	1027·5	89·5	89·0	92	*x* 88	17·4	16·8	93	93	14	4	26	3	9	10	—	o. to c. *a.* Fine afternoon.	…	…	…
9	1029·4	1029·8	86·9	87·4	89	86	11·5	12·3	73	76	4	6	32	6	3	2	—	Fine. Fine sunset.	…	…	…
10	1028·7	1025·2	86·5	86·5	89	84	11·1	12·0	72	78	1	5	—	1	2	10	*x* 10·0	Fine.	…	…	…
11	1018·7	1020·7	87·6	87·2	90	86	16·0	15·1	97	94	23	7	26	5	10●	10	0·3	● 2 h.–9 h. o., with low clouds.	…	…	…
12	1021·9	1024·0	87·9	87·5	90	87	15·6	15·2	93	93	27	5	25	2	7	10	0·4	Fair to o. Low clouds.	…	…	…
13	1022·2	1025·1	88·2	86·5	90	86	16·4	10·8	96	70	27	5	31	5	10≡⁰	7	0·3	d. and ≡⁰ early. Fine to c.	…	…	…
14	1026·9	1027·5	85·8	85·6	88	84	12·6	10·3	86	71	—	1	32	3	8	7	0·3	●⁰ 7 h. Fine to c.	…	…	…
15	1026·2	1025·6	85·9	87·1	*n* 87	*n* 83	10·8	13·7	73	86	27	3	29	3	10	10	—	●⁰ 5 h. o. Low misty clouds *p.*	…	…	…
16	1025·9	1026·4	86·7	85·7	90	84	13·7	13·1	88	90	—	0	—	1	5	7	—	☽ *a.* Fine to c.	…	…	…
17	1022·7	1017·6	87·9	88·7	89	86	15·3	16·8	91	95	19	5	21	12	10	10	5·4	o., with ● showers. Low clouds.	…	…	…
18	1014·6	1014·3	85·8	85·7	88	84	10·2	10·1	*n* 69	*n* 69	28	8	28	10	7	4	0·6	A few ●⁰ showers.	…	…	…
19	1016·7	1021·5	86·1	85·6	*n* 87	84	11·2	10·6	75	73	31	9	32	6	7	1	—	●⁰ showers 1 h.–2 h. Fair to c.	…	…	…
20	1022·7	1022·4	85·4	85·3	88	84	11·1	11·2	78	79	—	1	—	1	8	7	—	Fair to c.	…	…	…
21	1019·7	1017·2	85·5	85·6	*n* 87	*n* 83	11·0	12·3	76	85	11	4	13	7	10	3	0·4	Fair to c. ● shower 23 h. 30 m.	…	…	…
22	1014·9	1013·3	86·4	86·6	89	85	14·5	13·9	95	90	15	5	13	4	10≡⁰●⁰	10∞	1·0	●⁰ shower 9 h. Fair to c. Fine sunset.	…	…	…
23	1010·8	1011·2	88·0	86·2	90	84	16·1	14·5	95	96	14	5	14	2	10●⁰	3	4·8	d. 8 h.–9 h. ●² 12 h.–13 h.	…	…	…
24	1006·9	1004·3	88·4	88·9	90	84	16·3	15·2	94	85	14	8	12	10	7	10	7·7	● showers *a.* and *p.*	…	…	…
25	1002·8	991·3	89·1	88·7	90	87	14·5	12·8	80	72	11	9	11	16	10	8●	4·9	● showers *a.* and *p.* ⸗ 22 h.–23 h.	17867	19 52·0	68 5·8
26	1005·9	1003·8	87·9	88·4	90	86	13·6	12·8	81	74	13	9	8	7	6	4	0·6	Fine.	…	…	…
27	999·3	997·9	88·0	88·7	91	87	13·5	13·4	80	76	8	3	8	5	10∞	7	3·0	● shower 2 h. c. ⊕ 13 h.	…	…	…
28	1001·1	1004·3	88·0	88·0	91	86	14·0	13·8	83	82	11	3	—	1	6	4	—	●² shower 5 h. Fine to c.	…	…	…
29	1006·4	1011·2	88·1	87·4	91	85	14·3	14·3	84	88	—	1	—	1	7∞	10∞	—	☽. Fine to c. ∞	…	…	…
30	1015·2	1016·4	86·8	86·2	89	86	12·0	10·7	77	71	6	6	8	7	10∞	10∞	0·8	c. to o. ∞²	…	…	…
Means	1017·2	1017·4	87·5	87·3	89·6	85·2	14·0	13·6	85	84		4·4		4·5	7·9	7·1	46·9	Monthly **Totals** or **Means.**	17867	19 54·1	68 6·4
Normal	1014·3	1014·5	86·6	86·2	89·6	83·8	13·4	13·2	85	86		4·7		4·3	—	—	113·3	**Normals.**			
	←45 years→						←30 years→				←35 years→						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—12/17.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.	*a.* 200+	*a.* 200+	*a.* 200+	cm.	cm.
1	1016·1	1018·7	89·4	87·8	*x* 93	86	15·9	13·5	86	81	23	2	—	1	10	0	7·1	87	88·4	87·9	214	—
2	1018·7	1016·1	86·7	87·5	91	86	14·8	15·4	95	94	—	1	—	0	10● ≡	8 ≡0	3·1	83	88·9	87·8	216	—
3	1008·1	1005·9	90·5	87·1	92	85	16·1	12·3	81	77	14	4	20	6	10 T	1	*x* 8·9	83	88·6	87·8	217	—
4	1007·9	1008·4	87·5	84·4	90	83	10·7	12·2	65	91	24	7	23	2	6	0	3·8	84	88·4	87·8	218	—
5	1012·5	1019·1	86·0	86·8	90	83	11·1	11·6	75	74	29	4	—	1	10	4	—	79	87·6	87·7	218	—
6	1024·1	1026·8	87·7	85·7	92	83	13·9	13·4	84	92	32	2	—	1	9	0 ≡0 ☂	—	83	87·5	87·7	217	—
7	1028·8	1027·4	86·5	88·3	*x* 93	84	13·9	14·8	90	86	—	1	8	2	?10 ≡0 ☂	10	—	79	87·9	87·6	216	—
8	1026·5	1025·2	89·2	87·7	92	86	13·5	13·4	74	81	3	3	6	2	7	0	—	85	88·6	87·6	214	—
9	1025·1	1023·8	89·6	88·4	*x* 93	*x* 87	15·0	13·7	80	79	3	4	2	3	10	10	—	84	88·6	87·5	212	—
10	1022·0	1020·1	87·8	87·6	89	*x* 87	12·5	14·1	75	86	2	3	4	2	10	10	—	85	88·5	87·5	211	—
11	1017·7	1013·5	86 6	87·7	91	85	13·4	13·4	87	81	—	1	23	2	10	10● 0	—	84	88·1	87·5	210	—
12	1016·4	1017·8	87·5	90·3	91	86	14·1	15·3	86	78	—	1	—	1	10● 0 ≡0	10	0·1	83	88·2	87·6	210	—
13	1016·2	1016·8	91·1	85·2	*x* 93	83	16·1	9·7	78	69	24	3	28	2	10	0	0·1	85	88·6	87·5	211	—
14	1020·6	1023·3	82·8	80·5	86	79	6·7	9·2	*n* 56	89	30	5	—	0	5	2 ≡0	—	76	87·9	87·6	212	—
15	1021·4	1016·3	83·0	86·5	88	77	8·7	13·2	71	86	25	3	23	4	9	10	—	73	86·6	87·5	216	—
16	1020·5	1024·8	86·8	84·7	90	82	11·9	11·3	76	83	29	3	—	0	6	1 ≡0	—	82	87·0	87·4	221	—
17	1024·7	1016·3	83·1	86·5	91	80	10·8	14·3	88	93	—	1	20	5	7 ≡0	10●	6·9	75	86·8	87·3	224	—
18	1006·5	1000·4	86·2	82·9	89	82	12·4	9·4	82	78	29	3	23	4	9	8	4·3	85	87·3	87·3	225	225
19	998·8	1011·2	82·3	83·5	86	81	9·7	10·1	83	80	30	4	31	4	10	0	2·2	78	86·5	87·2	223	—
20	1016·7	1020·9	84·1	83·1	*n* 85	81	10·0	9·4	76	76	31	4	1	2	10	10	—	78	85·7	87·1	220	—
21	1022·3	1023·3	83·0	80·2	87	79	8·9	9·7	73	96	1	3	—	0	4	0 ≡0	0·1	*n* 72	85·2	87·0	218	—
22	1024·0	1021·7	81·7	82·2	88	*n* 76	10·3	9·7	92	84	—	0	—	1	10 ≡ ☂	0 ∞	—	74	84·9	87·0	216	—
23	1017·8	1016·0	82·0	83·1	91	79	10·7	11·4	94	93	—	0	—	1	10 ≡0 ☂	1 ≡0	—	74	84·8	86·8	213	—
24	1015·9	1015·6	80·6	85·1	89	78	10·1	12·8	97	91	—	0	—	1	10 ≡	1	—	75	84·9	86·7	211	—
25	1015·1	1014·2	84·7	87·2	*x* 93	79	12·7	14·8	93	92	8	3	8	4	10 ≡ ☂	0 ≡0	—	77	85·1	86·5	209	—
26	1015·8	1012·3	88·6	88·1	*x* 93	85	15·5	15·3	88	90	—	1	8	4	10 ≡ ☂	0 ≡0	0·1	81	85·8	86·5	208	—
27	1005·9	1009·2	89·2	85·2	*x* 93	84	15·9	13·3	87	94	7	6	—	1	9 ≡0 ☂	1	1·0	85	86·3	86·3	207	207
28	1008·3	1004·2	86·8	89·2	*x* 93	84	14·9	16·1	95	88	8	2	6	4	10 ≡ ☂	10	0·9	78	86·2	86·3	208	207
29	1003·6	1008·8	87·0	85·7	89	84	14·4	11·2	91	77	3	3	2	5	10 ≡0	10	0·6	85	86·8	86·3	209	—
30	1014·8	1021·8	85·8	84·1	88	83	10·9	10·1	74	77	1	5	3	2	2	10	—	82	86·3	86·3	210	—
Means	1016·4	1016·7	86·1	85·7	90·3	82·6	12·5	12·5	82	85		2·7		2·2	8·8	4·6	39·2	80·5	87·1	87·2	214	—
Normal	1016·0	1015·8	86·8	86·1	91·2	82·7	12·5	12·7	80	83		3·1		2·3	—	—	51·0	—	87·2	87·3	—	—
	45 years						30 years				35 years						45 years		12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

1	982·9	986·7	84·9	83·8	89	80	10·6	11·7	77	91	20	8	18	4	8	1	0·3		Fine to c. ⌒ 15 h.
2	989·0	989·5	85·6	82·4	89	79	11·9	11·1	82	95	20	7	—	0	7	6	3·4		●0 showers 7 h.–9 h. ♕ glow 21 h.
3	984·0	977·8	83·3	83·3	85	82	11·8	11·2	95	90	3	4	32	9	10●	10●	*x* 20·7		● from 6 h. o.
4	977·9	981·7	86·4	81·5	89	81	11·2	9·1	73	82	26	5	—	1	7	1	2·2		Mostly fine. ●⌒T 17 h. ♕ 22 h.
5	987·1	992·7	86·0	83·8	90	80	9·4	11·8	63	92	—	2	—	0	3	9	0·2		Fine to o.
6	996·0	999·2	85·9	87·0	88	83	14·6	15·8	99	100	16	3	—	1	10 ≡0 ●0	10 ≡0	0·3		Thick wet ≡0. d. *a.* and *p.*
7	1001·6	1001·2	88·4	87·0	*x* 94	*x* 86	16·3	15·5	94	98	18	3	—	0	10	10	0·1		Wet ≡0 early. Mostly o. c.
8	999·7	998·7	88·2	83·7	93	81	16·3	11·6	95	91	—	2	—	0	10 ≡0	0	0·2		≡0 early. Fine to c.
9	1000·4	1000·5	85·6	80·9	88	78	12·7	9·4	88	89	5	5	32	2	7	1	—		≡0 early. Fine to c. ●0 19 h.
10	998·9	993·5	86·2	82·8	89	77	10·5	9·9	70	82	5	3	—	0	1	10	—		☂2 early. Fine. o. from 16 h.
11	984·0	983·6	83·5	84·7	88	81	11·7	11·5	93	84	18	7	30	5	10● ≡0	8	3·1		●≡0 *a.* o. *p.* Fair evening.
12	985·6	987·1	86·9	86·4	90	84	13·8	13·1	88	86	24	5	24	5	10	10●0	—		●0 7 h.–9 h. o. *a.* q. *p.*
13	985·6	988·8	83·7	79·3	87	77	9·4	7·6	74	80	26	10	27	7	9	0	0·3		⌒ 9 h. Fine.
14	994·6	993·8	79·3	79·6	84	75	5·7	7·6	*n* 60	78	30	9	24	4	1	9	2·7		Fine to c. ⊕ 17 h.
15	985·9	987·2	83·8	82·4	87	79	10·7	9·6	83	82	25	6	27	8	6	2	0·2		Double ⌒ 11 h. d. occasionally.
16	993·4	995·7	82·5	84·6	88	*n* 73	9·5	11·9	80	88	—	0	23	3	5	9	1·5		⌙ early. Fine.
17	989·0	978·3	84·7	83·8	87	81	12·4	9·9	91	77	19	10	24	9	10●	5	19·7		o., with continuous ●.
18	973·3	964·1	81·7	79·3	85	78	7·6	8·5	68	89	25	8	28	13	5	8●	7·1		q. early. Fair to o. ⌒ 17 h.
19	980·2	988·8	83·0	80·6	86	80	8·0	8·9	66	85	32	9	22	2	1	6	—		Very fine 7 h.–9 h. ⌒ 11 h. c. *p.*
20	991·1	993·5	82·5	77·4	86	74	8·5	7·4	72	89	—	0	—	0	3	7	—		☂2 early. Fair to very fine.
21	994·3	993·8	80·9	81·5	85	74	9·0	10·2	85	92	—	1	—	1	8 ☂	10 ≡0	2·4		o., with ∞.
22	992·1	990·5	81·9	83·9	84	81	10·8	12·3	96	95	16	5	17	7	10●0 ≡0	10 ≡0	3·3		o., with ≡0●.
23	988·0	987·4	83·9	78·9	86	78	12·3	8·6	95	93	16	6	—	0	10 ≡0	2	—		o., with ≡0.
24	987·5	988·0	83·0	78·4	88	77	11·3	8·6	93	97	—	1	—	0	10 ≡0 ☂	0 ≡0	—		Mostly o.
25	988·5	988·6	83·4	82·7	88	76	10·9	10·5	87	88	—	2	4	4	3 ≡0	?1 ≡0	—		Fine, with ∞ ≡0. ⊕ at times.
26	990·6	990·0	84·9	84·5	89	82	12·4	13·2	90	98	5	4	1	5	10 ∞	10 ≡0	—		Fine to o. ≡0 ∞.
27	985·6	981·1	83·4	85·1	86	83	11·6	13·9	93	99	6	14	5	9	10 ≡0	10●0 ≡0	2·5		o., with ≡0. d. *p.*
28	983·4	983·4	86·2	83·0	91	83	13·3	10·7	88	88	—	1	29	3	8	1	0·1		● till 7 h. Fine to c.
29	984·3	988·8	83·7	79·7	86	79	12·3	7·6	96	77	4	8	2	6	10 ≡0	10	—		Wet ≡0 and d. early. o.
30	993·0	996·2	79·1	78·6	*n* 82	78	8·7	8·3	93	91	4	5	—	1	10●0	10	—		v. *a.* o. all day. c. *p.*
Means	988·9	989·0	84·1	82·4	87·4	79·3	11·2	10·6	84	89		5·1		3·6	7·4	6·2	70·3	--	Monthly **Totals** or **Means.**			
Normal 1911-15	989·3	989·2	83·8	82·1	87·5	78·4	10·8	10·3	83	88		4·6		3·4	—	—	67·0	—	**Normals.**			

No record.

REMARKS.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 26 days; they are computed from the data for those days on which values at each of the four hours, 3^h, 9^h, 15^h, 21^h, are given in the table. A similar note applies to the values in Table 6.

x denotes the maximum and *n* the minimum value in the column. z Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre. Factor 2·13.				Charge per cc. ×10¹⁶.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
		3 h.	9 h.	15 h.	21 h.	+. About 15 h.	−.	About 15 h.			Mean Time.		Mean Time.		Mean Time.	
		v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².			h m	γ	h m	° ′	h m	° ′
1	● 6 h.–8 h. Fine from 10 h.	95	130	165	295	...	...	...	0	0	...	...	...	...	...	...
2	● 3 h.–10 h. ≡ 8 h.–10 h.	105	105	130	250	...	...	...	1	1	...	...	...	...	...	...
3	≡0 early. ☾●2 10 h. Sunny *p*.	180	*z*±	95	120	...	...	...	1	2	...	...	...	..	...	...
4	● early. Fine to dull.	70	165	140	235	·25	·40	0·65	1	2	...	...	...	...	...	...
5	Dull *a*. Fine from 14 h.	105	95	120	200	·19	·09	0·30	0	2	...	...	...	...	...	...
6	Fine from 9 h. ☽ *n*.	120	120	120	190	·65	·21	0·80	1	1	...	...	...	...	...	...
7	≡0☽ early. Fine 9 h.–16 h.	130	165	225	200	...	...	...	1	1	...	...	14 27	15 14·4	14 42	66 58·2
8	Fine till 10 h. and from 13 h.	200	285	355	365	...	...	...	0	1	...	...	...	...	...	...
9	≡0 early. Dull and o. till 13 h.	275	310	310	405	...	...	...	0	0	...	...	...	...	...	...
10	Dull and o. d. 17 h.	190	355	215	390	...	...	...	0	1	...	...	...	...	...	...
11	≡0 early. Mostly dull.	190	180	140	200	·21	·13	0·45	0	1	11 1	18443	...	...	...	...
12	Dull throughout. d. 9 h.–13 h.	130	155	60	140	·36	·04	...	0	2	...	...	...	...	...	...
13	Dull to fine. ●0 16 h.	140	120	165	310	·89	·38	0·55	0	1	...	...	...	...	...	...
14	Fine all day. ≡0 *n*.	130	310	235	190	·38	·13	0·90	0	1	10 55	18414	14 24	15 12·9	14 41	66 58·1
15	Fine 8 h.–13 h.	140	380	140	225	...	...	...	0	0	...	...	...	...	...	...
16	Fine to fair. [24 h.	155	260	225	330	...	...	...	0	1	...	...	...	...	...	...
17	≡ 5 h.–8 h. Fine till 12 h. ● 17 h.–	190	365	165	215	...	...	...	0	1	...	...	...	...	...	...
18	● at intervals *a*. and *p*. ⌒ 18 h.	35	215	190	235	·93	·89	0·90	1	1	...	...	...	...	...	...
19	●2 7 h. o. till 15 h. ● 12 h.–14 h.	180	260	260	380	...	...	...	1	0	...	...	...	...	...	...
20	Mostly dull and o.	235	295	260	330	·42	·21	0·85	0	0	...	...	...	...	...	...
21	≡0☽ early. Fine.	260	440	460	475	·21	·15	0·95	0	0	11 5	18447	14 24	15 10·6	14 40	66 56·7
22	≡☽ early. ⊕9 h. Sunny *a*. Dull *p*.	225	440	190	330	·38	·19	0·75	0	0	...	...	...	...	...	...
23	≡ till 9 h. ⊕ 12 h. Fine to dull.	165	120	140	190	...	...	...	1	1	...	...	...	...	...	...
24	≡2 till 10 h., then fine.	200	165	180	260	...	...	...	0	1	...	...	...	...	...	...
25	≡2 early. Fine from 10 h.	165	...	445	...	·34	·15	0·65	0 ?	1	...	...	...	...	...	...
26	≡ till 9 h. d. 12 h. ⊕ 15 h.	...	155	270	...	·53	·17	0·50	0	1	...	...	...	...	...	...
27	≡0 early. Fair *a*. ● *p*.	...	...	120	485	...	...	...	1	2	...	...	...	...	...	..
28	≡2 early. Fine to fair 11 h.–15 h.	190	345	365	320	·17	·13	0·80	1	0	11 5	18429	14 23	15 9·2	14 36	66 57·6
29	≡0 *a*. o. all day.	275	355	380	285	...	...	...	0	0	...	...	...	...	...	...
30	Fine to fair *a*. Dull to fair *p*.	120	380	460	545	...	...	...	0	2	...	...	...	...	...	...
M.		163*	251*	223*	288*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre.* Factor 5·68.				Charge per cc. ×10¹⁶.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
					+.	−.				Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.														
	v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
1	246	190	151	452	...	...	...	1 *b*	0	22 39	1020	938	10 38	13 8	1041	980	7 23	18 24	140	117	23 8
2	317	182	119	230	...	...	...	0 *a*	1	21 21	1114	948	9 28	12 44	1055	936	21 17	17 5	158	95	24 0
3	444	*z*	−991	−151	...	...	...	2 *c*	2	19 54	1033	897	13 30	13 19	*x*1084	906	1 14	19 15	160	73	1 12
4	79	190	190	? 420	...	...	...	1 *b*	2	21 50	1038	906	21 37	6 50	1049	908	20 13	20 25	148	32	22 1
5	230	151	182	500	...	...	...	0 *a*	1	0 34	1049	902	1 46	4 46	1053	920	1 2	14 52	138	*n*−15	1 45
6	238	492	317	555	...	...	...	0 *a*	1	18 43	1034	960	14 35	13 35	1041	961	18 29	{16 25 / 18 38}	142	114	24 0
7	285	341	159	587	...	...	...	0 *a*	0	20 26	1019	945	11 43	13 33	1057	978	17 51	17 52	160	92	0 48
8	143	397	222	214	...	...	...	0 *a*	0	20 50	1007	905	10 58	13 55	1041	992	20 50	17 0	139	119	8 30
9	143	167	135	143	...	...	...	0 *a*	0	17 16	1014	962	12 26	13 47	1051	988	8 25	17 23	140	115	12 13
10	151	87	135	285	...	...	...	0 *a*	1	23 20	*x*1139	965	9 49	14 3	1051	949	23 13	19 54	133	70	23 31
11	167	79	119	301	...	...	...	1 *a*	2	22 6	1085	939	10 23	13 0	1059	945	21 59	17 53	178	78	0 0
12	111	159	119	159	...	...	...	0 *a*	2	19 55	1124	908	4 8	20 27	1055	935	19 48	16 13	176	33	1 6
13	174	167	214	373	...	...	...	1 *b*	1	15 23	1018	933	8 54	12 40	1054	983	8 54	16 0	155	73	1 1
14	174	317	190	222	...	...	...	1 *b*	0	20 13	1014	943	12 25	13 14	1056	975	19 56	16 18	146	125	0 0
15	159	190	79	262	...	...	...	1 *a*	0	21 55	1010	895	10 58	14 35	1073	983	{7 42 / 8 8}	18 49	173	117	11 44
16	317	317	167	254	...	...	...	0 *a*	1	18 8	1025	919	{9 23 / 11 29}	13 11	1063	951	17 58	17 55	170	104	1 28
17	182	−254	−476	151	...	...	...	2 *c*	1	22 23	1044	916	9 47	1 9	1070	956	17 46	16 2	*x*188	88	2 40
18	48	159	...	*z*	...	...	...	2 *b*	1	21 16	1020	919	12 14	13 32	1057	988	18 35	16 23	156	124	3 17
19	−63	214	159	563	...	...	...	2 *b*	0	19 57	1007	951	10 37	{12 1 / 12 15}	1035	987	7 59	8 0	139	122	11 10
20	119	143	190	230	...	...	...	0 *a*	0	0 12	1010	955	10 3	12 11	1042	991	8 22	7 50	136	120	{11 30 / 12 10}
21	174	159	238	404	...	...	...	0 *a*	0	22 4	1015	962	8 58	{12 57 / 13 13}	1042	992	6 58	23 6	134	113	12 15
22	238	238	135	71	...	...	...	0 *a*	0	19 19	1032	974	11 57	14 49	1038	972	23 32	21 35	139	116	11 35
23	167	159	254	500	...	...	...	0 *a*	1	20 44	1038	954	11 12	23 23	1032	968	0 32	19 57	134	102	2 8
24	381	159	167	389	...	...	...	0 *a*	1	21 55	1040	953	10 55	14 32	1044	972	0 32	16 17	142	103	1 58
25	182	317	317	484	...	...	...	0 *a*	1	20 37	1030	959	12 8	13 9	1052	976	20 17	20 7	134	116	3 12
26	246	167	151	650	...	...	...	0 *a*	1	{0 56 / 1 3}	1051	940	0 0	12 27	1044	951	24 0	19 56	142	60	23 36
27	238	238	206	444	...	...	...	0 *a*	1	17 36	1079	896	8 53	12 58	1060	899	0 27	17 18	164	46	2 22
28	...	...	278	563	...	...	...	0 *a*	0	22 0	1024	952	11 18	12 44	1031	988	7 42	{15 46 / 21 8}	128	111	5 45
29	508	198	32	127	...	...	...	0 *a*	0	1 37	1009	954	11 29	12 22	1038	983	2 0	10 0	131	108	13 10
30	79	87	71	167	...	...	...	0 *a*	2	21 16	1086	*n*885	12 32	{13 52 / 14 4}	1065	*n*862	23 43	19 0	171	8	24 0
M.	199*	194*	146*	338*	—	—	—	—	—	—	1041	935	—	—	1051	959	—	—	150	89	—

* 27 days. *See* note above.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
3		0 2 to	...	...	...	...	...	Faint disturbance.
		0 25	...	...	...	...	...	
3	Pe	7 34 36	...	...	...	...	...	S doubtful. Prominent feature was the occurrence of groups of long waves separated by periods of comparative quiescence. Early phases ill-defined.
	Pi	7 36 6	...	...	...	...	...	
	M	8 15	35	...	9	...	...	
	M	8 18	28	9	...	...	...	
	M	8 32	21	6	...	...	...	
5	Pe	22 34 32	...	...	...	...	...	Distant earthquake.
	S (?)	22 49 4	...	...	...	...	...	
	L	23 15	...	...	...	...	...	
	L	23 22	22	...	...	...	...	
	L	23 34	20	...	...	...	...	
	L	0 23	17	...	...	...	...	
	F	0 45	...	...	...	...	...	
9		13 28 to	...	...	...	...	...	Faint disturbance.
		13 52	...	...	...	...	...	
11	Pe (?)	6 49 44	...	...	...	...	7820	Large vertical displacement at 6 h. 59 m.
	Pi	6 55 31	...	...	...	...	..	
	S	6 58 55	...	...	...	...	...	
	M	7 28 44	36	21	...	...	...	
	M	7 33 34	33	29	...	...	...	
	M	7 38 24	21	15	...	...	...	
	F	8 15	...	...	...	...	...	
15	P	7 13 49	...	...	...	...	8950	F obscured by wind effects.
	PR_1	7 17 22	...	...	...	...	...	
	S	7 23 57	...	...	...	...	...	
	SR_1	7 29 52	...	...	...	...	...	
	L	7 44	...	...	...	...	...	
	M	7 47 5	33	30	...	...	...	
	M	7 57 35	18	18·5	...	...	...	
21	Pe	19 25 34	...	...	...	...	...	Faint disturbance.
	F	19 42	...	...	...	...	...	
23	Pe	5 54 47	...	...	...	...	9000	
	S	6 4 57	...	...	...	...	...	
	SR	6 10 33	...	...	...	...	...	
	L	6 18	...	...	...	...	...	
	M	6 23 33	20	...	17	...	...	
	M	6 24 38	20	8·6	...	...	...	
	M	6 29 43	18	...	16·5	...	...	
	M	6 30	18	...	...	...	..	
	F	7 50	...	...	...	...	...	
24	L	18 20	...	...	...	...	...	Groups of clearly marked long waves of low amplitude.
	L	20 16	...	...	...	...	...	
25	Pe	2 39	...	...	...	...	...	
	L	2 47	17	...	...	...	...	
27	P	15 7 31	...	...	...	...	...	
	S	15 11 47	...	...	...	...	...	
	L	15 14 55	...	...	...	...	...	
	M	15 16 27	23	19·5	...	...	...	
	M	15 17	19	...	12·5	...	...	
	F	15 50	...	...	...	...	...	
27		23 35 to	...	...	...	...	...	Faint disturbance.
		23 50	...	...	...	...	...	
28		12 23 to	...	...	...	...	...	Faint disturbance.
		12 40	...	...	...	...	...	
29	Pe	19 7 49	...	...	...	...	...	
	S	19 18 20	...	...	...	...	...	
	L	19 33	...	...	...	...	...	
	M	19 36	35	6	...	...	...	
	M	19 42	25	...	5·8	...	...	
	M	19 46	19	...	7·5	...	...	
	F	20 30	...	...	...	...	...	

Microseisms of N. Component:—Eskdalemuir.

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

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
3	0 7	...	Very small, doubtful.
3	...	8 41	Very small; continued until at least $9^h\ 30^m$.
5	23 30·5	23 52	Very small.
11	6 55·0	7 41	Small.
15	7 24·5	7 57	
23	6 18	6 28·5	Amplitude on trace 1·4 mm.
27	15 11	15 17	Small.
27	...	23 39	Very small.
29	...	19 49	Small. Time somewhat uncertain owing to jamming of paper.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h. S.	3 h. N.	3 h. W.	3 h. E.	9 h. S.	9 h. N.	9 h. W.	9 h. E.	15 h. S.	15 h. N.	15 h. W.	15 h. E.	21 h. S.	21 h. N.	21 h. W.	21 h. E.	Max. in a Gust.	Time of Gust. h	Time of Gust. m
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.		
1	3·3	...	4·9	...	3·3	...	7·9	...	6·0	...	4·0	...	2·9	...	4·3	...	13·6	8	35
2	0·5	...	2·6	...	1·5	...	0·6	...	...	0·4	2·0	...	...	0·5	2·6	...	8·4	0	15
3	...	5·1	...	5·1	...	11·1	...	7·5	...	13·0	5·4	...	...	11·7	7·8	...	22·1	15	40
4	...	6·4	9·6	...	...	3·6	8·8	...	...	...	7·5	...	...	9·6	6·4	...	17·0	21	45
5	...	9·2	6·2	...	...	5·7	3·8	...	...	0·9	2·1	...	0·6	...	1·5	...	17·8	2	15
6	2·0	...	...	...	3·3	...	1·4	...	3·6	...	1·5	...	1·3	...	0·9	...	8·2	7	50
7	1·1	...	0·7	...	1·5	...	...	0·6	...	0·7	1·1	...	...	0·4	0·6	...	5·4	13	30
8	...	0·7	1·1	...	...	0·4	0·6	...	...	0·4	0·9	...	...	0·4	0·9	...	...	...	
9	...	1·8	1·8	...	...	6·6	...	...	...	7·1	1·4	...	...	10·0	2·0	...	13·2	21	25
10	...	8·2	...	...	...	6·6	...	...	...	4·8	...	2·0	...	1·8	...	0·8	11·5	0	10
11	...	1·8	2·7	...	3·1	...	7·6	...	1·3	...	6·8	...	...	3·1	4·7	...	14·1	10	50
12	...	3·9	9·4	...	...	3·1	7·6	...	...	2·8	6·7	...	...	1·2	5·8	...	16·7	5	50
13	...	2·8	6·7	...	...	4·7	7·1	...	...	5·1	5·1	...	...	10·9	4·5	...	17·0	21	5
14	...	12·3	...	2·4	...	10·3	...	2·0	...	7·5	...	...	...	2·6	3·8	...	18·2	7	55
15	...	4·7	7·1	...	...	4·5	10·9	...	...	2·8	9·1	...	...	5·7	8·5	...	17·7	9	30
16	...	5·7	8·5	...	...	4·2	0·8	...	...	2·2	1·4	...	...	0·9	0·4	...	14·7	3	35
17	1·8	...	2·7	...	4·4	...	4·4	...	7·4	...	7·4	...	1·6	...	8·0	...	19·6	15	20
18	...	6·2	9·2	...	...	4·9	11·8	...	...	4·8	11·6	...	...	11·8	11·8	...	27·1	23	5
19	...	17·1	3·4	...	...	13·8	...	2·7	...	11·3	2·2	...	...	9·2	...	...	25·8	2	35
20	...	8·5	...	...	...	6·1	1·2	...	...	5·8	1·2	...	...	3·2	0·6	...	12·6	0	10
21	...	2·6	0·5	...	...	1·2	0·5	...	...	1·8	0·8	...	...	3·0	1·3	...	5·7	4	45
22	4·2	...	0·8	...	7·7	...	1·5	...	5·7	...	2·4	...	4·5	...	1·9	...	14·2	9	10
23	7·1	...	1·4	...	4·8	...	1·0	...	4·3	...	1·8	...	3·0	...	1·3	...	12·4	2	55
24	3·0	...	1·3	...	4·2	...	0·8	...	2·4	...	1·0	...	2·1	...	...	0·9	7·5	10	5
25	2·8	...	...	1·1	1·3	...	...	1·9	1·5	...	...	7·7	4·0	...	...	6·0	13·0	19	10
26	4·5	...	...	0·9	2·4	...	...	1·0	...	2·2	...	3·2	...	...	...	7·5	11·9	22	25
27	...	...	...	10·2	...	...	...	14·4	...	...	...	12·5	4·0	...	4·0	...	20·0	9	30
28	3·5	...	...	0·7	3·3	...	...	4·9	...	1·6	1·6	...	...	2·1	...	5·2	10·0	9	40
29	...	2·9	...	6·9	...	4·0	...	9·7	...	3·4	...	8·2	...	5·4	...	8·1	15·5	21	10
30	...	1·0	...	5·1	...	1·0	...	5·1	...	2·4	...	5·7	...	...	...	6·2	12·5	1	5
S+N & W+E	134·7		113·0		132·6		128·1		114·2		124·3		117·5		118·3				
S−N & W−E	−67·1		48·2		−51·0		28·5		−49·8		45·7		−69·5		48·9				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h. S.	3 h. N.	3 h. W.	3 h. E.	9 h. S.	9 h. N.	9 h. W.	9 h. E.	15 h. S.	15 h. N.	15 h. W.	15 h. E.	21 h. S.	21 h. N.	21 h. W.	21 h. E.	Vel. in Max. Hourly Run.	Time of Max.
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	6·4	...	2·6	...	7·3	...	3·0	...	5·6	...	5·6	...	4·2	...	4·2	...	8·9	6
2	4·0	...	4·0	...	3·7	...	5·5	...	...	...	*5·6*	...	*1·1*	...	*1·1*	...	8·5	1, 13
3	0·4	...	0·6	...	2·1	...	...	0·9	2·2	...	...	1·4	2·1	...	...	2·1	3·9	11
4	1·4	...	...	2·2	...	0·5	...	2·6	...	9·3	1·9	...	...	8·5	...	...	10·8	17
5	...	5·7	2·4	...	...	3·6	1·5	...	2·8	...	...	1·1	3·6	...	...	...	7·2	1
6	2·0	...	0·4	...	4·5	...	...	0·9	2·1	...	5·2	...	...	2·5	2·5	...	6·2	16
7	...	0·5	0·5	...	...	0·9	0·9	...	3·3	...	...	3·3	3·8	...	...	2·6	4·9	16, 17
8	3·5	...	...	0·7	5·6	...	...	...	7·2	...	...	...	1·5	...	7·7	...	8·5	22
9	2·4	...	5·7	...	...	...	4·6	...	2·6	...	6·4	...	...	...	3·0	...	7·2	14
10	...	...	3·6	...	1·3	...	6·8	...	1·4	...	7·1	...	0·9	...	2·1	...	8·2	11
11	4·9	...	...	...	6·9	...	...	2·9	...	...	2·3	...	0·6	...	3·2	...	7·9	8
12	4·2	...	4·2	...	...	...	9·8	...	...	...	12·5	...	...	...	13·4	...	14·1	24
13	...	2·7	13·5	...	...	6·6	9·8	...	...	8·8	8·8	...	...	10·6	7·1	...	14·4	1
14	...	9·8	6·6	...	...	6·8	4·6	...	...	4·6	6·8	...	...	0·7	3·5	...	11·8	1, 3
15	1·5	...	3·6	...	...	3·1	4·7	...	...	*4·4*	*4·4*	...	...	3·2	2·2	...	7·5	22
16	...	4·3	2·9	...	...	0·6	1·5	...	2·7	...	1·8	...	2·0	...	3·0	...	6·6	2
17	4·3	...	1·8	...	8·7	...	...	1·7	...	...	10·8	...	1·7	...	8·7	...	14·1	11
18	...	1·4	7·1	...	...	...	13·4	...	...	11·3	...	2·2	...	10·3	...	2·0	17·4	17
19	...	5·9	...	...	...	10·9	2·2	...	...	8·8	3·6	...	...	5·7	3·8	...	11·8	11
20	...	3·8	2·6	...	...	5·2	3·4	...	...	5·5	2·3	...	...	2·9	0·6	...	8·2	11
21	...	2·6	...	...	...	1·0	...	2·4	3·3	...	...	3·3	5·7	...	...	3·8	8·2	24
22	6·6	...	...	...	4·5	...	0·9	...	4·5	...	0·9	...	4·3	...	...	...	7·9	1
23	4·2	...	0·8	...	3·5	...	0·7	...	3·8	...	0·8	...	2·0	...	0·4	...	5·2	2
24	0·4	...	0·9	...	1·4	...	1·4	...	1·6	...	...	1·6	1·6	...	...	1·6	2·6	24
25	2·3	...	...	2·3	3·7	...	...	3·7	3·4	...	...	5·2	3·7	...	...	5·5	6·9	20
26	4·0	...	...	6·0	5·6	...	...	5·6	4·7	...	...	4·7	3·8	...	...	5·7	8·5	6, 8
27	3·4	...	...	5·2	3·8	...	...	5·7	3·8	...	...	5·7	2·6	...	...	6·4	8·2	24
28	2·5	...	...	6·1	...	...	...	5·6	...	...	...	6·6	...	...	...	6·9	7·2	1
29	...	...	...	6·2	...	2·6	...	6·4	...	4·7	...	4·7	...	4·8	...	2·0	7·2	13
30	...	4·3	...	1·8	...	4·2	...	0·8	...	2·2	...	1·4	...	0·2	...	0·2	5·6	4
S+N & W+E	99·4		94·3		108·6		113·9		114·6		128·0		94·6		105·3			
S−N & W−E	17·4		33·3		16·6		35·5		−4·6		45·6		−4·2		27·7			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h. S.	3 h. N.	3 h. W.	3 h. E.	9 h. S.	9 h. N.	9 h. W.	9 h. E.	15 h. S.	15 h. N.	15 h. W.	15 h. E.	21 h. S.	21 h. N.	21 h. W.	21 h. E.	Max. in a Gust.	Time of Gust. h	Time of Gust. m
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.		
1	...	0·4	2·1	...	0·0	0·0	0·0	0·0	...	0·7	1·6	...	0·0	0·0	0·0	0·0	8·7	3	55
2	0·0	0·0	0·0	0·0	2·1	...	...	3·2	4·7	...	...	4·7	4·2	...	...	...	9·7	14	40
3	...	11·1	7·4	...	...	6·8	6·8	...	...	5·0	5·0	...	...	6·2	6·2	...	19·5	2	30
4	...	8·0	5·3	...	...	2·6	6·2	...	...	9·1	9·1	...	...	8·8	8·8	...	19·0	20	20
5	...	9·6	4·0	...	...	4·3	1·8	...	...	3·8	2·6	...	...	3·1	1·3	...	16·0	1	45
6	...	3·1	...	1·3	...	0·7	...	0·3	1·9	...	...	0·8	0·0	0·0	0·0	0·0	6·6	0	35
7	...	...	...	1·3	...	1·0	...	2·3	...	1·5	...	1·5	...	2·1	...	2·1	4·0	10	10
8	...	0·9	...	0·9	...	0·3	...	0·7	0·7	...	...	1·1	0·3	...	...	1·3	5·4	10	35
9	...	1·6	...	2·4	...	1·8	...	4·3	...	5·8	...	2·4	...	6·2	...	4·2	11·9	21	25
10	...	5·2	...	3·5	...	6·2	...	2·6	...	5·4	...	2·2	...	4·2	...	2·8	10·8	17	55
11	...	4·2	...	...	...	4·5	4·5	...	...	2·9	6·9	...	...	6·8	6·8	...	13·8	21	55
12	...	7·3	3·0	...	...	3·9	1·6	...	...	3·3	3·3	...	...	1·8	1·2	...	14·0	2	40
13	...	3·1	1·3	...	...	3·9	1·6	...	...	3·5	3·5	...	...	3·1	...	1·3	7·8	11	40
14	...	5·8	...	...	...	4·6	...	1·9	...	3·5	...	3·5	...	3·5	...	3·5	9·4	4	15
15	...	2·1	..	2·1	...	1·7	...	...	...	5·6	3·7	...	...	4·5	4·5	...	11·0	18	45
16	...	5·0	2·1	...	...	2·7	1·8	...	...	2·7	1·1	...	...	1·2	0·5	...	11·3	2	25
17	...	0·4	0·1	...	...	2·2	5·4	...	...	1·3	6·6	...	...	1·8	9·0	...	13·4	22	40
18	...	2·1	10·6	...	...	7·4	7·4	...	...	6·9	4·6	...	...	13·9	9·3	...	23·5	22	10
19	...	15·4	6·4	...	...	14·3	2·9	...	...	10·6	2·1	...	...	6·3	...	...	23·6	{3 / 5}	{30 / 10}
20	...	4·3	...	1·8	...	3·1	...	1·3	...	4·1	0·8	...	...	2·7	...	1·1	9·0	13	40
21	...	0·3	...	0·3	...	0·3	...	0·7	0·2	...	...	0·4	2·5	...	...	...	5·6	23	55
22	5·8	...	...	2·4	4·6	...	...	1·9	5·4	...	...	2·2	5·4	...	...	2·2	9·5	5	15
23	1·9	...	...	0·8	1·3	...	...	0·3	2·5	...	...	...	2·9	...	...	...	5·0	0	5
24	3·1	...	...	1·3	4·1	...	...	0·8	6·6	...	...	2·7	7·3	...	...	4·9	11·5	21	40
25	4·2	...	...	2·8	5·6	...	...	8·3	11·8	...	...	7·9	11·9	...	...	2·4	17·4	16	20
26	6·2	...	...	1·2	3·5	...	...	2·3	3·7	...	...	5·6	5·6	...	...	5·6	17·1	18	25
27	4·1	...	...	0·8	3·0	...	...	3·0	6·9	...	...	4·6	6·5	...	...	6·5	15·0	21	55
28	5·9	...	...	3·9	2·8	...	...	4·2	1·8	...	...	1·8	...	2·3	...	2·3	9·9	3	15
29	...	0·9	...	0·9	...	0·2	...	0·3	0·6	...	...	2·8	0·0	0·0	0·0	0·0	4·6	16	20
30	2·2	...	...	5·4	1·8	...	...	4·3	2·8	...	...	4·2	3·8	...	...	3·8	8·3	11	10
S+N & W+E	124·2		75·4		101·3		82·7		125·3		99·3		128·9		91·6				
S−N & W−E	−57·4		9·2		−43·7		−2·7		−26·1		2·5		−28·1		3·6				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h. S.	3 h. N.	3 h. W.	3 h. E.	9 h. S.	9 h. N.	9 h. W.	9 h. E.	15 h. S.	15 h. N.	15 h. W.	15 h. E.	21 h. S.	21 h. N.	21 h. W.	21 h. E.	Max. in a Gust. (Gorleston.)	Time of Gust. h	Time of Gust. m
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.		
1	2·3	...	2·3	...	0·6	...	3·2	...	1·3	...	...	3·0	1·7	...	...	1·1	8·6	6	15
2	0·3	...	1·6	...	0·1	...	0·3	...	3·3	...	...	...	2·1	...	...	2·1	6·8	14	30
3	4·0	...	...	4·0	3·8	...	...	0·8	6·6	...	...	4·4	3·2	...	2·2	...	13·7	17	10
4	3·3	...	1·4	...	...	1·3	6·8	...	...	1·1	5·5	...	...	0·5	2·6	...	14·7	10	30
5	...	2·1	5·2	...	...	4·3	2·9	...	...	4·1	2·7	...	...	2·8	1·1	...	16·0	12	45
6	...	3·6	...	...	...	1·9	...	1·3	...	4·3	...	1·8	...	0·3	...	0·1	8·3	{1 / 4}	{10 / 5}
7	...	1·2	0·5	...	...	2·1	...	0·9	...	4·3	...	1·8	...	2·1	...	5·2	7·4	19	45
8	...	2·0	...	4·8	...	2·6	...	3·8	...	4·4	...	4·4	...	3·1	...	4·7	7·0	22	30
9	...	3·8	...	5·7	...	4·2	...	4·2	...	4·9	...	3·3	...	4·7	...	4·7	9·0	15	40
10	...	4·2	...	6·2	...	3·4	...	5·2	...	5·4	...	8·1	...	4·6	...	6·8	11·1	15	15
11	...	1·9	...	1·3	0·2	...	...	1·0	1·1	...	0·7	...	1·0	...	0·2	...	6·4	0	45
12	0·3	...	1·6	...	...	2·0	3·0	...	...	...	3·9	...	...	1·1	2·8	...	6·5	11	5
13	...	0·6	3·2	...	...	4·0	6·0	...	...	3·8	5·7	...	...	3·3	4·9	...	12·3	15	0
14	...	3·3	3·3	...	...	4·2	6·2	...	...	4·7	3·1	...	...	1·0	2·4	...	14·1	6	0
15	0·6	...	3·2	...	0·8	...	3·8	...	1·2	...	5·8	...	...	0·6	2·9	...	11·0	14	25
16	...	2·5	1·7	...	...	3·6	2·4	...	...	3·6	2·4	...	...	1·1	1·7	...	12·6	9	10
17	...	1·1	1·7	...	...	0·5	1·2	...	2·3	...	2·3	...	2·7	...	4·1	...	11·7	23	25
18	0·8	...	4·2	...	...	3·8	5·7	...	...	1·2	5·8	...	0·9	...	4·5	...	12·0	9	45
19	0·7	...	3·5	...	...	2·1	2·1	...	...	9·2	...	...	...	3·6	1·5	...	17·8	14	35
20	...	4·5	1·9	...	...	4·5	1·9	...	...	4·3	2·9	...	...	2·2	1·4	...	14·6	10	10
21	...	2·4	1·0	...	...	3·2	0·6	...	...	2·3	0·4	...	...	0·2	...	0·2	8·4	12	35
22	...	0·6	...	0·4	0·3	...	...	1·6	3·0	...	...	1·3	4·5	...	...	0·9	6·9	18	40
23	1·8	...	...	0·8	1·1	...	...	2·8	1·0	...	...	2·4	0·5	...	...	1·2	6·5	0	15
24	0·5	...	...	1·2	0·4	...	...	0·9	0·9	...	...	2·1	0·2	...	...	0·2	3·2	13	25
25	0·9	...	...	2·1	1·8	...	...	4·3	0·8	...	...	4·2	...	1·1	...	5·5	6·9	20	5
26	1·4	...	...	1·4	0·9	...	...	2·1	0·6	...	...	1·5	...	1·7	...	8·3	8·1	21	45
27	...	1·3	...	6·5	...	1·8	...	9·0	5·4	...	...	8·1	3·0	...	...	1·3	11·5	15	35
28	0·7	...	...	0·1	...	0·3	...	1·6	...	1·7	...	2·5	...	4·7	...	3·1	6·5	20	40
29	...	6·3	...	6·3	...	3·3	...	4·9	...	7·4	...	4·9	...	7·6	...	3·1	14·7	17	40
30	...	9·6	...	1·9	...	7·4	...	4·9	...	6·4	...	2·6	...	0·7	...	...	14·8	4	25
S+N & W+E	68·6		79·0		70·5		95·4		100·6		97·6		66·8		80·8				
S−N & W−E	−33·4		−6·4		−50·5		−3·2		−45·6		−15·2		−27·2		−16·2				

9. Soundings with Pilot Balloons.

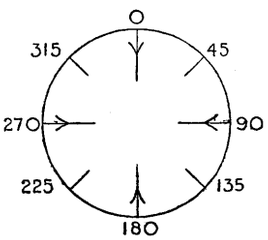
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind.														Cloud Observations.		
			Geostrophic.		By Anemometer.		At Heights above M.S.L.												
							500 m.		1000 m.		2000 m.		3000 m.		4000 m.		5000 m.		
			From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	Type.	From N.	mr/s.
		h. m.	°		°		°		°		°		°		°		°			°	
1	S. Farnboro'	12 55	270	7	270	5·0	265	7·5	265	9·0	265	11·5	...	...	...	...	...	...	Ci.	250	...
5	Eskdalemuir	7 20	360	9	330	0·9	340	3·3	40	1·5	340	11·5	345	15·5	...	...	...	...	Ci.	360	4·2
6	Aberdeen	7 45	240	13	180	2·0	215	12·5	225	5·5	275	4·5	280	8·0	...	...	...	...	Ci.-Cu.*	280	4·0
6	S. Farnboro'	18 15	...	0	...	0·0	40	4·0	90	2·0	55	5·5	60	6·0	...	...	...	...	...	...	...
11	,,	15 0	250	10	270	light	265	9·0	255	7·5	280	8·0	315	12·5	...	...	...	...	...	...	...
14	Eskdalemuir	7 25	350	10	335	9·5	340	11·0	5	11·0	330	12·5	...	...	...	...	...	...	Ci.	320	5·7
15	S. Farnboro'	11 15	290	9	290	6·0	270	10·5	285	6·5	345	11·0	...	...	...	...	...	...	...	...	...
21	,,	6 20	...	0	...	0·0	30	7·0	30	8·0	15	10·5	...	...	...	...	...	...	...	...	...
22	,,	6 45	140	8	...	0·0	145	4·5	170	5·0	200	1·0	15	3·0	300	3·5	...	...	Ci.	260	...
23	,,	6 25	140	4	...	0·0	145	3·5	140	2·0	160	5·5	205	7·0	...	...	...	...	...	...	...
23	,,	10 30	...	0	...	0·0	140	3·0	145	4·5	210	6·0	...	...	...	...	...	...	Ci.	250	...
25	,,	14 50	150	16	90	4·0	120	5·5	165	10·0	175	5·0	...	...	...	...	...	...	...	...	...
26	,,	13 45	130	8	125	3·0	125	7·0	130	6·5	150	6·5	180	8·5	170	10·5	...	...	...	...	...
28	Benson	11 50	120	9	70	3·0	95	3·6	105	3·3	130	4·6	155	4·9	...	...	...	...	Cu.	110	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Aberdeen	14 m.	32 m.
Benson	57 m.	25 m.
Eskdalemuir	242 m.	15 m.
S. Farnborough	70 m.	31 m.

Notes on Pressure Distribution.

September 1 7 h. Anticyclone over France. Depression between the Faröes and Iceland.
5 7 h. Anticyclone covering the Azores and the Bay of Biscay. Shallow depression over the North Sea. Depression W. of Iceland.
6 7 h. and 18 h. Anticyclone over England. Depression beyond Iceland.
11 18 h. Anticyclone S.W. of Ireland. Depression near Iceland. V-shaped secondary over the N.E. coast of England.
14 7 h. Anticyclone W. of Ireland. Deep depression over Finland.
15 7 h. Anticyclone to the S.W. of the British Isles.
21 7 h. Anticyclone over the British Isles.
22 7 h. Anticyclone covering S.E. England and Denmark. Depression W. of Iceland.
23 7 h. Anticyclone over Germany. Depression over the Atlantic. Anticyclone forming near Corunna.
25 18 h. Depression off S.W. Ireland.
26 18 h. Depression off S.W. Ireland.
28 7 h. Depression off the W. of Ireland, and extending to the Bay of Biscay.



Wind Protractor.

* At 13 h.

10. Nephoscope Observations. June 1916.

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity–height–ratio.				Remarks.
		Degrees from N.	Milliradians per Second.	Components.		
				W.-E.	S.-N.	
		°	mr/s.	mr/s.	mr/s.	
2	Ci.	290	1·4	+1·3	− 0·5	Ci., becoming Ci.-St. later.
	Cu.	315	10·0	+7·1	− 7·1	
4	Cu.-Nb.	305	4·0	+3·3	− 2·3	Base of cloud measured.
7	Ci.-Cu.	346	2·5	+0·6	− 2·4	*Observation at* 12 *h.* 30 *m.* Fine Ci.-Cu. with ☉. (*a*) is apical part of Cu.-Nb., and (*b*) is basal portion. Note great differences in the apparent velocities due probably to considerable vertical depth of cloud.
	Cu.-Nb. (*a*).	335	8·0	+3·5	− 7·5	
	,, (*b*).	328	16·0	+8·5	−13·6	
8	Cu.-Nb.	356	12·0	+0·8	−12·0	Actually Nb.-Cuf. at base of Cu.-Nb.
12	Fr.-Cu.	349	30·0	+6·0	−29·0	Approximate velocities.
15	Cu.	345	14·0	+3·6	−13·6	Inclined to Fr.-Cu. type.
17	A.-Cu.	333	3·0	+1·4	− 2·7	Fine, small, flat cloudlets, with very slight shadows.
19	Cu.	334	10·0	+4·4	− 9·0	
20	Cu.	295	8·0	+7·3	− 3·4	Cu. to Cu.-Nb.
21	Cu.	265	3·6	+3·6	+ 0·3	Cu. in a closed sheet.
22	St.-Cu.	192	4·3	+0·9	+ 4·2	Diffuse, thin St.-Cu.
26	A.-Cu.	235	1·0	+0·8	+ 0·6	Thin, flat, shadowless A.-Cu.
27	A.-Cu.	85	0·5	−0·5	0·0	Thin, flat A.-Cu.; no shadows.

10. Nephoscope Observations. July 1916.

Aberdeen. Taken 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity–height–ratio.				Remarks.
		Degrees from N.	Milliradians per Second.	Components.		
				W.–E.	S.–N.	
		°	mr/s.	mr/s.	mr/s.	
1	Ci.	210	1·5	+ 0·8	+1·3	False Ci., in heavy sheets.
6	St.-Cu.	215	2·8	+ 1·6	+3·3	Thin, flat type of St.-Cu.
8	A.-Cu.	100	1·5	− 1·5	+0·3	A.-Cu. to thin, high St.-Cu.
11	Cu.-Nb.	280	3·3	+ 3·2	−0·6	Base measured.
12	Cu.-Nb.	280	3·3	+ 3·2	−0·6	Base measured. Note the equality of the apparent velocities on the 11th and 12th.
14	Cu.	307	15·0	+12·0	−9·0	There was some fine small A.-Cu. above, moving from about 360°. The speed could not be measured on account of the lower cloud.
17	Cu.	334	8·0	+ 3·5	−7·2	
24	Ci.-Cu.	?	<0·1	—	—	Excessively slow; direction varying, but probably there was a general trend from S.W., as some observations of direction gave S. and others nearly W.
28	Cu.	254	4·0	+ 3·8	+1·1	
29	Cu.	275	8·0	+ 8·0	−0·7	
31	St.-Cu.	292	6·6	+ 6·1	−2·5	

10. Nephoscope Observations. **August 1916.**

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity–height–ratio.				Remarks.
		Degrees from N.	Milliradians per Second.	Components.		
				W.-E.	S.-N.	
		°	mr/s.	mr/s.	mr/s.	
1	Fr.-Cu.	225	19·0	+13·5	+13·5	
2	A.-Cu.	300	4·0	+ 3·5	− 2·0	A.-Cu. to St.-Cu. in sheets.
3	A.-Cu.	285	6·3	+ 6·1	− 1·6	A.-Cu. to St.-Cu. in large lenticular sheets.
5	Cu.	315	9·3	+ 6·6	− 6·6	
21	Cu.	320	12·5	+ 8·0	− 9·6	Cu. of degraded type in fused sheet.
23	Ci.	323	1·9	+ 1·1	− 1·5	*Observation at 12 h.* Patches of Ci.; no definite radiant-point.
28	Cu.	308	5·0	+ 3·9	− 3·1	Transition type between Cu. and St.-Cu.
30	Cu.	315	5·7	+ 4·0	− 4·0	

Note.—Between the 5th and 21st there was blue sky, fog, mist, or uniform stratus cloud at 13 h., and no instrumental observations were possible.

10. Nephoscope Observations. **September 1916.**

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity–height–ratio.				Remarks.
		Degress from N.	Milliradians per second.	Components.		
				W.-E.	S.-N.	
		°	mr/s.	mr/s.	mr/s.	
1	Cu.	252	8·0	+ 7·6	+ 2·5	
4	Cu.	346	20·0	+ 4·8	−19·4	Some A.-Cu. moving from 315°, occasionally visible above the lower Cu.
6	Ci.-Cu.	279	4·0	+ 4·0	− 0·6	Lenticular masses of Ci.-Cu.
8	Ci.	225	1·6	+ 1·1	+ 1·1	Ci. of diffuse type, slight in quantity.
9	Ci.-Cu.	235	4·2	+ 3·4	+ 2·4	Fine Ci.-Cu. in long straight bands, with radiant-point about 230°.
11	St.-Cu.	270	2·8	+ 2·8	0·0	
12	Ci.-Cu.	310	2·9	+ 2·2	− 1·9	*Observation at 12 h.* Ci. to Ci.-Cu. gathering into large irregular lenticular masses.
	Cu.	288	10·4	+ 9·9	− 3·2	
14	Cu.-Nb.	325	10·0	+ 5·7	− 8·2	*Observation at 12 h.*
15	Cu.	315	12·5	+ 8·8	− 8·8	*Observation at 12 h.*
16	St.-Cu.	330	4·5	+ 2·3	− 3·9	*Observation at 12 h.* Closed sheet of St.-Cu.
19	Fr.-Cu.	360	8·3	0·0	− 8·3	Degraded Fr.-Cu. or Nb.-Cuf.
20	Fr.-Cu.	335	8·3	+ 3·5	− 7·5	
21	Ci.	315	2·1	+ 1·5	− 1·5	*Observation at 12 h.* Ci., slight traces only.
	Cu.	180	1·7	0·0	+ 1·7	
23	Ci.-Cu.	250	1·4	+ 1·3	+ 0·5	*Observation at 12 h.* Ci.-Cu. to A.-Cu.
24	St.-Cu.	225	2·0	+ 1·4	+ 1·4	
30	Cu.-Nb.	20	4·2	− 1·4	− 3·9	*Observation at 12 h.* Degraded type of small Cu.-Nb.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 10. OCTOBER 1916]. Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Time.	11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	2·3	20	682	33	46	12 20	46	3·3	28	44	26	Hazy	0·3	3	...	...	...	...	0·1	1
2	0·0	0	*n* 188	9	*n* 11	13 0	8	0·0	0	...	...	...	4·8	42	...	...	...	...	0·0	0
3	0·1	1	326	16	39	11 39	39	0·2	2	...	...	...	0·0	0	...	...	...	...	1·6	14
4	2·6	23	601	30	40	12 42	35	2·5	22	...	...	...	0·0	0	...	...	...	...	3·3	29
5	5·9	52	691	35	54	12 28	54	6·1	54	...	...	...	1·1	10	...	...	...	...	0·0	0
6	0·0	0	206	11	28	12 10	28	0·0	0	...	...	...	0·0	0	...	...	...	...	2·7	24
7	6·5	58	*x* 864	46	51	11 24	48	5·6	50	65	36	Clear	1·6	14	...	...	...	...	3·3	30
8	2·6	23	438	23	40	12 10	40	3·1	28	...	...	...	1·3	12	...	...	...	...	2·1	19
9	3·9	35	664	36	*x* 55	12 20	55	3·4	31	...	...	...	8·6	78	12 46	Clear	2·12	79	6·1	55
10	1·3	12	472	26	43	11 31	43	1·5	14	...	...	...	0·1	1	...	...	...	...	0·0	0
11	0·1	1	490	28	34	13 30	22	0·2	2	...	...	...	0·8	7	...	...	...	...	0·1	1
12	1·6	15	456	26	36	12 27	36	2·1	19	...	...	...	0·1	1	...	...	...	...	0·0	0
13	0·0	0	262	15	23	14 50	11	0·0	0	...	...	...	1·7	16	...	...	...	...	0·0	0
14	0·4	4	490	29	50	13 20	31	0·9	8	..	...	...	0·0	0	...	...	...	...	0·0	0
15	*x* 7·2	67	832	50	52	11 17	48	*x* 7·5	70	...	...	...	3·4	32	...	...	...	...	*x* 6·9	65
16	5·3	50	671	41	42	12 2	42	5·5	52	62	31	Clear	3·9	37	...	...	...	...	1·4	13
17	0·0	0	314	20	22	9 48	19	0·0	0	...	...	...	0·0	0	...	...	...	...	0·4	4
18	1·3	12	411	26	36	10 18	11	0·6	6	...	...	...	1·7	17	...	...	...	...	0·0	0
19	5·8	55	674	43	42	10 50	41	6·6	63	52	25	Clear	*x* 8·8	86	...	...	...	...	0·0	0
20	0·2	2	318	21	20	11 33	20	0·4	4	...	...	...	2·5	25	...	...	...	...	0·0	0
21	5·7	55	658	44	40	11 54	38	6·8	66	60	28	Clear	5·3	52	12 7	Ci.	2·43	70	0·0	0
22	1·3	13	547	37	45	12 15	45	1·6	16	...	...	...	3·8	38	...	...	...	...	0·1	1
23	5·0	49	696	48	42	11 2	40	5·0	49	62	28	Clear	0·0	0	...	...	...	...	0·5	5
24	0·3	3	...	...	...	...	...	1·5	15	...	...	...	6·4	65	...	..	...	...	0·0	0
25	1·7	17	416	30	31	14 20	30	1·7	17	...	...	...	0·6	6	...	...	...	...	2·4	24
26	7·0	70	660	47	39	12 40	36	6·9	69	63	28	Clear	4·9	51	...	...	...	...	5·9	59
27	1·0	10	291	21	36	13 35	34	2·2	22	64	28	Clear	0·0	0	...	...	...	...	0·0	0
28	5·5	56	574	43	43	12 15	43	4·9	49	...	...	...	0·0	0	...	...	...	...	4·1	42
29	0·6	6	244	18	27	14 35	13	0·7	7	...	...	...	0·0	0	...	...	...	...	2·1	21
30	4·0	41	493	38	33	12 25	33	3·7	38	51	21	Clear	0·0	0	...	...	...	...	2·6	27
31	7·0	72	621	49	38	13 10	36	6·9	71	...	...	..	3·0	32	...	...	...	...	4·0	41
Means	2·77	27	508	31	38	—	34	2·94	28	—	—	—	2·10	20	—	—	—	—	1·61	15
Normal	2·13	20	—	—	—	—	—	2·97	28	—	—	—	2·48	24	—	—	—	—	3·26	31
	← 5 years →							← 35 years →					← 5 years →						← 35 years →	

2. METEOROLOGY AND MAGNETISM :—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L. :—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground : h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Declination West.	Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	1013·2	1010·0	88·3	89·4	90	86	13·6	17·0	79	92	9	5	12	4	10∞	10	21·3	● showers. ●² 22 h.	...	...	...
2	1007·7	1005·0	89·1	89·0	90	*x* 88	17·9	17·8	99	99	15	4	15	6	10●	10	6·3	●² showers *n.* and *a.* d. ≡⁰ 12 h.–15 h.	...	...	...
3	1008·2	1007·0	88·9	88·5	*x* 91	*x* 88	16·5	17·2	92	98	16	4	14	6	10	8	6·2	Mostly o. d. 23 h.	...	...	...
4	1002·5	1005·6	88·8	88·7	*x* 91	*x* 88	16·6	16·3	93	92	19	7	21	8	10	8	—	● o h.–2 h. d. at times *a.*	...	...	...
5	1006·8	997·0	89·3	90·0	90	*x* 88	16·9	18·6	92	97	17	4	17	9	10	10●⁰	38·2	●⁰ 12 h.–14 h., then ●² till 17 h.	...	...	...
6	992·9	1001·1	88·3	85·1	90	84	16·4	10·5	95	75	21	7	20	7	8	5	8·4	● *n.* and *a.* Fair to c. later. < 21 h.	...	...	...
7	1005·0	1011·5	85·2	87·8	88	84	13·6	15·5	96	93	23	11	21	10	9	10	0·1	● early. Fine from 10 h. ⊕ 15 h.	...	...	...
8	1015·1	1012·0	88·2	88·3	90	*x* 88	15·2	15·3	89	89	20	4	19	9	9	10	0·8	o. *a.* Fine *p.* to o.	...	...	...
9	1015·5	1015·0	86·0	85·6	89	84	13·5	13·0	91	90	22	4	16	4	7	10	—	Fine to c.	17851	19 52·6	68 7·7
10	1010·0	1014·9	89·3	87·4	89	86	16·0	14·2	87	87	20	12	21	9	10	5	3·0	● showers *a.* Dull *p.* Ψ⁰ 21 h.	...	...	...
11	1017·4	1018·7	88·4	88·3	89	87	16·1	15·3	93	89	20	7	20	6	8	10	0·3	Dull, with ∞.	...	...	...
12	1015·5	1019·3	88·8	85·4	90	85	17·1	12·6	96	88	20	9	—	1	10	7	3·7	d. 7 h. Dull and q. *a.* d. ≡⁰ *p.*	...	...	...
13	1016·9	1014·3	88·6	88·6	90	85	17·3	17·3	98	98	17	5	20	8	10	10	7·1	● *n.* to d. Damp ≡⁰ and low clouds.	...	...	...
14	1003·8	1008·5	89·4	85·3	90	84	17·4	9·5	94	*n* 67	17	10	26	12	10	7	3·3	● showers *a.* ●² and q. 13 h. 35 m.	...	...	...
15	1018·0	1024·9	83·2	82·4	85	81	8·4	9·5	68	81	28	11	31	4	7●	6	4·3	● showers early. Bright to c.	...	...	...
16	1024·3	1016·7	81·9	83·0	85	81	10·8	11·6	96	95	—	0	15	5	5	10●⁰	9·7	● showers *n.* and *a.* ⊕ 13 h. d. *p.*	...	...	...
17	1009·2	1013·4	86·0	85·0	87	84	14·6	11·0	98	79	24	4	27	6	10●⁰	9	0·7	● o h.–4 h. ● showers.	...	...	...
18	1018·0	1019·4	86·0	86·5	87	85	13·2	13·2	89	86	22	6	25	8	10	7	0·7	Dull and o. ●⁰ showers.	...	...	...
19	1022·1	1022·9	87·2	85·9	87	85	15·1	14·3	94	97	26	5	—	1	10	10	0·3	Dull and o. ●⁰ shower 18 h.	...	...	...
20	1019·5	1011·6	85·7	86·2	87	85	12·6	13·6	86	90	15	5	15	7	10	8	13·9	o. to c. ●⁰ shower 16 h.	...	...	...
21	1005·9	1002·2	84·0	82·0	86	82	12·6	10·4	97	91	—	0	32	5	10	10●	*x* 51·4	o., with ●. Continuous ●² from 16 h.	...	...	...
22	998·0	1002·1	82·9	80·6	84	80	11·1	8·2	92	79	3	2	2	6	7	9	9·8	o. c., with ●.	...	...	...
23	1003·5	1004·0	82·0	80·9	84	80	8·7	8·6	76	81	31	3	—	1	9∞	3	0·2	c. to o. ● showers in afternoon.	...	...	68 7·1
24	992·7	966·2	83·9	84·0	85	*n* 79	9·9	10·9	77	84	15	11	12	14	9	10●	17·6	Dull *a.* ● 13 h. and from 16 h.	17870	19 49·6	...
25	977·9	993·8	81·9	80·3	*n* 83	*n* 79	9·1	8·3	81	81	23	14	23	12	10●	10●	5·8	/ 1 h.–6 h. and 8 h. ● showers. ▲ *a.*	...	...	...
26	1003·7	993·1	81·3	82·7	84	*n* 79	8·7	8·8	80	74	20	4	7	5	7	10	23·3	● showers *n.* Fine *a.* Dull *p.*	...	...	...
27	977·3	989·2	80·6	82·1	*n* 83	*n* 79	8·9	8·5	85	74	32	13	27	13	10●	8	10·9	o., with ●. Fine evening.	...	...	...
28	995·5	989·7	82·3	80·8	84	80	9·3	9·8	80	93	25	9	16	5	8	10●	9·6	Fine to showery *a.* ● in evening.	...	...	...
29	987·8	992·4	81·0	81·9	84	81	8·5	10·1	80	89	31	6	16	4	6	9	·8	● early. Fine from 7 h. Parhelion 16 h.	...	...	...
30	971·8	988·1	83·6	81·0	85	81	11·7	9·4	92	88	21	20	21	7	10	10●	3·6	● early. / 9 h.–13 h. ▲● 15 h.	...	...	...
31	996·5	1000·2	82·4	81·1	84	80	9·1	9·8	78	91	21	13	20	4	7	4●	6·3	Frequent ▲● showers. ↖ 21 h.	...	...	...
Means	1004·9	1005·5	85·6	85·0	87·0	83·4	13·1	12·5	88	87		7·1		6·6	8·9	8·5	272·6	Monthly **Totals** or **Means.**	17861	19 51·1	68 7·4
Normal	1010·7	1010·9	83·7	83·6	86·6	81·1	11·1	11·0	86	86		5·2		5·1	—	—	144·5	**Normals.**			
	← 45 years →						← 30 years →				← 35 years →						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—1/18.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
			a.	a.	a.	a.	millibar.								Tenths of Sky covered.			a.	a.	a.		
	mb.	mb.	200+	200+	200+	200+			%	%	Dir.	m/s.	Dir.	m/s.			mm.	200+	200+	200+	cm.	cm.
1	1023·1	1020·9	83·8	84·0	89	82	9·8	12·0	76	92	4	2	—	1	9≡0	1	2·6	81	86·0	86·3	211	—
2	1016·5	1016·7	84·3	85·5	86	81	12·5	13·9	94	96	9	3	9	4	10≡0 ●0	10● ≡0	10·3	76	85·7	86·2	212	—
3	1017·4	1016·7	87·0	87·0	91	85	14·9	14·9	94	94	—	1	—	1	10≡0	1	7·1	84	86·0	86·2	212	212
4	1009·5	1008·5	89·0	88·6	x 92	86	16·8	14·9	93	85	18	7	20	5	10	1	0·4	81	86·4	86·2	212	—
5	1008·9	1012·0	89·7	88·9	x 92	88	14·3	16·1	76	90	22	6	18	4	8	10●	1·6	86	87·0	86·3	211	—
6	1009·0	1005·4	90·0	90·0	91	x 89	16·1	16·7	84	87	19	8	19	7	10	10	0·3	87	87·5	86·2	209	—
7	1008·4	1009·9	87·3	86·3	90	86	11·6	11·9	72	79	20	8	21	5	8	10	0·1	83	87·5	86·3	208	—
8	1014·5	1017·8	88·0	87·8	91	85	14·5	13·1	86	79	20	5	20	4	10	10	—	83	86·8	86·3	206	—
9	1017·3	1018·9	88·9	85·9	91	85	14·0	13·9	78	94	20	6	—	1	4	7≡0	1·6	85	86·9	86·4	205	—
10	1018·1	1016·7	88·6	88·6	91	85	15·6	14·4	89	82	19	6	19	7	10	10	—	81	86·8	86·4	205	—
11	1019·3	1021·8	89·0	89·4	91	88	14·1	14·8	78	80	21	6	21	6	9	10	—	85	87·1	86·4	204	—
12	1021·2	1020·5	89·3	88·7	x 92	88	13·8	14·8	75	84	20	7	20	6	10	10	2·3	86	87·3	86·3	204	—
13	1022·0	1021·1	89·1	89·7	x 92	x 89	17·2	16·8	95	89	20	4	20	6	10●≡0	7	0·6	87	87·5	86·3	204	—
14	1017·9	1006·4	89·5	88·9	91	88	14·6	13·6	78	76	19	8	18	11	10	10	0·4	86	87·8	86·4	205	—
15	1009·7	1014 0	84·0	80·4	88	80	9·5	8·3	73	81	23	5	24	2	2	1	0·2	80	87·3	86·5	206	—
16	1022·0	1020·0	79·1	79·8	84	77	8·0	8·4	85	85	26	2	—	1	0≡0⌙	3≡0	—	71	85·6	86·6	206	—
17	1018·7	1008·0	79·5	84·7	86	75	8·8	13·5	91	99	—	0	18	4	10≡0	10●	x 13·8	70	84·3	86·5	207	—
18	1012·6	1017·0	83·6	83·3	87	83	11·7	10·8	92	87	27	3	24	2	9	10≡0	6·0	80	84·7	86·4	208	—
19	1015·0	1021·8	83·7	83·6	86	81	9·3	9·9	73	78	29	5	4	5	3	8	—	80	84·8	86·2	207	—
20	1025·1	1023·2	81·1	77·3	n 82	74	7·1	6·8	n 66	82	5	4	—	0	5≡0	0≡0	—	72	84·0	86·0	205	—
21	1019·6	1015·1	75·9	75·6	n 82	n 72	6·0	6·6	80	90	—	1	—	0	1≡0⌙	0≡0	0·1	n 68	82·3	86·0	204	—
22	1011·8	1008·7	77·9	81·1	n 82	74	6·5	8·8	75	82	10	5	10	4	9≡0	10	0·4	69	81·1	85·9	203	—
23	1011·5	1010·7	84·9	82·6	87	81	11·2	11·2	81	94	15	5	20	2	8	6≡0	2·1	76	81·6	85·6	202	—
24	1006·9	997·5	83·3	81·4	86	80	11·8	10·4	95	95	—	1	14	2	8≡0	0≡0	3·7	76	82·1	85·2	201	—
25	989·0	997·0	83·4	80·1	87	77	11·9	9·5	95	94	13	6	—	1	10●0	0≡0	1·1	77	82·6	85·1	201	—
26	1006·2	1009·7	78·1	78·0	85	76	8·5	7·6	97	88	—	1	—	1	? 1≡	0≡0	2·9	74	82·3	85·0	200	199
27	993·5	989·6	82·7	81·7	86	77	11·0	9·7	92	87	13	7	16	7	10●0	9	13·3	71	81·9	84·9	200	199
28	993·1	999·7	83·4	80·9	86	80	9·0	9·1	72	86	19	9	19	3	4	1	—	79	82·2	84·7	201	—
29	991·6	990·6	82·9	82·6	86	79	10·5	10·8	87	91	12	6	18	7	10●0	10●	6·7	80	81·9	84·6	202	—
30	991·3	994·7	84·5	84·2	88	81	12·5	10·0	93	76	18	8	20	7	9●	3	10·9	80	82·1	84·4	205	—
31	1003·1	1009·9	82·4	83·0	86	81	9·4	9·5	80	78	19	8	18	5	3	2	4·6	79	82·5	84·4	206	—
Means	1011·1	1011·0	84·6	84·2	87·8	81·6	11·7	11·7	84	86		4·9		3·9	7·4	5·8	93·1	79·1	84·8	85·9	206	—
Normal	1012·9	1012·9	82·5	82·3	86·4	79·3	10·4	10·5	86	88		3·2		2·6	—	—	69·0 (45 years)	—	84·0	85·6	—	—
	45 years						30 years				35 years								12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

1	995·5	992·2	78·9	74·7	83	73	8·1	6·1	88	88	—	0	—	0	10	3	—	No record.	Mostly o.
2	990·5	990·4	78·9	75·4	83	72	7·8	6·7	84	93	2	2	—	1	7≡0	1	3·8		⌙2 early. ⊕ 8 h.–9 h.
3	986·4	983·3	80·6	85·6	86	75	10·0	14·5	96	100	—	1	18	6	10●0≡0	10≡ 0	12·8		o., with ●≡0.
4	976·1	970·2	86·0	84·6	86	x 84	14·9	13·4	100	99	16	4	—	0	10≡ 0	10● ≡0	21·5		o., with ●≡0.
5	975·8	975·6	84·8	84·7	87	x 84	12·2	13·5	89	99	24	5	14	3	10	10●	20·6		o., with ●≡0.
6	965·4	968·2	87·4	84·1	x 88	x 84	15·3	11·0	94	84	20	15	21	8	10≡0	7Ψ	18·0		o., with ● till 16 h.
7	966·6	974·6	83·0	82·9	86	82	10·7	9·9	88	82	20	9	23	5	10●	5	4·4		●2 early. ● showers p. Double ⌢ 16 h.
8	979·6	978·4	84·7	85·2	87	82	11·3	12·4	83	88	21	5	20	14	7	7	3·4		● early and from 16 h.
9	979·6	984·3	84·1	80·9	86	79	10·1	8·9	77	84	21	13	20	6	6	1	7·1		Fair to fine.
10	975·8	975·7	84·5	83·2	87	79	13·2	9·9	98	80	18	13	22	10	10●≡0	10●	x 36·8		● from 7 h.–13 h. and from 17 h.
11	981·8	982·4	81·4	86·4	87	79	10·1	14·4	92	94	20	10	20	13	10●	10●0	10·2		o. d. ≡0. ●2 23 h. 30 m. 24 h.
12	978·5	984·7	85·5	82·6	x 88	82	13·9	8·7	96	n 73	20	15	22	14	10●≡0	3	5·6		o., with ●. Fine evening.
13	990·3	987·3	81·5	82·0	85	78	9·4	10·6	85	93	15	3	19	2	5∞	10●0	22·3		Clear to c. ● from 21 h.
14	973·4	960·0	86·1	82·3	87	81	14·8	9·0	99	77	18	16	22	17	10●≡0	8	27·0		o., with ●2. 13 h.–17 h. and 20 h.
15	972·4	987·6	79·7	76·0	82	73	7·6	5·9	78	79	24	9	29	6	7	0	0·5		q. and ● 7 h. to fine. Lunar ⌢ 19 h.
16	989·7	992·2	75·3	70·0	n 80	67	6·7	4·3	93	88	14	2	—	1	7	0⌙	—		⌙2 early. Fine.
17	987·0	980·8	73·2	79·5	n 80	n 66	5·0	9·5	81	98	32	2	15	4	10⌙	10●≡0	8·3		⌙2 early. d. ≡0 p.
18	983·8	983·4	80·2	80·0	84	78	10·0	8·8	99	88	16	2	25	3	9≡0	6	1·8		Ground fog and ≡0 a. ● shower 16 h.
19	990·0	996·5	81·8	75·9	84	74	8·5	7·0	75	93	32	5	—	1	3	1	0·1		Fine.
20	996·9	993·4	76·2	73·8	83	72	7·4	6·2	97	96	—	0	—	0	10≡0	3	—		≡ early.
21	989·0	985·7	73·5	72·8	n 80	72	5·4	5·3	85	88	—	0	—	1	5⌙	3	—		Fine to c.
22	984·5	983·3	74·5	78·3	n 80	71	5·8	6·6	85	74	—	1	10	6	5≡0	8	0·7		Fair to c. ⊕ all morning.
23	977·9	973·0	78·5	80·5	81	76	8·1	9·6	90	93	10	3	14	4	10●0	10●	12·5		o. d. a. ●2 in evening.
24	975·7	968·5	79·4	79·7	83	78	8·6	8·5	90	87	14	2	12	3	8	7	0·4		o. to fine.
25	958·0	964·8	81·1	78·9	82	77	9·6	8·4	89	91	12	10	15	3	10●	7	9·7		c. to o. and ●.
26	974·1	978·9	78·0	73·0	82	71	7·6	5·2	87	85	18	4	—	1	2	0⌙	0·2		Mostly fine. ⌢ 13 h.
27	968·2	957·7	75·3	80·5	81	71	6·7	8·7	93	84	5	6	8	8	10≡0	10●	4·4		⌙2 early. o. a. ● showers p.
28	954·1	961·6	80·3	79·3	82	79	9·4	8·6	92	90	1	5	20	5	10	10●6	1·1		Mostly o. d. 21 h.
29	964·0	962·2	78·0	80·1	81	75	7·6	9·8	87	97	—	1	3	2	10	10●0	10·9		Very red sunrise. o. to steady ●.
30	955·5	948·2	79·9	80·4	82	79	9·6	8·4	97	82	14	3	22	10	10≡0	10	17·0		d. and ≡0 early to ●.
31	960·9	969·4	79·3	78·5	81	78	7·7	7·6	81	84	21	9	21	10	9	10●	4·4		●0 12 h. Sunny p. ●2 in evening.
Means	977·3	977·2	80·4	79·7	83·6	76·5	9·5	8·9	89	88		5·6		5·4	8·4	6·5	265·5	—	Monthly Totals or Means.
Normal 1911-15	985·6	985·6	80·4	79·3	83·7	76·4	9·2	8·7	88	90		4·5		3·5	—	—	100·4	—	Normals.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 25 days; they are computed from the data for those days on which values at each of the four hours, 3h, 9h, 15h, 21h, are given in the table. A similar note applies to the values in Table 6.

x denotes the maximum and *n* the minimum value in the column. *z* Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre. Factor 2·09.				Charge per cc. ×10¹⁶. +. | −.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
											Mean Time.		Mean Time.		Mean Time.	
		3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.			h m	γ	h m	° ′	h m	° ′
		v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².								
1	Dull till 9 h., then fine to fair.	330	375	185	105	...	...	...	0	2	...	...	...	...	...	...
2	o., with ●. ≡ 17 h.–19 h.	...	...	295	365	...	...	...	1 ?	2	...	...	...	...	...	...
3	●⁰ early. Dull and o.	185	315	95	235	...	...	...	1	0	...	...	...	...	...	...
4	● 6 h.–9 h. Fair to fine.	140	80	200	255	·65	·23	1·10	1	0	...	...	...	...	...	...
5	● early. Fine till 15 h.	130	220	245	175	·78	·42	1·15	1	1	11 4	18437	14 24	15 11·7	14 42	66 57·7
6	Dull and o. Frequent ●⁰ *p*.	70	115	165	140	...	...	...	0	2	...	...	...	...	...	...
7	Fine to fair. ●⁰ showers *p*.	80	235	165	175	...	...	...	1	2	...	...	...	...	...	...
8	Dull till 12 h., then fine to fair.	105	80	130	255	...	...	...	0	2	...	...	...	...	...	...
9	Fine to fair. ●⁰ 17 h. ◡ 21 h.	95	210	185	375	...	...	0·90	0	1	...	...	...	...	...	...
10	Dull to fair.	150	220	220	210	...	...	1·10	0	1	...	...	...	...	...	...
11	Mostly dull.	80	165	175	140	...	...	0·80	0	1	...	...	...	...	...	...
12	Fine to dull *a*. Fair to fine *p*.	80	115	165	210	...	...	1·00	0	1	11 4	18410	14 24	15 11·9	14 27	66 58·7
13	● 6 h.–7 h. and 8 h.–10 h. Dull.	35	165	175	255	·42	·27	...	1	2	...	...	...	...	...	...
14	Mostly dull.	115	235	210	130	...	...	...	1	1	...	...	...	...	...	...
15	Fine. ●⁰ 13 h., 14 h., and 18 h.	70	235	220	295	...	...	...	1	0	...	...	...	...	...	...
16	⌣ early. Fine to fair. ●⁰ 16 h.	200	445	235	305	...	...	0·95	0	0	...	...	...	...	...	...
17	≡⁰ till 9 h. ●⁰ 11 h. ● *p*.	245	385	-165	60	...	...	...	2	0	...	...	...	...	...	...
18	Dull to fair. ●⁰ 2 h. and 13 h.	140	315	245	470	·40	·23	...	0	0	...	...	...	...	...	...
19	Fine till 15 h., then fair to c.	-350	305	330	365	·55	·30	...	2	0	11 9	18433	14 24	15 10·2	14 26	66 57·3
20	Dull and o. from 9 h.	470	610	575	690	·25	·13	...	0	1	...	...	...	...	...	...
21	≡⁰⌣ early. Fine.	480	525	235	455	...	...	...	1	1	...	...	...	...	...	...
22	⌣ early. ⊕ 9 h. ●⁰ 18 h. and 23 h.	280	420	*z* ±	185	...	...	...	0	1	...	...	...	...	...	...
23	●² 10 h. Mostly fine.	140	*z* ±	*z* ±	*z* ±	·70	·61	...	1	1	...	...	...	...	...	...
24	≡ early. Fair to fine *a*. Dull *p*.	295	315	165	305	·38	·09	0·45	1	1	...	...	...	...	...	...
25	Dull, with ● *a*. Fair to fine *p*.	95	-175	270	365	·91	·42	0·95	2	0	...	...	...	...	...	...
26	≡² till 9 h. Fine.	490	410	235	470	·61	·19	0·70	0	0	11 10	18436	14 23	15 9·2	14 26	66 58·3
27	● till 12 h. ◟● 16 h. ● *n*.	150	70	235	*z* ±	...	...	...	2	0	...	...	...	...	...	...
28	Fair to fine.	95	200	*z* ±	470	...	...	...	1	0	...	...	...	...	...	...
29	●² 12 h. Fine 14 h.–15 h. ● *n*.	255	185	200	10	...	...	...	1	1	...	...	...	...	...	...
30	● at times *a*. and *p*. ⌒ 16 h.	115	150	*z* ±	270	...	...	...	1	0	...	...	...	...	...	...
31	●² early. Mostly fine. ●² 22 h.	150	255	175	295	·84	·74	1·00	1	0	...	...	...	...	...	...
M.		165*	254*	201*	270*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre. Factor 5·57.				Charge per cc. ×10¹⁶. +. | −.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
										Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².														
1	125	133	148	226	...	...	...	0 *a*	2	22 38	1049	912	{11 43 11 48}	13 35	1081	909	1 16	14 10	175	-60	1 58
2	148	476	156	218	...	...	...	0 *a*	1	17 39	1053	923	11 7	12 20	1055	912	17 34	17 19	163	93	1 10
3	226	23	156	265	...	...	...	1 *a*	1	16 53	1035	929	10 56	13 34	1041	974	16 44	16 47	149	120	0 0
4	265	382	-530	468	...	...	...	1 *b*	0	22 53	1024	959	11 41	14 21	1034	989	9 12	19 32	130	119	1 40
5	78	265	78	125	...	...	...	1 *b*	1	21 18	1084	954	13 36	13 0	1058	957	23 54	20 40	142	94	23 50
6	86	39	242	148	...	...	...	2 *c*	2	15 40	1084	793	23 9	14 52	*x* 1142	*n* 807	20 2	{15 / 15} + {50 / 57}	*x* > 319	25	24 0
7	31	16	499	226	...	...	...	2 *c*	2	16 33	*x* 1142	*n* 764	0 30	0 20	1077	879	2 5	16 27	238	*n* -190	0 31
8	78	234	148	156	...	...	...	1 *b*	1	18 14	1052	914	11 59	13 49	1054	939	18 8	15 43	190	51	3 6
9	-148	94	94	273	...	...	...	1 *b*	1	16 48	1065	940	12 26	14 6	1047	939	16 40	16 37	170	98	5 25
10	234	-1357	31	31	...	...	...	2 *c*	1	20 2	1037	930	11 5	14 8	1048	980	19 2	16 31	153	109	24 0
11	*z*	8	265	55	...	...	...	2 *b*	2	19 12	1099	928	20 4	14 10	1064	942	19 2	16 10	178	98	{6 0 / 6 26}
12	70	31	-78	125	...	...	...	2 *b*	1	23 7	1032	939	{10 50 11 9}	2 40	1043	941	24 0	17 22	202	93	24 0
13	172	273	8	23	...	...	...	0 *a*	2	22 14	1043	889	21 57	14 51	1062	808	20 9	16 40	202	7	22 27
14	70	-1022	†	†	...	...	...	2 *b*	0	7 19	991	908	11 17	10 59	1033	975	8 43	11 22	143	107	0 0
15	‡	‡	234	187	...	...	...	? 1 *b*	0	3 43	998	925	12 10	{5 / 6} 56	1047	982	9 41	15 55	141	111	4 24
16	211	273	226	382	...	...	...	1 *a*	0	20 4	1000	947	11 30	14 16	1022	974	9 23	9 0	142	125	12 45
17	140	47	...	...	...	...	...	...	0	20 10	999	950	11 28	13 56	1037	985	9 20	16 30	141	122	12 28
18	86	148	...	...	...	...	...	? 1 *a*	0	20 27	1002	949	11 11	13 7	1042	984	9 7	8 35	136	120	11 55
19	109	242	211	234	...	...	...	0 *a*	0	18 3	1015	960	10 36	14 53	1038	982	10 36	9 45	132	118	12 35
20	195	304	226	320	...	...	...	0 *a*	1	19 34	1022	952	10 43	12 5	1085	979	23 22	20 34	139	117	12 7
21	156	226	242	304	...	...	..	0 *a*	1	21 0	1055	922	14 36	14 5	1070	950	21 28	15 20	148	114	3 6
22	179	242	179	226	...	...	...	0 *a*	1	21 57	1039	943	{9 / 10} 42 13	12 6	1057	928	19 7	19 7	144	98	6 19
23	-70	-140	179	140	...	...	...	2 *c*	1	20 21	1034	948	15 49	1 16	1043	945	16 17	16 10	163	74	1 37
24	148	343	289	...	...	...	...	1 *b*	1	22 16	1039	937	13 4	12 36	1053	940	19 57	19 50	139	99	22 37
25	265	-468	...	...	...	...	...	...	0	5 25	1006	923	12 8	13 5	1040	980	19 4	19 3	131	109	5 31
26	...	...	...	...	...	...	..	...	0	22 40	1017	962	11 47	15 2	1028	971	23 3	22 16	129	118	11 0
27	...	...	265	390	...	...	...	...	0	20 56	1015	961	11 27	13 16	1030	980	0 0	15 20	125	112	1 40
28	140	0	195	-374	...	...	...	1 *b*	0	20 3	1005	959	11 24	13 8	1036	993	8 50	{9 / 19} 44 40	122	115	6 0
29	156	250	-975	234	...	...	..	2 *b*	1	21 22	1081	956	17 7	15 16	1038	946	21 7	20 23	137	95	21 31
30	382	296	*z*	304	...	..	...	2 *c*	0	20 33	1013	959	11 25	13 40	1032	987	10 22	16 30	124	99	5 3
31	86	156	101	-320	...	...	...	2 *c*	0	23 5	1005	960	12 43	13 33	1034	993	23 55	17 44	124	103	3 7
M.	120*	103*	73*	163*	—	—	—	—	—	—	1037	929	—	—	1051	950	—	—	152§	86§	—

* 21 days. *See* note above. † Insulation bad. ‡ Air in pipe. § 30 days.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
1	Pe	2 36 36	...	...	...	...	...	Prolonged slight disturbance.
	L	3 26	25	...	...	...	...	
	F	4 42	...	...	...	...	...	
2		2 7 to	...	...	...	...	...	Faint disturbance.
		2 30	...	...	...	...	...	
3	Pi	1 39 32	...	...	...	...	9610	There was apparently a second disturbance in the afternoon; its phases cannot be separated from those of the principal one.
	PR	1 43 16	...	...	...	...	...	
	S	1 56 16	...	...	...	...	...	
	M	1 57 23	...	...	...	...	...	
	M	1 57 28	29	...	33·3	...	...	
	L	2 4	...	...	...	...	...	
	M	2 6 25	29	45·5	...	...	...	
	L	2 22	...	...	...	?	...	
	F	5 40	...	...	...	...	...	
3	Pe (?)	13 42 22	...	...	...	...	...	
	S (?)	13 51 14	...	...	...	...	...	
	L	14 5	...	...	...	...	...	
11		18	...	...	...	...	...	Moderate disturbance. Phases masked by wind effects and microseisms. Prominent displacement at 18 h. 47 m. 10 s. on E.-W.
	M	18 47 10	22	...	21	...	...	
20	P	17 27 12	...	...	...	...	...	Prolonged irregular disturbance. Phases masked by microseisms. Displacement N.E.-S.W. at 18 h. 38 m. during passage of well-marked L waves.
	M	18 23 6	19	6·3	...	...	...	
	L	18 38	...	?	?	...	...	
	F	19 45	...	...	...	...	...	
21		10 48 to	...	...	...	...	...	Faint disturbance, with maximum about 10 h. 56 m.
		11 12	...	...	...	...	...	
21	P (?)	19 48 34	...	...	...	...	...	Slight disturbance.
	L	20 16	24	...	...	...	...	
21		22 25 to	...	...	...	...	...	Slight disturbance, with no prominent feature except a few well-marked L waves on E.-W. about 23 h. 24 m.
		23 40	...	...	...	...	...	
23	L	11 22 to	...	...	...	...	...	
		11 43	...	...	...	...	...	
25		0 19 to	...	...	...	...	...	Faint disturbance.
		0 34	...	...	...	...	...	
31	Pi	15 42 38	...	...	...	...	8320	Epicentre 46° N. lat. 163° W. long. Large earthquake, with well-marked phases. F masked by wind effects. Oppositely travelling waves observed at 18 h. 10 m.
	PR_1	15 45 54	...	...	...	...	...	
	PR_2	15 47 35	...	...	...	...	...	
	S	15 52 14	...	...	...	...	...	
	SR_1	15 57 13	...	...	...	...	...	
	SR_2	16 1 5	...	...	...	...	...	
	L	16 7 5	...	...	...	...	...	
	M	16 10 39	23	30·4	...	...	...	
	M	16 13 55	20	...	40·8	...	...	
	M	16 14 15	21	54·7	...	...	...	

Microseisms of N. Component:—Eskdalemuir.

Day.	0 h. A_N.	0 h. T.	6 h. A_N.	6 h. T.	12 h. A_N.	12 h. T.	18 h. A_N.	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	0·7	6	0·7	5·5	0·7	5·5	0·5	6
2	0·6	5	0·7	6	0·7	5·5	0·7	5
3	0·8	5	0·9	4·5	0·7	5	1·1	4
4	0·7	4	0·5	4	0·3	4	0·9	4
5	1·1	4	1·0	4	1·0	4·5	1·2	4
6	1·1	4	1·9	4·5	2·1	4	1·8	4·5
7	1·9	4·5	2·0	4·5	1·8	5	1·8	5·5
8	3·3	5	3·6	5·5	3·1	5·5	2·7	5
9	2·3	6	2·2	5·5	1·5	7	1·6	6
10	1·3	6	1·2	6	1·4	6	1·2	5
11	2·0	5	1·7	6	1·6	6	1·6	6
12	1·6	6	1·7	6	2·5	5·5	1·8	6
13	2·3	6	3·4	6	3·0	6	2·3	6
14	1·7	6	1·6	5·5	1·9	6	2·1	6
15	4·7	6	5·4	6	6·2	6	5·5	6
16	4·9	6·5	3·7	6	2·8	6	1·6	6
17	1·5	6	1·8	6	1·2	6	1·7	5·5
18	1·8	5	1·4	6·5	1·6	6	1·0	6
19	1·4	5·5	1·4	6·5	1·4	7	1·4	6·5
20	1·3	6	1·2	6	1·4	6·5	Earthquake.	
21	1·3	7	1·7	6	1·9	6	1·9	6
22	1·6	6	1·6	6	1·3	6	1·0	6
23	0·9	6	0·8	5·5	0·8	5	0·7	5·5
24	0·7	5	*	*	0·9	5	0·9	5·5
25	1·8	5	1·8	5	2·7	6	3·7	6·5
26	4·4	6·5	4·8	6	4·1	6·5	3·1	6
27	3·3	5	2·5	5·5	2·1	5	1·8	5
28	1·7	5	1·5	4·5	1·2	5	1·1	6
29	1·0	5·5	1·1	5	1·5	5	0·9	6
30	0·9	6	0·9	6	1·4	6·5	1·6	6
31	1·7	5·5	1·2	6	1·8	5	1·1	4·5

* Clock under repair.

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
1	...	3 46	Very small.
3	1 48·5	2 22·2	Lasted several hours.
11	...	18 48	Small.
20	17 33	18 35·8	
21	...	20 19·5	Very small.
23	...	11 43	Very small.
25	...	0 28	Very small.
31	15 46	16 25·5	Amplitude on trace 3·0 mm.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Date.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	0·6	...	...	2·9	0·4	...	...	2·0	...	...	...	3·0	...	...	...	3·5	7·0	5	45
2	...	...	...	2·2	...	...	...	5·1	...	1·6	...	8·0	...	1·0	...	5·1	11·2	12	20
3	5·7	...	...	3·8	6·5	...	1·3	...	6·7	...	2·8	...	5·5	...	2·3	...	13·5	16	50
4	5·5	...	1·1	...	7·2	...	7·2	...	6·7	...	6·7	...	6·7	...	6·7	..	17·0	9	10
5	2·2	...	11·3	...	1·2	...	5·8	...	6·9	...	2·9	...	10·2	...	...	...	19·0	22	10
6	10·1	...	6·7	...	10·6	...	4·4	...	8·3	...	8·3	...	5·5	...	3·7	...	20·4	8	0
7	6·0	...	9·0	...	8·8	...	8·8	...	2·0	...	10·0	...	...	...	10·2	...	23·8	11	30
8	3·0	...	7·3	...	1·4	...	7·1	...	4·0	...	6·0	...	4·6	...	6·8	...	17·0	23	50
9	3·9	...	9·4	...	...	...	8·5	...	2·1	...	5·2	...	1·4	...	3·3	...	18·0	1	35
10	3·7	...	5·5	...	7·8	...	7·8	...	6·6	...	9·8	...	4·0	...	9·7	...	20·8	14	30
11	3·0	...	7·3	...	3·8	...	9·1	...	4·7	...	7·1	...	4·7	...	7·1	...	17·9	9	10
12	7·4	...	7·4	...	8·8	...	8·8	...	5·4	...	8·1	...	...	4·4	6·6	...	20·6	7	50
13	...	1·7	2·5	...	3·3	...	3·3	...	5·8	...	5·8	...	4·7	...	7·1	...	15·7	23	50
14	6·9	...	6·9	...	11·7	...	7·8	...	13·0	...	8·7	...	...	3·3	16·7	...	27·3	20	15
15	...	5·9	14·2	...	...	6·0	14·5	...	...	12·0	8·0	...	...	11·6	4·8	...	24·3	14	40
16	...	7·6	5·1	...	...	7·9	5·3	..	...	5·1	5·1	...	...	1·6	1·6	...	16·0	10	25
17	3·5	...	0·7	...	6·6	...	...	...	5·8	...	...	1·2	2·3	...	2·3	...	13·1	10	5
18	...	7·2	7·2	...	...	5·3	5·3	...	2·3	...	5·5	...	...	1·9	9·3	...	17·4	21	15
19	...	7·4	7·4	...	...	8·2	3·4	...	...	4·6	...	...	0·3	...	...	1·3	15·0	3	30
20	2·0	...	...	0·4	2·6	...	...	0·5	4·8	...	...	1·0	6·1	...	...	1·2	12·6	20	10
21	6·2	...	...	...	8·0	...	...	1·6	6·9	...	...	...	8·0	...	...	1·6	14·2	12	15
22	5·1	...	...	5·1	0·8	...	...	3·8	2·9	...	...	6·9	2·2	...	...	11·3	14·6	20	35
23	1·4	...	...	7·1	6·9	...	...	...	10·3	...	4·3	...	1·8	...	4·3	...	19·4	13	45
24	1·4	...	3·3	...	6·4	...	...	2·6	8·8	...	...	3·6	5·1	...	...	5·1	16·7	18	5
25	8·6	...	...	8·6	7·9	...	...	...	6·5	...	6·5	...	3·8	...	5·7	...	19·1	4	0
26	3·3	...	4·9	...	3·7	...	5·5	...	2·2	...	3·2	...	3·3	...	4·9	...	13·2	5	50
27	...	...	...	12·5	...	...	...	12·5	5·0	...	...	12·1	...	...	...	10·5	29·0	5	30
28	...	6·4	2·6	...	...	...	13·4	...	...	...	13·1	...	3·3	...	7·9	...	21·8	15	15
29	6·5	...	...	1·3	1·2	...	...	5·8	...	...	...	1·3	...	7·9	5·3	...	16·2	21	25
30	2·6	...	3·8	...	6·7	...	6·7	...	10·7	...	16·0	...	2·4	...	11·9	...	35·7	15	15
31	...	...	10·5	...	4·8	...	11·6	...	5·7	...	13·7	...	4·2	...	6·2	...	24·0	13	50
S+N & W+E	134·8		178·0		154·5		179·5		167·4		193·9		121·8		184·0				
S−N & W−E	62·4		90·2		99·7		111·7		120·8		119·7		58·4		104·8				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Date.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	...	0·5	...	0·5	...	3·3	...	...	0·4	...	2·3	...	0·6	...	1·5	...	7·2	24
2	...	6·7	2·8	..	...	3·8	...	0·8	...	2·9	...	0·6	1·9	...	...	1·3	7·2	2, 3
3	3·6	...	...	2·4	7·1	...	...	4·7	9·1	...	...	3·8	4·0	...	...	1·6	10·8	11
4	2·3	...	...	...	3·3	...	...	...	1·3	...	...	...	...	2·1	...	5·2	6·9	23
5	...	5·6	...	5·6	...	3·3	...	3·3	...	1·4	...	2·2	...	...	...	4·9	8·2	4, 5
6	...	...	...	7·2	...	3·4	...	5·2	...	6·1	...	2·5	...	4·7	3·1	...	9·5	6
7	...	1·1	0·7	...	...	4·8	...	1·0	...	5·5	2·3	...	...	4·4	4·4	...	7·2	17, 18
8	...	3·8	5·7	...	...	0·6	1·5	...	2·5	...	6·1	...	7·9	...	...	...	9·2	22
9	1·6	...	4·0	...	1·8	...	9·0	...	5·3	...	12·8	...	4·8	...	11·6	...	13·8	14, 15, 19
10	5·7	...	2·4	...	8·5	...	...	3·5	10·7	...	16·0	...	...	...	7·9	...	19·7	16
11	2·8	...	14·1	...	2·2	...	10·9	...	1·3	...	6·8	...	7·2	...	...	...	14·4	3
12	7·6	...	3·1	...	6·8	...	4·6	...	5·9	...	14·2	...	3·5	...	17·7	...	19·0	23
13	...	...	13·1	...	2·7	...	4·1	...	1·8	...	4·3	...	...	...	5·9	...	15·7	1
14	3·6	...	1·5	...	7·2	...	...	7·2	6·9	...	...	...	10·5	...	...	...	18·4	11
15	...	...	15·7	...	...	8·6	12·8	...	...	10·9	10·9	...	...	7·3	10·9	...	20·3	4
16	...	5·3	7·9	...	...	6·0	6·0	...	...	5·3	5·3	...	...	0·6	2·9	...	11·8	1
17	1·4	...	3·3	...	2·3	...	0·4	...	6·7	...	...	2·8	9·4	...	...	3·9	10·8	22
18	6·2	...	...	...	3·3	...	...	...	5·2	...	...	...	...	0·5	2·6	...	7·5	1
19	...	0·4	2·0	...	0·5	...	1·2	...	5·1	...	...	1·0	8·3	...	...	1·7	9·5	23
20	9·4	...	...	3·9	9·1	...	...	3·8	7·6	...	...	3·1	9·6	...	...	1·9	11·1	24
21	11·2	...	...	4·6	10·9	...	...	4·5	11·6	...	...	4·8	7·9	...	...	5·3	14·1	11
22	6·2	...	...	...	5·8	...	...	1·2	3·8	...	0·8	...	5·6	...	...	...	7·5	2
23	5·2	...	...	...	5·7	...	...	3·8	3·1	...	...	7·6	6·6	...	...	4·4	9·8	18
24	4·6	...	...	...	7·4	...	...	1·5	9·4	...	...	3·9	7·9	...	...	5·3	11·5	24
25	5·0	...	...	12·1	5·4	...	...	13·0	6·3	...	...	15·2	6·3	...	...	15·2	18·0	17
26	7·6	...	...	7·6	9·6	...	...	6·4	7·6	...	...	3·1	2·1	...	...	0·9	11·8	1
27	1·6	...	...	1·6	...	0·3	...	1·6	1·8	...	...	1·8	1·8	...	...	9·0	12·5	24
28	2·3	...	...	11·6	3·6	...	...	8·8	...	...	...	9·5	...	...	...	4·3	12·5	1, 2
29	6·1	...	1·2	...	6·1	...	...	2·5	7·9	...	...	3·3	6·0	...	...	6·0	9·5	11
30	3·4	...	...	8·2	4·3	...	...	10·3	3·8	...	...	9·1	2·5	...	...	6·1	12·5	12
31	0·3	...	...	1·3	3·1	...	4·7	...	5·8	...	5·8	...	5·5	...	3·7	...	10·5	12
S+N & W+E	121·1		144·1		150·8		138·3		163·0		161·9		139·5		149·2			
S−N & W−E	74·3		10·9		82·6		−27·9		98·8		13·3		100·3		−4·8			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Date.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	5·0	...	...	5·0	6·2	...	...	2·6	7·7	...	...	5·1	1·1	...	2·7	...	11·8	14	35
2	1·8	...	2·7	...	3·0	...	4·5	...	4·8	...	3·2	...	5·4	...	2·2	...	9·5	11	40
3	5·8	...	2·4	...	3·5	...	3·5	...	1·8	...	1·8	...	5·4	...	...	...	11·2	23	30
4	3·0	...	7·3	...	1·6	...	8·1	...	...	...	8·8	...	1·4	...	7·0	...	11·9	8	55
5	..	...	7·9	...	1·5	...	3·5	...	5·0	...	5·0	...	6·3	...	9·4	...	15·5	23	0
6	8·3	...	8·3	...	11·1	...	7·4	...	3·8	...	9·2	...	2·2	...	11·1	...	20·3	23	45
7	...	...	11·7	...	...	...	14·6	...	...	2·7	13·5	...	...	...	10·0	...	22·0	12	15
8	...	...	10·0	...	...	...	6·7	...	1·2	...	6·2	...	2·6	...	6·2	...	14·2	1	15
9	...	...	6·7	...	1·1	...	5·3	...	2·2	...	5·4	...	2·1	...	5·0	...	9·1	2	10
10	2·6	...	6·2	...	2·6	...	6·2	...	2·7	...	6·6	...	1·8	...	9·0	...	11·7	21	25
11	...	...	8·3	...	...	...	7·5	...	...	...	6·7	...	2·1	...	5·0	...	12·5	6	30
12	2·6	...	6·2	...	2·9	...	6·9	...	3·0	...	7·3	...	...	...	7·9	...	13·0	8	30
13	2·9	...	6·9	...	2·7	...	6·6	...	2·7	...	6·6	...	2·4	...	5·8	...	10·4	23	20
14	5·0	...	5·0	...	5·6	...	8·3	...	7·0	...	10·4	...	...	7·4	11·1	...	23·2	18	40
15	...	10·4	7·0	...	...	11·6	4·8	...	...	11·6	4·8	...	...	8·5	3·5	...	22·0	0	55
16	...	6·3	...	...	...	2·7	1·1	...	...	1·8	4·3	...	...	0·9	4·5	...	14·5	0	35
17	3·9	...	1·6	...	3·8	...	9·2	...	...	1·0	4·9	...	...	2·7	6·6	...	15·3	23	55
18	...	7·7	5·1	...	...	6·6	2·7	...	...	2·2	5·4	...	...	2·0	9·8	...	15·9	4	45
19	...	5·3	12·8	...	...	8·5	3·5	...	...	4·6	1·9	...	...	0·9	...	0·9	15·5	2	50
20	...	1·8	...	1·8	2·1	...	...	2·1	2·7	...	...	2·7	7·1	...	...	7·1	13·5	23	20
21	6·5	...	...	6·5	9·7	...	...	6·5	12·3	...	...	5·1	13·9	...	...	5·7	18·7	21	35
22	10·4	...	...	7·0	9·1	...	...	9·1	...	...	12·5	...	6·4	...	15·4	...	26·4	22	40
23	2·0	...	10·2	...	...	...	10·4	...	3·0	...	3·0	...	1·4	...	2·1	...	20·0	0	15
24	1·6	...	2·4	...	7·0	...	1·4	...	12·1	...	...	...	21·6	...	...	9·0	27·5	20	45
25	..	...	12·1	...	...	...	9·6	...	...	4·0	1·6	...	...	3·2	7·7	...	21·0	5	5
26	...	3·8	9·2	...	...	1·3	6·6	...	4·6	...	1·9	...	15·6	...	...	10·5	33·5	23	40
27	7·5	...	18·1	...	4·5	...	22·5	...	3·9	...	19·6	...	...	9·1	22·0	...	31·0	9	0
28	...	5·7	13·9	...	...	5·7	13·9	...	...	4·8	11·6	...	2·7	...	6·6	...	25·2	0	15
29	6·5	...	6·5	...	...	7·7	18·5	...	...	6·4	15·4	...	...	...	12·9	...	28·8	16	30
30	15·0	...	...	...	5·4	...	13·1	...	...	...	14·6	...	...	...	4·2	...	25·2	12	45
31	...	2·8	13·9	...	...	...	16·7	...	3·7	...	8·9	...	1·9	...	9·4	...	26·4	8	40
S+N & W+E	134·2		222·7		127·5		243·4		123·3		214·0		138·1		230·3				
S−N & W−E	46·6		182·1		39·3		202·8		45·1		188·2		68·7		163·9				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Date.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust (Gorleston).	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	1·7	1·1	...	...	1·7	1·1	...	...	0·6	...	1·5	1·0	...	...	...	7·1	10	0
2	1·6	...	1·6	...	1·3	...	3·0	...	0·8	...	1·8	...	...	2·7	...	1·8	7·5	23	25
3	1·2	...	...	6·1	6·8	...	...	1·3	1·2	...	...	5·8	1·8	...	1·8	...	12·8	10	25
4	2·0	...	3·0	...	5·5	...	1·1	...	4·7	...	3·1	...	4·0	...	6·0	...	12·8	9	25
5	3·3	...	4·9	...	1·7	...	8·7	...	...	0·9	4·5	...	2·1	...	2·1	...	15·7	8	20
6	5·5	...	3·7	...	4·7	...	4·7	...	6·6	...	4·4	...	3·8	...	5·7	...	18·0	13	45
7	2·7	...	4·1	...	3·3	...	7·9	...	4·7	...	7·1	...	...	...	7·9	...	18·1	12	30
8	1·0	...	5·1	...	1·7	...	2·5	...	...	...	4·9	...	2·0	...	4·8	...	10·5	12	45
9	2·9	...	4·3	...	2·6	...	6·4	...	1·4	...	3·3	...	0·4	...	2·0	...	11·9	10	55
10	1·3	...	1·9	...	2·0	...	3·0	...	3·3	...	4·9	...	4·2	...	6·2	...	15·9	20	5
11	1·4	...	7·1	...	2·5	...	6·1	...	1·4	...	7·1	...	1·2	...	5·8	...	14·4	11	25
12	2·6	...	6·4	...	1·7	...	8·3	...	1·7	...	8·7	...	1·3	...	6·5	...	17·0	15	10
13	...	2·2	3·2	...	0·3	...	1·3	...	1·5	...	0·6	...	3·3	...	4·9	...	9·6	23	15
14	3·1	...	4·7	...	4·2	...	6·2	...	5·1	...	5·1	...	7·6	...	5·1	...	18·4	23	15
15	...	1·4	7·1	...	...	...	9·5	...	...	1·2	6·1	...	...	2·7	4·1	...	16·6	0	13
16	...	1·5	3·6	...	...	1·5	3·6	...	...	...	3·9	...	...	1·3	0·3	...	13·3	1	15
17	...	1·8	2·7	...	...	0·5	1·2	...	3·3	...	...	...	7·4	...	...	4·9	13·4	23	25
18	1·9	...	...	9·3	...	3·1	...	7·6	...	0·3	...	0·7	0·4	...	2·0	...	12·7	1	5
19	0·6	...	1·5	...	...	2·7	1·8	...	...	2·0	...	10·0	...	4·3	...	10·3	13·4	17	5
20	...	1·4	...	7·1	...	...	...	8·2	1·3	...	...	6·8	1·2	...	...	5·8	10·8	11	20
21	1·3	...	...	1·9	0·8	...	...	3·8	0·9	...	...	2·1	4·0	...	...	4·0	8·6	18	40
22	4·2	...	...	6·2	4·6	...	...	6·8	5·4	...	...	8·1	9·6	...	...	6·4	15·0	21	10
23	3·9	...	...	...	4·5	...	0·9	...	6·1	...	...	1·2	2·3	...	...	...	14·4	13	40
24	1·6	...	0·3	...	0·3	...	0·1	...	0·9	...	...	0·9	3·3	...	...	...	7·9	19	50
25	9·3	...	...	1·9	12·8	...	...	8·6	7·1	...	...	1·4	2·4	...	1·4	...	19·6	9	35
26	0·5	...	2·6	...	...	2·7	4·1	...	...	2·9	4·3	...	0·4	...	2·0	...	7·4	12	15
27	3·5	...	0·7	...	14·9	...	...	6·2	11·6	...	...	2·3	5·9	...	...	...	24·4	9	25
28	8·2	...	...	...	8·5	...	3·5	...	3·6	...	2·4	...	2·8	...	2·8	...	24·6	1	5
29	2·3	...	2·3	...	10·0	...	...	4·1	9·1	...	...	3·8	5·6	...	...	...	19·4	11	5
30	4·3	...	2·9	...	7·4	...	1·5	...	7·9	...	3·3	...	6·8	...	4·6	...	21·8	10	30
31	4·4	...	4·4	...	6·1	...	2·5	...	4·9	...	7·4	...	4·7	...	3·1	...	17·9	14	55
S+N & W+E	84·6		111·7		120·4		135·6		102·4		127·5		100·5		112·3				
S−N & W−E	64·6		46·7		96·0		42·4		86·6		38·3		78·5		45·9				

9. Soundings with Pilot Balloons.

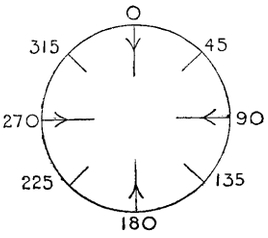
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind.														Cloud Observations.		
			Geostrophic.		By Anemometer.		At Heights above M.S.L.												
							500 m.		1000 m.		2000 m.		3000 m.		4000 m.		5000 m.		
			From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	Type.	From N.	m/s.
		h. m.	°		°		°		°		°		°		°		°			°	
2	Eskdalemuir .	7 15	...	...	...	0·0	65	9·0	60	14·0	335	6·0	310	10·0	310	12·0	...	...	Ci.	280	4·6
11	Aberdeen .	8 20	290	17	250	7·5	285	22·0	285	20·5	290	14·5	...	...	...	...	...	...	...	...	...
16	S. Farnboro' .	7 5	320	8	280	2·0	330	8·5	340	11·0	340	14·5	...	...	...	...	...	...	...	...	...
17	Aberdeen .	8 15	...	...	225	2·0	195	10·5	200	10·0	145	4·0	295	5·5	...	...	...	...	...	...	...
19	Eskdalemuir .	7 20	350	9	315	5·5	330	9·5	335	15·5	355	11·5	...	..	...	...	...	...	...	...	...
21	,,	7 35	180	14	...	0·0	...	...	170	8·5	165	5·0	160	6·0	...	...	...	...	Ci.-Cu.	270	0·5
21	S. Farnboro' .	9 25	...	...	110	3·0	130	7·0	115	6·5	105	6·5	55	5·0	25	5·5	...	...	Ci.	350	...
21	,,	11 40	? 150	? 8	90	4·5	145	8·5	130	5·5	145	2·5	75	3·0	45	4·5	...	...	Ci.	330	...
24	,,	7 10	...	...	...	0·0	145	3·5	175	3·0	175	6·5	...	..	...	...	...	...	Ci.	190	...
25	,,	9 25	200	19	200	4·5	220	12·5	215	14·0	210	10·5	195	14·0	...	...	...	...	...	...	...
25	,,	12 10	220	14	200	5·5	215	11·0	215	11·5	210	11·0	205	13·5	...	...	...	...	...	...	...
26	,,	7 10	...	...	270	...	300	9·0	295	9·5	285	4·5	275	7·5	240	5·0	...	...	Ci.	150	...
26	,,	11 35	280	6	290	4·0	270	4·0	280	9·0	270	9·0	260	8·0	...	...	...	...	...	...	...
28	,,	7 15	250	25	225	12·5	235	20·5	245	22·5	240	22·0	...	...	...	...	...	...	...	...	...
31	,,	7 10	250	23	250	10·0	270	16·5	275	24·5	275	22·5	...	...	...	...	...	...	...	...	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Aberdeen . . .	14 m.	32 m.
Eskdalemuir . .	242 m.	15 m.
S. Farnborough . .	70 m.	31 m.

Notes on Pressure Distribution.

October 2 7 h. Depressions over N.E. Atlantic and Northern Scandinavia.
11 7 h. Anticyclone France to Azores Depression over Northern Norway.
16 7 h. Anticyclone over Azores. Deep depression over Finland.
17 7 h. Depression S. of Iceland. High pressure ridge stretching from France up East Coast of England.
19 7 h. Depression beyond Iceland. Well-marked secondary over North Sea.
21 7 h. Shallow depression W. of Ireland. High pressure ridge over North Sea.
24 7 h. Depression off N.W. of Ireland. Secondary over N.E. France.
25 7 h. Deep depression off N.W. Ireland.
26 7 h. Depression S. of Iceland. Secondary over Holland.
28 7 h. Deep depression over N. of England.
31 7 h. Depression centred near the Shetlands and covering the British Isles.



Wind Protractor.

10. Nephoscope Observations.

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity-height-ratio.				Remarks
		Degrees from N.	Milliradians per Second.	Components.		
				W.-E.	S.-N.	
		°	mr/s.	mr/s.	mr/s.	
4	A.-Cu.	245	2·3	+ 2·1	+ 1·0	Ci.-Cu. to A.-Cu. in lenticular masses, fusing into sheets.
9	Ci.-Cu.	269	5·0	+ 5·0	+ 0·2	Long, lenticular bands of Ci.-Cu. to A.-Cu., major axes W. by S.
10	Fr.-Cu.	262	18	+ 18	+ 2·5	Measurement approximate.
12	A.-Cu.	258	5·2	+ 5·1	+ 1·1	Large lenticular masses of Ci.-Cu. to high A.-Cu.
13	Ci.	268	7·1	+ 7·1	+ 0·2	*Observation at 12 h.* Coarse type of Ci., but showing a solar halo.
	St.-Cu.	273	9·6	+ 9·6	− 0·5	*Observation at 12 h.* Thin, diffuse St.-Cu.
16	Cu.-Nb.	337	5·0	+ 4·6	− 2·0	Central part of mass measured.
18	Ci.-Cu.	225	1·2	+ 0·8	+ 0·8	Ci.-Cu. fusing into uniform A.-St. sheet.
19	Ci.	345	4·0	+ 1·0	− 3·9	True Ci., rather hazy and indefinite.
20	Fr.-Cu.	195	25	+ 6	+ 24	Measurement approximate.
21	Ci.-Cu.	345	0·7	+ 0·2	− 0·7	False Ci. changing into Ci.-Cu.
24	Ci.-St.	188	1·0	+ 0·1	+ 1·0	Coarse Ci.-St. in warped sheet.
26	Ci.-Cu.	165	4·2	− 1·1	+ 4·1	Ci. to fine high Ci.-Cu., much internal change.
27	Ci.	155	1·7	− 0·7	+ 1·5	Ci. changing to Ci.-St.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 11. NOVEMBER 1916.] Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	Maximum. 11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	0·5	5	328	26	26	11 43	26	1·3	14	…	…	…	1·7	18	…	…	…	…	3·7	39
2	2·5	26	423	34	*x* 41	11 44	41	3·4	35	…	…	…	2·9	32	…	…	…	…	4·1	43
3	0·0	0	233	19	27	12 25	27	0·0	0	…	…	…	0·0	0	…	…	…	…	0·0	0
4	2·5	27	377	32	40	13 11	18	3·7	39	…	…	…	0·1	1	…	…	…	…	0·0	0
5	0·0	0	? 172	15	20	11 9	9	0·0	0	…	…	…	1·1	12	…	…	…	…	1·1	12
6	6·0	65	526	46	34	11 35	34	6·7	72	…	…	…	0·0	0	…	…	…	…	1·4	15
7	1·7	18	350	31	38	12 5	38	0·8	9	…	…	…	0·1	1	…	…	…	…	0·4	4
8	2·4	26	400	36	34	12 14	34	2·8	30	65	24	Clear	1·9	22	…	…	…	…	2·9	32
9	*x* 6·5	71	*x* 556	51	30	12 50	29	*x* 7·3	80	61	22	Clear	1·9	22	…	…	…	…	0·2	2
10	0·0	0	266	25	26	11 50	26	0·1	1	…	…	…	0·0	0	…	…	…	…	0·0	0
11	1·2	13	246	24	19	13 50	12	2·0	22	…	…	…	0·0	0	…	…	…	…	0·0	0
12	0·0	0	187	18	13	14 2	10	0·1	1	…	…	…	0·0	0	…	…	…	…	1·4	16
13	0·0	0	255	26	19	11 30	19	1·1	12	…	…	…	0·1	1	…	…	…	…	0·8	9
14	0·0	0	66	7	5	11 30	5	0·0	0	…	…	…	0·0	0	…	…	…	…	0·4	5
15	5·0	57	395	41	25	12 0	25	5·4	61	47	16	Hazy	0·0	0	…	…	…	…	0·0	0
16	1·6	18	295	31	30	12 27	30	2·4	27	37	12	Hazy	*x* 5·8	70	…	…	…	…	0·0	0
17	6·1	70	448	48	27	11 57	27	6·3	72	60	20	Clear	3·0	37	12 3	Hazy	…	54	0·0	0
18	0·0	0	*n* 61	7	5	10 27	4	0·0	0	…	…	…	0·5	6	…	…	…	…	0·0	0
19	0·0	0	63	7	*n* 4	11 30	4	0·0	0	…	…	…	0·0	0	…	…	…	…	0·2	2
20	0·0	0	188	21	19	12 48	17	0·2	2	…	…	…	1·1	14	…	…	…	…	4·0	47
21	0·0	0	179	20	16	11 10	15	3·0	35	44	14	Hazy	0·1	1	…	…	…	…	*x* 6·1	72
22	3·8	45	323	38	19	12 15	19	6·2	73	46	15	Hazy	3·8	48	12 2	Ci.	3·90	65	0·0	0
23	0·3	4	222	26	21	12 40	20	0·2	2	…	…	…	0·0	0	…	…	…	…	0·0	0
24	0·0	0	90	11	8	13 10	5	0·0	0	…	…	…	0·0	0	…	…	…	…	5·3	63
25	1·7	20	221	27	25	12 40	16	3·1	37	…	…	…	0·0	0	…	…	…	…	0·6	7
26	4·5	54	310	38	24	12 30	24	5·9	71	…	…	…	2·4	31	…	…	…	…	3·4	41
27	3·6	43	269	34	19	12 35	18	4·1	49	35	11	Hazy	4·0	52	…	…	…	…	1·1	13
28	2·9	35	287	36	21	12 20	21	3·7	45	25	7	Ci.	0·0	0	…	…	…	…	0·0	0
29	0·0	0	72	9	7	11 32	7	0·0	0	…	…	…	0·0	0	…	…	…	…	0·0	0
30	0·0	0	102	13	10	11 25	7	0·0	0	…	…	…	0·0	0	…	…	…	…	0·2	2
Means	1·77	20	264	27	22	—	20	2·33	27	—	—	—	1·03	13	—	—	—	—	1·23	14
Normal	1·47	17	—	—	—	—	—	1·73	20	—	—	—	1·83	23	—	—	—	—	2·17	25
	←5 years→							←35 years→					←5 years→						←35 years→	

2. METEOROLOGY AND MAGNETISM:—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L.:—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground: h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Magnetism. Declination West.	Magnetism. Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	999·0	1002·9	81·3	81·2	84	81	9·3	9·5	85	88	20	5	19	3	7	3	3·9	▲● showers *a*. Fine evening.	…	…	…
2	1002·8	998·5	80·3	82·0	84	80	9·1	9·2	89	81	19	3	13	6	6●	6	25·7	Fair to c. A few showers.	…	…	…
3	961·9	975·5	81·4	82·3	83	81	10·1	10·2	92	88	16	15	21	15	10●	9	4·7	●² 2 h.–5 h. ⟋ 5 h. and 15 h. ●	…	…	…
4	983·2	971·0	81·1	81·2	83	80	8·4	8·9	78	83	18	3	2	9	7	10●	15·9	o. to c. ● *n*. [showers.	…	…	…
5	974·0	987·5	82·2	82·1	84	80	10·0	8·8	87	76	30	11	26	11	8●	7	2·6	● showers all day.	…	…	…
6	995·3	981·1	81·5	79·3	82	79	7·3	8·8	*n* 66	92	24	8	7	6	5	10●	10·4	Fine to c. *a*. o. and ● *p*.	…	…	…
7	974·5	978·8	80·7	81·5	84	81	9·6	8·9	92	81	30	4	25	6	8●	8	4·3	●⁰ showers *a*. v. 9 h.	…	…	…
8	990·2	1000·8	81·7	80·2	83	80	8·7	7·7	78	76	27	9	25	11	10	3	2·6	q., with ●⧋ showers.	…	…	…
9	1011·0	1013·5	81·5	80·1	83	79	8·0	9·5	72	94	26	10	14	7	7	10●	11·7	● showers *a*. Dull *p*. ● from 18 h.	17854	19 52·7	68 7·6
10	1016·7	1022·2	85·3	85·3	*x* 86	82	14·2	14·1	100	99	18	2	16	3	10	10	0·3	Mild and dull early. d. ≡⁰.	…	…	…
11	1024·1	1025·6	85·0	84·5	*x* 86	*x* 84	12·7	13·4	91	99	16	7	17	2	9	10●⁰	0·2	o., with low clouds. d. evening.	…	…	…
12	1025·5	1024·1	82·9	83·6	*x* 86	83	11·4	12·2	94	96	11	2	—	0	8	4	0·2	⊓ 7 h. ⊕ *a*. c. and damp.	…	…	…
13	1023·9	1023·5	83·8	83·6	85	81	11·8	11·2	92	88	14	3	10	2	10	2	—	o. till 14 h., then fair.	…	…	…
14	1022·6	1022·0	83·5	83·7	84	82	10·5	11·0	83	86	12	6	13	6	8	8	0·1	Mostly o. d. and ⌒ 14 h.	…	…	…
15	1017·6	1010·3	83·8	84·0	84	82	10·7	12·4	83	95	12	8	15	10	8	10●	11·0	Mostly o., with ●⁰ showers. ●² 20 h.	…	…	…
16	1002·0	990·1	85·0	83·5	85	81	11·4	11·6	82	92	13	15	13	10	10	10●	*x* 54·6	⟋ 13 h., 16 h., and 17 h. ●² from 14 h.	…	…	…
17	982·2	980·5	81·5	78·8	84	77	10·3	8·5	93	93	29	7	3	3	10●	1	10·7	● early and 7 h.–11 h. Fine evening.	…	…	…
18	976·6	978·2	77·4	74·5	*n* 79	74	7·6	5·6	91	82	5	5	5	4	9	1	0·1	● 7 h.–8 h. c., with ∞. ⌙ *p*.	…	…	…
19	979·7	983·3	77·9	81·0	81	*n* 73	6·2	7·1	71	67	32	5	28	11	6	5	4·5	⌙ early. ● showers.	…	…	…
20	986·6	991·0	81·2	80·4	82	79	7·5	8·1	69	79	26	8	26	8	6	9●	3·3	Bright, with ● showers. ⧋ *p*. ⌒ 16 h.	…	…	…
21	996·2	1003·8	79·9	75·6	82	75	7·7	6·7	78	91	26	3	—	1	2	2	0·1	▲● *n*. Fine and bright.	…	…	…
22	1007·7	1013·5	81·8	82·6	84	78	10·8	11·0	96	93	16	5	15	5	10	3	1·1	Mostly o., with d. Fine sunset.	17876	19 50·6	68 7·2
23	1010·6	1007·1	82·6	84·3	85	82	10·9	12·8	92	96	14	8	16	5	10●	10	25·3	o., with ●.	…	…	…
24	1009·4	1012·1	83·8	83·7	*x* 86	83	11·0	11·3	85	88	21	13	17	6	4	5	11·3	Fine and bright.	…	…	…
25	998·3	1004·3	80·3	80·4	84	78	9·2	7·0	90	68	21	9	26	10	6	4	5·3	q., with ●⧋ showers. Bright intervals.	…	…	…
26	1010·9	1016·9	80·4	79·3	81	77	7·3	6·7	71	70	29	7	1	7	6	6	3·6	q., with ●⧋ showers.	…	…	…
27	1025·4	1025·4	76·1	79·8	81	76	7·0	9·0	92	91	—	0	17	4	4	10	3·6	⌙ early. Fine to o. ●⁰ from 22 h.	…	…	…
28	1022·7	1020·4	82·5	83·2	83	81	11·5	11·5	97	93	19	4	17	5	9	8	1·0	●⁰ till 3 h. ●⁰ showers.	…	…	…
29	1016·7	1016·9	83·8	78·3	84	78	12·2	8·5	95	96	17	6	—	1	10●	4	5·8	o., with ●.	…	…	…
30	1015·0	1015·1	80·4	77·4	83	77	9·4	8·2	92	99	16	3	—	0	5	2◑²	4·2	Mostly o. ⊓⁰ 21 h.	…	…	…
Means	1002·1	1003·2	81·7	81·2	83·4	79·4	9·7	9·6	86	87		6·5		5·9	7·6	6·3	228·1	Monthly **Totals** or **Means**.	17865	19 51·7	68 7·4
Normal	1011·3	1011·4	81·3	81·4	84·1	79·0	9·6	9·6	87	86		5·8		5·9	—	—	138·6	**Normals.**			
	←45 years→						←30 years→				←35 years→						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—1/18.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8=E, 16=S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.	*a.* 200+	*a.* 200+	*a.* 200+	cm.	cm.
1	1011·2	1008·3	83·9	83·0	*x* 87	80	11·2	11·7	87	96	16	6	17	2	8	9	8·4	81	82·2	84·3	208	207
2	1008·8	1010·4	79·0	80·2	84	77	9·2	9·8	99	97	—	0	—	1	? 8≡	0≡⁰	0·2	75	82·1	84·2	211	—
3	1002·1	993·9	82·9	82·6	85	76	10·5	11·2	87	94	13	5	17	3	10	10●	13·3	72	81·4	84·1	216	—
4	995·1	979·9	82·3	86·6	*x* 87	80	10·0	14·5	86	94	17	3	13	8	4	10●	8·9	77	81·7	84·0	221	—
5	973·3	978·3	83·7	83·4	86	*x* 82	10·0	11·3	78	90	15	12	19	7	10●	10	12·4	82	82·3	84·0	227	—
6	995·3	1000·3	81·3	80·7	83	80	8·7	8·5	80	81	21	5	18	2	3	10≡⁰	9·0	78	82·3	83·9	235	—
7	985·8	979·5	84·1	84·1	*x* 87	81	12·1	11·8	92	90	17	8	17	4	10●⁰	10●	12·8	76	81·9	83·8	245	—
8	983·0	994·4	81·4	79·9	84	78	9·4	8·8	86	89	24	5	22	3	6	1	—	77	82·3	83·7	256	—
9	1007·1	1018·3	78·6	80·2	83	77	7·8	8·7	86	86	22	3	23	3	0≡⁰	10	—	74	81·3	83·7	268	—
10	1024·3	1025·9	78·2	84·0	85	75	8·3	12·5	94	96	—	0	19	3	?10≡⁰	10	—	71	80·7	83·6	283	—
11	1028·1	1027·3	85·2	82·7	*x* 87	*x* 82	13·8	11·5	98	96	20	2	20	3	10≡⁰	3≡⁰ ☂	0·1	83	81·8	83·6	295	—
12	1027·2	1026·6	82·7	81·8	85	80	11·1	10·9	96	97	25	3	—	1	10≡⁰ ☂	*10*≡ ☂	0·1	75	82·0	83·5	304	—
13	1026·0	1026·3	79·1	78·8	84	78	9·1	9·2	97	100	—	1	—	0	*10*≡	*10*≡ ☂	0·1	77	81·8	83·5	308	—
14	1028·3	1029·4	81·0	81·0	83	78	10·2	7·2	96	68	—	1	5	4	?10≡ ☂	6	—	77	81·6	83·4	309	—
15	1028·8	1026·3	78·8	77·2	82	76	8·4	6·3	91	77	5	2	11	3	? 8≡	2	—	72	81·3	83·4	308	—
16	1023·9	1018·0	76·4	75·3	78	75	5·6	4·8	72	67	12	5	9	5	10	8≡⁰	—	70	80·3	83·3	306	—
17	1008·8	995·1	74·3	74·5	76	73	4·4	4·4	66	*n* 64	10	8	9	7	1	10	—	71	79·1	83·3	304	—
18	975·2	965·0	74·9	75·1	*n* 75	74	4·9	6·8	70	95	6	12	1	4	10≡⁰ ✻	10≡⁰	*x* 16·5	73	78·1	83·1	302	—
19	967·4	975·5	76·0	76·1	77	75	7·6	7·3	100	95	19	4	19	3	10≡⁰ ●⁰	10●	13·7	74	78·0	83·0	297	—
20	980·7	992·4	78·3	79·2	81	77	8·5	8·4	96	89	19	5	20	3	10●⁰	0	0·5	74	78·0	82·7	293	—
21	997·1	1002·2	75·0	75·9	81	72	6·8	7·4	97	98	—	1	—	1	? 5≡	? 0≡ ☂	0·1	69	78·0	82·5	296	—
22	1010·8	1019·9	74·8	76·9	81	73	6·5	7·5	94	93	20	2	23	2	1≡ ⌐	1≡⁰	0·1	71	77·6	82·2	300	—
23	1023·2	1020·7	82·6	82·7	85	77	11·0	10·3	93	86	19	3	17	8	10≡⁰	10●	0·5	71	77·8	82·0	303	—
24	1015·6	1020·1	84·8	81·3	*x* 87	79	12·7	9·7	93	89	18	8	21	3	10	1	0·7	81	79·5	82·0	306	—
25	1006·8	994·5	84·5	79·5	86	79	13·1	8·2	97	85	18	6	20	7	9	0	1·7	73	79·9	81·8	307	—
26	1002·2	1005·9	77·5	75·5	81	74	7·2	6·4	85	88	23	3	25	2	3	0	—	75	79·7	81·8	308	—
27	1016·8	1026·7	74·8	74·0	79	72	5·7	5·2	82	80	28	3	—	1	3≡⁰ ⌐	0≡⁰ ⌐	—	69	78·5	81·8	310	—
28	1029·8	1028·9	70·8	77·1	79	*n* 70	4·6	6·5	89	80	—	0	18	3	? 0≡ ⌐	3≡⁰	0·2	*n* 67	77·2	81·9	312	312
29	1027·4	1025·3	79·8	78·2	81	77	9·0	7·6	91	86	17	5	17	2	10	10	—	74	77·1	81·7	311	—
30	1022·9	1021·8	77·3	74·4	78	74	7·4	5·9	89	87	17	2	—	1	10≡⁰	10≡⁰	—	76	77·9	81·6	308	—
Means	1007·8	1007·9	79·5	79·4	82·5	76·7	8·8	8·7	89	88		4·1		3·3	7·3	6·1	99·3	74·5	80·1	83·0	282	—
Normal	1013·3	1013·2	79·1	79·3	82·3	76·6	8·4	8·5	88	87		3·3		3·2	—	—	56·5	—	79·8	83·0	—	—
	45 years						30 years				35 years						45 years		12 years			

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

																			Remarks.
1	973·6	973·0	80 0	77·8	81	78	8·5	7·6	85	89	19	8	17	3	4	6	3·0		● showers. ⊕ 11 h. ⌒ 15 h.
2	975·2	977·5	79·6	78·0	82	76	8·8	8·1	90	93	19	5	17	2	4	4	4·6		●² shower 17 h.
3	971·1	956·0	78·3	78·6	81	76	7·4	7·3	83	81	11	5	14	6	10	7	21·7		o. at first, then ●² till 16 h. < 18 h.
4	954·6	956·8	80·4	79·0	82	78	9·2	8·0	90	86	18	15	—	1	10	10	5·6		● early. ●² 7 h.–9 h.
5	944·8	942·0	81·8	79·7	83	79	8·7	8·3	77	85	12	5	25	4	3	9	4·3		● early. Frequent ● showers.
6	952·5	959·8	77·8	77·9	80	76	7·5	6·6	87	76	20	13	19	11	10●	9	14·3		● till 12 h. ● showers *p*. 🌂 18 h.
7	947·4	946·3	79·8	79·3	82	75	9·6	9·2	97	97	21	5	—	0	10	10	14·4		Frequent ● showers.
8	951·1	957·6	75·9	78·9	81	75	7·2	8·4	95	91	—	1	20	5	10	9	3·2		Occasional sunshine *a*. ⌒ 15 h.
9	967·3	983·0	79·6	80·3	82	78	8·8	9·6	90	94	20	7	21	3	10●	10≡⁰	2·6		● 7 h.–9 h. d. *p*.
10	988·5	989·5	79·4	84·5	85	78	9·0	13·5	94	100	17	7	17	5	10≡⁰ ●⁰	10	4·7		● showers *a*. to d. ≡ *p*.
11	992·7	990·2	84·2	84·5	*x* 86	*x* 84	13·2	12·4	100	92	18	7	21	16	10≡⁰	10	0·6		≡ *a*. 🌂 18 h.–19 h. and 22 h.–23 h.
12	994·3	994·9	84·5	82·7	*x* 86	82	12·5	11·0	93	92	20	6	18	4	10●⁰	10	0·5		o. d. ≡⁰. 🜨 glow 19 h.
13	996·7	999·5	83·3	83·1	85	82	11·9	11·8	96	96	—	2	—	0	9	10	0·1		Dull and o.
14	1001·5	1001·7	81·2	79·7	83	79	10·3	8·7	96	89	—	2	—	1	10	10	0·2		≡ early to d. and o.
15	1000·1	996·6	77·9	75·6	79	73	7·6	6·4	88	88	14	3	19	2	10	9	—		o. to fair.
16	993·4	987·3	74·4	73·2	77	71	5·1	4·2	76	68	14	5	12	7	2⌙	1	—	No record.	⌙² early. Fine to c.
17	980·1	972·2	73·3	75·5	*n* 76	72	5·4	4·8	87	*n* 66	11	9	10	12	1	10	0·6		Fine to c.
18	961·2	952·8	73·0	74·0	*n* 76	73	5·8	6·3	95	96	5	6	5	9	2	10✻●	8·7		✻² squalls *a*. and *p*. ⛇
19	952·2	954·2	75·0	75·2	*n* 76	74	6·4	6·4	91	90	6	9	6	9	10●⁰	10●⁰	2·2		o., with ●⁰. q. *p*.
20	954·7	955·6	77·6	78·0	80	76	7·7	7·6	91	87	4	6	24	2	9	10	0·8		● early. c. to o. d. 16 h.–17 h.
21	964·5	973·1	77·0	75·5	79	74	7·8	7·1	97	96	15	3	—	0	10≡⁰	2	0·3		●⁰≡⁰ 7 h.–9 h. o. to c.
22	979·0	981·1	74·4	81·0	81	71	5·3	9·7	79	91	20	3	20	12	5⌙	10●⁰	3·9		⌙² early. Fine to o.
23	985·1	976·3	81·3	82·0	83	81	10·0	10·6	92	93	19	6	17	15	10	10●	15·5		● early. d. and ≡⁰ *p*. 🌂 22 h.
24	970·5	981·8	82·4	79·7	84	79	11·7	8·3	100	85	17	15	18	7	10●≡⁰	10●	*x* 27·3		●²≡⁰ *a*. 🌂 11 h. ⌒ 13 h. and 14 h.
25	968·2	963·0	78·9	75·5	81	75	8·6	6·4	93	87	19	8	27	5	10●	7	6·2		●² early. ●² showers *p*. ✻ 15 h. 🜨 21 h.
26	969·6	979·4	74·7	74·7	77	74	5·9	5·0	85	73	26	6	29	6	3	0⌙	—		Fine. ⌙⁰ *n*.
27	991·5	995·2	72·1	69·5	77	*n* 68	4·5	4·2	79	89	—	1	—	0	7⌙	7⌙	0·8		🜨 glow 1 h. Fine to c.
28	990·9	989·4	78·5	81·0	81	71	8·7	9·7	97	91	18	7	19	9	10●⁰≡⁰	10	7·3		o. d. ≡⁰.
29	986·7	988·3	81·3	78·8	82	79	10·0	8·6	92	94	19	11	—	1	10	10●⁰≡⁰	11·7		o., with ●≡⁰.
30	986·0	987·2	79·2	78·5	80	76	9·0	8·1	96	90	17	7	20	4	10●⁰	5	5·2		●² early. o.
Means	974·8	975·4	78·6	78·4	80·9	75·9	8·4	8·1	90	88		6·4		5·4	8·0	8·2	170·3	—	Monthly **Totals** or **Means**.
Normal 1911-15	980·5	980·7	76·6	76·4	79·7	73·7	7·1	7·0	86	86		5·7		5·6	—	—	165·0	—	**Normals**.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 20 days; they are computed from the data for those days on which values at each of the four hours, 3^h, 9^h, 15^h, 21^h, are given in the table. A similar note applies to the values in Table 6.

x denotes the maximum and n the minimum value in the column. z Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre. Factor 2·90.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
						+	−				Mean Time.		Mean Time.		Mean Time.	
		3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.								
		v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².			h m	γ	h m	° ′	h m	° ′
1	Fair to fine till 10 h., then dull.	275	385	$z-$	610	...	...	...	2	1	...	...	...	...	...	...
2	≡² till 9 h. ●⁰ 12 h. T 12 h. and 14 h.	725	775	420	530	·38	·27	0·45	1	1	11 9	18441	14 23	15 10·7	14 24	66 56·7
3	⌓ early. Dull and o. ● *p*.	580	435	$z\pm$	$z\pm$	...	...	...	2	1	...	...	...	...	...	...
4	Fine till 10 h. and from 13 h. ● *n*.	210	385	385	−320	...	...	...	1	2	...	...	...	...	...	...
5	Dull, with ● all day.	130	50	−115	175	...	...	...	2	2	...	...	...	...	...	...
6	Fine to fair. ⌒ 14 h.	145	355	275	515	·42	·49	1·20	1	2	...	...	...	...	...	...
7	● at times. T▲ 16 h.	−80	115	515	130	·42	·04	...	2	1	...	...	...	...	...	...
8	● early. Fine to fair from 9 h.	145	305	340	485	·87	·38	0·80	1	1	...	...	...	...	...	...
9	Fine.	290	485	275	385	·51	·65	0·80	0	1	11 7	18424	14 23	15 9·2	14 24	66 58·1
10	≡⌙ early. Mostly dull and o.	370	405	160	95	·51	·09	0·30	0	0	...	...	...	...	...	...
11	Dull and o. till 14 h., then fine.	50	95	145	195	...	...	...	0	1	...	...	...	...	...	...
12	Dull. ≡ 18 h. ≡² 21 h.	210	130	290	225	...	...	...	1	2	...	...	...	...	...	...
13	≡ till 14 h. ≡² *n*.	565	545	275	515	·57	·59	0·15	0	1	...	...	...	...	...	...
14	≡ till 11 h. Dull all day.	80	65	...	610	·44	·32	...	1	0	...	...	...	...	...	...
15	≡ 8 h.–9 h. Fine from 9 h. 30 m.	595	465	595	500	·36	·49	0·95	0	0	...	...	...	...	14 26	66 57·4
16	Dull till 13 h.; fine later.	385	340	500	580	·57	·17	0·70	0	1	11 17	18442	14 24	15 8·2	...	...
17	Fine till 15 h. Cold wind.	210	435	565	580	·44	·27	0·95	0	1	...	...	...	...	...	...
18	●✲ at times. Dull.	450	530	−275	195	...	...	...	1	1	...	...	...	...	...	...
19	Dull, with ●. ✲⁰ 15 h.	0	115	15	130	...	...	...	2	1	...	...	...	...	...	...
20	● till 6 h. and 9 h. Dull.	30	...	...	130	...	...	...	1	0	...	...	...	...	...	...
21	≡⌙ early. Fine to fair. ≡ *n*.	175	$z\pm$	240	15	·21	·68	0·20	2	0	...	...	...	...	...	..
22	≡⌙ early. Fine from 9 h.	175	130	130	210	·34	·51	0·15	0	1	...	...	...	...	...	...
23	Mostly dull. ●⁰ *n*.	160	130	...	...	...	...	...	0	1	11 9	18445	14 25	15 10·7	14 26	66 57·3
24	Dull and o. till 16 h. Fine *n*.	...	...	...	...	·53	·21	...	0	0	...	...	...	...	...	...
25	● early. Fair to fine 10 h.–17 h.	...	...	225	355	...	...	...	1	2	...	...	...	...	...	...
26	Mostly fine.	195	530	305	405	...	...	...	0	1	...	...	...	...	...	...
27	⌙ *a*. and *n*. Fine.	340	405	645	405	·38	·53	0·75	0	2	...	...	...	...	...	...
28	≡⁰≡⌙ *a*. Fine from 11 h. ⊕ 12 h.	...	...	340	...	·25	·38	0·30	0	1	...	...	...	...	...	...
29	Dull and o.	...	...	...	500	·49	·15	...	0	1	...	...	...	...	...	...
30	Mostly o., with ≡⁰.	290	370	465	435	·34	·21	0·85	0	2	11 14	18414	14 28	15 7·7	14 25	67 1·3
M.		270*	348*	296*	319*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre.* Factor 5·36.				Charge per cc. $\times 10^{16}$.		Air-Earth Current. $\times 10^{16}$.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
					+	−				Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.														
	v/m.	v/m.	v/m.	v/m.	Coulomb.		amp/cm².			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
1	120	158	z	225	...	...	...	1 *c*	0	21 58	1018	963	11 30	14 24	1030	947	21 56	18 0	124	96	2 15
2	150	248	158	578	...	...	...	1 *b*	1	20 22	1037	966	11 31	13 15	1040	929	20 16	22 32	131	103	11 40
3	23	150	z	285	...	...	...	2 *c*	1	22 26	1022	903	11 47	13 33	1083	937	23 41	14 21	166	81	24 0
4	z	−45	120	495	...	...	...	1 *c*	2	19 27	1063	*n* 869	22 34	11 54	1042	887	22 37	19 8	137	*n* 4	22 52
5	−150	180	−300	300	...	...	...	2 *b*	2	18 38	*x* 1091	882	11 55	23 17	1041	874	18 30	16 8	147	59	24 0
6	68	−233	−143	150	...	...	...	2 *b*	2	16 24	1045	920	16 2	20 22	1034	885	16 14	16 18	167	73	21 2
7	−548	83	z	135	...	...	...	2 *c*	1	20 40	1001	915	10 23	13 4	1034	977	16 57	15 16	142	86	0 13
8	383	390	−8	−68	...	...	...	2 *c*	1	17 37	1035	948	11 25	{11 20 / 13 57}	1034	939	17 54	15 38	136	85	1 37
9	113	68	173	225	...	...	...	2 *b*	1	22 46	1072	945	11 6	12 39	1037	934	22 40	18 1	130	80	23 15
10	90	68	683	98	...	...	...	1 *a*	1	3 31	1000	939	14 26	13 17	1039	960	0 0	15 7	123	74	3 50
11	98	270	158	135	...	...	...	0 *a*	1	19 5	1032	933	10 57	13 51	1028	933	18 57	18 55	123	77	24 0
12	75	135	150	308	...	...	...	0 *a*	2	19 6	1087	881	13 50	19 7	*x* 1092	946	0 28	20 26	*x* 175	67	5 27
13	285	195	420	608	...	...	...	0 *a*	0	0 3	1020	950	1 40	17 24	1027	964	0 0	{0 0 / 0 40}	120	102	9 56
14	300	30	465	480	...	...	...	1 *a*	0	19 22	1028	957	14 6	13 13	1028	985	{15 26 / 19 35}	{13 57 / 19 0}	116	104	19 56
15	345	23	308	278	...	...	...	1 *a*	0	23 3	1030	925	12 45	1 46	1038	985	23 47	15 25	113	86	2 20
16	398	203	150	150	...	...	...	0 *a*	0	20 7	1047	958	15 57	15 37	1035	956	19 58	19 52	117	98	10 0
17	143	188	225	225	...	...	...	0 *a*	0	23 39	1015	969	12 17	{12 54 / 12 57}	1031	950	23 30	22 51	108	95	9 50
18	105	143	z	195	...	...	...	1 *c*	1	22 31	1043	934	11 14	12 56	1027	919	22 21	22 40	110	88	7 45
19	−390	−495	−23	−68	...	...	...	2 *c*	1	19 40	1048	954	{14 33 / 18 15}	13 26	1027	963	20 3	19 24	116	91	4 58
20	−315	150	210	53	...	...	...	2 *b*	0	{4 8 / 23 16}	995	948	11 12	12 40	1022	980	20 12	20 14	111	94	5 20
21	488	−495	375	1125	...	...	...	1 *b*	0	23 24	1007	968	17 6	14 17	1015	966	23 39	17 30	105	86	2 5
22	300	293	233	45	...	...	...	1 *a*	0	0 30	1006	931	8 42	8 59	1030	947	0 58	15 50	102	87	2 0
23	23	38	75	8	...	...	...	2 *b*	1	3 47	996	951	19 54	13 52	1042	962	23 25	19 4	119	80	3 52
24	†	z	z	...	...	...	...	1 *b*	0	22 53	993	968	11 30	13 56	1022	964	{0 20 / 0 31}	22 35	101	88	1 50
25	...	...	−188	488	...	...	...	...	1	22 6	1079	949	18 37	16 32	1022	*n* 854	22 0	21 27	120	86	11 30
26	135	218	285	510	...	...	...	0 *a*	1	22 37	1033	959	13 35	{13 20 / 13 23}	1030	946	19 51	17 50	102	86	22 40
27	248	248	420	525	...	...	...	0 *a*	1	18 44	1033	958	1 13	1 0	1053	898	23 29	18 18	111	36	1 14
28	300	75	143	150	...	...	...	1 *a*	1	22 2	1033	927	1 14	12 3	1025	935	0 3	15 10	104	46	1 6
29	68	53	−1058	135	...	...	...	2 *b*	1	20 10	1029	922	13 57	19 48	1035	935	20 22	16 48	122	65	24 0
30	23	128	255	315	...	...	...	2 *b*	1	21 37	1024	922	15 25	15 12	1031	898	21 30	16 7	147	65	0 8
M.	138*	86*	146*	272*	—	—	—	—	—	—	1032	937	—	—	1036	939	—	—	125	79	—

* 23 days. *See* note above. † Insulation bad.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
		22 31 to	...	...	...	...	...	Slight disturbance; features masked by large microseisms. Maximum displacement at 22 h. 45 m. 44 s. on N.-S. instrument.
		22 54	...	...	...	...	...	
8		13 5 to	...	...	...	...	...	Prolonged faint disturbance.
		13 49	...	...	...	...	...	
10		9 30 to	...	...	..	...	...	Slight disturbance masked by wind effects and large microseisms.
		10	...	...	...	...	...	
14		14 7 to	...	...	...	...	...	Prolonged faint disturbance. L of period 19 secs. at 14 h. 16 m.
		14 26	...	...	...	...	...	
14	Pe	22 55 3	...	...	...	...	6700	From 23 h. 14 m. to 23 h. 22 m. displacements were N.W.-S.E.; afterwards direction changed until at 23 h. 27 m. they were N.E.-S.W. Maxima too faint on photographic trace for accurate measurement; observed on N.-S. about 23 h. 28 m. Large vertical maximum of 16 secs. period at same time.
	S (?)	23 5	...	...	...	...	...	
	L	23 14	...	...	...	...	...	
	M	23 19 43	24	17	...	...	..	
	M	23 19 43	24	...	17	...	...	
15	L	23 23 to	...	...	...	...	...	
		23 30	...	...	...	...	...	
16		0 10 to	...	...	...	...	...	Faint disturbance.
		0 22	...	...	...	...	...	
21	P	6 37 44	...	...	...	...	8900	P inconspicuous on horizontal traces, and masked by microseisms. Time of P taken from vertical instrument.
	S	6 47 45	...	...	...	...	...	
	SR_1 (?)	6 53 31	...	...	...	...	...	
	L	7 4 49	...	...	...	...	...	
	M	7 6 39	25	23	...	...	...	
	M	7 13 10	...	...	21	...	...	
	F	8 15	...	...	..	...	...	
24	L	4 47 to	...	...	...	...	...	Part of slight disturbance, earlier phases of which were masked by wind effects.
		4 58	...	...	...	...	...	
24	L	12 36 to	...	...	...	...	...	Do., but disturbance larger.
		12 50	...	...	...	...	...	
30		...	...	...	...	...	...	The time marking arrangements failed to act properly from 3 h. to 4 h. on 30th, and in consequence no entries have been made regarding the slight earthquake recorded. M is, however, estimated to have occurred about 3 h. 52 m., with a period of 19 secs. and an amplitude of 13 μ.

Microseisms of N. Component:—Eskdalemuir.

Day.	0 h. A_N.	0 h. T.	6 h. A_N.	6 h. T.	12 h. A_N.	12 h. T.	18 h. A_N.	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	1·0	4·5	**0·8**	5·5	0·8	5·5	0·7	6
2	0·8	5·5	0·8	5	0·8	**6**	0·9	5
3	0·8	5·5	1·8	6	*	*	*	*
4	2·5	**6**	3·4	5·5	3·1	6	3·5	6
5	5·1	5·5	3·6	5·5	2·4	6	1·8	6·5
6	2·3	6	2·6	6	4·7	6	3·3	5·5
7	3·6	6	4·2	5·5	4·3	6	3·0	6·5
8	3·3	7	3·4	6	3·0	6·5	2·9	6·5
9	3·0	6	2·4	6·5	2·2	6·5	2·3	6
10	2·0	7	2·5	7·5	3·0	6·5	2·2	6·5
11	2·3	6	2·4	6	2·7	5·5	2·2	6·5
12	2·3	6·5	1·9	6	2·0	5	1·7	5
13	1·3	5	1·0	5	1·7	5·5	1·9	5
14	1·6	5·5	1·4	5·5	1·2	6	0·7	6·5
15	0·8	4·5	0·7	6	0·7	7	0·7	5
16	0·8	5·5	1·0	4·5	1·5	6	1·7	**6**
17	**2·7**	**6**	2·4	6·5	5·5	6	4·7	6
18	5·3	6·5	5·3	6·5	*	*	2·5	6
19	2·4	6·5	2·2	**6·5**	1·9	7	2·7	7·5
20	1·6	6	2·3	**6**	...	...	2·5	5
21	1·9	5·5	1·9	6	**2·3**	6	1·8	6
22	0·9	5	0·9	4·5	0·8	6	0·7	6
23	0·6	5·5	0·7	5·5	1·2	7·5	1·5	**6**
24	1·2	5·5	0·9	5	1·4	**6·5**	1·2	5·5
25	2·4	4	1·3	4·5	1·8	5	1·4	5·5
26	1·2	5·5	1·3	5·5	1·4	6	2·5	5·5
27	2·7	**6**	2·5	6	2·3	6	1·6	5·5
28	1·6	6	1·7	5·5	1·7	6	1·8	5·5
29	1·7	5·5	2·2	**6**	1·5	**7**	1·5	**6·5**
30	1·6	6	1·5	6	1·5	6	2·8	6·5

* No trace.

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
3	...	22 45	Very small.
8	...	12 40	Very small.
10	...	9 39	Very small; doubtful.
14	23 20·4	23 25·2	
15	...	23 35	Very small.
16	...	0 16	Very small.
21	6 47·5	7 20·5	Amplitude on trace 1·2 mm.
24	4 51	5 1	Very small.
,,	12 28	12 36·2	
30	3 46	3 59·0	Amplitude on trace 1·9 mm.

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	5·1	...	7·6	...	6·2	...	4·2	...	7·9	...	5·3	...	4·9	...	7·4	...	16·6	1	35
2	2·5	...	6·1	...	3·3	...	3·3	...	2·5	...	1·7	...	4·7	...	3·1	...	13·0	2	10
3	7·4	...	...	4·9	7·1	...	...	10·6	12·9	...	2·6	...	13·7	...	5·7	...	30·9	11	35
4	12·8	...	8·6	...	8·1	...	8·1	...	6·2	...	...	...	...	...	...	12·5	26·3	4	5
5	...	...	...	6·9	...	...	...	8·2	...	5·1	5·1	...	...	4·9	11·8	...	21·3	22	5
6	...	...	14·8	...	2·7	...	13·8	...	6·6	...	9·8	...	4·0	...	6·0	...	23·4	5	30
7	9·0	...	...	6·0	7·9	...	5·3	...	4·4	...	4·4	...	...	2·1	5·2	...	19·9	3	50
8	...	5·1	7·6	...	...	1·9	9·3	...	...	2·7	13·5	...	...	2·8	14·1	...	22·2	18	40
9	...	...	15·1	...	...	...	14·1	...	...	...	12·8	...	...	...	7·9	...	23·9	6	45
10	3·3	...	4·9	...	9·0	...	1·8	...	6·2	...	4·2	...	7·3	...	3·0	...	16·4	6	30
11	5·2	...	2·1	...	7·9	...	5·3	...	7·9	...	3·3	...	6·6	...	4·4	...	15·4	9	40
12	4·9	...	4·9	...	6·4	...	2·6	...	6·6	...	4·4	...	6·2	...	4·2	...	12·1	21	30
13	7·3	...	3·0	...	3·6	...	2·4	...	3·2	...	0·6	...	2·3	...	...	...	12·3	1	50
14	1·0	...	...	...	1·0	...	...	...	0·7	...	...	...	0·7	...	...	...	8·5	23	30
15	2·6	...	...	...	0·9	...	...	0·4	7·1	...	...	1·4	8·8	...	...	3·6	14·2	21	20
16	6·8	...	...	4·6	4·2	...	...	6·2	9·1	...	...	3·8	1·3	...	...	6·5	17·5	23	0
17	5·8	...	...	8·7	3·1	...	...	7·6	5·7	...	...	13·7	3·1	...	...	15·4	23·7	22	35
18	2·9	...	...	14·5	...	...	...	14·8	...	1·9	...	9·6	...	2·8	...	6·7	26·2	5	0
19	...	2·6	...	6·4	...	4·1	...	10·0	...	3·5	...	8·5	...	4·0	...	6·0	13·9	10	5
20	...	1·5	...	3·6	...	1·3	...	3·0	...	1·5	3·6	...	...	...	6·2	...	12·7	16	0
21	2·3	...	5·5	...	1·9	...	4·6	...	1·1	...	5·5	...	...	4·4	6·6	...	12·3	18	15
22	...	1·4	2·2	...	2·0	...	4·8	...	5·6	...	5·6	...	5·8	...	5·8	...	18·0	18	30
23	7·1	...	4·7	...	7·1	...	4·7	...	10·2	...	...	...	12·4	...	5·1	...	22·5	19	15
24	9·2	...	6·2	...	9·8	...	6·6	...	2·0	...	10·0	...	5·5	...	3·7	...	23·9	12	55
25	7·8	...	7·8	...	10·4	...	7·0	...	2·0	...	10·0	...	...	4·8	11·6	...	20·7	24	0
26	...	7·3	10·9	...	...	4·5	10·9	...	...	8·3	8·3	...	...	10·6	4·4	...	18·8	1	25
27	...	9·7	...	4·0	...	7·5	...	...	...	4·2	4·2	...	...	1·0	2·4	...	16·9	1	0
28	5·3	...	5·3	...	6·9	...	6·9	...	3·4	...	5·2	...	5·8	...	5·8	...	17·0	8	30
29	6·5	...	6·5	...	7·6	...	5·1	...	6·7	...	6·7	...	7·9	...	5·3	...	18·3	10	30
30	6·5	...	6·5	...	7·9	...	5·3	...	3·7	...	5·5	...	2·8	...	2·8	...	17·5	0	50
S+N & W+E	148·9		189·9		144·3		186·9		148·9		169·3		141·2		183·2				
S−N & W−E	93·7		70·7		105·7		65·3		94·5		95·3		66·4		81·8				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	7·4	...	7·4	...	8·1	...	5·4	...	8·0	...	1·6	...	8·3	...	...	1·7	10·5	3
2	3·2	...	0·6	...	3·3	...	1·4	...	4·1	...	2·7	...	2·2	...	3·2	...	5·6	1, 2
3	1·6	...	1·6	...	3·3	...	1·4	...	4·9	...	...	7·4	3·1	...	...	15·4	16·7	23
4	7·4	...	...	7·4	9·8	...	...	9·8	12·1	...	...	5·0	12·1	...	...	...	15·1	11
5	7·3	...	...	3·0	...	3·9	...	9·4	6·5	...	...	6·5	3·1	...	...	7·6	11·8	10
6	...	...	...	8·2	7·3	...	3·0	...	9·7	...	...	4·0	6·4	...	2·6	...	11·1	1
7	10·3	...	2·0	...	11·9	...	...	2·4	2·4	...	...	3·6	...	1·1	1·1	...	12·5	10
8	...	0·1	0·3	...	...	0·3	1·3	...	...	0·2	1·0	...	...	0·2	1·0	...	1·6	11, 12, 20, 23
9	...	0·4	2·0	...	...	0·4	2·3	...	...	0·6	0·8	...	...	0·4	0·6	...	2·6	10, 12
10	1·9	...	1·3	...	3·5	...	0·7	...	1·0	...	0·2	...	1·5	...	0·6	...	4·9	7
11	4·8	...	1·0	...	3·4	...	5·2	...	5·6	...	5·6	...	5·7	...	13·7	...	13·8	23, 24
12	...	2·6	13·1	...	...	...	10·5	...	1·4	...	7·2	...	...	1·0	5·1	...	14·8	1
13	...	4·0	4·0	...	...	2·1	2·1	...	...	2·4	1·0	...	...	0·6	...	0·8	5·6	3
14	...	0·6	...	0·8	3·0	...	...	3·0	3·7	...	...	3·7	7·6	...	...	5·1	9·8	22, 23, 24
15	9·1	...	...	3·8	8·8	...	...	3·6	10·6	...	...	4·4	11·8	...	...	4·9	14·4	24
16	14·0	...	...	5·8	14·0	...	...	5·8	12·4	...	...	5·1	13·6	...	...	9·1	17·4	20
17	12·3	...	...	12·3	10·2	...	...	10·2	10·2	...	...	10·2	5·3	...	...	12·8	17·4	1, 3
18	4·5	...	...	10·9	2·6	...	...	12·9	...	...	...	13·8	...	...	...	14·1	15·1	22, 23, 24
19	...	...	...	14·8	...	...	...	16·1	3·0	...	...	15·1	...	...	...	15·7	19·0	11
20	...	...	...	12·1	...	...	...	12·8	2·1	...	...	10·6	...	...	...	14·4	16·1	24
21	1·9	...	...	9·6	9·3	...	...	1·9	10·2	...	...	2·0	8·2	...	...	...	17·0	1
22	3·6	...	1·5	...	4·1	...	2·7	...	6·4	...	2·6	...	9·3	...	1·9	...	10·2	20
23	5·2	...	3·4	...	2·8	...	6·7	...	8·0	...	1·6	...	7·5	...	...	...	10·2	24
24	9·6	...	...	1·9	9·2	...	...	...	...	4·0	9·7	...	5·2	...	3·4	...	12·8	13
25	9·5	...	...	...	5·3	...	5·3	...	...	...	4·3	...	...	1·7	8·7	...	11·1	5
26	...	6·7	6·7	...	...	10·9	7·3	...	...	9·6	6·4	...	...	9·8	9·8	...	14·8	18, 19, 20
27	...	7·8	7·8	...	...	2·9	6·9	...	...	0·9	0·4	...	9·0	...	1·8	...	12·1	1
28	10·8	...	...	...	9·6	...	1·9	...	8·8	...	3·6	...	1·7	...	8·7	...	12·1	17, 18
29	3·6	...	2·4	...	3·6	...	1·5	...	1·9	...	4·5	...	2·3	...	2·3	...	5·9	12
30	5·2	...	...	...	7·7	...	...	1·5	7·9	...	3·3	...	4·7	...	3·1	...	9·8	11
S+N & W+E	155·4		145·7		161·3		155·0		158·6		147·9		143·4		169·2			
S−N & W−E	111·0		−35·5		120·3		−23·8		123·2		−34·9		113·8		−34·0			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	5·4	...	2·2	...	2·2	...	5·4	...	2·1	...	5·0	...	3·0	...	3·0	...	14·5	7	35
2	3·0	...	3·0	...	...	...	6·7	...	2·6	...	3·8	...	6·3	...	...	...	14·0	24	0
3	16·2	...	...	6·7	5·3	...	8·0	...	4·8	...	11·6	...	9·7	...	5·0	...	30·3	6	25
4	...	...	10·0	...	5·8	...	...	2·4	8·6	...	...	12·8	13·6	...	...	9·1	23·5	16	35
5	4·6	...	...	...	...	15·6	15·6	...	...	7·4	17·7	...	...	9·7	14·6	...	29·0	12	20
6	...	7·0	17·0	...	...	4·6	11·2	...	2·4	...	5·8	...	14·3	...	...	2·9	22·6	1	15
7	1·8	...	9·0	...	6·5	...	6·5	...	2·4	...	5·8	...	...	3·2	7·7	...	17·1	0	20
8	...	9·4	9·4	...	...	9·3	13·9	...	...	11·8	11·8	...	...	10·6	10·6	...	22·5	17	50
9	...	10·6	10·6	...	...	10·3	10·3	...	...	6·0	9·0	...	...	3·0	7·3	...	25·0	9	30
10	10·0	...	...	...	...	1·4	7·0	...	...	...	5·4	...	...	...	4·2	...	12·3	2	40
11	...	0·8	4·1	...	...	0·3	1·3	...	...	...	2·5	...	0·5	...	1·2	...	5·4	4	40
12	1·2	...	1·8	...	2·4	...	...	1·6	3·2	...	...	0·6	...	ca	lm	...	4·8	11	45
13	1·0	...	...	2·3	2·3	...	...	3·5	2·3	...	...	3·5	3·5	...	...	2·3	7·5	12	15
14	4·5	...	...	3·0	5·4	...	...	2·2	4·5	...	...	3·0	4·7	...	...	4·7	11·7	23	45
15	6·9	...	...	4·6	8·5	...	...	3·5	8·3	...	...	8·3	9·0	...	...	6·0	14·9	18	15
16	9·6	...	...	4·0	11·6	...	...	4·8	15·4	...	...	6·4	17·4	...	...	7·2	25·5	23	20
17	20·4	...	...	8·5	9·6	...	...	...	...	3·4	8·1	...	0·7	...	1·6	...	30·8	7	35
18	...	...	...	7·1	...	2·1	...	10·6	*	*	*	*	*	*	*	*	19·0	6	55
19	*	*	*	*	*	*	*	*	...	7·4	11·1	...	...	13·2	8·8	...	22·9	18	5
20	...	11·2	11·2	...	...	11·2	11·2	...	...	3·8	9·2	...	...	...	7·5	...	24·3	2	30
21	...	5·1	7·7	...	...	3·5	5·2	...	...	3·2	2·1	...	...	2·1	1·4	...	15·9	5	20
22	...	1·2	1·2	...	...	...	4·2	...	1·9	...	4·6	...	4·7	...	4·7	...	10·3	20	40
23	3·3	...	3·3	...	9·2	...	3·8	...	12·5	...	...	...	9·0	...	6·0	...	18·4	15	35
24	5·3	...	5·3	...	4·0	...	9·6	...	...	1·2	6·2	...	2·4	...	1·6	...	14·0	7	10
25	2·9	...	6·9	...	3·7	...	8·9	...	...	7·2	17·4	...	...	10·0	14·9	...	29·0	16	40
26	...	10·3	10·3	...	...	11·6	4·8	...	...	10·8	4·5	...	...	10·4	...	...	21·5	0	35
27	...	9·0	...	1·8	...	6·2	...	2·6	...	4·2	...	...	...	1·3	...	...	17·3	0	0
28	0·6	...	2·8	...	3·5	...	5·2	...	2·4	...	5·8	...	2·8	...	4·2	...	10·1	16	15
29	4·5	...	4·5	...	5·0	...	5·0	...	4·3	...	1·8	...	4·3	...	1·8	...	9·2	8	20
30	3·1	...	1·3	...	2·3	...	2·3	...	2·1	...	1·4	...	2·8	...	0·6	...	5·1	6	0
S+N & W+E	168·9		159·6		163·4		177·3		146·2		185·2		172·2		138·9				
S−N & W−E	39·7		83·6		11·2		114·9		13·4		116·0		45·2		74·5				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust. (Gorleston.)	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	3·7	...	3·7	...	4·8	...	2·0	...	7·2	...	...	...	5·7	...	2·4	...	17·5	12	55
2	1·7	...	1·1	...	1·4	...	1·4	...	0·9	...	1·3	...	1·8	...	1·8	...	4·8	19	45
3	1·1	...	1·1	...	6·1	...	...	1·2	8·7	...	...	5·8	8·7	...	...	1·7	19·2	18	0
4	3·2	...	0·6	...	4·0	...	1·6	...	3·9	...	...	...	7·4	...	...	7·4	18·3	22	35
5	5·9	...	...	...	12·6	...	...	2·5	14·8	...	...	2·9	7·4	...	4·9	...	31·5	15	15
6	3·1	...	4·7	...	1·0	...	4·8	...	2·0	...	4·8	...	3·0	...	2·0	...	12·6	12	55
7	5·2	...	...	...	9·5	...	...	...	6·6	...	...	...	4·5	...	0·9	...	24·1	6	45
8	3·5	...	0·7	...	...	...	3·3	...	0·8	...	4·2	...	0·6	...	3·2	...	9·0	11	40
9	0·6	...	3·2	...	0·8	...	4·2	...	1·5	...	3·6	...	1·3	...	1·9	...	8·5	11	30
10	1·3	...	3·0	...	0·9	...	2·1	...	3·3	...	1·4	...	3·3	...	3·3	...	10·1	20	30
11	1·6	...	4·0	...	...	...	5·2	...	1·5	...	3·6	...	0·4	...	2·0	...	9·1	8	5
12	...	0·8	4·2	...	...	0·9	4·5	...	...	2·0	3·0	...	...	...	3·0	...	8·6	11	0
13	...	0·7	3·5	...	...	0·7	3·5	...	...	1·3	0·9	...	...	1·0	0·2	...	6·0	19	20
14	...	3·8	...	2·6	...	4·1	...	2·7	...	3·2	...	2·2	...	4·9	...	3·3	9·4	23	30
15	1·5	...	...	7·7	3·0	...	...	7·3	1·2	...	...	5·8	2·0	...	...	10·3	10·2	21	50
16	3·1	...	...	7·6	3·1	...	...	7·6	3·5	...	...	8·5	6·9	...	...	6·9	14·6	19	25
17	8·1	...	...	8·1	10·9	...	...	10·9	6·5	...	...	15·7	3·5	...	...	17·7	21·4	19	5
18	4·2	...	...	20·9	...	...	...	23·9	...	...	...	22·9	3·8	...	...	19·3	24·7	16	20
19	...	...	...	19·7	...	...	...	16·4	8·0	...	...	1·6	9·7	...	...	4·0	23·1	1	5
20	8·0	...	...	1·6	7·2	...	...	...	4·2	...	0·8	...	2·0	...	3·0	...	23·0	7	55
21	1·8	...	1·8	...	0·9	...	0·9	...	...	0·2	1·0	...	...	0·4	2·3	...	*	*	
22	...	0·7	3·4	...	...	1·3	6·5	...	...	0·7	3·5	...	0·6	...	2·9	...	*	*	
23	1·8	...	2·7	...	1·8	...	4·3	...	3·8	...	2·6	...	6·1	...	2·5	...	15·4	23	50
24	7·1	...	4·7	...	6·0	...	4·0	...	3·4	...	5·2	...	1·1	...	2·8	...	16·9	0	35
25	2·3	...	2·3	...	3·5	...	0·7	...	3·8	...	0·8	...	2·6	...	3·8	...	14·0	19	15
26	...	1·5	7·7	...	...	0·9	4·5	...	...	...	2·3	...	...	...	2·3	...	*	*	
27	...	1·4	2·2	...	...	4·9	...	...	...	2·2	1·4	...	...	2·0	3·0	...	*	*	
28	...	1·1	1·7	...	...	...	2·0	...	3·6	...	2·4	...	3·8	...	2·6	...	*	*	
29	4·7	...	3·1	...	4·9	...	3·3	...	3·2	...	2·2	...	3·2	...	2·2	...	*	*	
30	2·5	...	1·7	...	1·1	...	1·1	...	1·9	...	1·3	...	1·2	...	0·5	...	*	*	
S+N & W+E	86·0		129·3		96·3		132·4		103·9		111·7		98·9		124·1				
S−N & W−E	66·0		−7·1		70·7		−12·6		84·7		−19·1		82·3		−17·1				

* No record.

9. Soundings with Pilot Balloons.

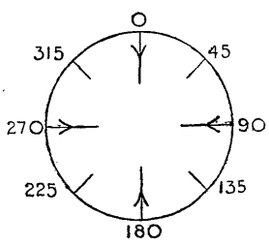
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind. Geostrophic. From N.	Geostrophic. m/s.	By Anemometer. From N.	By Anemometer. m/s.	At Heights above M.S.L. 500 m. From N.	500 m. m/s.	1000 m. From N.	1000 m. m/s.	2000 m. From N.	2000 m. m/s.	3000 m. From N.	3000 m. m/s.	4000 m. From N.	4000 m. m/s.	5000 m. From N.	5000 m. m/s.	Cloud Observations. Type.	From N.	mr/s.
		h. m.	°		°		°		°		°		°		°		°			°	
1	S. Farnboro'	7 5	220	16	200	6·0	215	13·0	225	17·0	230	16·0	...	...	...	...	...	...	...	...	...
2	,,	7 25	230	8	...	0·0	250	7·5	240	7·5	225	7·0	230	15·5	...	...	...	...	Ci.	190	...
4	Benson	12 10	180	16	180	6·0	195	9·5	205	12·5	215	18·0	...	...	...	...	...	..	Ci.-St.	200	...
6	S. Farnboro'	7 25	270	16	250	8·0	275	14·0	275	15·5	270	17·0	...	...	...	...	...	...	...	...	...
7	Benson	15 45	220	15	200	6·0	230	14·5	240	18·0	235	21·0	...	...	..	...	...	...	Ci.-St.	270	...
8	,,	12 40	280	14	250	5·0	265	9·0	275	11·5	270	10·0	...	...	...	...	...	...	Ci.-St.	270	...
8	S. Farnboro'	12 45	280	14	250	6·0	265	9·5	275	11·5	275	13·0	...	..	...	...	...	...	Ci.	270	...
9	,,	7 10	280	14	260	7·0	285	15·0	295	14·5	290	12·5	270	9·0	290	9·5	...	...	...	...	...
10	,,	7 20	230	9	...	...	230	7·5	235	8·0	280	9·5	...	...	...	...	...	...	Ci.-Cu.	270	...
13	,,	7 25	300	4	...	0·0	290	4·0	310	6·5	295	7·5	...	...	...	...	...	...	Ci.-Cu.	270	...
13	,,	12 25	320	5	...	0·0	5	4·5	355	3·0	300	7·5	310	11·0	...	...	...	...	Ci.	315	...
15	,,	7 45	120	7	80	3·0	105	8·5	85	8·0	75	3·0	15	15·5	...	...	...	...	...	...	...
17	,,	7 20	160	30	110	7·0	125	20·5	135	25·5	135	16·5	...	...	...	...	...	...	...	...	...
21	,,	7 20	210	7	...	0·0	165	4·0	155	2·5	185	5·5	180	8·5	...	...	...	...	...	...	...
21	,,	12 20	...	...	...	0·0	165	2·0	...	0·0	200	2·0	...	...	...	...	...	...	...	...	...
22	,,	11 30	310	9	325	2·0	310	8·5	310	8·0	335	7·5	...	...	...	...	...	...	...	...	...
22	Benson	12 0	310	9	270	3·0	310	8·0	310	9·5	300	10·0	...	...	...	...	...	...	...	...	...
27	S. Farnboro'	7 25	360	10	325	2·0	15	13·5	10	9·5	15	12·5	...	...	...	...	...	...	...	...	...
27	Aberdeen	8 20	330	15	295	8·0	325	16·0	340	12·0	335	11·5	...	...	...	...	...	...	...	...	...
27	Eskdalemuir	12 50	280	7	270	2·0	310	2·6	340	4·9	335	11·5	...	...	...	...	...	...	Ci.	345	5·6
28	S. Farnboro'	7 35	...	...	...	0·0	250	6·0	285	5·5	310	4·5	350	5·0	...	...	...	...	...	...	...
28	,,	12 10	240	11 ?	200	4·0	235	10·5	255	7·5	305	5·0	5	6·5	345	8·5	...	...	Ci.	360	...
28	Benson	12 20	240	11 ?	200	6·0	235	13·5	245	10·0	275	5·5	330	5·0	360	10·5	...	...	Ci.	270	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Aberdeen	14 m.	32 m.
Benson	57 m.	25 m.
Eskdalemuir	242 m.	15 m.
S. Farnborough	70 m.	31 m.

Notes on Pressure Distribution.

November 1 7 h. Extensive depression centred near the Faröes.
2 7 h. Depression over the Faröes. Anticyclone over Mediterranean.
4 7 h. Deep depression off W. of Scotland. Secondary off Corunna. During the day the secondary developed and moved to the Mouth of the Channel.
6 7 h. Deep depression over N. of Scotland.
7 18 h. Depression over Scotland.
8 7 h. Depression off N. of Scotland. Secondary over East Anglia. Secondary passed away to North Sea during day.
9 7 h. Depressions off the Norwegian coast and over Italy. Anticyclone off Portugal.
10 7 h. Depression over the Atlantic. Anticyclonic belt, Portugal to Russia.
13 7 h. Anticyclone over the British Isles and surrounding area. Depression over the Baltic.
15 7 h. Anticyclone over Scandinavia and North Sea. Depression far out to W. of Ireland.
17 7 h. Depression over Ireland. Anticyclone over Scandinavia.
21 7 h. Depression over N. of Scotland. Pressure distribution becoming irregular during the day.
22 7 h. Depressions over Iceland and Denmark. Anticyclone over Madeira.
27 7 h. Anticyclone over Azores. Depressions over Northern Norway and Iceland, the latter spreading S.E. during day.
28 7 h. Anticyclone over Northern France and Channel. Depression over Iceland.



Wind Protractor.

10. Nephoscope Observations.

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity-height-ratio. Degrees from N.	Milliradians per Second.	Components. W.-E.	Components. S.-N.	Remarks.
		°	mr/s.	mr/s.	mr/s.	
1	Cu.	215	14·0	+ 8·0	+11·5	
2	A.-Cu. to St.-Cu.	242	3·4	+ 3·0	+ 1·6	A.-Cu. to St.-Cu., thin and diffuse.
4	Fr.-Cu.	205	20	+ 8	+18	Velocity approximate, as parts of clouds had different rates of movement.
6	Fr.-Cu.	225	25	+18	+18	Do. Cloud low in altitude and of degraded type, possibly St.-Cuf.
9	St.-Cu.	280	3·3	+ 3·3	− 0·6	During this day the cloud direction veered from 225° at 9 h. to 333° at 16 h.
16	Cu.	165	16·0	− 6·7	+14·5	Cu. to St.-Cu., transition type.
21	Fr.-Cu.	198	20·0	+ 6·8	+18·8	
22	St.-Cu.	283	3·0	+ 2·9	− 0·7	St.-Cu. in small lenticular sheets.
24	Fr.-Cu.	243	12·5	+11·1	+ 5·7	Sudden squall 30 minutes later, with veer of cloud direction to 270°.

Note.—Greater portion of month characterised by either Nb. or St. cloud.

METEOROLOGICAL OFFICE OBSERVATORIES—GEOPHYSICAL JOURNAL.

DAILY VALUES.—*Solar Radiation, Meteorology, Atmospheric Electricity, Terrestrial Magnetism, and Seismology.*

Sixth Year.—No. 12. DECEMBER 1916]. Units based on the C.G.S. System. [*Price* 1*s.*

1. SUNSHINE AND SOLAR RADIATION.

Day.	SOUTH KENSINGTON.—Lat. 51° 30′ N. Long. 0° 10′ W.							RICHMOND.—Lat. 51° 28′ N. Long. 0° 19′ W.					ESKDALEMUIR.—Lat. 55° 19′ N. Long. 3° 12′ W.						CAHIRCIVEEN.	
	Bright Sunshine.		Radiation received on Horizontal Surface by Callendar Radiograph.					Bright Sunshine.		Radiation at Noon by Ångström Pyrheliometer.			Bright Sunshine.		Radiation by Ångström Pyrheliometer.				Bright Sunshine.	
	Total.	Per cent. of Possible.	Daily Total.	Per cent. of Planetary.	Maximum. For Day. Amount.	Maximum. For Day. Time.	11.30 h. to 12.30 h.	Total.	Per cent. of Possible.	Intensity.	Vertical Component.	Sky.	Total.	Per cent. of Possible.	Time.	Sky.	$\frac{p}{p_0}$ sec Z.	Intensity.	Total.	Per cent. of Possible.
	hr.	%	j/cm².	%	mw/cm².	h. m.	mw/cm².	hr.	%	mw/cm².	mw/cm².		hr.	%	h. m.			mw/cm².	hr.	%
1	0·0	0	63	8	6	11 30	6	0·0	0	…	…	…	0·0	0	…	…	…	…	0·0	**0**
2	0·0	**0**	72	10	6	11 17	5	0·0	0	…	…	…	0·0	0	…	…	…	…	1·8	23
3	0·0	0	81	11	8	13 42	7	0·0	0	…	…	…	4·1	55	…	…	…	…	2·3	29
4	*x* 3·0	37	*x* 237	33	*x* 22	10 53	16	*x* 4·3	53	…	…	…	5·6	76	12 2	Ci-haze	4·59	54	*x* 6·5	81
5	0·0	0	100	14	8	12 30	8	0·2	3	…	…	…	3·5	48	…	…	…	…	0·0	0
6	0·0	0	188	26	13	12 9	13	0·8	10	…	…	…	0·0	0	…	…	…	…	0·0	**0**
7	**0·0**	0	118	17	14	13 5	9	0·5	6	…	…	…	0·0	0	…	…	…	…	0·0	0
8	0·0	0	197	28	15	12 22	15	1·0	13	…	…	…	1·3	18	…	…	…	…	0·9	12
9	1·2	15	203	29	*x* 22	{12 30 / 12 33}	22	2·0	25	…	…	…	0·0	0	…	…	…	…	0·7	**9**
10	0·3	4	158	23	*x* 22	12 7	22	0·8	10	…	…	…	0·0	0	…	…	…	…	2·4	31
11	0·0	0	72	11	8	13 15	8	0·0	0	…	…	…	0·4	6	…	…	…	…	0·4	5
12	0·0	0	93	14	10	12 48	7	0·0	0	…	…	…	0·2	3	…	…	…	…	3·8	49
13	0·0	0	117	17	12	12 43	10	0·0	0	…	…	…	0·0	0	…	…	…	…	0·0	0
14	0·0	0	38	6	*n* 4	12 15	4	0·0	0	…	…	…	0·8	11	…	…	…	…	0·3	4
15	0·0	0	*n* 36	5	5	11 45	5	0·0	0	…	…	…	*x* 6·3	89	12 9	Clear	4·89	59	3·4	44
16	0·0	0	50	8	*n* 4	11 36	4	0·**0**	0	…	…	…	5·7	80	12 10	Clear	4·96	62	6·2	81
17	0·**0**	0	83	13	9	10 55	7	0·0	**0**	…	…	…	1·6	23	…	…	…	…	5·7	74
18	0·0	**0**	68	10	7	11 50	7	0·0	0	…	…	…	0·0	0	…	…	…	…	1·4	18
19	0·2	3	63	10	15	13 50	3	0·3	4	…	…	…	0·0	0	…	…	…	…	0·0	0
20	0·1	1	179	28	19	11 33	19	0·3	4	…	…	…	0·0	0	…	…	…	…	1·4	18
21	0·0	**0**	*n* 36	6	10	14 9	3	0·0	0	…	…	…	0·1	1	…	…	…	…	0·0	0
22	0·2	3	134	21	15	12 0	15	2·6	33	44	11	Ci	3·3	47	…	…	…	…	3·1	40
23	0·0	**0**	68	10	5	11 40	5	0·0	0	…	…	…	0·0	0	…	…	…	…	1·6	21
24	1·0	13	187	29	14	10 50	11	3·1	40	41	11	Ci	0·0	**0**	…	…	…	…	0·7	9
25	0·5	6	95	15	16	13 30	12	0·9	12	…	…	…	0·2	3	…	…	…	…	5·3	69
26	0·**0**	0	91	14	6	11 5	5	0·0	0	…	…	…	4·7	67	12 1	Clear	5·12	59	5·1	66
27	0·0	0	82	12	7	13 15	6	0·0	0	…	…	…	0·1	1	…	…	…	…	0·0	0
28	0·0	0	117	18	10	10 30	7	0·0	0	…	…	…	0·**0**	0	…	…	…	…	0·0	0
29	0·0	0	45	7	5	12 45	4	0·0	0	…	…	…	0·0	0	…	…	…	…	0·1	1
30	**2·8**	36	179	27	17	{12 10 / 13 0}	17	3·0	38	37	10	Ci?	0·9	13	…	…	…	…	1·3	17
31	0·0	0	126	19	11	12 30	11	0·4	5	…	…	…	0·0	0	…	…	…	…	0·0	0
Means	0·30	**4**	109	16	11	—	9	0·65	8	—	—	—	1·26	18	—	—	—	—	1·74	23
Normal	0·84	11	—	—	—	—	—	1·19	16	—	—	—	0·68	10	—	—	—	—	1·32	17
	← 5 years →							← 35 years →					← 5 years →						← 35 years →	

2. METEOROLOGY AND MAGNETISM :—CAHIRCIVEEN (VALENCIA OBSERVATORY).—Lat. 51° 56′ N. Long. 10° 15′ W.

Heights above M. S. L. :—H = 12·5 m. H_b = 13·7 m. H_a = 26·4 m. Above Ground : h_t = 1·2 m. h_r = 0·56 m. h_a = 13·9 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity. Vapour Pressure.		Humidity. Percentage.		Wind Direction in Points (S = E, 16 = S) with Speed in metres per second.				Cloud Amount (0–10) and Weather.		Rain 24 hours beginning 9 h.	Remarks.	Magnetism. Horizontal Force.	Declination West.	Inclination.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.					
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.		γ	° ′	° ′
1	1010·0	1010·7	81·1	81·6	83	77	10·3	9·5	96	85	16	4	12	6	10	7	0·7	● showers. ⊔⁰ 20 h.	…	…	…
2	1015·2	1018·8	78·4	81·0	83	78	8·5	9·5	96	89	—	0	1	8	6	10	—	Fine to c.	…	…	…
3	1022·1	1021·5	80·1	80·4	81	79	8·2	9·0	81	88	32	2	—	0	5	10	1·3	Calm and c. ●⁰ shower *p*.	…	…	…
4	1024·0	1024·0	78·2	74·8	80	74	7·6	12·5	86	91	4	3	—	1	7	7	2·0	● *n*. Brilliantly fine. v.	…	…	…
5	1019·6	1019·6	79·1	81·5	82	76	9·4	10·7	100	97	—	0	—	1	10	●⁰≡⁰ 9	0·2	●⁰≡⁰ *a*. Clear afternoon to c.	…	…	…
6	1019·5	1018·2	80·8	81·1	82	80	10·2	10·4	97	97	—	1	16	3	10	9	1·8	o., with low clouds.	…	…	…
7	1015·0	1013·5	81·5	80·2	83	80	10·7	9·0	97	89	16	2	—	0	10	5	4·0	● *n*. ● showers. ⊔ 18 h.	17876	19 49·4	68 6·5
8	1009·0	990·2	76·3	81·5	82	76	7·3	10·0	94	90	—	1	25	11	7	6	11·8	● at times.	…	…	…
9	992·3	984·4	77·2	77·8	81	76	6·7	7·6	82	89	28	10	30	12	9	10●	4·7	●▲ showers.	…	…	…
10	989·0	990·9	79·0	78·7	80	78	6·7	8·0	72	87	2	9	31	15	8	10●	12·5	c. to fine *a*. ● at times *p*.	…	…	…
11	985·4	980·4	77·7	75·6	79	75	6·6	7·1	77	96	30	9	—	0	10	10	8·9	▲ showers. ✲ 18 h.–20 h. ● later.	…	…	…
12	983·2	986·9	74·0	73·8	77	73	5·8	5·9	89	92	6	2	—	0	4	1	1·7	Fine to c. Distant ≺ 19 h.	…	…	…
13	987·0	987·1	74·4	75·7	78	72	6·5	6·7	96	90	5	2	8	3	8●⁰	4	4·4	●² 3 h. ● *a*. ⌒ 9 h. ●⁰ showers *p*.	…	…	…
14	995·5	998·1	76·8	78·8	80	75	6·3	6·7	79	73	2	5	1	4	8	2	1·6	⊔ 2 h. ⌒ 10 h.	…	…	…
15	994·6	999·1	75·8	74·4	79	72	6·5	5·3	88	79	3	5	—	1	5	1	—	● showers *n*. and *a*. Fine to c.	…	…	…
16	1002·6	1007·7	72·0	72·1	77	71	4·9	5·3	87	94	—	1	6	2	4	o⌙	—	⌙ *a*. Fine.	…	…	…
17	1010·5	1005·8	71·0	74·0	77	*n* 70	4·8	6·4	91	98	—	0	—	0	3⌙	4	4·0	Fine and clear. ⌙ all day.	…	…	…
18	994·8	992·2	75·4	73·2	*n* 76	72	7·2	6·1	99	98	—	0	—	1	10⌙	4●	6·5	d. *a*. Dull to fine. ●⁰ *n*.	…	…	…
19	991·0	986·3	73·5	75·0	78	71	5·7	7·0	90	99	7	2	7	2	10●	4	*x* 23·2	●▲ showers. ~ 2 mm. thick.	…	…	…
20	973·4	981·4	77·4	78·5	79	77	7·8	7·0	94	78	18	3	23	7	8●	2	1·4	●▲ showers. Fine *n*.	…	…	…
21	980·5	984·9	74·3	74·9	77	73	6·2	6·9	93	98	—	1	—	1	8●	8	3·7	⌙ *n*. ▲ 7 h. Fine to dull. ≺ *n*.	…	…	…
22	989·5	989·2	74·4	77·3	80	72	5·2	7·6	77	91	—	1	16	3	7	9	8·7	● showers. ⌒ 10 h. and 15 h.	17888	19 49·7	68 5·6
23	992·0	1002·7	77·4	79·1	79	76	5·9	8·1	70	86	26	9	21	11	5⌙	4	6·0	● *n*. ✲▲● showers.	…	…	…
24	1004·7	996·9	78·6	78·4	80	78	7·8	8·4	86	94	17	4	16	3	3	10	3·5	● showers.	…	…	…
25	997·8	1006·6	79·5	79·4	81	77	6·7	7·4	*n* 69	78	23	8	22	5	3	5●	0·1	● showers early to fine.	…	…	…
26	1008·7	1010·9	75·2	72·7	78	72	6·5	5·4	91	90	6	2	—	1	8	0	0·1	⌙⁰ *n*. Fine.	…	…	…
27	1014·5	1013·5	79·3	82·0	83	73	8·1	10·5	85	92	14	7	15	8	10	8	10·6	o., with low clouds. d. *p*.	…	…	…
28	1008·1	1005·9	84·3	84·9	*x* 85	*x* 83	12·9	13·1	97	95	16	8	19	9	10●⁰	10	12·3	o., with ●⁰ showers. ●² 19 h.	…	…	…
29	1003·4	1007·3	82·3	82·9	*x* 85	82	11·5	11·4	99	94	26	3	20	5	10●⁰	8	0·3	● showers *n*. and *a*. ⊔ 19 h.	…	…	…
30	1012·4	1016·1	82·2	83·9	84	82	9·5	12·0	82	93	21	10	20	9	7	10	0·1	Fair to c. *a*. o., with low clouds *p*.	…	…	…
31	1018·6	1022·7	84·4	83·9	*x* 85	*x* 83	13·4	12·4	100	96	20	8	18	4	10●⁰	10	0·3	Damp and mild.	…	…	…
Means	1002·1	1002·4	77·8	78·4	80·3	75·9	7·8	8·5	88	91		3·9		4·4	7·5	6·4	136·4	Monthly **Totals** or **Means.**	17882	19 49·6	68 6·1
Normal	1009·5	1009·7	80·2	80·4	82·9	77·9	9·1	9·2	88	88		6·3		6·5	—	—	165·1	**Normals.**			
	← 45 years →						← 30 years →				← 35 years →						45 yrs.				

x denotes the maximum and *n* the minimum value in the column.

Wt. 47527/444—400—2/18.—N. & Co., Ltd. **Gp. XV.**

3. METEOROLOGY :—RICHMOND, SURREY (KEW OBSERVATORY).—Lat. 51° 28′ N. Long. 0° 19′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 5·5 m. Barometer, H_b = 10·4 m. Cups of Anemometer, H_a = 25 m.
Heights above Ground :—Thermometers, h_t = 3·0 m. Rain-gauge, h_r = 0·53 m. Cups of Anemometer, h_a = 20 m.

Day.	Air Pressure at Station Level.		Air Temperature in Degrees Absolute.				Humidity.				Wind Direction in Points (8 = E, 16 = S) with Speed in metres per second.				Cloud Amount and Weather.		Rain 24 hours beginning 9 h.	Min. Temp. on Grass.	Earth Temperature at 9 h.		Height above M.S.L. of Surface of Underground Water.	
							Vapour Pressure.		Percentage.												Daily Mean.	Extremes.
	9 h.	21 h.	9 h.	21 h.	Max.	Min.	9 h.	21 h.	9 h.	21 h.	9 h.		21 h.		9 h.	21 h.			0·3 m.	1·2 m.		
	mb.	mb.	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	millibar.		%	%	Dir.	m/s.	Dir.	m/s.	Tenths of Sky covered.		mm.	*a.* 200+	*a.* 200+	*a.* 200+	cm.	cm.
1	1020·5	1018·3	73·1	76·7	77	73	5·3	7·3	87	92	15	2	8	3	10 0	10 ≡	—	69	77·5	81·4	304	—
2	1017·7	1016·6	77·1	76·4	78	76	7·2	6·4	88	82	5	5	7	3	10 ≡ 0	10 ≡ 0	—	73	77·3	81·3	301	—
3	1016·0	1014·8	74·5	74·1	76	74	5·8	6·0	86	91	1	2	27	2	10 ≡ 0	1 ≡ 0	—	74	77·3	81·1	298	—
4	1014·7	1015·8	73·2	75·1	77	72	5·2	5·1	83	72	25	3	28	5	0 ≡ 0 ⌐	0 ≡ 0	0·2	*n* 67	76·6	81·1	294	—
5	1015·4	1018·6	74·6	76·3	77	74	5·2	6·2	76	80	29	5	32	3	8	10 ≡ 0	0·2	71	76·0	81·0	291	—
6	1019·7	1017·5	74·3	77·0	78	74	5·3	6·5	80	80	32	4	32	5	6 ≡ 0	10 ≡ 0	—	71	75·7	80·9	287	—
7	1016·3	1013·0	76·2	76·6	78	76	6·3	7·0	82	89	32	2	—	1	10 ≡ 0	10 ≡ 0	2·1	75	76·1	80·7	285	—
8	1008·5	1004·8	78·2	72·3	80	72	8·4	5·4	96	94	26	2	—	0	? 10 ≡ 0	*10* ≡ ⌐	3·9	74	76·7	80·6	282	—
9	989·9	989·0	80·6	76·2	82	73	9·7	6·3	93	82	14	5	20	2	10 ≡ 0	1 ≡ 0 ⌐	0·9	70	76·8	80·5	280	—
10	988·1	986·2	75·4	77·2	79	74	6·7	7·2	93	88	—	1	10	3	8 ≡ 0	10 ≡	3·2	70	76·6	80·4	278	—
11	983·6	980·4	75·3	77·1	78	75	6·6	7·2	91	88	—	1	10	3	10 ≡ ● 0	10 ≡	0·5	74	76·7	80·3	277	—
12	977·1	982·2	76·0	77·0	77	75	6·8	7·4	90	91	6	2	32	2	10 ≡ 0	10 ≡ 0	—	71	76·7	80·3	276	—
13	986·3	988·1	75·6	73·8	76	71	6·6	5·9	90	92	—	1	—	1	? 9 ≡ 0	*10* ≡	0·1	71	76·9	80·2	276	—
14	990·2	989·8	70·8	73·7	74	70	5·2	5·8	100	90	23	2	30	3	? 10 ≡ ⌐	? 10 ≡	2·3	68	76·1	80·1	277	—
15	992·8	997·8	73·9	74·0	75	73	5·9	6·1	90	93	32	2	—	1	10 ≡ 0 ✳	? 0 ≡ 0	0·3	72	75·7	80·1	276	—
16	1003·7	1007·4	71·5	70·4	73	*n* 69	5·5	5·1	100	100	—	0	29	2	*10* ≡ ⌐	*10* ≡ ⌐	0·3	70	75·5	80·0	274	—
17	1007·8	1005·6	72·7	73·7	75	*n* 69	5·4	6·1	90	94	—	1	—	1	? 10 ≡ ⌐	10 ≡ 0	0·1	*n* 67	75·2	79·9	273	—
18	1000·0	994·6	72·5	73·4	74	72	5·8	5·9	98	93	—	0	—	0	10 ≡ 0	10 ≡	0·2	72	75·2	79·8	271	—
19	992·0	994·7	74·4	71·9	76	70	6·0	5·5	89	97	13	4	—	1	10 ≡ 0 ✳	? 0 ≡ ⌐	0·1	68	75·2	79·7	270	—
20	993·4	989·7	74·4	78·7	79	71	6·3	8·0	93	87	17	3	17	5	8 ≡ 0 ⌐	10	*x* 10·0	*n* 67	75·0	79·6	267	—
21	978·9	988·4	78·4	75·5	82	75	8·5	6·8	96	93	11	5	20	3	10 ●	4	7·3	74	75·4	79·5	265	—
22	990·8	1000·5	75·9	73·8	80	73	7·3	5·9	96	92	—	1	—	1	10 ≡	? 0 ≡ ⌐	9·5	72	75·8	79·3	263	263
23	976·5	999·9	78·6	76·1	79	75	8·8	5·4	97	*n* 71	—	1	22	8	? 10 ● ≡	0	1·4	68	75·7	79·2	267	—
24	1011·5	1008·6	75·7	76·9	80	75	7·1	6·7	95	83	22	2	19	2	6 ≡ 0 ⌐	? 4 ≡ 0	8·5	72	75·7	79·1	276	—
25	994·6	1008·1	74·5	75·1	79	74	6·6	6·5	96	91	28	3	21	2	10 ≡ 0	0 ≡ 0	0·2	72	75·6	79·1	286	—
26	1010·2	1010·4	72·5	71·4	75	70	5·0	5·1	84	93	—	1	—	1	? 9 ≡ ⌐	*10* ≡ ⌐	—	69	75·3	79·1	301	—
27	1018·5	1024·4	69·7	69·9	*n* 71	*n* 69	4·8	4·7	100	96	—	1	—	1	*10* ≡ ⌐	*10* ≡ ⌐	0·3	69	74·9	79·0	323	—
28	1023·3	1014·1	71·1	80·6	82	70	5·3	10·0	100	96	—	0	19	6	*10* ≡ ⌐	10 ● 0	2·4	69	74·8	79·0	339	—
29	1011·7	1009·3	84·0	84·6	*x* 85	*x* 82	12·2	12·5	94	92	20	7	21	5	10 ≡ ● 0	10	2·7	77	75·7	78·9	346	—
30	1010·5	1018·2	81·5	80·1	84	80	10·0	9·0	90	89	22	3	22	4	6	? 4	—	79	77·9	78·8	348	—
31	1018·6	1020·4	83·5	84·2	*x* 85	81	10·8	11·9	85	90	22	5	24	4	10	10	0·6	77	78·2	78·9	349	350
Means	1002·5	1004·1	75·5	75·8	78·1	73·4	6·8	6·8	91	89		2·5		2·7	9·0	6·9	57·3	71·4	76·1	80·0	290	—
Normal	1012·9	1012·9	77·2	77·5	79·9	75·1	7·4	7·5	87	87		3·7		3·7	—	—	56·8 (45 years)	—	78·4 (12 years)	80·9	—	—
			45 years				30 years				35 years											

4. METEOROLOGY :—ESKDALEMUIR, DUMFRIESSHIRE.—Lat. 55° 19′ N. Long. 3° 12′ W.

Heights above Mean Sea Level :—Rain-gauge Site, H = 242 m. Barometer, H_b = 237·3 m. Vane of Anemometer, H_a = 250 m.
Heights above Ground :—Thermometers, h_t = 0·9 m. Rain-gauge, h_r = 0·38 m. Vane of Anemometer, h_a = 15 m.

																			Remarks.
1	988·3	989·3	77·8	73·7	79	72	8·1	5·9	95	92	14	5	—	1	10 ≡ ⁰	0 ⌐ ≡ 0	0·3		o. ☂, with paraselenae 18 h. and 22 h.
2	991·2	989·2	75·1	77·0	79	71	5·9	7·6	84	94	—	0	—	0	10 ≡ 0	10	1·4		Red sunrise. c., with occasional d.
3	986·6	985·6	75·5	73·4	78	73	6·4	4·9	87	79	19	2	26	8	7	0	—		Fine.
4	988·5	990·8	74·4	72·9	76	69	6·3	5·0	93	82	29	12	27	3	1 ⌐	1	—		Fine and clear.
5	991·4	993·0	66·2	68·3	*n* 73	*n* 65	3·0	4·1	88	92	—	0	—	0	4 ⌐	9 ⌐	—		Clear till 11 h., then c. ☂ 22 h.
6	992·5	989·3	73·6	75·0	76	67	5·6	7·0	88	100	—	0	15	2	10 ≡ ⁰	10 ≡ ● 0	3·1		o. and damp *a.* ≡ *p.*
7	985·5	981·6	76·4	75·2	77	74	7·7	6·9	99	97	—	1	—	0	10 ≡ ⋮	10	8·2		≡ ² all *a.* ● ≡ 0 *p.*
8	978·1	975·1	75·2	72·0	77	70	6·5	5·7	91	100	—	1	—	0	9	10 ≡ ⋮	—		Mostly o. ≡ 21 h.
9	966·5	960·7	72·6	77·1	78	70	5·3	7·5	90	92	4	4	6	7	10 ⌐	10 ●	6·4		≡ early. ✳ 10 h.–11 h. 30 m. ● *p.*
10	964·1	960·7	73·9	75·7	77	74	6·3	6·8	96	91	31	2	32	2	10 ✳ ●	10 ● ᶜ	1·8		✳ ● (sleet) *a.* ● 0 *p.*
11	957·4	956·2	73·9	74·2	76	73	6·0	6·4	92	96	—	1	4	4	10	10 ≡ 0	0·7		Mostly o. ✳ *p.*
12	955·7	956·6	74·7	73·9	76	74	6·4	6·3	92	96	2	5	32	2	9 ● 0	8	5·0		☂ 7 h. ✳ and sleet 11 h. ☂ 21 h.
13	958·0	960·5	71·9	74·6	75	72	4·4	5·4	*n* 78	79	—	0	32	4	5 ⌐	9	—		☂ ⌐ early. Fine afternoon.
14	963·4	966·2	75·4	72·7	76	72	6·2	4·9	85	82	1	6	1	2	8	2	—		● shower 12 h. Fair to fine.
15	967·6	969·4	66·2	68·4	74	66	3·0	4·4	81	100	—	0	—	0	0 ⌐	3 ⌐	—		Fine.
16	975·6	981·5	70·4	74·2	75	69	4·1	6·2	81	93	31	3	1	5	3	2	—		Fine.
17	982·0	975·1	70·8	70·3	75	69	4·8	4·8	93	97	—	0	—	0	4	10 ≡ ⋮	4·5		Fine. ≡ *n.*
18	967·6	963·5	72·6	72·5	*n* 73	71	5·9	5·4	100	92	14	3	—	1	10 ✳ ≡ 0	9 ≡ 0	8·2		≡ early. ✳ ≡ 0 ☒ (2 cm.).
19	960·8	962·1	71·4	71·9	*n* 73	71	4·9	5·2	90	91	—	1	—	1	10 ≡ 0	10	0·7		✳ till 9 h. ≡ ☒ (13 cm.).
20	960·7	949·7	73·2	74·5	75	72	5·8	6·3	93	92	13	4	14	9	10	10 ● ✳	8·7		✳ ≡ 0 ☒ (14 cm.).
21	951·7	951·4	73·9	73·2	75	71	6·3	5·4	96	87	17	4	20	9	9	0	4·5		☒. Mostly o. < 18 h.
22	956·5	964·6	75·5	73·8	76	72	5·7	5·9	*n* 78	92	22	7	17	5	8	? 5 ≡ 0	6·4		✳ early. ☒. Fine.
23	957·4	964·0	73·6	70·8	74	70	6·0	4·1	94	80	—	0	23	3	10 ● ✳	1	4·6		o., with ✳ ≡ 0. ☒
24	974·9	973·9	71·5	75·0	77	70	5·0	6·5	91	93	—	1	17	3	10	9	2·4		☒. Mostly o. Rapid thaw.
25	966·7	970·3	74·5	74·7	76	73	6·0	6·1	88	88	17	6	20	10	10	5	4·9		☒. ✳ from 12 h.–14 h.
26	975·6	982·5	75·9	75·1	77	74	6·4	5·5	85	*n* 78	26	11	—	1	2	0	—		☒. o. to fine.
27	988·6	989·7	68·4	74·4	75	68	4·4	6·2	100	91	—	0	17	4	5 ⌐	7	3·0		☒. o., with ● ≡ 0.
28	982·2	973·1	77·1	81·6	82	75	7·9	10·9	97	98	18	13	18	9	10 ● ≡ 0	10 ●	*x* 40·6		o., with continuous ●.
29	973·8	973·3	81·0	79·9	82	*x* 80	10·6	8·8	99	89	17	7	20	9	10	8	9·1		● from 9 h. Fair from 20 h.
30	974·3	979·6	78·5	78·7	80	78	7·8	8·2	86	90	23	7	21	12	10	5 ●	8·4		o. q. ● showers *p.*
31	982·4	985·7	81·0	82·3	*x* 83	*x* 80	8·3	11·1	*n* 78	96	24	11	21	8	9	10 ● 0 ≡ 0	7·3		Fine to o. c. *a.* ● 0 ≡ 0 *p.*
Means	973·1	973·0	73·9	74·4	76·6	71·6	6·0	6·3	90	91		3·8		4·0	7·8	6·5	140·2	—	**Monthly Totals or Means.**
Normal 1911-15	975·1	975·1	75·8	76·1	78·4	73·4	6·8	6·9	89	89		6·3		6·5	—	—	217·8	—	**Normals.**

No record.

Temperatures at or below the normal freezing point of water are printed in small type.

5. Atmospheric Electricity and Terrestrial Magnetism :—Richmond (Kew Observatory).

* The mean values of the Potential gradient in Table 5 are for 25 days; they are computed from the data for those days on which values at each of the four hours, 3h, 9h, 15h, 21h, are given in the table. A similar note applies to the values in Table 6.

x denotes the maximum and *n* the minimum value in the column. *z* Indeterminate.

Day.	Remarks.	Potential Gradient, Volts per metre. Factor 2·53.				Charge per cc. ×10¹⁶.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	Horizontal Force.		Declination (West).		Inclination (North).	
		3 h.	9 h.	15 h.	21 h.	+.	−.	About 15 h.			Mean Time.		Mean Time.		Mean Time.	
		v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².			h m	γ	h m	° ′	h m	° ′
1	Dull, with ≡.	285	325	325	325	·80	·63	0·20	0	2	...	...	...	...	...	...
2	Dull and o. throughout.	300	340	495	470	...	...	...	0	2	...	...	...	...	...	...
3	Dull, with ≡⁰ till 17 h. Fine *n*.	240	255	155	440	...	...	...	0	1	...	...	...	...	...	...
4	⌙ till 10 h. Fine.	370	555	325	425	·32	·46	0·35	0	1	...	...	...	...	...	...
5	⌙ early. Fine to fair. ●⁰ 13 h.	340	495	200	540	·76	·32	0·30	1	0	...	...	...	...	...	...
6	⌙ early. Fair to dull. ≡⁰ all day.	340	425	525	425	·57	·40	0·35	0	0	...	...	...	...	...	...
7	Mostly dull. ≡ 18 h.–21 h. ●⁰ 19 h.	340	510	555	455	·68	·38	0·50	1	1	11 10	18448	14 23	15 6·1	14 27	66 57·8
8	● early. ⊕ 15 h. ≡ 18 h. and *n*.	340	440	...	655	·36	·49	...	1	0	...	...	...	...	...	...
9	≡² 1 h. ● 1 h.–3 h. and 4 h.–9 h.	−55	170	540	1065	...	...	...	2	1	...	...	...	...	...	...
10	● early. Dull to fair. ●⁰ *p*. ≡ 21 h.	680	880	580	595	...	...	...	1	0	...	...	...	...	...	...
11	● 7 h.–9 h. ≡ most of day.	555	*z* ±	755	850	·36	·32	0·25	1	0	...	...	...	...	...	...
12	Dull and o., with ≡⁰.	555	765	510	455	·68	·23	0·80	1	1	...	...	...	...	...	...
13	Mostly dull. ≡ *n*.	340	570	525	625	·51	·44	0·55	0	1	...	...	...	...	...	...
14	≡⌙ all day. Gloomy and cold.	1320	1635	510	710	...	...	...	0	0	11 27	18455	...	...	14 29	66 54·8
15	✳ *a*. ⊠ 9 h. (11 mm.). ≡⁰ all day.	85	425	665	655	·53	·57	0·15	1	2	...	...	14 28	15 7·0	...	...
16	≡²⌙ all day. Very cold.	865	935	895	1195	...	...	...	0	1	...	...	...	...	...	...
17	≡⌙ till 11 h., ≡⁰ later.	...	...	400	425	...	...	...	0	1	...	...	...	...	...	...
18	⌙ early and *n*. Dull and o.	300	425	595	640	·32	·38	0·55	0	1	...	...	...	...	...	...
19	⌙ early. ✳⁰ 9 h. Dull *a*. Fair *p*.	910	*z* ±	540	795	·44	·25	0·30	1	0	...	...	...	...	...	...
20	⌙ *a*. Fair *a*. ●⁰ 19 h.	510	540	595	215	...	...	0·60	1	0	...	...	...	...	...	...
21	Dull, with ● *a*. Fine *n*.	130	−215	−45	470	...	...	...	2	0	11 14	18448	14 30	15 4·3	14 27	66 56·5
22	≡ 7 h.–11 h. Fair to fine. ≡⌙ *n*.	310	385	370	580	·27	·55	0·50	1	0	...	...	...	...	...	...
23	≡ 8 h.–10 h. ● at times. Dull.	*z* −	525	−485	340	...	...	...	2	0	...	...	...	...	...	...
24	⌙ early. Fine to fair.	200	625	525	825	...	...	...	0	0	...	...	...	...	...	...
25	● 3 h.–8 h. ✳● (sleet) 6 h.	−130	400	340	765	...	...	...	2	1	...	...	...	...	...	...
26	≡⌙ *a*. ≡ *p*. ≡²⌙ *n*.	740	640	540	−370	·51	·25	0·15	1	1	...	...	...	...	...	...
27	≡²⌙ all day.	1365	1560	1250	1915	·32	·57	0·10	0	1	...	...	...	...	...	...
28	≡⌙ *a*. Dull *p*. ● *n*.	1705	1420	595	140	·36	·30	0·30	0	1	11 20	18453	14 29	15 5·1	14 17	66 57·4
29	● 1 h. Dull. ● 16 h.–17 h.	45	...	...	...	...	...	...	0	1	...	...	...	...	...	...
30	● 4 h.–6 h. Dull to fine.	225	410	340	410	...	...	...	1	1	...	...	...	...	...	...
31	Dull to fair. ● 17 h.	140	225	340	285	...	...	...	1	1	...	...	...	...	...	...
M.		460*	588*	490*	570*	—	—	—	—	—	—	—	—	—	—	—

6. Atmospheric Electricity and Terrestrial Magnetism :—Eskdalemuir.

Day.	Potential Gradient, Volts per metre.* Factor 5·20.				Charge per cc. ×10¹⁶.		Air-Earth Current. ×10¹⁶.	Electric Character of Day.	Magnetic Character of Day.	North Component.				West Component.				Vertical Component.			
					+.	−.				Maximum. 15000 γ+.		Minimum. 15000 γ+.		Maximum. 4000 γ+.		Minimum. 4000 γ+.		Maximum. 45000 γ+.		Minimum. 45000 γ+.	
	3 h.	9 h.	15 h.	21 h.	About 15 h.		About 15 h.			h m	γ	γ	h m	h m	γ	γ	h m	h m	γ	γ	h m
	v/m.	v/m.	v/m.	v/m.	Coulomb.		Amp/cm².														
1	*z*	147	490	511	...	...	...	2 *c*	2	{18 34 / 18 50}	1015	897	13 12	12 11	*x*1048	903	20 29	17 43	*x* 166	73	23 10
2	553	378	371	427	...	...	...	1 *b*	2	21 5	1008	896	10 3	2 57	1031	914	17 51	17 40	146	59	3 26
3	210	126	210	203	...	...	...	1 *a*	1	21 16	*x* 1070	*n* 883	13 58	21 21	1038	960	23 9	14 4	121	*n* 48	1 0
4	238	343	336	357	...	...	...	0 *a*	1	23 25	994	937	13 51	13 1	1014	962	16 2	15 52	120	81	2 55
5	315	280	434	350	...	...	...	0 *a*	0	23 46	1003	941	11 43	14 7	1012	963	19 21	19 40	106	89	1 12
6	217	−70	427	518	...	...	...	1 *a*	0	21 15	1018	944	11 30	14 3	1014	968	21 27	14 19	101	86	1 55
7	357	623	357	273	...	...	...	2 *c*	0	19 44	1008	954	{20 50 / 21 16}	5 12	1012	954	20 20	{19 30 / 0}	106	91	5 30
8	70	266	406	798	...	...	...	1 *b*	0	6 12	1013	951	{14 6 / 14 10}	5 50	1034	991	20 30	15 7	112	79	6 18
9	315	448	−567	−280	...	...	...	2 *c*	0	17 20	1000	941	16 54	12 28	1027	947	17 6	17 7	112	85	2 33
10	420	84	238	−203	...	...	...	2 *b*	0	24 0	996	952	11 17	{13 5 / 14 40}	1017	972	22 2	16 10	100	82	4 27
11	189	252	315	315	...	...	...	1 *a*	0	0 9	1005	961	14 50	12 42	1023	965	23 33	14 30	95	80	0 25
12	119	84	308	91	...	...	...	1 *b*	1	21 51	1027	950	9 30	12 8	1033	946	23 51	21 0	106	65	5 12
13	210	700	...	637	...	...	...	0 *a*	1	2 43	1020	956	2 24	13 23	1016	945	3 16	0 0	102	76	4 22
14	427	217	308	371	...	...	...	1 *b*	1	22 39	1028	960	17 3	13 12	1020	977	23 49	19 50	101	80	10 20
15	357	287	427	399	...	...	...	0 *a*	2	20 26	1063	925	12 56	5 18	1040	*n* 868	20 18	{16 27 / 20 5}	114	66	5 48
16	196	133	147	70	...	...	...	1 *a*	1	{18 4 / 22 51}	997	924	11 11	12 6	1024	957	1 6	14 50	108	83	5 28
17	217	119	378	539	...	...	...	0 *a*	1	17 48	993	936	19 13	5 45	1011	936	17 40	17 40	107	83	6 12
18	*z*	539	112	420	...	...	...	1 *b*	0	22 53	1024	944	14 43	16 40	1010	930	22 45	15 3	99	85	1 45
19	119	217	728	609	...	...	...	1 *b*	0	22 4	996	967	21 13	12 42	1015	963	21 50	21 28	97	87	9 40
20	350	140	*z*	*z*	...	...	..	2 *c*	0	18 30	991	967	{22 11 / 22 20}	10 8	1010	968	4 46	22 15	98	78	4 23
21	*z*	238	264	336	...	...	...	1 *b*	0	18 52	989	962	1 31	12 13	1009	976	2 12	0 27	95	86	6 50
22	*z*	259	343	623	...	...	...	1 *b*	0	22 39	996	978	10 42	12 22	1004	988	0 40	11 0	92	87	5 43
23	133	168	840	420	...	...	...	1 *b*	0	7 30	991	977	0 17	...	...	...	...	11 0	91	85	{6 15 / 9 30}
24	987	182	217	273	...	...	...	1 *b*	0	{8 10 / 8 24}	1005	975	{20 8 / 20 28}	...	...	...	...	19 6	92	82	12 50
25	427	385	168	210	...	...	...	1 *c*	1	5 54	994	927	20 42	...	...	...	...	21 0	117	84	9 0
26	273	154	413?	259	...	...	...	1 *a*	0	23 49	1008	955	21 57	23 54	1027	954	21 23	22 20	106	88	9 5
27	434	371	966	889	...	...	...	0 *b*	1	5 20	1000	913	15 19	12 4	1034	960	23 35	15 40	135	87	9 30
28	14	−98	*z*	*z*	...	...	...	2 *c*	1	20 46	1047	938	21 49	10 32	1018	940	20 34	{13 47 / 18 25}	103	73	21 42
29	126	42	−189	105	...	...	...	1 *b*	0	4 59	994	948	0 34	{13 0 / 13 5}	1008	946	1 59	21 55	107	76	0 58
30	140	7	133	−133	...	...	...	2 *c*	1	20 52	1036	932	9 57	12 36	1014	902	20 46	20 39	118	89	24 0
31	70	84	77	35	...	...	...	1 *a*	1	21 55	1030	934	11 50	12 36	1021	895	21 40	17 46	118	77	1 2
M.	288*	216*	310*	287*	—	—	—	—	—	—	1012	943	—	—	1021†	948†	—	—	109	80	—

* 24 days. *See* note above. † 28 days.

7. Seismological Diary.

Earthquakes:—Eskdalemuir.

Day.	Phase.	Time, G.M.T.	Period.	Amplitudes. A_N.	Amplitudes. A_E.	Amplitudes. A_Z.	Δ.	Remarks.
		h m s	s	μ	μ	μ	km.	
2		12 50 to	...	...	...	...	...	Prolonged slight disturbance.
		14 50	...	...	...	...	...	
2	L	0 0 to	...	...	...	...	..	
		0 15	22	...	...	...	...	
5	L	22 24 to	...	...	...	...	...	
		22 48	...	...	...	...	..	
6		22 29 to	...	...	...	...	...	Slight disturbance. No well-marked phases, except a few long waves about 22 h. 41 m.
		23	...	...	...	...	...	
	L	22 41	...	...	...	...	...	
14	P	17 4 9	...	...	...	...	...	No well-marked long waves.
	S	17 13 40	...	...	...	...	...	
	M	17 18 56	...	?	...	...	...	
	F	18 45	...	...	...	...	...	
23	P	9 37 49	...	...	...	...	10870	
	PR_1	9 41 51	...	...	...	...	...	
	S	9 49 25	...	...	...	...	...	
	SR_1	9 55 55	...	...	...	...	...	
	L	10 12½	...	...	...	...	...	
	M	10 17 18	19	11	...	...	...	
	M	10 19 23	16	...	10	...	...	
	F	11 40	...	...	...	...	...	
24		8 25 to	...	...	...	..	...	Faint disturbance.
		8 40	...	...	...	..	...	
26	L	5 4 to	...	...	...	...	...	Part of slight disturbance. Preliminary phases masked by wind effects.
		5 17	...	...	...	...	...	
26	L	21 21 to	...	...	...	...	...	
		21 28	...	...	...	...	...	
27		22 10 to	...	...	...	...	...	Slight disturbance. Preliminary phases inconspicuous.
		23 15	...	...	...	...	...	
	L	22 56	19	...	...	...	...	

Microseisms of N. Component:—Eskdalemuir.

Day.	0 h. A_N.	0 h. T.	6 h. A_N.	6 h. T.	12 h. A_N.	12 h. T.	18 h. A_N.	18 h. T.
	μ	s	μ	s	μ	s	μ	s
1	1·6	6·5	2·2	6·5	2·2	6·5	1·5	7
2	1·6	6	1·7	6	1·1	6	0·9	5·5
3	1·3	5·5	0·9	5	1·1	5	1·1	5
4	0·9	5	0·9	5	0·7	4·5	0·5	5
5	0·8	4·5	0·6	5·5	0·8	5	0·4	5·5
6	0·6	5	0·5	6	0·8	5	0·8	5·5
7	0·8	5	0·9	5	0·9	5	0·7	5·5
8	*	*	*	*	0·9	5	0·9	5·5
9	0·8	6	0·8	5·5	1·2	5·5	1·0	5
10	1·3	5	1·8	5	1·5	6	1·0	5·5
11	1·2	5	0·9	6	0·8	6·5	0·9	6
12	0·9	6	0·9	6	1·1	6	0·9	6·5
13	1·1	6	0·8	5·5	0·8	6	0·8	5·5
14	0·9	5	0·7	6	1·0	6·5	? Earth	quake.
15	1·5	7	1·5	6	1·2	6	1·0	6
16	0·9	5·5	0·9	5	0·8	5	0·7	6
17	0·5	5	0·5	5	0·6	5·5	0·4	6
18	0·5	5	0·6	6	0·7	5·5	0·5	6
19	0·9	5·5	1·2	5·5	1·5	6	2·5	5
20	2·3	6	2·1	5·5	1·8	6	1·9	6
21	2·2	5	2·5	5·5	2·0	6	1·8	5·5
22	2·0	6	2·2	6	2·1	5·5	1·5	6·5
23	1·8	5	1·0	6	2·2	5·5	2·3	6
24	2·3	6	2·2	6	1·7	5·5	1·1	6·5
25	1·1	6·5	0·9	6	1·0	5	1·4	5
26	1·4	5	1·0	5	*	*	*	*
27	*	*	*	*	0·4	4·5	0·3	4·5
28	0·7	4·5	0·7	5	0·9	4·5	0·8	6
29	1·4	6	1·1	6	1·2	6	1·1	5·5
30	1·0	6	1·7	6·5	2·2	5·5	1·0	6
31	1·7	5·5	1·7	5·5	1·2	5	0·9	5·5

* No trace.

Earthquakes:—Richmond (Kew Observatory).

Day.	Times, G.M.T. of Commencement.	Times, G.M.T. of Max. Phase.	Remarks.
	h m	h m	
2	...	13 42	All the disturbances of the month were very small, with the exception of that on the 23rd.
5	...	22 45	
14	...	17 48	
23	9 49	10 20	
24	...	8 33	
26	5 5	5 11	
,,	...	21 31	
27	...	22 59	

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

NORTH WALES:—HOLYHEAD.

Height of Head above—Roof 8·8 m., Ground 13·7 m., M.S.L. 19·2 m.
Height of Cups above—Roof 4·6 m., Ground 7·6 m., M.S.L. 15·2 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	6·6	...	...	...	5·5	...	1·1	...	2·0	...	...	0·4	0·9	...	...	0·4	12·2	2	45
2	0·6	...	...	0·3	1·5	...	...	0·6	...	0·4	2·0	...	0·8	...	1·8	...	7·5	24	0
3	...	4·3	...	...	...	7·1	4·7	...	...	7·4	7·4	...	...	9·0	6·0	...	16·8	17	45
4	...	10·9	4·5	...	...	9·6	...	1·9	...	8·5	..	3·5	...	7·7	1·5	...	17·1	4	30
5	...	6·4	2·6	...	...	1·6	...	1·6	...	...	...	2·3	...	...	...	2·3	12·0	1	25
6	1·3	...	...	1·9	1·8	...	...	1·8	3·2	...	0·6	...	3·2	...	0·6	...	7·6	22	45
7	3·6	...	1·5	...	2·1	...	0·9	...	2·9	...	4·3	...	...	6·3	6·3	...	12·5	21	15
8	...	4·7	4·7	...	...	4·0	4·0	...	...	0·3	1·6	...	4·8	...	...	2·0	11·7	5	10
9	4·0	...	...	6·0	2·3	...	...	11·6	5·6	...	...	5·6	4·6	...	...	6·8	15·8	17	55
10	...	...	...	9·8	...	1·7	...	8·3	...	2·6	...	6·4	...	...	...	1·3	15·2	11	35
11	...	...	...	1·6	...	...	...	2·3	0·6	...	...	3·2	0·7	...	...	3·5	10·5	23	40
12	...	1·2	...	6·1	...	0·8	...	4·2	...	...	...	0·7	...	0·8	...	1·8	11·2	5	30
13	...	1·7	1·1	...	...	...	...	3·9	0·4	...	...	0·9	0·5	...	...	1·2	8·0	8	30
14	...	...	...	3·3	...	10·0	...	2·0	...	11·2	...	4·6	...	9·1	...	3·8	16·2	14	10
15	...	5·5	...	3·7	...	4·0	...	1·6	...	1·0	...	0·2	...	0·9	2·1	...	9·8	0	5
16	...	0·5	1·2	...	1·6	...	...	...	1·8	...	0·8	...	1·6	...	...	0·3	5·5	11	50
17	2·0	...	...	0·4	2·0	...	...	0·4	1·3	...	...	0·3	1·9	...	...	1·3	6·5	19	40
18	1·7	...	2·5	...	3·5	...	3·5	...	6·8	...	...	1·3	...	...	...	4·6	13·7	12	45
19	...	3·3	7·9	...	...	...	3·6	...	1·6	...	4·0	...	1·1	...	2·8	...	12·1	2	5
20	5·2	...	...	2·1	9·2	...	...	6·2	11·8	...	...	4·9	5·4	...	8·1	...	22·8	12	20
21	4·7	...	4·7	...	0·9	...	1·3	...	...	1·2	6·1	...	1·1	...	5·5	...	13·2	2	20
22	2·6	...	6·4	...	1·3	...	6·5	...	3·5	...	3·5	...	7·1	...	1·4	...	15·3	20	5
23	4·8	...	...	1·0	1·0	...	...	0·2	...	3·1	15·4	...	...	3·9	19·6	...	27·7	20	5
24	1·2	...	5·8	...	4·9	...	7·4	...	4·0	...	6·0	...	7·9	...	...	...	18·0	0	5
25	7·2	...	...	...	6·6	...	...	...	...	...	13·1	...	2·0	...	10·3	...	19·9	17	20
26	1·5	...	7·7	...	...	2·0	4·8	...	...	1·4	2·2	...	...	0·3	0·3	...	15·2	3	45
27	...	1·6	0·3	...	...	1·6	0·3	...	4·3	...	...	...	7·2	...	...	...	14·0	21	55
28	9·2	...	...	...	9·3	...	1·9	...	9·4	...	3·9	...	6·0	...	6·0	...	18·3	9	25
29	6·0	...	6·0	...	5·1	...	5·1	...	2·9	...	4·3	...	4·7	...	4·7	...	15·5	11	0
30	4·2	...	4·2	...	2·0	...	10·0	...	3·0	...	7·3	...	5·3	...	5·3	...	19·0	7	25
31	5·1	...	7·6	...	4·0	...	6·0	...	4·0	...	6·0	...	4·4	...	6·6	...	15·4	2	30
S+N & W+E	111·6		104·9		107·0		107·7		106·2		122·8		109·2		118·2				
S−N & W−E	31·4		32·5		22·2		14·5		32·0		54·2		33·2		62·2				

SCOTLAND N.:—DEERNESS.

Height of Cups above—Roof 1·5 m., Ground 4·9 m., M.S.L. 57·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Vel. in Max. Hourly Run.	Time of Max.
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.		
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	hrs.
1	5·5	...	2·3	...	4·8	...	2·0	...	6·4	...	...	2·6	8·3	...	...	1·7	9·8	22
2	8·7	...	...	1·7	4·5	...	1·9	...	...	...	1·6	...	1·0	...	2·4	...	8·9	1, 2, 3, 4
3	3·7	...	3·7	...	...	2·5	6·1	...	...	2·5	6·1	...	...	12·1	5·0	...	13·1	21
4	...	12·4	5·1	...	...	11·6	4·8	...	...	7·3	3·0	...	...	3·6	2·4	...	14·8	2
5	...	0·6	0·4	...	6·9	...	...	...	7·2	...	...	...	7·7	...	1·5	...	10·2	13
6	6·1	...	1·2	...	5·5	...	2·3	...	2·4	...	1·0	...	4·5	...	1·9	...	7·2	4
7	...	...	2·3	...	1·0	...	2·4	...	...	...	1·3	...	...	...	0·7	...	3·9	19
8	...	0·2	1·0	...	0·8	...	1·8	...	0·6	...	1·5	...	0·5	...	1·1	...	4·6	11
9	0·3	...	0·6	...	1·1	...	...	2·8	...	4·4	...	6·6	...	6·0	...	6·0	8·5	21
10	...	4·9	...	7·4	...	3·5	...	8·5	...	5·1	...	5·1	...	4·7	...	3·1	10·5	6
11	...	4·2	...	6·2	3·3	...	...	3·3	2·8	...	...	2·8	1·7	...	...	1·1	9·2	5
12	...	0·6	...	3·2	...	2·0	...	4·8	...	3·2	...	2·2	...	7·4	...	1·5	9·5	24
13	...	11·3	2·2	...	...	11·9	2·4	...	..	9·7	4·0	...	...	11·6	2·3	...	13·4	11
14	...	6·7	2·8	...	...	7·6	3·1	...	...	3·8	2·6	...	...	2·1	2·1	...	8·5	5, 8
15	...	1·3	1·9	...	...	0·4	0·9	...	...	0·6	...	1·5	2·7	...	...	1·8	4·6	24
16	2·4	...	...	3·6	...	1·1	...	5·5	0·4	...	...	2·3	...	0·3	1·6	...	6·2	10
17	...	1·6	1·6	...	...	3·0	1·3	...	0·5	...	2·6	...	0·5	...	0·5	...	4·9	7, 8
18	0·9	...	...	0·9	...	1·0	...	5·1	4·9	...	...	3·3	2·1	...	...	2·1	6·2	19
19	1·4	...	...	2·2	2·1	...	...	5·2	0·3	...	...	1·3	...	...	...	4·9	9·5	24
20	3·3	...	...	3·3	4·9	...	...	3·3	6·3	...	...	6·3	5·4	...	...	13·0	17·7	23
21	9·1	...	...	13·6	12·0	...	...	8·0	11·6	...	...	4·8	4·3	...	...	2·9	16·4	3
22	1·1	...	0·7	...	2·0	...	3·0	...	3·5	...	8·5	...	4·7	...	7·1	...	13·4	19
23	10·6	...	...	2·1	9·0	...	...	1·8	6·9	...	...	...	6·5	...	1·3	...	12·1	5
24	3·5	...	3·5	...	4·1	...	2·7	...	8·5	...	...	...	7·1	...	1·4	...	8·5	15, 17
25	7·9	...	...	...	10·0	...	...	2·0	10·9	...	...	2·2	2·6	...	3·8	...	11·1	10, 15, 16, 17
26	1·1	...	2·8	...	...	...	3·3	...	...	1·9	4·5	...	...	1·9	4·5	...	7·2	11, 12
27	2·1	...	5·2	...	...	0·3	1·6	...	0·7	...	1·1	...	6·9	...	...	...	8·2	22
28	8·3	...	...	1·7	11·2	...	...	4·6	9·2	...	...	...	3·8	...	2·6	...	12·1	9
29	5·5	...	2·3	...	3·0	...	...	...	6·8	...	1·3	...	4·9	...	4·9	...	7·5	4, 18, 22
30	5·5	...	2·3	...	4·9	...	4·9	...	8·3	...	8·3	...	2·2	...	10·9	...	14·4	16
31	2·4	...	5·7	...	...	1·1	5·6	...	...	1·3	6·5	...	1·7	...	2·5	...	7·5	13, 14
S+N & W+E	133·2		93·5		137·1		104·9		138·0		94·9		128·8		98·6			
S−N & W−E	45·6		1·7		45·1		−4·9		58·4		12·9		29·4		22·4			

ENGLAND S.W.:—SCILLY.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	4·1	...	...	0·8	3·5	...	...	3·5	6·2	...	...	6·2	4·5	...	...	4·5	11·0	15	40
2	3·7	...	...	5·6	2·2	...	...	5·4	3·4	...	...	8·1	2·3	...	...	3·5	11·0	15	40
3	...	...	...	2·1	...	6·2	...	2·6	...	7·7	...	3·2	...	6·3	...	...	12·6	12	0
4	...	4·5	...	0·9	...	7·0	...	1·4	...	6·7	...	...	...	5·0	...	...	13·8	6	50
5	...	6·3	...	...	...	4·6	1·9	...	...	3·1	1·3	...	...	...	...	4·2	9·0	22	5
6	1·0	...	...	2·3	0·5	...	...	1·2	...	0·8	...	1·9	...	1·5	...	1·5	5·2	0	25
7	...	0·6	...	0·6	...	0·3	...	0·3	1·3	...	3·1	...	...	...	5·0	...	10·6	23	50
8	...	5·3	5·3	...	...	1·9	0·8	...	2·3	...	...	1·0	3·5	...	...	1·5	21·0	23	45
9	...	9·7	14·5	...	...	13·6	13·6	...	...	4·3	10·4	...	...	...	11·7	...	28·8	4	30
10	...	1·8	9·0	...	...	...	1·3	...	...	2·1	...	5·0	...	1·8	...	4·3	20·5	0	55
11	...	2·8	0·6	...	...	7·5	...	...	...	1·3	6·6	...	...	3·8	3·8	...	14·3	1	25
12	...	1·6	0·7	...	...	3·0	...	3·0	...	2·5	...	0·5	...	4·3	1·8	...	10·7	22	35
13	...	7·6	7·6	...	...	7·3	4·9	...	...	2·7	2·7	...	...	1·0	...	2·3	13·0	2	45
14	...	1·2	...	6·2	...	3·4	...	8·1	...	7·3	...	3·0	...	7·7	...	3·2	16·2	16	5
15	...	8·3	...	...	...	3·0	3·0	...	1·8	...	1·8	...	0·8	...	1·9	...	15·8	0	50
16	1·6	...	...	2·4	...	2·6	...	3·8	...	1·9	4·6	4·6	...	1·1	...	5·3	8·5	22	5
17	...	1·1	...	5·3	...	...	...	4·6	...	...	...	2·1	...	...	...	1·3	8·9	1	15
18	...	...	...	0·4	...	...	2·1	...	1·5	...	3·5	...	3·5	...	8·5	...	17·1	21	40
19	...	7·3	5·0	...	...	1·5	3·5	...	1·5	...	3·5	...	5·0	...	2·1	...	13·3	0	20
20	5·0	...	2·1	...	12·3	...	5·1	...	4·5	...	10·8	...	...	0·9	4·5	...	19·0	10	35
21	...	2·5	...	...	...	5·3	1·1	...	1·3	...	3·1	...	...	1·8	9·0	...	17·5	18	45
22	2·7	...	6·6	...	...	3·8	9·2	...	...	...	5·0	...	7·1	...	...	...	16·0	7	10
23	...	3·8	...	3·8	...	6·4	15·4	...	...	6·4	15·4	...	...	4·8	11·6	...	30·1	12	20
24	...	1·8	9·0	...	1·8	...	1·8	...	9·8	...	...	2·0	9·4	...	...	6·3	15·1	18	20
25	...	3·5	1·5	...	...	5·1	12·3	...	...	2·7	6·6	...	...	0·9	0·9	...	19·0	8	35
26	...	2·1	...	...	...	...	...	7·9	...	1·3	...	6·8	...	...	...	5·4	13·0	11	45
27	1·3	...	...	3·1	1·0	...	...	2·3	3·5	...	...	3·5	5·8	...	...	...	7·5	0	10
28	7·4	...	1·5	...	5·9	...	5·9	...	7·1	...	7·1	...	2·4	...	11·9	...	15·0	22	40
29	4·6	...	11·2	...	5·1	...	12·3	...	4·5	...	10·8	...	...	...	6·3	...	18·7	8	20
30	...	2·0	9·8	...	...	5·3	12·8	...	...	1·6	8·1	...	...	...	10·0	...	16·8	11	15
31	...	...	9·6	...	...	...	10·0	...	...	2·1	10·3	...	...	1·6	8·1	...	16·0	16	0
S+N & W+E	104·2		94·4		120·1		161·1		103·2		152·6		87·2		140·4				
S−N & W−E	−42·4		27·4		−55·5		72·9		−5·8		56·8		3·4		53·8				

ENGLAND E.:—GREAT YARMOUTH.

Height of Head above—Roof 10·7 m., Ground 12·8 m., M.S.L. 15·9 m.
Height of Cups above—Roof 3·7 m., Ground 18·3 m., M.S.L. 22·3 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust (Gorleston).	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	1·1	...	1·1	...	4·4	...	...	4·4	2·0	...	...	3·0	2·3	...	...	5·5			
2	...	...	...	8·9	...	...	...	6·9	...	1·3	...	6·8	1·2	...	...	6·1			
3	0·4	...	...	2·0	...	1·9	1·3	...	...	0·8	3·8	...	...	...	2·6	...			
4	...	...	3·9	...	...	2·4	3·6	...	...	3·3	4·9	...	...	4·3	2·9	...			
5	...	5·5	2·3	...	...	6·0	...	6·0	...	3·9	...	9·4	...	2·1	...	10·6			
6	...	4·2	...	4·2	...	6·1	...	2·5	...	4·7	...	3·1	...	2·5	...	6·1			
7	...	2·7	...	4·1	...	2·1	...	2·1	...	1·1	1·1	...	...	0·6	1·5	...			
8	0·9	...	2·1	...	1·0	...	2·4	...	...	0·3	1·3	...	...	...	2·0	...			
9	...	...	3·0	...	10·4	...	...	7·0	9·4	...	...	3·9	2·1	...	...	0·9			
10	0·7	...	...	3·5	0·6	...	...	2·9	6·5	...	...	1·3	6·8	...	...	4·6	No	record.	
11	7·4	...	...	4·9	4·7	...	...	3·1	3·1	...	...	4·7	2·3	...	...	2·3			
12	2·4	...	...	1·0	...	...	...	5·6	...	1·3	...	6·5	...	1·8	1·8	...			
13	...	...	3·0	...	...	...	3·6	...	...	...	3·0	...	...	...	3·0	...			
14	0·5	...	2·6	...	0·6	...	1·5	...	...	0·1	0·3	...	...	0·3	1·3	...			
15	...	1·2	...	6·1	...	0·3	...	0·6	0·3	...	...	1·6	...	1·5	0·6	...			
16	...	0·9	2·1	...	...	0·6	3·2	...	...	0·4	2·3	...	...	0·6	2·9	...			
17	...	3·0	...	3·0	...	0·7	0·1	...	...	0·6	0·4	...	...	1·0	2·4	...			
18	...	1·0	2·4	...	...	0·5	1·2	...	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0			
19	...	0·3	0·6	...	...	0·3	0·6	...	4·3	...	...	...	0·2	...	1·0	...			
20	1·6	...	1·6	...	2·3	...	0·4	...	4·6	...	...	...	6·9	...	...	...	15·5	22	0
21	4·2	...	0·8	...	10·6	...	...	2·1	11·3	...	...	2·2	1·0	...	5·1	...	22·0	12	40
22	2·8	...	1·1	...	1·2	...	0·5	...	0·4	...	2·0	...	0·0	0·0	0·0	0·0	8·4	3	15
23	3·0	...	...	1·3	2·7	...	...	13·8	...	2·6	12·9	...	...	2·3	11·6	...	20·4	8	30
24	...	1·3	6·5	...	...	...	3·3	...	0·1	...	0·7	...	0·9	...	0·9	...	13·0	0	40
25	6·2	...	...	4·2	...	...	...	8·2	...	0·5	2·6	...	0·8	...	4·2	...	15·4	6	35
26	0·5	...	2·6	...	0·4	...	...	2·0	0·4	...	2·0	...	0·6	...	2·9	...	6·6	6	25
27	...	0·8	3·8	...	...	0·4	2·3	...	...	0·4	2·3	...	...	0·4	2·3	...	5·2	3	50
28	1·3	...	3·0	...	1·9	...	1·3	...	4·1	...	2·7	...	5·2	...	3·4	...	13·8	22	35
29	3·1	...	4·7	...	3·1	...	4·7	...	3·6	...	8·8	...	...	...	5·9	...	16·2	13	30
30	0·8	...	3·8	...	...	0·8	3·8	...	...	1·2	5·8	...	...	...	5·2	...	11·4	11	5
31	2·4	...	5·7	...	...	...	4·9	...	...	1·3	6·8	...	...	0·7	3·5	...	14·7	5	0
S+N & W+E	60·2		99·9		66·0		105·9		73·9		106·2		48·4		103·1				
S−N & W−E	18·4		13·5		21·8		−28·5		26·3		21·2		12·2		30·9				

9. Soundings with Pilot Balloons.

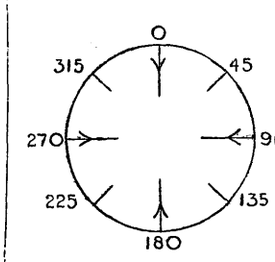
Day.	Station.	Time of Start, G.M.T.	Horizontal Velocity of Wind.														Cloud Observations.		
			Geostrophic.		By Anemometer.		At Heights above M.S.L.												
							500 m.		1000 m.		2000 m.		3000 m.		4000 m.		5000 m.		
			From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	From N.	m/s.	Type.	From N.	mr/s.
		h. m.	°		°		°		°		°		°		°		°			°	
4	S. Farnboro' .	7 40	340	11	325	4·0	345	14·5	355	11·5	345	12·5	345	10·5	...	...	...	...	...	...	...
5	,,	7 35	360	15	315	5·0	360	15·5	5	14·5	15	15·0	...	...	...	...	...	...	...	...	...
5	Eskdalemuir .	12 40	...	0	...	0·0	195	2·2	45	1·4	25	7·0	25	11·5	20	12·0	...	...	Ci.	5	4·3
6	S. Farnboro' .	7 40	50	10	...	0·0	40	12·5	40	11·5	55	8·0	50	12·5	...	...	...	...	...	...	...
7	,,	12 20	...	...	...	0·0	335	2·0	350	2·5	345	2·5	15	7·5	...	...	...	...	Ci.	360	...
8	Benson . .	12 0	290	5	270	1·0	315	5·5	315	6·0	300	9·0	...	...	...	...	...	...	Ci.-St.	315	...
9	S. Farnboro' .	9 50	210	14	180	4·5	220	11·0	220	11·0	185	15·5	...	...	...	...	...	...	...	...	...
11	Eskdalemuir .	12 40	...	...	35	1·0	85	1·7	85	4·0	105	6·0	...	...	...	...	...	...	A.-Cu.	120	3·9
11	S. Farnboro' .	14 40	...	0	...	0·0	110	4·5	135	7·5	130	9·5	...	...	...	...	...	...	..	...	...
13	Eskdalemuir .	12 45	340	8	335	5·0	355	9·0	360	7·5	345	7·5	345	7·5	...	...	...	...	Ci.-St.	45	1·7
15	,,	12 40	...	0	...	0·0	240	2·8	270	2·7	285	4·2	280	5·5	...	...	...	...	...	...	...
16	,,	12 45	...	...	...	0·0	85	4·2	100	5·5	100	3·0	140	1·8	130	3·6	135	2·5	...	...	...
19	S. Farnboro' .	12 55	250	6	290	4·0	300	9·5	265	9·5	265	9·5	...	...	...	...	...	...	Ci.	270	...
22	,,	7 55	200	12	...	0·0	250	7·0	255	8·5	255	8·5	...	...	...	...	...	...	...	...	...
22	Eskdalemuir .	12 45	270	16	225	6·0	270	7·5	280	14·0	285	25·0	...	...	...	...	...	...	Ci.	250	1·4
26	S. Farnboro' .	7 45	...	...	...	0·0	285	3·0	245	3·5	265	6·5	270	14·0	...	...	...	...	...	...	...
27	Eskdalemuir .	12 40	240	8	...	0·0	255	7·5	250	11·0	255	16·0	275	13·5	...	...	...	...	Ci.	275	4·0
28	S. Farnboro' .	8 5	220	12	...	0·0	205	12·0	240	10·5	255	11·5	...	...	...	...	...	...	A.-Cu.	180	...

Height of Station above M.S.L. = H.
Height of Anemometer above ground = h.

	H.	h.
Benson . . .	57 m.	25 m.
Eskdalemuir . .	242 m.	15 m.
S. Farnborough . .	70 m.	31 m.

Notes on Pressure Distribution.

December 4 7 h. Anticyclone over N.E. Atlantic. Depression over Denmark.
5 7 h. Anticyclone stretching westwards from Bay of Biscay. Depressions over Holland and to N. of Iceland.
6 7 h. Belt of high pressure running N.E. and S.W. over England.
7 7 h. Col. Depressions over N. Italy and Iceland.
8 7 h. Depression N. of Scotland. Shallow secondary over England.
,, 18 h. Another depression approaching S.W. Ireland.
9 7 h. Depression over St George's Channel.
11 7 h. and 18 h. Depression centred over S. of England, Wales, and N.E. Ireland.
13 7 h. Depression over North Sea.
15 7 h. } Irregular low pressure area over British Isles, France, and the North Sea.
16 7 h. }
19 7 h. Depression over N. of Ireland.
22 7 h. Depression off N. of Scotland. Slight secondary over Bristol Channel.
,, 18 h. Another secondary off W. of Scotland.
26 7 h. Weak belt of high pressure from France to Ireland. Depressions over Atlantic and the Faroes.
27 7 h. Anticyclone over England. Depression over Atlantic.
28 7 h. Anticyclone extending from Madeira to Germany. Depression S. of Iceland.



Wind Protractor.

10. Nephoscope Observations.

Aberdeen. Taken at 13 h. (1 p.m.) G.M.T.

Day.	Type of Cloud.	Velocity-height-ratio.				Remarks
		Degrees from N.	Milliradians per Second.	Components.		
				W.-E.	S.-N.	
		°	mr/s.	mr/s.	mr/s.	
7	St.-Cu.	218	6·3	+3·9	+ 5·0	Fused diffuse St.-Cu.
8	St.-Cu.	257	2·0	+1·9	+ 0·5	Normal type.
14	Cu.-Nb.	339	14·0	+5·0	−13·0	Measurement approximate; basal part measured.
15	St.-Cu.	210	3·1	+1·6	+ 2·7	Heavy type St.-Cu.
16	Cu.-Nb.	123	4·2	−3·5	+ 2·3	Degraded sheet of Cu.-Nb. bases.
19	St.-Cu.	150	5·0	−2·5	+ 4·3	St.-Cu., fusing into sheet.
22	Ci.	232	2·0	+1·6	+ 1·2	Diffuse Ci., "backing" as compared with St.-Cu. seen coming from W. earlier and later in day.
27	A.-St.	280	5·0	+4·9	− 0·9	Ci.-Cu. sheets had degraded and fused into A.-St.
30	A.-Cu.	255	3·0	+2·9	+ 0·8	False Ci. had massed into A.-Cu.

METEOROLOGICAL OFFICE OBSERVATORIES.

GEOPHYSICAL JOURNAL, 1916.

ANNUAL SUPPLEMENT.

Summary of the Records of Registering Balloons in 1916.

TEN balloons were sent up during the year, and nine were found. This is a very good proportion; it is partly fortuitous and partly due to the fact that no ascents were made on days when the conditions rendered it likely that the balloon might reach the sea. This policy was necessary owing to the scarcity of meteorographs and the impossibility of getting more made at that time.

All the ascents were from Benson, Oxfordshire. Latitude 51° 37′ N., longitude 1° 7′ W., height above M.S.L. 57 m. The station is close to the river Thames and at the foot of the Chiltern Hills.

The average height reached, 11·5 km., is very poor owing to the low quality of the balloons. Many attempts have been made to obtain better balloons, but without success. The average height reached in previous years was 16 km.

The ascents are fairly well distributed throughout the year, but their paucity renders the values of the average temperatures less reliable than in former years. The average height of the stratopause was 9·8 km.

MEAN TEMPERATURES, 1916.

Height in km.	10	9	8	7	6	5	4	3	2	1	Gd.
Temperature abs. .	221·1	223·7	228·5	235·7	242·9	250·6	257·7	265·6	271·3	277·1	281·2

Wt. 47527/444—400—7/18.—N. & Co., Ltd. Gp. XV.

Soundings with Registering Balloons, 1916.

No.	316.	317.	318.	319.	320.	321.	323.	324.	325.
Day.	March 1.	April 6.	May 4.	June 8.	July 6.	Sept. 6.	Nov. 7.	Nov. 10.	Dec. 7.
Start G.M.T.	16 h. 55 m.	18 h. 20 m.	18 h. 55 m.	19 h. 25 m.	19 h. 40 m.	18 h. 0 m.	15 h. 45 m.	13 h. 35 m.	15 h. 5 m.
H_t = Greatest Height	13·2 km.	7·0 km.	15·7 km.	10·0 km.	11·7 km.	13·3 km.	11·6 km.	10·9 km.	10·0 km.
T_t = Corresponding Temp.	212 a.	230 a.	217 a.	227 a.	225 a.	213 a.	223 a.	218 a.	212 a.
Place of Fall	Cirencester.	Church Broughton.	Spalding.	Dunstable.	Nordelph.	Wareham.	Brandon.	Oakley.	Petsworth.
Distance	56 km.	148 km.	136 km.	48 km.	145 km.	76 km.	148 km.	72 km.	77 km.
Bearing	280°	346°	30°	34°	40°	137°	53°	136°	117°
Geostrophic Wind. Time	18 h. G.M.T.	18 h.	18 h.	18 h.	18 h.	18 h.	18 h.	13 h.	18 h.
Geostrophic Wind. Speed	9 m/s.	3 m/s.	3 m/s.	3 m/s.	10 m/s.	indeterminate.	15 m/s.	indeterminate.	indeterminate.
Geostrophic Wind. Direction	130°	135°	135°	270°	200°		220°		
Wind. Speed	0	1 m/s.	2 m/s.	0	7 m/s.	2 m/s.	6 m/s.	7 m/s.	3 m/s.
Wind. Direction	—	60°	45°	—	160°	45°	190°	190°	360°
Upper Wind (*vide Geophysical Journal*).	p. 18.	...	...	...	...	...	p. 68.	...	...
Stratopause Type	III.	...	I.	III.	I.	I.	I.	I.	?
H_c = Height	9·6 km.	...	10·6 km.	8·5 km.	9·4 km.	12·0 km.	7·8 km.	10·6 km.	9·8 km.
P_c = Pressure	262 mb.	...	233 mb.	367 mb.	285 mb.	203 mb.	342 mb.	246 mb.	260 mb.
T_c = Temp.	213° a.	...	208 a.	227 a.	221 a.	212 a.	223 a.	218 a.	212 a.
(P_9) Pressure at 9 km.	278 mb.	...	303 mb.	294 mb.	303 mb.	318 mb.	284 mb.	311 mb.	294 mb.
(P_s) Pressure at M.S.L.	993 mb.	1017 mb.	998 mb.	1007 mb.	1009 mb.	1026 mb.	980 mb.	1024 mb.	1015 mb.
(T_m) Mean Temp. 1 to 9 km.	238 a.	...	256 a.	248 a.	254 a.	261 a.	247 a.	256 a.	246 a.

NOTES.

316. Value of H_c indefinite. Unusual case of E. wind strengthening above.
Pressure Distribution.—Shallow depression at the mouth of the Channel. A low pressure trough extending over to Norway. (18 h.)

317. Sky overcast. Light E. wind. Isothermal at 263 a. from 2·0 to 2·6 km.
Pressure Distribution.—Col over south of England. Lows over Iceland and the Mediterranean. Highs north of Azores and over the Baltic. (18 h.)

318. Overcast. Light S.E. wind. Signs of thunder in afternoon. Upper inversion unusually sharp, 5° in 100 m. and 11° in all.
Pressure Distribution.—Shallow depression over Bay of Biscay. Secondary over Shetlands. (18 h.)

319. Overcast. Clouds at 2 km. Very little wind. Very good trace, the lines crossing here and there.
Pressure Distribution.—Low over North Sea and Scandinavia, with a trough of nearly uniform depth extending to Algeria. (18 h.)

320. Overcast, rain in afternoon. Clouds at 0·5 km. Heavy rain at night. Very unusual differences between the up and down traces. The traces are quite distinct, and the difference is certainly genuine.
Pressure Distribution.—Low developing over south of Ireland. (18 h.)

321. Inversion 281 a. at 1·32 km. to 282 a. at 1·55 km. Clear, with light N.E. wind.
Pressure Distribution.—Anticyclonic ridge from the Azores to Denmark. (18 h.)

323. Clear in N.W. Shower in S. Heavy thunder shower at 13 h. 40 m. End of period of bad weather.
Pressure Distribution.—Cyclone centre to N. of Scotland and moving slowly eastward. Pressure differences within the 980 mb. isobar slight. (18 h.)

324. Inversion 279 a. at 1·0 km. to 280 a. at 1·5 km. Overcast, low clouds, wind S.
Pressure Distribution.—Anticyclonic ridge covering Spain and Central Europe. (18 h.)

325. *Pressure Distribution.*—Anticyclonic ridge extending from Central Europe to the Azores.

Soundings with Registering Balloons, 1916.

No.	316.		317.		318.		319.		320.		321.		323.		324.		325.	
Day.	March 1.		April 6.		May 4.		June 8.		July 6.		Sept. 6.		Nov. 7.		Nov. 10.		Dec. 7.	
Heights and Temperatures corresponding with Isobaric Surfaces.																		
Pressure.	H.	T.	H.	T.	H.	T.	H.	T.	H.	T.	H.	T.	H.	T.	H.	T.	H.	T.
Millibars.	km.	a.	km.	a.	km.	a.	km.	a.	km.	a.	km.	a.	km.	a.	km.	a.	km.	a.
100	—	—	—	—	16·02	217	—	—	—	—	—	—	—	—	—	—	—	—
200	11·14	214	—	—	11·60	216	—	—	11·72	225	12·04	212	11·30	223	—	—	—	—
300	8·53	215	—	—	9·05	223	8·86	227	9·07	224, 222	9·39	230	8·63	224	9·24	227	8·81	218
400	6·67	226	6·92	231	7·12	240	6·94	232	7·12	242, 238	7·40	245	6·74	232	7·27	243	6·93	232
500	5·13	236	5·38	242	5·52	254	5·39	242	5·53	254, 249	5·76	258	5·19	245	5·64	254	5·38	243
600	3·83	247	4·05	250	4·13	263	4·06	253	4·15	264, 258	4·37	268	3·83	256	4·25	264	4·07	254
700	2·72	257	2·91	260	2·93	272	2·90	262	2·95	272, 266	3·13	275	2·68	263	3·05	273	2·90	263
800	1·70	266	1·88	264	1·85	280	1·85	270	1·90	279, 274	2·06	280	1·64	269	1·97	278	1·87	268
900	0·79	271	0·97	271	0·87	287	0·93	277	0·93	284, 280	1·09	281	0·70	278	1·04	279	0·95	272
1000	0·06	—	0·13	277	—	—	0·06	283	0·07	287	0·22	288	—	—	0·20	282	0·12	275

H. = Height in kilometres above M.S.L.
T. = Temperature on the absolute scale.

Pressures and Temperatures at Given Heights.

Heights.	P.	T.	P.	T.	P.	T.	P.	T.	P.	T.	P.	T.	P.	T.	P.	T.	P.	T.
Kilometres.	mb.	a.	mb.	a.	mb.	a.	mb.	a.	mb.	a.	mb.	a.	mb.	a.	mb.	a.	mb.	a.
13	149	212	—	—	160	219	—	—	—	—	172	213	—	—	—	—	—	—
12	174	213	—	—	188	219	—	—	—	—	202	212	—	—	—	—	—	—
11	204	214	—	—	220	213	—	—	223	226	236	219	209	224	—	—	—	—
10	238	214	—	—	258	216	253	227	260	226	274	227	243	225	269	222	251	212
9	278	214	—	—	303	223	294	227	303	225, 222	318	234	284	226	311	228	294	216
8	324	216, 217	—	—	352	231	342	228	352	234, 230	367	240	330	223	360	234	342	224
7	379	222, 224	396	230	407	241	397	232	407	243, 239	422	248	385	230	416	244	398	232
6	441	228, 232	468	237	468	250	458	238	469	250, 245	484	256	446	239	477	250	459	239
5	511	235, 239	527	244	536	258	528	246	537	258, 252	552	263	513	247	547	257	530	247
4	587	244, 247	605	251	611	264	605	253	612	265, 259	628	270	587	255	624	265	608	255
3	673	253, 256	692	260	693	272	691	261	697	272, 266	712	276	670	261	708	273	692	262
2·5	720	259	738	263	737	275	738	265	742	274, 269	757	278	715	264	754	276	738	265
2	770	262, 264	788	263	785	279	786	269	790	278, 273	806	280	763	267	802	278	789	268
1·5	821	266	841	267	834	283	837	273	841	281, 277	857	282	814	271	853	280	840	270
1	877	268, 270	897	271	886	286	891	276	894	283, 280	909	282	867	276	905	279	895	272
0·5	933	273	955	274	940	290	948	280	950	286, 282	967?	285	922	280	965	279	953	273
G.L. 0·057	986	278	1008	277	990	288	1000	283	1002	287	1019	279	973	284	1017	283	1008	275

P. = Pressure in millibars.
T. = Temperature on the absolute scale.

Lapse Rates of Temperature between Given Heights.

Degrees Absolute per kilometre.

Kilometres.		A.	D.		B.		B.		B.		A.	D.		B.		B.		B.		B.
12 to 13	—	+ 1	—	—	—	—	0	—	—	—	—	—	—	− 1	—	—	—	—	—	—
11 to 12	—	+ 1	—	—	—	—	− 6	—	—	—	—	—	—	+ 7	—	—	—	—	—	—
10 to 11	—	0	—	—	—	—	+ 3	—	—	—	0	—	—	+ 8	—	+ 1	—	—	—	—
9 to 10	—	0	—	—	—	—	+ 7	—	0	—	− 1	− 4	—	+ 7	—	+ 1	—	+ 6	—	+4
8 to 9	—	+ 2	+ 3	—	—	—	+ 8	—	+1	—	+9	+ 8	—	+ 6	—	− 3	—	+ 6	—	+8
7 to 8	—	+ 6	+ 7	—	—	—	+10	—	+4	—	+9	+ 9	—	+ 8	—	+ 7	—	+10	—	+8
6 to 7	—	+ 6	+ 8	—	+7	—	+ 9	—	+6	—	+7	+ 6	—	+ 8	—	+ 9	—	+ 6	—	+7
5 to 6	—	+ 7	+ 7	—	+7	—	+ 8	—	+8	—	+8	+ 7	—	+ 7	—	+ 8	—	+ 7	—	+8
4 to 5	—	+ 9	+ 8	—	+7	—	+ 6	—	+7	—	+7	+ 7	—	+ 7	—	+ 8	—	+ 8	—	+8
3 to 4	—	+ 9	+ 9	—	+9	—	+ 8	—	+8	—	+7	+ 7	—	+ 6	—	+ 6	—	+ 8	—	+7
2·5 to 3	—	+12	+ 6	—	+6	—	+ 6	—	+8	—	+4	+ 6	—	+ 4	—	+ 6	—	+ 6	—	+6
2 to 2·5	—	+ 6	+10	—	0	—	+ 8	—	+8	—	+8	+ 8	—	+ 4	—	+ 6	—	+ 4	—	+6
1·5 to 2	—	+ 8	+ 4	—	+8	—	+ 8	—	+8	—	+6	+ 8	—	+ 4	—	+ 8	—	+ 4	—	+4
1 to 1·5	—	+ 4	+ 8	—	+8	—	+ 6	—	+6	—	+4	+ 6	—	0	—	+10	—	− 2	—	+4
·5 to 1	—	+10	+ 6	—	+6	—	+ 8	—	+8	—	+6	+ 4	—	+ 6	—	+ 8	—	0	—	+2
G.L. ·057 to ·5	—	+11	—	—	+7	—	− 4	—	+7	—	+2	+11	—	−13	—	+ 9	—	+ 9	—	+4

A. = Ascent. D. = Descent. B. = Ascent and Descent.

Notes on Seismological Work at Eskdalemuir Observatory during 1916.

Equipment.—The instrumental equipment remained the same as that detailed in previous issues of the Journal—viz., two horizontal Galitzin pendulums, one vertical Galitzin pendulum, and a Milne seismograph as arranged by Mr. J. J. Shaw. In addition to these there is also an Omori instrument and a Wiechert inverted pendulum; the former was in use throughout the year, but the latter was not in operation. The Galitzin instruments are those chiefly relied upon to give accurate results, the Milne-Shaw pendulum records being examined when necessary for special purposes.

The two horizontal Galitzin instruments were re-standardised in April 1916. The constants thus obtained show only inappreciable or negligible changes since the last standardisation. In consequence the tables for magnification and lag which were published in the Supplement for 1915 also hold good for 1916.

Earthquakes.—Excluding cases in which the displacement was very small, the total number of disturbances recorded during the year was 166. In 24 of these the epicentral distance was determined, and in five cases the geographical position of the epicentre was found from the indications of the Galitzin instruments alone.*

Microseisms of North Component.—The *Geophysical Journal* has published since January 1911 the amplitude and period of microseismic movements. For 1911 and 1912 the figures published are the mean of several readings during each day. For the remaining years they are given for 0 h., 6 h., 12 h., and 18 h. The mean values for each month of the amplitude (A.) and period (T.) are shown in the subjoined table. A. is given in terms of $\mu = \cdot001$ mm., and T. in seconds.

	1911.		1912.		1913.		1914.		1915.		1916.		Mean.	
	A.	T.	A.	T.	A.	T.	A.	T.	A.	T.	A.	T.	A.	T.
January . .	2·1	6·3	2·0	5·2	3·7	6·5	2·3	6·4	2·4	6·0	3·1	6·5	2·6	6·2
February .	2·1	6·0	1·6	5·1	3·1	6·7	3·2	6·2	2·8	5·7	2·3	6·4	2·5	6·0
March . .	1·2	5·5	1·4	5·2	3·0	6·3	2·1	5·7	1·6	5·5	1·2	5·3	1·8	5·6
April . .	1·1	5·5	0·7	4·8	1·1	5·4	1·4	5·6	2·0	5·9	1·4	5·6	1·3	5·5
May . .	0·6	5·3	0·4	4·5	0·9	4·8	0·9	5·2	0·8	4·6	0·6	4·7	0·7	4·9
June . .	0·4	4·5	0·4	4·1	0·7	4·9	0·4	4·4	0·3	4·6	0·4	4·3	0·4	4·5
July . .	0·3	4·5	0·3	4·3	0·2	4·1	0·4	4·6	0·4	4·6	0·2	4·7	0·3	4·5
August . .	0·3	4·0	0·5	4·2	0·4	4·6	0·4	4·6	0·3	4·6	0·4	4·7	0·4	4·5
September .	0·6	5·5	0·6	4·9	0·7	4·6	0·8	4·8	0·7	4·9	0·8	4·8	0·7	4·9
October . .	0·8	4·9	1·6	5·6	1·1	5·1	1·0	5·3	1·0	5·2	1·8	5·5	1·2	5·3
November .	1·5	5·4	1·6	6·1	2·6	6·5	2·0	5·8	1·3	5·4	2·0	5·8	1·8	5·8
December .	1·8	5·3	2·0	6·3	2·1	5·9	3·9	6·2	2·0	5·5	1·2	5·6	2·2	5·8
Means . .	1·1	5·2	1·1	5·0	1·6	5·5	1·6	5·4	1·3	5·2	1·1	5·3	1·3	5·3

The results shown above confirm conclusions which are already well known. The microseismal activity is greatest in winter, and becomes very small in summer. Also the amplitude and period increase together. The relationship is not a linear one, for the amplitude increases at a rate greater than that of proportionality to the first power of the period.

Investigation of the possible connection between microseismal amplitude and the "state of the sea" at different points of the British coasts yields results of an inconclusive kind. For example, the correlation between the state of the sea at Lerwick

* The determination of the locality of the epicentre can only be made in favourable circumstances, that is, with sufficiently well-marked primary waves and at times when the wind does not produce tremors in the building which mask the true seismic effect.

and the microseismal amplitude (N. component) at Eskdalemuir gives coefficients which are as high as 0·7 and 0·8 in winter, but which fall very low in summer. Closer inquiry in this direction, as also the investigation of the connection with the intensity and *rate of passage* of depressions north of the British Isles, seems desirable.

It may be mentioned that the published results from 1911 to 1916 yield no evidence of a diurnal period. The means at the bottom of the columns of amplitude in the above table show, however, that microseismic activity varies appreciably from year to year.

The Water-Level Recorder at Kew Observatory, Richmond.

A description of this apparatus will be found in the Annual Supplement for 1914.

Regular observations commenced in July 1914. The values of the mean height—$\frac{1}{2}$ (maximum + minimum)—for each day have appeared in the monthly numbers of the Journal, along with extreme values recorded during the month, and the dates on which these presented themselves. The general nature of the variation will be readily derived from the diagram (Plate I.). The larger fluctuations are governed by rainfall, and by the flooding of the Old Deer Park by the Thames. The well also responds, however, to variations in the height of the barometer, and to the tides in the neighbouring river. The phenomena have been discussed * by Mr. E. G. Bilham. The effect of the alternation of spring and neap tides can be recognised in the diagram.

Table of Monthly Means of Electrical Data for Richmond and Eskdalemuir, 1916.

The following table gives mean monthly values of positive and negative electrical charges in the atmosphere as observed with the Ebert apparatus at Richmond and at Eskdalemuir. A popular account of the method will be found in a recent paper on "Atmospheric Electricity," by Lieut. C. D. Stewart.† For the number of days utilised each month reference may be made to the monthly tables, and for a comparison of the units used in corresponding tables elsewhere, to the Introduction. Mean values of potential gradient at Richmond and Eskdalemuir will be printed in *Hourly Values.*

Charge per c.c. $\times 10^{16}$ *at about* 15 *h.*

		Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Year.
		Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.	Coulomb.
Richmond	+	·40	·47	·34 *n*	·39	...	·61 *x*	·49	·56	·42	·59	·45	·49	·47
	−	·42	·34	·20	·18 *n*	...	·53 *x*	·24	·42	·23	·33	·36	·41	·33
Eskdalemuir	+	...	·45	·42	·31 *n*	·43	·58 *x*	...	...	...	...	...	...	·44
	−	...	·64 *x*	·55	·30 *n*	·37	·35	...	...	...	...	...	...	·44

Table of Monthly Means of Magnetic Data for Eskdalemuir.

The following table gives the mean monthly values of the daily maximum and minimum and of the corresponding daily range of the magnetic elements at Eskdalemuir Observatory. The corresponding data published for Kew Observatory in previous years are no longer available. It should be mentioned, however, that the magnetograms for "international quiet days" have been tabulated at that Observatory, and that a summary of the results will be printed in *Hourly Values.*

* *Roy. Soc. Proc.*, A94, 1918, p. 165; and *Q. J. R. Met. Soc.*, vol. xliv., 1918, p. 171.

† *Q. J. R. Met. Soc.*, vol. xliii., 1917, p. 409.

Month.	North Component.			West Component			Vertical Component.		
	Max. 15000 γ+.	Min. 15000 γ+.	Range.	Max. 4000 γ+.	Min. 4000 γ+.	Range.	Max. 45000 γ+.	Min. 45000 γ+.	Range.
	γ	γ	γ	γ	γ	γ	γ	γ	γ
January	1024	965	59	1067	1007	60 *n*	149	121	28
February	1020	962	58 *n*	1068	1004	64	138	113	25 *n*
March	1040	933	107	1084 *x*	967	117 *x*	188+*x*	104	84+
April	1043	928−	110+	1081	983	98	175	105	70 *x*
May	1052 *x*	940	112 *x*	1070	982	88	145	93	52
June	1043	941	102	1071	976	95	117	76	41
July	1036	935	101	1059	970	89	123	68 *n*	55
August	1044	925−	111+	1054	958	96	139	69−	59+
September	1041	935	106	1051	959	92	150	89	61
October	1037	929 *n*	108	1051	950	101	157+	84	66+
November	1032	937	95	1036	939 *n*	97	125	79	46
December	1012	943	69	1021	948	73	109	80	29
Year	1035	939−	95+	1059	970	89	143+	90−	50+

As usual, *x* and *n* denote the highest and lowest of the monthly means in the table. The traces passed the limits of registration on five occasions; the value accepted for the maximum or minimum in such a case represents the upper or lower edge of the photographic sheet. Such values have been excluded in the calculation of the monthly means published each month, but are used in obtaining the figures entered in the table above. The mean values of the daily range for the months affected are thus under-estimated, but the differences from the true values are probably small.

The extreme values for the year and the corresponding annual ranges were as follows:—

	Maximum.	Minimum.	Range.
North Component	16275γ (August 22)	<15660γ (August 27)	>615γ
West ,,	5184γ (April 25)	4764γ (March 9)	420γ
Vertical ,,	45397γ (April 25)	<44733γ (August 27)	>664γ

Analysis of Clouds observed at Aberdeen Observatory during the five years 1912–1916.

Observations were taken every day, except Sundays, when the clouds were sufficiently well defined to give points on which the observations could be made. The time of observation was between 12 and 1 P.M. The results have been published month by month in the *Geophysical Journal*.

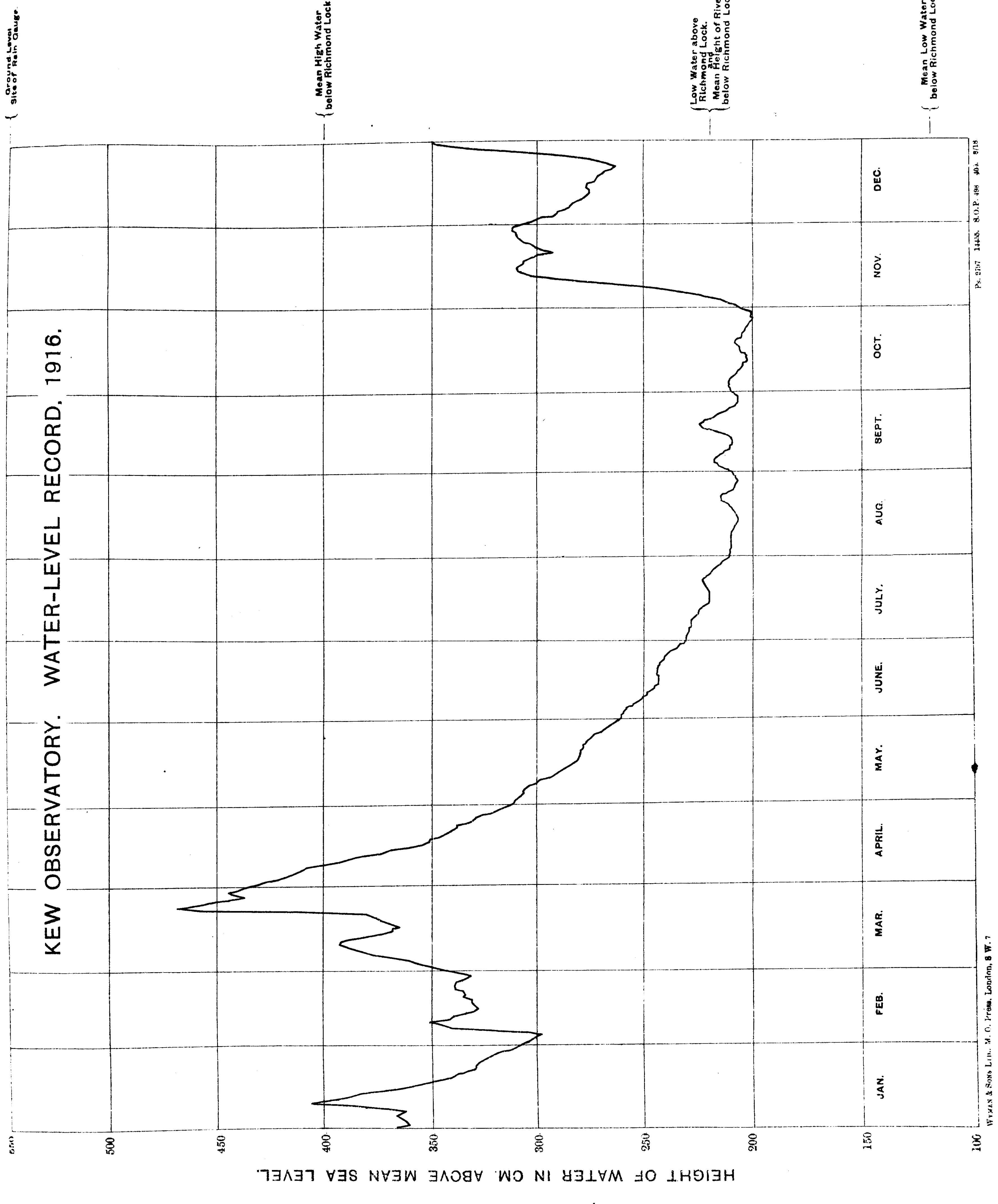
Table I. shows the variation in the frequency of clouds of various types throughout

TABLE I.

FREQUENCY OF CLOUDS OF VARIOUS TYPES AT DIFFERENT TIMES OF THE YEAR.

Cloud Types.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
Cu.-Nb.	4	11	12	15	12	9	9	3	8	14	5	6	108
Cu.	5	10	27	33	13	17	23	20	29	11	13	4	205
St.-Cu.	23	20	13	15	18	10	12	12	19	20	22	18	202
Al.-St.	4	1	1	...	...	1	1	...	...	3	2	4	17
Al.-Cu.	3	3	6	3	8	7	3	5	7	4	7	4	60
Ci.-Cu.	7	6	2	4	2	5	3	1	8	9	8	12	67
Ci.-St.	1	1	2	2	2	2	1	1	3	2	2	1	20
Ci.	5	2	6	2	5	5	4	7	8	10	9	8	71

To face p. 80.


KEW OBSERVATORY. WATER-LEVEL RECORD, 1916.
Ground Level Site of Rain Gauge.
Mean High Water below Richmond Lock.
Low Water above Richmond Lock. and Mean Height of River below Richmond Lock.
Mean Low Water below Richmond Lock
JAN.
FEB.
MAR.
APRIL.
MAY.
JUNE.
JULY.
AUG.
SEPT.
OCT.
NOV.
DEC.
550
500
450
400
350
300
250
200
150
100
HEIGHT OF WATER IN CM. ABOVE MEAN SEA LEVEL.
Wyman & Sons Ltd., M. O. Press, London, S W. 7

Errata for 1916.

Page 1, 7, 13, 19, 25, 31, 37, 43, 49, 57, 63, 69: Table 2, *for* "H = 12·5 m." *read* "H = 9·1 m."

Page 6, 12, 18: Table 9, South Farnborough, Height of Anemometer above Ground, *for* "35 m." *read* "31 m."

Page 22: 21st, delete last line and Remarks.

Page 17: Table 8. By an inadvertence the values printed for Scilly are those for 1917; the correct values for 1916 are as given below:—

8. WIND COMPONENTS: Metres per second at fixed hours, together with the greatest mean hourly velocity, or the greatest velocity attained in a gust, and the time of its occurrence.

ENGLAND S.W.:—SCILLY. MARCH 1916.

Height of Head above—Ground 9·8 m., M.S.L. 49·7 m.
Height of Cups above—Ground 5·8 m., M.S.L. 45·7 m.

Day.	3 h.				9 h.				15 h.				21 h.				Max. in a Gust.	Time of Gust.	
	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.	S.	N.	W.	E.			
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	h	m
1	...	5·4	...	2·2	...	13·1	5·4	...	...	2·4	...	1·6	...	...	...	7·1	21·0	9	20
2	...	4·3	...	1·8	...	10·0	...	...	...	9·4	9·4	...	...	8·3	...	...	19·2	14	15
3	...	11·6	...	4·8	...	11·5	...	7·7	...	9·6	...	...	...	10·2	...	2·0	19·0	6	50
4	...	3·8	...	3·8	...	5·2	...	3·5	...	3·5	...	1·5	...	5·0	...	2·1	14·0	20	50
5	...	...	...	2·5	...	...	...	2·9	...	2·9	...	...	...	3·8	...	2·6	10·2	...	
6	...	6·2	...	2·6	...	10·8	...	...	...	8·1	...	3·4	...	8·9	...	3·7	18·7	21	50
7	...	8·3	...	...	...	8·3	...	8·3	...	8·3	...	5·6	...	8·8	...	8·8	21·2	19	10
8	...	7·4	...	7·4	...	5·3	...	5·3	...	7·3	...	3·0	...	2·7	...	6·6	16·1	1	20
9	...	2·8	...	4·2	...	...	...	9·6	1·9	...	...	9·4	...	2·2	...	11·1	17·0	11	20
10	...	2·0	...	10·2	...	2·2	...	11·1	...	3·7	...	8·9	...	3·7	...	8·9	16·9	2	20
11	...	3·4	...	8·1	...	2·7	...	6·6	...	2·1	...	5·0	...	1·6	...	3·9	14·0	1	50
12	...	2·1	...	5·0	...	2·1	...	5·0	...	2·8	...	4·2	1·5	...	...	7·4	12·0	21	55
13	3·7	...	...	8·9	6·1	...	...	14·6	3·1	...	...	15·5	5·8	...	...	2·4	19·8	10	5
14	4·9	...	...	7·3	8·3	...	...	8·3	7·6	...	...	7·6	5·9	...	...	3·9	16·2	7	40
15	1·8	...	...	4·3	0·9	...	...	4·5	...	...	...	1·7	0·8	...	...	1·9	8·0	0	5
16	1·3	...	0·3	...	2·5	...	...	...	3·8	...	...	...	2·9	...	...	...	4·1	14	30
17	2·9	...	...	...	4·2	...	...	6·2	3·7	...	...	8·9	2·5	...	...	12·7	17·4	22	25
18	2·4	...	...	12·3	3·2	...	...	7·7	2·7	...	...	6·6	...	...	...	10·4	17·2	2	15
19	2·0	...	...	9·8	3·4	...	...	8·1	4·2	...	...	6·2	7·4	...	...	7·4	15·7	6	10
20	7·3	...	...	3·0	4·5	...	...	4·5	1·8	...	...	2·7	...	...	...	1·7	13·6	0	10
21	...	5·2	3·5	...	...	6·6	1·3	...	...	6·6	2·7	...	...	4·1	0·8	...	14·0	7	5
22	...	2·3	...	2·3		2·1	...	5·0	...	0·8	...	4·1	...	1·2	...	6·2	8·1	19	15
23	...	1·9	...	4·6	...	1·0	...	4·9	...	3·5	...	1·5	..	4·2	...	...	10·1	21	50
24	...	3·8	3·8	...	...	6·9	2·9	...	...	5·6	5·6	...	...	1·2	6·2	...	14·2	4	20
25	...	...	7·1	...	...	...	8·3	...	4·9	...	11·9	...	...	...	14·2	...	24·6	20	25
26	...	6·2	15·1	...	...	2·7	13·5	...	...	5·6	13·5	...	...	...	12·5	...	24·6	14	40
27	...	1·5	7·8	...	0·6	...	...	3·2	...	4·8	...	11·6	...	16·3	16·3	...	32·9	21	50
28	...	10·6	10·6	...	...	10·4	4·3	...	...	9·2	...	...	...	7·3	...	3·0	28·8	1	50
29	...	0·9	...	0·9	...	...	7·5	...	...	...	9·2	...	...	2·4	12·3	...	18·5	11	40
30	...	2·9	6·9	...	...	3·0	7·3	...	...	2·7	6·6	...	...	...	3·8	...	14·4	8	50
31	...	...	3·8	...	...	...	2·1	...	...	0·5	1·2	...			Calm.		5·5	0	35
S. + N. and W. + E	118·9		164·9		137·6		179·6		133·1		169·1		118·7		179·9				
S. − N. and W. − E.	−66·3		−47·1		−70·2		−74·4		−65·7		−48·9		−65·1		−47·7				

GEOPHYSICAL JOURNAL, 1916.

SPECIAL SUPPLEMENT.

Meteorological Observations at St Louis Observatory, Jersey, during the Years 1914-1916.

St. Louis Observatory was organised by the Rev. Marc Dechevrens of the Society of Jesus in 1893 and 1894. It is still under the same direction.

The following description of the site is translated from the *Bulletin des Observations Météorologiques* for the year 1894:—

"St. Louis Observatory has been built at 54 metres above mean sea-level, on the south-west edge of the central plateau of the island of Jersey. It overlooks the town of St. Helier and St. Aubin's Bay, the view to the south and west being unrestricted. A considerably wider outlook may be obtained from the tower, 50 m. high, erected near the Observatory for the special observations of wind and atmospheric electricity. From this standpoint, 104 m. above the sea, the whole island can be surveyed with its well-cultivated fields, numerous belfries, tiny valleys, and rocky shores. The sea to the north of the island is out of sight, evidence of the inclination of the plateau towards the south. The cliffs which face the French coast to the north-east are 120 to 140 m. in height."

The Observatory is provided with a water-barograph,* Richard barograph, hygrograph and thermograph, Dechevrens and Robinson anemographs, and a Jordan sunshine recorder.

The Meteorological Office telegraphic reporting station at St. Aubin's is 5·5 km. W.S.W. from St. Louis. The office sunshine recorder is at Fort Regent, 1·2 km. from the Observatory.

The observations at St. Louis have been published in the *Bulletin des Observations Météorologiques* for the years 1894–1913. In the present volume the data for the years 1914–1916 are given. Those for 1917 are being included in the monthly issues of the *Geophysical Journal.*

NOTES ON THE TABLES.

Air Temperature.—The temperatures at fixed hours are obtained from a mercurial thermometer, and refer to a large louvred screen in the open. The maximum and minimum for the 24 hours are obtained from registering thermometers in conjunction with the Richard thermograph in the same screen.

Grass Minimum.—The bulb of the thermometer is cylindrical, 6 mm. in diameter and 45 mm. in length.

Humidity.—Humidities are derived from psychrometer readings, and are computed by the tables in Angot's *Instructions Météorologiques*, not by Glaisher's tables, which are in use at most British stations (see *Computer's Handbook*, section i. p. 13).

Rainfall.—The rainfall for the calendar day is determined from the amounts measured at the fixed observation hours and at 4 h., the division of the fall during the night between two calendar days being estimated.

Wind Strength.—The estimates of wind strength are based on general observations, in accordance with Angot's *Instructions Météorologiques.* The Observatory is surrounded by trees and on the summit of a steep hill.

Normals.—The normals used in the tables are averages for the twenty-three years 1894–1916.

* In the water-barograph a float is controlled by the difference in pressure between the free atmosphere and the air in an underground vessel.

JANUARY 1914.—METEOROLOGY.—JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a 200+	a 200+	a 200+	a 200+	a 200+	a 200+	a 200+	%	%	%	%	mm.	
1	29·9	28·5	28·4	28·9	76·9	77·9	78·6	78·8	76·0	77·6	68·2	52	62	73	62	—	
2	27·8	27·8	27·4	27·7	80·0	81·1	81·2	81·4	78·8	80·5	74·3	78	69	72	73	—	
3	26·6	27·2	27·1	27·0	81·4	81·6	79·6	82·0	78·8	80·7	75·8	79	81	79	80	—	
4	23·4	19·7	16·4	19·8	80·2	81·4	80·7	82·3	79·3	80·8	70·4	95	90	94	93	2·0	● began at 5 h. ●° showers till even-
5	09·0	02·6	01·8	04·5	81·2	82·9	78·8	83·0	78·8	80·9	78·4	87	86	94	89	*x* 13·4	● all the afternoon. [ing.
6	02·2	07·0	11·5	06·9	79·5	80·1	79·1	80·9	77·6	79·4	73·9	59	*n* 50	54	54	—	
7	17·7	20·9	21·7	20·1	78·4	81·3	79·6	81·8	78·2	79·9	72·4	62	51	74	62	—	
8	20·1	18·0	16·6	18·2	79·5	81·9	82·4	82·6	79·4	81·2	69·0	92	86	95	91	1·2	Short ● showers from 10 h.
9	16·8	17·6	18·8	17·7	83·7	83·8	83·1	*x* 84·0	*x* 82·5	*x* 83·4	80·9	100	100	100	100	0·9	≡² all day.
10	17·4	15·3	12·7	15·1	82·8	82·9	82·6	83·4	82·2	82·8	80·0	95	96	100	97	4·1	Frequent ● showers from 8 h.
11	13·1	15·1	17·5	15·2	80·9	78·0	76·5	82·8	76·3	78·9	79·3	96	92	71	86	—	
12	20·6	22·3	24·4	22·4	72·1	73·1	73·0	75·3	71·7	73·0	68·7	75	68	56	66	—	Freezing all day.
13	21·2	20·7	21·5	21·1	75·4	75·0	75·4	75·6	74·2	75·1	70·4	76	82	84	81	1·7	✻ 4 h. to 12 h. ● during evening.
14	17·2	13·3	13·4	14·6	75·7	75·7	74·7	76·1	72·5	74·9	73·4	63	66	67	65	0·3	Squall with ✻ △ at 11 h.
15	13·4	13·6	15·0	14·0	76·3	78·0	76·0	78·6	72·7	76·3	69·5	68	56	70	65	—	
16	12·6	08·0	06·3	09·0	72·6	77·0	74·0	77·2	72·2	74·6	65·7	85	61	74	73	—	⌴°.
17	01·9	01·2	05·1	02·7	72·9	77·3	76·2	77·7	72·2	75·3	67·1	84	75	86	82	—	⌴°.
18	08·4	10·2	11·2	09·9	74·6	77·5	75·9	78·6	74·3	76·2	65·3	87	70	74	77	—	⌴.
19	08·7	05·8	06·7	07·1	71·9	73·9	72·2	74·2	71·4	72·7	67·7	85	73	64	74	—	
20	06·7	06·6	09·2	07·5	72·5	74·2	74·4	74·5	72·2	73·6	68·3	68	58	83	70	1·2	✻ 9 h.
21	11·3	09·8	10·8	10·6	73·7	74·7	72·1	75·0	71·9	73·5	70·9	68	70	82	73	—	
22	11·6	12·4	13·5	12·5	69·3	72·7	72·7	*n* 72·8	69·0	*n* 71·3	66·2	82	72	83	79	—	⌴. Freezing all day.
23	13·4	14·0	16·4	14·6	70·1	75·1	71·8	75·6	*n* 68·9	72·3	*n* 61·3	95	66	77	79	—	⌴.
24	18·7	20·4	23·1	20·7	73·8	75·2	73·1	75·6	71·1	73·8	*n* 61·3	96	85	94	92	—	⌴².
25	23·8	22·2	19·1	21·7	73·1	77·0	77·6	78·0	72·7	75·7	69·7	90	84	85	86	—	
26	14·4	16·0	18·3	16·2	79·1	80·5	79·1	81·0	77·6	79·5	74·4	97	100	80	92	5·1	≡ ●° 8 h.–11 h.
27	17·6	18·5	18·5	18·2	78·3	81·3	81·1	81·7	77·1	79·9	70·4	78	70	95	81	3·0	⌴². ● about 16 h.
28	19·0	18·1	16·9	18·0	80·9	82·3	80·6	83·0	80·6	81·5	76·3	95	95	95	95	0·1	
29	15·3	13·9	13·1	14·1	80·1	80·8	80·4	81·5	79·6	80·5	77·6	96	90	91	92	—	
30	13·1	14·2	15·7	14·3	79·6	80·9	78·3	81·4	77·3	79·5	77·4	98	89	95	94	2·2	● from 4 h.
31	14·4	13·3	14·6	14·1	78·3	81·6	81·6	82·3	77·1	80·2	76·1	96	89	89	91	—	
Means	15·7	15·3	15·9	15·6	76·9	78·6	77·5	79·3	75·6	77·6	71·6	83	77	82	81	35·2	
Normal	12·2	12·0	13·0	12·6	78·6	79·9	79·0	80·7	77·3	79·1	74·1	84	78	82	81	66·6	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total. hr.	Per cent. of Possible. %	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. Tenths. 7 h.	Upper. Type. 7 h.	Direction 7 h.	Lower. Type. 7 h.	Direction. 7 h.	Tenths. 14 h.	Upper. Type. 14 h.	Direction. 14 h.	Lower. Type. 14 h.	Direction. 14 h.	Tenths. 21 h.	Upper. Type. 21 h.	Direction. 21 h.	Lower. Type. 21 h.	Direction. 21 h.	Mean Amount.
1	NNW	3	NNE	3	NNE	4	3·3	0·2	2	7	A.-Cu.	NE	Cu., Cu.-Nb.	N	10	A.-Cu.	ENE	Nb.	N	10	..	..	..	..	9·0
2	NNE	3	N	3	NNW	4	3·3	0·3	3	10	..	..	Cu.-Nb.	NE	10	..	..	Cu.-Nb.	N	10	..	..	..	..	10·0
3	N	4	NNE	3	NW	3	3·3	0·0	0	9	..	..	St.-Cu.	N	9	..	..	St.-Cu.	SE	4	A.-Cu.	WNW	..	..	7·3
4	WNW	3	WSW	5	WSW	6	4·7	1·7	25	9	..	..	Nb.	..	7	..	..	Cu.	W	7	A.-Cu.	W	Nb.	WSW	7·7
5	SW	6	SW	7	W	4	5·7	0·0	0	10	..	..	Nb.	WSW	10	..	..	Nb.	..	8	..	..	Nb.	..	9·3
6	WNW	5	NW	6	NW	5	5·3	4·6	55	4	..	..	Cu.	NW	5	..	..	Cu.	NW	6	..	..	Cu.	NNW	5·0
7	N	3	W	3	SSW	4	3·3	6·8	82	4	..	..	Cu,	N	6	..	..	Cu., Cu.-Nb.	N	6	{Ci. Cu.	{WNW W}	..	..	5·3
8	SSW	4	WSW	4	SW	4	4·0	0·9	11	7	..	..	Cu.	WNW	10	..	..	..	..	10	..	..	Nb.	..	9·0
9	W	4	WSW	5	WSW	4	4·3	0·0	0	10	..	..	≡	..	10	..	..	≡	..	10	..	..	≡	..	10·0
10	SW	3	SSW	4	SSW	5	4·0	0·1	1	10	..	..	Nb.	..	10	..	..	Nb.	SW	10	..	..	≡Nb.	..	10·0
11	NNE	6	NE	4	NE	5	4·3	0·0	0	10	..	..	..	..	10	..	..	..	..	10	..	..	St.-Cu.	NE	10·0
12	ENE	5	ENE	5	E	4	4·7	6·4	76	4	..	..	Cu.	NE	6	..	..	Cu.	ENE	7	..	..	Cu.	NE	5·7
13	NE	5	NE	5	ENE	4	4·7	0·0	0	10	..	..	Nb.	NE	10	..	..	Nb.	NE	10	..	..	Nb	..	10·0
14	NE	5	NNE	6	ENE	7	6·0	1·0	12	10	..	..	St., Nb.	NE	7	..	..	Cu.-Nb.	NE	10	..	..	Cu.	NE	9·0
15	NE	6	NE	6	NE	5	5·7	8·1	95	2	..	..	Cu.	NE	2	..	..	Cu.	NE	2	..	..	..	..	2·0
16	NE	2	ENE	4	ENE	4	3·3	8·6	100	1	..	..	..	..	1	..	..	Cu.	..	0	..	..	..	..	0·7
17	ENE	3	ENE	3	NE	3	3·0	7·4	86	6	..	..	Fr.-Cu.	ENE	1	A.-Cu.	NE	..	..	3	..	..	..	..	3·3
18	NE	2	NE	2	NE	3	2·3	5·0	57	0	..	..	..	..	9	..	..	Cu.-Nb.	NE	10	..	..	..	..	6·3
19	S	1	ENE	3	E	3	2·3	5·7	65	8	..	..	St.-Cu.	SE	2	..	..	Cu.	ENE	10	..	..	..	..	6·7
20	ENE	1	NNE	1	NE	3	1·7	0·6	7	10	..	..	St.-Cu.	NE	10	..	..	Cu.-Nb.	NNE	10	..	..	..	..	10·0
21	ENE	2	E	4	ENE	3	3·0	2·4	28	10	..	..	..	..	4	..	..	St.-Cu.	NE	3	..	..	..	..	5·7
22	ENE	4	ENE	4	E	4	4·0	8·9	100	4	..	..	Cu.	WSW	0	..	..	..	..	0	..	..	..	..	1·3
23	ENE	2	ENE	3	ENE	3	2·7	8·6	97	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
24	SE	1	S	3	S	4	2·7	7·7	87	5	..	..	..	..	2	Ci.	N	..	..	10	..	..	..	..	5·7
25	S	4	SSW	4	S	5	4·3	5·8	65	10	..	..	..	..	0	..	..	..	..	0	..	..	..	..	3·3
26	SSW	4	WSW	1	NNW	4	3·0	0·0	0	10	..	..	Nb.	..	10	..	..	≡	..	10	..	..	..	..	10·0
27	NW	3	WNW	4	NW	4	3·7	5·7	63	5	..	..	Cu.	NW	8	..	..	St.-Cu.	NNW	10	..	..	Nb.	..	7·7
28	NW	3	WSW	4	WSW	3	3·3	1·8	20	8	..	..	St.-Cu.	NNW	7	..	..	..	..	10	..	..	..	..	8·3
29	WSW	3	SSW	4	SSW	5	4·0	9·3	4	10	..	..	..	..	10	A.-Cu.	WSW	..	..	4	A.-Cu.	..	..	..	8·0
30	SSE	4	S	4	S	5	4·3	1·9	20	10	..	..	Nb.	..	7	..	..	Cu.-Nb.	WSW	10	..	..	..	..	9·0
31	S	4	SSW	4	SSW	5	4·3	0·4	5	10	..	..	..	..	8	..	..	St.-Cu.	SW	10	..	..	..	..	9·3
Means	3·4		3·9		4·2		3·8	100·9	38	7·2	—	—	—	—	6·5	—	—	—	—	7·1	—	—	—	—	6·9
Normal	3·8		4·0		3·9		3·9	75·4	28	7·5	—	—	—	—	7·2	—	—	—	—	6·8	—	—	—	—	7·2

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	REMARKS.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	16·2	16·8	17·5	16·8	80·6	82·6	80·1	83·0	79·6	81·2	77·3	91	79	84	85	—	
2	16·0	14·6	14·6	15·1	77·9	80·7	80·1	81·4	77·7	79·6	71·6	92	80	91	88	—	
3	14·3	14·0	14·3	14·2	78·2	82·9	80·1	83·6	78·0	80·6	73·7	92	71	88	84	—	
4	14·3	14·7	15·0	14·7	79·0	82·5	80·3	82·9	78·6	80·7	74·1	92	80	84	85	—	
5	13·4	11·8	10·8	12·0	78·3	82·4	80·9	83·0	78·1	80·5	72·6	86	73	77	79	—	
6	06·8	05·2	04·6	05·5	78·8	81·2	81·0	81·9	78·6	80·3	73·2	88	87	94	90	1·3	● 13 h. 40 m.
7	03·5	99·6	98·0	00·4	79·6	81·5	81·2	81·9	79·5	80·7	76·9	97	80	84	87	1·5	●⁰ 11 h. 15 m. ● 12 h.
8	95·6	96·8	99·1	97·2	81·6	82·2	81·1	82·7	81·0	81·7	79·4	91	93	92	92	*x* 15·1	
9	01·4	01·4	02·4	01·7	81·2	82·8	82·6	83·5	81·1	82·2	78·9	90	76	78	81	—	
10	05·2	07·1	07·9	06·7	80·3	83·8	81·0	*x* 84·3	80·1	81·9	75·4	93	82	91	89	0·2	● 19 h. ♆² 21 h.
11	00·8	98·3	95·2	98·1	80·4	81·9	82·4	83·0	80·3	81·6	78·0	91	93	98	94	9·6	● 2 h. 30 m.–14 h. ● 20 h. 30 m.
12	00·6	97·8	95·0	97·8	80·8	83·1	79·6	83·5	77·0	80·8	77·3	81	73	80	78	2·7	● 18 h.
13	09·5	11·5	08·3	09·8	80·3	82·1	81·6	82·2	77·5	80·7	73·8	82	80	98	87	4·6	▲ *n*. ● until 7 h. ● after 16 h.
14	09·6	11·8	10·4	10·6	82·5	83·8	83·6	84·2	*x* 81·7	*x* 83·2	80·6	100	93	91	95	4·9	≡ 6 h. 30 m.–8 h. 30 m.
15	06·0	07·9	10·6	08·2	83·3	81·6	81·1	83·7	81·0	82·1	81·7	93	92	91	92	3·5	● 9 h.–14 h.
16	09·2	07·6	11·6	09·5	80·2	79·0	78·0	80·9	78·0	79·2	76·2	89	90	92	90	9·3	Continuous ● from 10 h.
17	15·5	14·7	10·4	13·5	76·5	81·0	80·2	81·4	*n* 75·7	79·0	69·0	95	72	81	83	—	⌴⁰ 7 h. ⊕ 16 h.
18	96·8	97·2	99·1	97·7	79·2	79·7	78·0	*n* 80·2	76·8	*n* 78·8	75·4	98	76	72	82	11·3	● almost continuous. Squall with ▲
19	96·6	91·4	97·0	95·0	79·9	82·5	81·8	82·7	78·1	81·0	71·9	87	98	74	86	2·4	● 6 h.–13 h. [15 h. 45 m.
20	99·9	92·6	86·6	93·0	79·5	81·1	82·5	82·7	78·8	80·9	70·3	90	93	93	92	6·7	⊕ 9 h. Continuous ● from 16 h.
21	85·8	85·4	77·4	82·9	80·2	81·7	80·1	81·9	77·7	80·3	77·0	78	71	86	78	4·6	● frequently. ▲ 14 h. 45 m. ●
22	64·7	68·8	73·4	69·0	80·1	81·5	78·8	82·7	78·5	80·3	77·1	88	70	81	80	1·4	▲ 16 h. 7 m. ●⁰ 21 h. [squall 21 h.
23	76·8	81·4	82·4	80·2	77·8	81·6	79·8	82·0	77·5	79·7	71·0	91	72	91	85	—	
24	84·7	88·8	94·3	89·3	77·3	81·3	77·0	81·9	76·9	78·9	70·8	97	75	88	87	—	
25	01·4	04·7	07·5	04·5	78·6	81·9	78·1	82·0	78·0	79·7	69·7	94	63	91	83	—	
26	07·9	08·8	11·5	09·4	77·3	81·0	79·0	81·9	76·5	79·1	69·6	87	86	94	89	0·9	● 12 h. 30 m.
27	13·8	16·0	17·5	15·8	78·0	83·4	78·9	83·9	77·9	80·4	70·8	98	*n* 56	66	73	—	
28	17·0	15·2	14·4	15·5	78·1	83·1	81·3	84·0	77·1	80·7	*n* 68·4	92	72	82	82	—	
Means	03·0	02·9	03·1	03·0	79·5	81·9	80·4	82·6	78·5	80·6	74·3	91	80	86	86	80·0	
Normal	09·1	08·8	09·5	09·1	78·0	80·1	78·7	80·9	77·1	79·0	73·6	84	74	81	80	59·9	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).				Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.														Mean Amount.
						Total.	Per cent. of Possible.	Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		
	7 h.	14 h.	21 h.					7 h.	Type. 7 h.	Direction. 7 h.	Type. 7 h.	Direction. 7 h.	14 h.	Type. 14 h.	Direction. 14 h.	Type. 14 h.	Direction. 14 h.	21 h.	Type. 21 h.	Direction. 21 h.	Type. 21 h.	Direction. 21 h.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)			hr.	%																
1	SSW 4	S 4	S 5	4·3		8·7	94	1	..	..	..	..	5	A.-Cu.	SW	..	..	0	..	..	..	..	2·0
2	S 4	S 4	S 4	4·0		7·9	85	2	Ci.	SSW	..	..	8	..	..	St.-Cu.	SSW	3	..	..	..	..	4·3
3	SSE 3	SSE 3	SE 4	3·3		9·4	100	3	Ci.	S	..	..	5	Ci.	SSW	..	..	0	..	..	..	..	2·7
4	S 3	SSE 4	SSE 4	3·7		9·4	99	4	..	..	..	..	0	..	..	..	..	0	..	..	..	..	1·3
5	S 4	SSE 4	SSE 5	4·3		9·5	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
6	SSE 4	SSE 3	S 4	3·7		3·4	34	1	..	..	..	..	8	A.-Cu.	SSW	Nb.	..	10	..	..	Nb.	..	6·3
7	S 4	SSW 5	S 5	4·7		2·6	26	2	Cu.-Nb.	SSW	..	..	10	..	..	Nb.	..	10	..	..	..	..	7·3
8	S 5	SSW 6	S 5	5·3		0·0	0	10	..	..	Nb.	SSW	10	..	..	Nb.	..	10	..	..	Nb.	..	10·0
9	ESE 4	SSE 4	S 5	4·3		0·2	2	8	A.-Cu.	S	St.-Cu.	SSW	10	..	..	..	..	6	Ci., Ci.-Cu.	SSW	..	..	8·0
10	SSE 3	S 4	SSW 5	4·0		7·1	72	2	A.-Cu.	SSW	..	..	3	..	..	Cu.	SSW	6	A.-Cu.	S	..	..	3·7
11	S 6	S 5	SSW 6	5·7		0·0	0	10	..	..	Nb.	..	10	..	..	..	..	10	..	..	..	..	10·0
12	SSW 5	SSW 5	SSW 6	5·3		4·7	48	9	..	..	Nb.	SW	8	..	..	..	..	10	..	..	..	..	9·0
13	SW 5	SSW 5	SSW 6	5·3		2·1	21	7	A.-Cu.	W	Cu.-Nb.	W	10	..	..	St.-Cu.	NW	10	..	..	Nb.	..	9·0
14	WSW 5	SSW 5	SSW 6	5·3		0·7	7	10	..	..	Nb. ≡	WSW	10	..	..	Nb.	SW	10	..	..	..	..	10·0
15	SSW 6	SW 5	WSW 3	4·7		0·0	0	10	..	..	..	..	10	..	..	Nb.	WSW	8	..	..	..	..	9·3
16	SE 2	NNE 3	NE 4	3·0		0·2	2	10	..	..	..	..	10	..	..	Nb.	..	10	..	..	Nb.	..	10·0
17	ENE 2	SSW 4	SW 5	3·7		9·3	91	2	..	..	St.-Cu.	SW	2	Ci.	NW	..	..	5	..	..	..	..	3·0
18	SW 5	WSW 4	W 4	4·3		2·2	21	10	..	..	Nb.	SSW	4	Ci.	W	Cu.-Nb.	NNW	2	..	..	..	..	5·3
19	SW 5	WSW 5	W 5	5·0		0·0	0	10	..	..	Nb.	..	10	..	..	Nb.	W	2	..	..	St.-Cu.	WNW	7·3
20	SSW 4	SSE 4	S 5	4·3		3·3	32	3	..	..	..	..	10	..	..	..	..	10	..	..	Nb.	..	7·7
21	SSW 5	WSW 6	S 6	5·7		4·3	41	10	..	..	Nb.	SW	5	..	..	Cu.-Nb.	..	10	..	..	Nb.	..	8·3
22	SSW 5	SW 4	WSW 4	4·3		3·1	29	5	Ci.-Cu.	..	Nb.	WSW	3	..	..	..	..	7	..	..	Nb.	..	5·0
23	ESE 3	SSW 3	SE 3	3·0		7·1	69	1	..	..	..	..	2	..	..	Cu.	WSW	6	..	..	..	..	3·0
24	SE 2	N 3	NE 3	2·7		3·3	31	7	A.-Cu.	SSW	Cu.	SE.	7	A.-Cu.	N	St.-Cu.	N	0	..	..	..	..	4·7
25	N 3	NNW 3	NNW 3	3·0		10·7	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
26	W 2	NNW 2	SE 3	2·3		1·0	10	3	Ci.-Cu.	..	..	..	10	..	..	Nb.	..	0	..	..	..	..	4·3
27	E 2	SSE 3	ENE 3	2·7		10·8	100	1	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·3
28	SSE 2	SSE 3	SW 3	2·7		10·3	95	1	..	..	..	..	1	..	..	..	..	10	..	..	..	..	4·0
Means	3·8	4·0	4·4	4·1		131·3	47	5·1	—	—	—	—	6·1	—	—	—	—	5·5	—	—	—	—	5·6
Normal	3·8	4·1	3·9	3·9		101·9	35	6·8	—	—	—	—	6·9	—	—	—	—	6·3	—	—	—	—	6·7

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	15·0	15·0	13·6	14·6	81·1	82·6	79·9	84·8	79·6	81·6	73·5	97	79	77	84	1·7	≺ in W. with ● 17 h.
2	14·3	15·9	16·0	15·4	78·0	81·0	79·7	81·5	77·2	79·5	73·2	66	57	74	66	0·1	● 6 h. Horizon overcast 11 h.
3	14·2	13·5	13·4	13·6	79·4	82·0	80·8	82·4	78·1	80·5	71·6	82	73	83	79	3·4	● till 14 h.
4	08·7	07·6	05·9	07·4	81·9	82·3	82·4	82·8	80·5	82·0	77·2	91	97	98	95	3·3	● ≡ all day.
5	05·0	04·8	01·8	03·8	81·4	82·0	82·1	83·0	81·3	82·0	81·0	100	100	98	99	0·7	≡ till noon, ≡⁰ afterwards.
6	99·8	99·2	01·5	00·2	82·4	83·4	83·0	83·4	82·0	82·8	81·7	100	98	98	99	2·1	≡ till 11 h., then ≡⁰ and ●.
7	01·2	02·2	01·8	01·8	82·6	83·1	82·8	84·0	81·5	82·8	82·2	100	98	100	99	5·8	≡ and ● all day.
8	99·8	99·1	97·9	98·8	82·3	84·4	82·3	84·9	82·1	83·2	80·9	96	79	92	89	0·1	●⁰ 10 h. 10 m. and 18 h.
9	94·6	90·4	92·0	92·3	81·8	82·5	78·8	82·9	78·7	80·9	80·3	88	94	83	88	8·4	● all day.
10	99·9	04·6	07·4	03·9	78·0	80·2	76·4	*n* 81·1	*n* 73·8	*n* 77·9	72·9	67	*n* 50	85	67	2·3	● 9 h. 20 m. Western horizon overcast.
11	11·4	13·4	12·3	12·3	77·4	81·1	80·8	81·8	74·2	79·1	*n* 69·4	64	71	80	72	2·4	Squalls during morning. [✳ 23 h.
12	04·8	07·8	12·0	08·2	81·2	83·3	82·7	83·4	79·7	82·1	73·1	98	100	100	99	13·4	≡ ● all day.
13	13·1	12·0	10·7	12·0	82·7	84·3	83·0	84·4	*x* 82·6	83·4	82·1	98	84	90	91	0·5	● 2 h. and 15 h. 50 m.
14	98·3	99·4	04·7	00·8	83·5	83·4	82·3	84·2	81·0	82·9	80·0	57	68	83	69	2·2	● 4 h. 15 m. Squalls, strong wind,
15	11·4	05·9	05·0	07·5	81·0	82·1	83·1	83·3	80·0	81·9	77·8	75	93	93	87	0·8	● 5 h. 30 m. and 15 h. [and rain.
16	98·7	04·8	12·2	05·2	82·0	82·4	80·5	83·4	79·9	81·6	79·4	73	56	61	63	1·3	● 1 h.
17	14·0	09·5	00·2	07·9	78·7	82·0	80·2	83·1	78·7	80·5	73·0	62	65	74	67	0·2	● 12 h. ⊕ 14 h. Squalls *n*.
18	89·4	89·9	90·0	89·8	77·0	79·6	78·1	81·6	76·1	78·5	73·5	83	74	76	78	6·8	Squalls. ⋌▲ 9 h. 30 m.
19	85·8	84·6	82·8	84·4	78·4	76·9	79·8	82·2	76·0	78·7	73·7	80	90	79	83	4·6	● 4 h. 35 m. Squalls and ▲ *p*.
20	64·8	72·2	81·5	72·8	81·6	79·0	79·4	82·6	77·9	80·1	77·0	72	69	74	72	4·2	● before noon, then squalls.
21	85·8	91·2	91·1	89·4	77·9	80·9	79·9	83·4	77·4	79·9	73·6	86	75	79	80	2·1	≺ to S.W. 3 h. Squalls with ▲.
22	85·1	91·0	97·2	91·1	78·6	82·0	78·7	82·8	78·5	80·1	73·8	94	65	76	78	0·5	
23	99·9	95·5	90·3	95·2	80·0	81·2	80·1	82·3	78·2	80·4	70·5	83	97	98	93	12·6	●⁰ 6 h. 30 m. ● 10 h.
24	86·6	88·3	86·0	87·0	80·0	82·2	80·6	83·2	79·1	81·0	74·4	72	61	80	71	5·2	Squalls. ▲² 8 h. 15 m.
25	85·5	78·7	77·4	80·4	79·0	83·5	79·1	84·1	78·1	80·8	71·5	96	75	92	88	9·8	Squalls. ▲ and strong wind 14 h. 25 m.
26	82·8	88·2	92·8	87·9	79·3	80·3	80·4	82·3	78·4	80·1	77·6	94	90	86	90	*x* 18·0	q. and ●. ≺ at 23 h. [and *n*.
27	99·9	07·1	11·1	04·7	80·3	83·6	80·0	84·5	78·8	81·4	76·5	85	69	97	84	3·4	Whitish sky ; sun red at sunset.
28	11·8	10·6	07·6	10·0	80·1	83·5	82·7	84·4	79·2	82·0	69·9	98	75	73	82	—	Sky still covered 4 h. ⊕⁰ 10 h.
29	06·6	08·2	11·8	08·8	80·2	83·1	81·0	84·7	80·0	81·8	78·9	90	86	98	91	8·5	● till 13 h.
30	14·2	16·8	18·8	16·7	81·9	83·8	83·3	84·8	80·6	82·9	71·3	94	87	87	89	—	●⁰ 11 h.
31	20·6	19·4	15·2	18·4	82·1	90·0	85·5	*x* 91·1	81·2	*x* 86·0	77·2	75	52	65	64	—	Very fine.
Means	00·8	01·5	02·2	01·5	80·4	82·3	80·9	83·5	79·0	81·2	75·9	84	78	85	82	124·4	
Normal	06·4	06·6	06·8	06·6	78·9	81·7	79·6	82·5	77·8	80·1	74·9	84	73	82	79	61·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	WSW	3	SW	4	NW	4	3·7	7·4	68	5	A.-Cu.	W	..	..	8	..	..	St.-Cu.	WSW	3	A.-Cu.	..	Cu.-Nb.	..	5·3
2	WNW	4	NW	4	WNW	4	4·0	9·3	84	4	..	..	Cu.-Nb.	NW	3	..	..	Cu.	NW	1	..	..	Cu.	..	2·7
3	W	3	WNW	4	W	5	4·0	3·2	29	8	A.-Cu.	NW	Nb.	NW	8	..	..	Cu.-Nb.	NW	9	A.-Cu.	..	..	..	8·3
4	WSW	5	WSW	5	WSW	5	5·0	0·0	0	10	..	..	Nb.	WNW	10	..	..	Nb.	W	10	..	..	Nb.	..	10·0
5	W	4	WSW	5	WSW	4	4·3	0·0	0	10	..	..	≡	..	10	..	..	..	..	10	..	..	..	..	10·0
6	W	5	WSW	6	WSW	5	5·3	0·0	0	10	..	..	≡Nb.	..	10	..	..	..	..	10	..	..	..	..	10·0
7	WSW	5	WSW	5	WSW	6	5·3	0·0	0	10	..	..	≡Nb.	..	10	..	..	≡	..	10	..	..	≡	..	10·0
8	SW	5	SW	5	SSW	6	5·3	3·5	31	10	..	..	..	..	6	A.-Cu.	W	Cu.-Nb.	WSW	9	..	..	St.-Cu.	SW	8·3
9	SSW	5	SSW	4	NW	4	4·3	0·0	0	10	A.-Cu.	..	..	..	10	..	..	Nb.	SW	10	..	..	..	..	10·0
10	NNW	3	NW	3	NW	3	3·0	9·9	87	4	..	..	Cu.	NW	3	..	..	Fr.-Cu.	NW	5	Ci.	..	..	..	4·0
11	NNW	2	SW	3	SW	4	3·0	4·1	35	4	..	..	Cu.	NW	6	Ci.	..	Cu.	WSW	10	..	..	..	..	6·7
12	SW	7	WSW	4	WSW	4	5·0	0·4	3	10	..	..	Nb.	W	10	..	..	≡	..	10	..	..	≡	..	10·0
13	SSW	4	SSW	5	SSW	6	5·0	0·0	0	10	..	..	..	..	10		..	St.-Cu.	WSW	7	..	..	..	..	9·0
14	SSW	7	SW	7	WSW	8	7·3	3·7	32	9	..	..	Nb.	WSW	6	..	..	Cu.	SW	10	..	..	Nb.	..	8·3
15	WSW	4	SSW	5	WSW	6	5·0	0·0	0	7	A.-Cu.	W	St.-Cu.	W	10	..	..	Nb.	W	10	..	..	..	..	9·0
16	W	6	WNW	7	NW	5	6·0	8·3	70	7	A.-Cu.	WSW	Cu.-Nb.	WNW	6	..	..	Cu.	NW	4	..	..	..	..	5·7
17	WNW	3	SSW	3	SSW	6	4·0	7·2	60	4	..	..	Cu.	NW	6	Ci.	NW	Nb.	W	10	..	..	..	..	6·7
18	WSW	4	W	3	SW	4	3·7	4·2	36	8	..	..	Nb.	W	7	A.-Cu.	WSW	Cu.-Nb.	WSW	1	..	..	..	..	5·3
19	SW	4	WSW	4	SW	5	4·3	3·3	27	7	Ci.	..	Nb.	SW	10	..	..	Nb.	..	8	..	..	..	..	8·3
20	SSW	5	NW	7	W	5	5·7	1·8	15	9	..	..	Nb.	SW	10	..	..	Nb.	NNW	6	..	..	..	..	8·3
21	W	4	WNW	5	SW	4	4·3	7·4	61	7	..	..	Cu.-Nb., Nb.	W	7	..	..	Cu.-Nb.	NW	1	..	..	Cu.	WNW	5·0
22	ENE	2	WNW	4	WNW	3	3·0	6·5	53	10	..	..	..	..	2	..	..	Cu.	NNW	2	..	..	..	..	4·7
23	SW	4	SSW	4	W	3	3·7	0·2	1	7	Ci.-Cu.	WSW	Cu.-Nb.	W	10	..	..	Nb.	..	10	..	..	Nb.	..	9·0
24	SW	4	WSW	5	S	3	4·0	6·3	51	10	..	..	..	..	1	..	..	..	..	10	..	..	..	..	7·0
25	SSW	3	WSW	4	SSW	5	4·0	2·1	17	8	..	..	..	..	8	..	..	St.-Cu.	WSW	10	..	..	..	..	8·7
26	W	4	WSW	5	W	5	4·7	2·7	21	7	Ci.-Cu., Ci.	WNW	Cu.-Nb.	WNW	9	Ci.-Cu.	WSW	Nb.	WNW	10	..	..	..	..	8·7
27	WNW	3	W	3	W	3	3·0	10·5	84	6	..	..	Cu.	NNW	6	..	..	{Cu.-Nb. Fr.-Cu.}	NNW	0	..	..	..	..	4·0
28	SE	2	ESE	3	ESE	3	2·7	2·8	22	10	..	..	..	..	9	A.-Cu.	SW	..	..	6	..	..	..	..	8·3
29	SE	3	S	3	SSW	2	2·7	4·3	34	10	..	..	Nb.	..	4	Ci.	SW	Cu.-Nb.	WSW	0	..	..	..	..	4·7
30	S	5	SSW	4	S	5	4·7	0·3	3	10	..	..	Nb.	WSW	10	..	..	..	..	4	..	..	..	..	8·0
31	SSE	3	SSE	3	NE	3	3·0	12·3	97	0	..	..	..	..	1	Ci.-Cu.	..	..	..	1	Cu.	..	..	..	0·7
Means		4·0		4·4		4·5	4·3	121·8	33	7·8	—	—	—	—	7·3	—	—	—	—	6·7	—	—	—	—	7·3
Normal		3·8		4·2		3·8	3·9	150·6	41	7·0	—	—	—	—	6·3	—	—	—	—	5·7	—	—	—	—	6·3

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	11·4	12·0	10·6	11·4	83·1	85·5	82·5	87·1	82·0	84·0	78·5	85	76	97	86	—	⊕ 14 h.
2	07·2	06·0	07·5	06·8	82·1	85·9	80·7	87·5	80·7	83·4	76·6	93	83	100	92	0·7	●⁰ 10 h. 40 m. ● 15 h. Continuous [≡ from 18 h. 30 m.
3	11·0	12·3	11·2	11·5	81·0	84·7	81·1	85·5	79·6	82·4	70·8	94	71	97	87	—	
4	09·5	12·7	11·4	11·2	81·2	84·3	82·4	84·7	80·2	82·6	74·0	93	70	82	82	6·2	● 2 h. and 6 h. 30 m., and afterwards at
5	05·1	05·9	00·6	03·9	83·0	84·0	83·6	85·0	81·6	83·4	78·9	86	81	100	89	x 8·2	● in past *n*. [intervals.
6	02·7	05·0	01·6	03·1	82·7	84·7	82·3	85·0	82·0	83·3	78·7	74	70	88	77	0·9	● squalls during morning.
7	97·5	94·0	92·4	94·7	81·7	83·8	80·0	85·0	79·8	82·1	76·2	72	64	77	71	3·3	● and squalls during night. ▲ squall
8	93·6	00·8	04·4	99·6	81·2	83·8	81·2	*n* 84·3	79·0	*n* 81·9	76·3	75	68	72	72	2·2	● 7 h. 25 m. and 12 h. [14 h. 15 m.
9	03·5	01·4	00·6	01·8	81·3	84·2	82·5	84·5	80·3	82·6	73·7	87	84	98	90	0·6	● 11 h. 30 m. and 17 h.
10	03·6	05·1	04·7	04·4	82·1	85·1	83·6	87·2	81·9	84·0	79·2	85	73	79	79	—	⊕ 11 h. 45 m.
11	02·7	08·4	13·5	08·2	83·1	84·4	81·1	85·9	80·6	83·0	79·1	98	71	92	87	1·7	● about 2 h. till 9 h.
12	17·4	16·4	15·0	16·3	82·1	86·5	81·3	87·0	*n* 78·0	83·0	*n* 69·9	84	61	89	78	—	
13	11·5	11·2	14·6	12·4	84·3	86·5	82·9	89·8	81·2	84·9	75·7	83	79	86	83	—	
14	20·7	23·1	24·0	22·7	82·1	83·0	82·1	84·7	81·3	82·6	78·6	80	67	83	77	—	⊕⁰ 14 h.
15	24·6	24·2	24·4	24·4	81·7	85·0	81·1	85·0	79·9	82·5	75·8	81	51	63	65	—	Very fine.
16	22·7	19·9	16·3	19·6	80·2	84·1	82·3	84·5	78·9	82·0	75·1	70	62	83	72	—	Very fine.
17	12·8	09·2	09·1	10·4	81·1	88·1	84·3	88·5	80·1	84·4	77·1	69	51	66	62	—	Very fine.
18	10·8	10·6	11·6	11·0	82·4	89·8	83·1	90·1	80·6	85·2	76·6	67	46	74	62	—	Very fine.
19	13·2	13·8	15·5	14·2	83·1	89·7	84·6	90·0	81·2	85·7	76·7	71	42	67	60	—	Very fine.
20	17·5	17·9	19·2	18·3	85·1	93·4	85·5	94·4	82·1	88·1	78·8	77	*n* 41	63	60	—	Very fine.
21	19·5	19·5	20·0	19·6	85·8	90·6	86·9	93·8	82·5	87·9	77·1	74	61	65	67	1·9	✻ from 17 h. < 21 h. ● 22 h.
22	18·8	19·2	21·0	19·6	84·7	88·6	82·9	89·5	82·7	85·7	77·3	93	67	93	84	0·7	c.
23	21·8	23·0	24·6	23·1	83·0	86·0	81·9	87·1	81·7	83·9	78·8	92	82	82	85	—	c.
24	25·4	25·0	23·0	24·4	82·7	85·1	83·2	85·9	80·3	83·4	73·8	85	78	96	86	—	c.
25	22·2	23·0	26·3	23·8	84·1	87·2	81·9	87·6	81·5	84·5	79·4	86	71	73	77	—	c.
26	27·4	25·8	24·6	25·9	81·4	84·8	81·1	85·0	79·3	82·3	75·3	70	60	97	76	—	Fine.
27	23·9	22·7	20·8	22·4	82·8	88·5	83·4	89·1	80·0	84·8	70·9	85	58	82	75	—	Fine.
28	18·3	15·6	13·5	15·8	84·4	92·1	86·2	92·7	81·9	87·5	74·7	83	53	75	70	—	Fine.
29	10·2	08·2	07·0	08·4	86·9	91·1	86·1	x 94·5	x 83·8	x 88·5	81·0	73	60	79	71	—	●⁰ 15 h.
30	05·2	05·6	08·4	06·4	85·8	89·7	83·5	90·3	83·0	86·5	80·7	89	73	97	86	0·6	● 9 h. 30 m. ●⁰ 21 h.
Means	13·1	13·2	13·2	13·2	82·9	86·7	82·8	87·7	80·9	84·2	76·5	82	66	83	77	27·0	
Normal	08·7	08·7	09·1	08·8	81·2	84·3	81·4	85·2	79·6	82·3	75·9	82	66	81	77	45·7	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	SW	2	SW	3	NE	2	2·3	6·3	50	6	..	..	..	..	5	Ci., Ci.-Cu	WSW	..	..	10	A.-Cu.	SW	..	..	7·0
2	NE	2	NNE	3	N	3	2·7	3·3	26	7	{Ci., A.-Cu.	SSW SW}	..	..	7	A.-Cu.	SW	St.-Cu.	SW	10	..	..	≡	..	8·0
3	NNW	2	WSW	3	S	2	2·3	11·5	88	3	Ci.	..	Cu.-Nb.	NNW	6	Ci.	WSW	Cu.-Nb.	WNW	7	..	..	St.-Cu.	SW	5·3
4	WSW	3	WSW	5	SSW	5	4·3	9·8	76	8	..	..	St.-Cu., Nb.	W	3	..	..	Cu.	WNW	8	..	..	St.-Cu.	NW	6·3
5	WSW	3	SW	4	SW	6	4·3	2·0	15	8	..	..	Nb.	W	10	..	..	..	..	10	..	..	Nb.	..	9·3
6	WSW	5	WSW	5	SW	5	5·0	7·8	60	4	A.-Cu.	NW	Cu.-Nb.	WNW	3	Ci., A.-Cu.	W	Cu.	W	10	..	..	Nb.	..	5·7
7	WSW	4	SW	4	WSW	5	4·3	8·3	63	2	Ci.	W	Cu.	..	6	Ci.	W	Cu.	WNW	4	..	..	Cu.	..	4·0
8	WNW	3	W	4	W	4	3·7	8·4	63	7	..	..	Cu.-Nb.	NW	2	Ci.-Cu.	..	Fr.-Cu.	WNW	2	..	..	Cu.	WNW	3·7
9	S	4	SSW	5	S	6	5·0	0·0	0	10	..	..	..	..	10	..	..	St.-Cu.	SW	10	..	..	Nb.	..	10·0
10	SSW	4	SSW	4	S	4	4·0	9·7	73	2	Ci.	SW	..	..	8	..	..	St.-Cu.	SW	9	..	..	..	..	6·3
11	SSW	4	W	4	WNW	2	3·3	7·6	57	10	..	..	Nb.	WSW	6	A.-Cu.	SW	Cu.	WNW	4	..	..	..	..	6·7
12	NNE	1	SSW	2	NE	3	2·0	13·4	99	0	..	..	..	..	2	..	..	Cu.	W	0	..	..	..	..	0·7
13	ENE	1	—	0	NNW	4	1·7	6·0	45	4	Ci.	WSW	..	..	10	A.-Cu.	SW	..	..	3	..	..	..	..	5·7
14	NNE	3	NNE	4	NE	4	3·7	11·0	81	7	A.-Cu.	SW	..	..	7	Ci.-St.	S	..	..	0	..	..	..	..	4·7
15	ENE	4	ENE	6	ENE	7	5·7	13·6	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
16	ENE	5	ENE	6	ENE	6	5·7	13·7	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
17	ENE	5	ENE	5	E	5	5·0	13·7	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
18	E	3	ENE	4	ENE	5	4·0	13·8	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
19	ENE	4	ENE	3	ENE	5	4·0	13·8	100	0	..	..	..	..	1	..	..	..	..	0	..	..	..	..	0·3
20	ENE	1	ENE	1	NE	4	2·0	13·9	100	1	St.	..	..	..	0	..	..	..	..	0	..	..	..	..	0·3
21	NE	1	SSW	2	SSE	4	2·3	12·7	91	0	..	..	..	..	0	..	..	..	..	9	..	..	Cu.-Nb.	..	3·0
22	—	0	W	1	W	3	1·3	12·7	90	6	{Ci., A.-Cu.	NW NE}	..	..	2	Cu.	NW	..	..	2	..	..	Cu.-Nb.	..	3·3
23	WSW	3	WNW	4	NW	3	3·3	4·0	28	10	..	..	..	..	8	..	..	Cu.-Nb.	WNW	0	..	..	..	..	6·0
24	NW	2	W	4	WNW	4	3·3	7·1	50	6	Ci.	..	..	..	10	..	..	Cu.-Nb.	W	2	..	..	Cu.-Nb.	..	6·0
25	N	3	NNE	3	ENE	5	3·7	10·1	71	6	A.-Cu.	NE	Cu.	N	6	..	..	..	..	0	..	..	..	..	4·0
26	NE	4	NE	4	NE	5	4·3	12·9	91	6	..	..	Cu.	ENE	0	..	..	..	..	1	..	..	..	..	2·3
27	ENE	4	ENE	3	NE	5	4·0	14·3	100	2	Ci.	..	Fr.-Cu.	..	0	..	..	..	..	0	..	..	..	..	0·7
28	NE	4	ENE	4	NE	6	4·7	14·4	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
29	ENE	4	SW	1	NNE	3	2·7	9·9	70	1	A.-Cu.	..	..	..	7	..	..	..	..	4	..	..	..	..	4·0
30	SE	1	NE	3	NE	4	2·7	4·0	28	8	A.-Cu.	SW	St.-Cu.	SW	6	Ci.-Cu.	NW	Cu.	NE	10	..	..	Nb.	..	8·0
Means	3·0		3·5		4·3		3·6	289·7	71	4·1	—	—	—	—	4·2	—	—	—	—	3·8	—	—	—	—	4·0
Normal	3·6		4·0		3·6		3·7	216·8	53	5·9	—	—	—	—	5·0	—	—	—	—	5·2	—	—	—	—	5·4

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	12·7	16·0	18·4	15·8	81·4	84·2	81·1	*n* 84·4	80·9	*n* 82·4	80·9	81	57	71	70	—	
2	18·7	14·7	12·8	15·4	80·3	86·8	85·9	88·2	79·5	84·1	77·1	60	50	66	59	—	Ci. in long threads 10 h. ⊕
3	12·3	13·0	10·8	12·0	85·1	88·9	86·5	90·0	84·1	86·9	81·5	87	68	88	81	5·0	●⁰ 4 h.
4	09·4	08·6	07·1	08·3	85·0	86·9	84·4	87·9	84·4	85·7	84·7	100	90	90	93	5·2	● *n.* and till 6 h. Continuous from
5	04·7	04·2	05·5	04·8	84·3	85·7	84·0	86·9	83·5	84·9	81·6	87	80	96	88	—	●⁰ 4 h. and 9 h. [11 h. 30 m.
6	06·3	03·1	99·5	03·0	83·8	83·1	84·1	86·3	83·2	84·1	80·3	59	88	100	82	3·8	● 13 h. ≡ 17 h. till night.
7	00·4	99·9	98·6	99·6	84·9	87·9	83·1	88·8	82·7	85·5	83·1	90	79	98	89	*x* 6·2	● morning. ●² 18 h.
8	01·4	03·8	05·0	03·4	83·1	85·0	81·6	85·9	81·1	83·3	75·6	71	54	57	61	0·2	● 10 h. 45 m.
9	06·4	11·2	14·4	10·7	82·1	84·2	82·1	85·3	80·5	82·8	76·1	71	57	65	64	0·6	[15 m. ≡ from 18 h.–20 h.
10	16·4	15·0	13·0	14·8	82·3	83·2	83·9	84·8	*n* 79·0	82·6	*n* 71·4	69	86	100	85	2·0	●⁰ 10 h. Continuous ● from 12 h.
11	12·3	11·9	11·5	11·9	83·3	84·9	81·8	86·2	81·7	83·6	81·5	94	65	84	81	—	●⁰ 21 h.
12	14·4	18·3	20·7	17·9	82·0	84·4	80·8	85·0	80·6	82·6	76·2	67	62	80	70	—	
13	20·2	20·2	19·4	19·9	83·1	86·1	82·9	86·9	80·0	83·8	71·8	83	55	88	75	—	
14	19·1	19·1	18·7	19·0	84·7	90·3	84·6	90·9	83·5	86·8	77·3	90	57	81	76	—	≡⁰ in town and over sea 13 h.
15	18·4	17·6	17·4	17·8	87·2	90·5	84·1	91·7	82·2	87·1	74·8	69	56	84	70	—	≡⁰ in town 8 h. Fine from 10 h.
16	17·6	16·7	18·2	17·5	85·1	89·8	85·4	90·4	83·1	86·8	79·3	86	44	65	65	—	
17	19·4	19·4	20·3	19·8	86·0	91·0	85·1	92·2	83·2	87·5	79·4	77	46	75	66	—	
18	20·4	20·4	20·7	20·6	86·0	90·8	86·4	92·6	83·3	87·8	75·3	66	62	66	65	—	Ci. from E. to S. 7 h., and in W. 14 h.
19	21·6	22·2	22·7	22·2	89·0	93·6	86·8	94·4	*x* 84·5	89·7	77·4	59	*n* 37	57	51	—	
20	22·6	22·4	22·0	22·3	87·1	93·9	87·3	95·9	84·0	89·6	78·4	67	45	49	54	—	
21	21·5	20·7	19·4	20·6	89·2	94·5	85·5	94·9	83·3	89·5	76·2	50	56	84	63	—	[(very heavy 18 h.).
22	16·3	12·4	08·3	12·3	88·5	99·3	88·8	*x* 99·4	83·4	*x* 91·9	78·2	76	46	88	70	4·0	Fine weather ended by ⅋ at 15 h. 30 m.
23	07·2	08·8	11·9	09·4	86·4	88·3	84·1	89·8	84·0	86·5	81·6	94	77	83	85	1·2	●⁰ 15 h. 30 m. o. at 8 h. ⊺ 9 h. 15 m.
24	13·2	14·4	15·5	14·4	83·9	84·4	82·7	86·5	82·1	83·9	79·8	82	76	79	79	0·3	●⁰ 13 h. 30 m. ●⁰ 14 h. ● 19 h.
25	17·6	17·4	16·8	17·2	83·1	84·1	82·0	86·6	81·4	83·4	77·3	64	65	68	66	0·2	●⁰ 12 h. 45 m. and 13 h. 50 m.
26	15·6	15·1	15·1	15·2	81·7	84·1	81·6	85·1	80·3	82·6	74·9	41	46	67	51	—	
27	15·4	16·2	18·0	16·6	83·1	86·1	82·6	87·3	80·9	84·0	74·4	61	44	72	59	—	
28	17·9	17·1	15·6	16·8	85·1	88·1	85·0	89·7	83·0	86·2	76·4	82	61	91	78	0·3	≡ over town 7 h. ● 19 h. 10 m.
29	13·9	13·0	12·6	13·1	85·0	87·7	84·6	88·2	*x* 84·5	86·0	82·5	86	65	90	80	—	
30	12·0	13·1	14·4	13·1	84·5	89·7	83·8	91·3	82·4	86·3	76·1	94	64	95	84	0·1	≡ over town 4 h. ●⁰ 6 h. 30 m.
31	15·0	14·7	12·8	14·2	85·5	88·7	84·5	89·9	82·4	86·2	75·1	96	61	93	83	0·2	●⁰ shower 19 h. 30 m.
Means	14·2	14·2	14·2	14·2	84·6	87·9	84·1	89·1	82·3	85·6	77·9	76	61	80	72	29·3	
Normal	09·6	09·8	10·3	09·9	84·0	87·4	83·7	88·5	81·9	85·1	78·9	81	66	81	76	41·2	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	ENE	4	ENE	5	ENE	5	4·7	3·0	21	10	..	..	Cu.-Nb.	ENE	8	..	..	St.-Cu.	NE	7	..	..	St.-Cu.	ENE	8·3
2	E	5	E	3	E	2	3·3	11·5	79	2	Ci.	..	..	..	4	Ci.	..	..	..	5	Ci.-Cu.	WSW	..	..	3·7
3	SSW	3	SW	3	SSW	3	3·0	5·8	40	9	A.-Cu.	S	St.-Cu.	S	5	Ci.-Cu.	W	..	..	10	..	..	..	..	8·0
4	WSW	4	SW	3	WSW	3	3·3	1·2	8	10	..	..	Nb.	..	10	..	..	Nb.	WSW	3	A.-Cu.	W	..	..	7·7
5	SW	5	WSW	5	WSW	4	4·7	4·8	32	8	..	..	St.-Cu., Cu.-Nb.	W	8	Ci.-Cu.	..	Cu.-Nb.	W	10	..	..	..	..	8·7
6	W	4	SSW	2	WSW	6	4·0	6·8	5	9	..	..	St.-Cu.	..	10	..	..	Nb.	SW	10	..	..	Nb.	..	9·7
7	WSW	6	WSW	5	WSW	5	5·3	4·1	28	10	..	..	Nb.	W	6	..	..	Fr.-Cu.	WSW	10	..	..	Nb.	..	8·7
8	W	5	W	6	W	4	5·0	13·0	87	3	Ci.-Cu.	..	Fr.-Cu.	W	5	..	..	Cu.	WNW	3	..	..	Cu.	W	3·7
9	NW	5	NW	4	NNW	3	4·0	2·3	16	10	..	..	Cu.-Nb.	NW	8	..	..	Cu.	NW	6	..	..	..	..	8·0
10	W	2	WSW	5	WSW	4	3·7	2·0	13	10	A.-Cu.	N	Cu.-Nb., Nb.	NW	10	..	..	Nb.	W	10	..	..	Nb.	..	10·0
11	W	2	W	4	WNW	3	3·0	2·9	19	10	..	..	{St.-Cu., Fr.-Nb.}	{WNW, NW}	8	..	..	St.-Cu.	WNW	8	..	..	Nb.	..	8·7
12	NNW	4	NNE	4	N	1	3·0	12·8	85	5	..	..	Cu.	N	2	..	..	Cu.	N	3	Ci.	..	..	..	3·3
13	—	0	WSW	4	NW	2	2·0	7·1	47	7	A.-Cu.	..	Nb.	W	6	A.-Cu.	NNE	..	..	10	..	..	..	..	7·7
14	N	2	Var.	1	NE	2	1·7	6·0	40	10	..	..	..	..	8	..	..	St.-Cu.	NE	0	..	..	..	..	6·0
15	NE	2	ENE	4	ENE	4	3·3	12·2	80	6	..	..	St.-Cu.	NE	0	..	..	..	..	0	..	..	..	..	2·0
16	ENE	4	ENE	5	NE	4	4·3	15·3	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
17	NNE	3	NNE	4	NNE	1	2·7	15·3	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
18	NNE	3	NNE	3	NNE	2	2·7	15·4	100	1	Ci.-Cu.	..	..	..	0	..	..	..	..	0	..	..	..	..	0·3
19	NNE	3	NNE	3	NNE	2	2·7	15·4	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
20	NE	2	N	2	NNE	1	1·7	15·5	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
21	—	0	WSW	2	NNE	2	1·3	15·5	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
22	ENE	3	SSE	3	NE	2	2·7	11·6	74	0	..	..	..	..	0	..	..	..	..	6	A.-Cu.	SW	..	..	2·0
23	WSW	1	W	3	NNW	2	2·0	4·8	31	10	..	..	..	..	8	..	..	{St.-Cu., Cu.-Nb.}	{WSW, WNW}	3	..	..	..	..	7·0
24	N	4	NNE	4	NE	3	3·7	4·2	27	8	..	..	St.-Cu.	NNE	10	..	..	Nb.	..	5	..	..	..	..	7·7
25	NE	4	NNE	4	NE	2	3·3	12·5	80	4	..	..	..	..	8	..	..	{Fr.-Cu., Cu.-Nb.}	NE	8	A.-Cu.	..	..	..	6·7
26	NNE	4	N	4	N	1	3·0	11·8	76	2	..	..	Cu.	NNE	5	..	..	Fr.-Cu.	NE	3	A.-Cu.	NE	..	..	3·3
27	NNE	3	N	4	NNW	1	2·7	15·7	100	0	..	..	..	..	2	..	..	Cu.	..	3	Ci., A.-Cu.	..	..	..	1·7
28	NNW	3	NW	4	NW	2	3·0	9·3	59	6	..	..	St.-Cu.	NE	5	A.-Cu.	NNE	..	..	10	..	..	Nb.	SW	7·0
29	N	3	NW	3	WNW	1	2·3	0·7	4	10	..	..	..	..	10	..	..	..	..	10	..	..	..	..	10·0
30	—	0	WSW	3	—	0	1·0	7·2	46	10	..	..	..	..	3	..	..	Cu.	..	2	A.-Cu.	..	..	..	5·0
31	N	1	WNW	3	WNW	2	2·0	6·7	43	8	A.-Cu.	ENE	Fr.-Cu.	NNW	2	A.-Cu.	N	..	..	10	..	..	Nb.	..	6·7
Means	3·0		3·6		2·6		3·1	265·9	55	5·7	—	—	—	—	4·9	—	—	—	—	5·0	—	—	—	—	5·2
Normal	3·5		3·9		3·4		3·6	254·6	54	6·3	—	—	—	—	5·4	—	—	—	—	5·0	—	—	—	—	5·6

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	REMARKS.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	14·0	15·4	15·5	15·0	83·1	87·6	83·2	88·2	82·5	84·9	79·2	81	57	73	70	0·5	
2	13·5	13·5	15·4	14·2	85·0	89·1	84·5	90·8	81·3	86·1	*n* 72·2	75	*n* 36	91	67	—	
3	17·5	17·1	16·2	16·8	85·7	91·9	85·6	92·4	82·0	87·5	73·6	90	64	75	76	—	●⁰ 8 h. After 14 h. clear sky.
4	14·0	12·6	12·4	13·1	87·2	90·7	87·5	92·1	82·5	88·0	76·5	72	50	78	67	—	Cloudless sky till 20 h.
5	14·0	12·2	12·0	12·7	86·0	89·4	87·3	90·8	83·7	87·4	79·8	79	50	78	69	—	7 h. Sky misty. ⊕ 9 h. ●⁰ 20 h. 30 m.
6	12·2	13·4	13·4	13·0	88·3	90·1	85·4	90·7	85·3	88·0	81·8	75	65	94	78	—	
7	08·8	06·3	00·6	05·2	85·6	86·1	82·1	87·5	82·1	84·7	79·6	93	60	78	77	1·3	● 7 h. Squall with ▲ and ● 18 h. 45 m.
8	96·8	97·4	97·4	97·1	80·9	85·9	82·8	*n* 86·5	*n* 79·8	*n* 83·2	75·8	89	55	77	74	*x* 4·0	● in past *n*.
9	95·1	96·8	98·6	96·8	82·1	86·5	83·5	87·9	80·8	84·2	78·3	92	60	80	77	3·5	↖ ● 0 h. 35 m. ⊤ in S. 15 h.
10	98·4	99·6	02·7	00·3	84·8	85·9	86·7	89·2	82·5	85·8	75·6	77	78	79	75	2·2	● 10 h. 45 m. ● 15 h. 30 m. ●⁰ 21 h.
11	03·1	04·7	04·7	04·2	88·1	87·7	86·3	90·1	83·6	87·2	78·8	77	61	79	72	—	●⁰ 11 h. 45 m. and 14 h.
12	04·8	06·3	08·4	06·6	86·3	90·6	87·7	93·0	84·7	88·5	81·7	92	71	83	82	—	⊤ in S. 16 h.
13	07·6	05·5	05·1	06·0	87·1	91·8	89·4	92·8	86·3	89·5	82·7	95	74	72	80	0·1	● 6 h. 15 m. ≡ 10 h. [45 m.
14	04·7	06·6	08·6	06·7	87·8	92·4	87·6	93·8	87·0	89·7	84·4	91	72	93	85	—	Horizon overcast in E. and N.E. 11 h.
15	10·0	10·7	10·8	10·4	88·2	91·1	87·5	93·5	86·8	89·4	80·2	93	81	81	85	0·2	●⁰ 5 h. and 8 h. ≡⁰ 10 h. ≡ over sea.
16	10·8	12·2	13·2	12·0	86·8	88·6	85·7	89·2	85·6	87·2	80·4	79	78	92	83	0·2	● 11 h. ●⁰ 14 h.
17	13·1	13·1	12·0	12·7	86·3	89·6	86·5	91·6	84·5	87·7	81·1	86	72	86	81	—	
18	11·6	11·8	13·0	12·2	89·1	90·9	86·0	92·9	84·6	88·7	77·2	77	71	92	80	—	
19	13·9	13·9	12·8	13·5	87·1	89·1	85·6	90·2	84·8	87·4	77·5	88	83	93	88	—	≡⁰ 10 h.
20	10·8	08·7	06·7	08·7	86·8	90·8	87·1	91·4	85·7	88·4	76·6	90	74	93	86	—	≡⁰ over sea.
21	06·2	06·8	08·3	07·1	86·1	89·9	85·4	90·5	84·9	87·4	80·3	75	56	77	69	0·1	●⁰ 8 h. ●⁰ shower 8 h. 40 m.
22	10·4	12·7	13·5	12·2	86·3	89·3	86·5	90·5	83·4	87·2	85·6	76	58	93	76	1·2	●⁰ 7 h. ● 8 h. and 21 h.
23	14·3	14·6	15·0	14·7	86·9	86·5	86·4	89·0	85·4	86·8	84·4	90	94	96	93	4·9	Continuous ● from 12 h. 30 m.
24	19·0	21·6	22·3	21·0	87·5	91·7	86·7	92·8	83·7	88·5	77·8	72	49	92	71	—	d. 6 h. 15 m.
25	22·3	22·2	21·4	21·9	86·4	88·6	87·7	90·9	85·4	87·8	83·3	93	89	92	91	—	≡ 5 h. 30 m.–7 h. 15 m.
26	20·6	18·8	18·0	19·1	86·6	95·1	89·1	96·0	85·3	90·4	79·3	98	63	74	78	—	
27	18·6	19·2	20·3	19·4	90·7	96·7	89·8	97·5	*x* 88·2	92·6	84·7	73	41	63	59	—	Very fine after 8 h. 30 m.
28	21·2	21·0	20·7	21·0	91·5	96·2	88·7	96·8	86·9	92·0	81·6	68	49	82	66	—	Very fine. St. or Ci. 20 h. 30 m.
29	20·8	19·9	18·2	19·6	89·9	95·1	89·8	96·7	86·4	91·6	78·9	81	53	74	69	—	Fine.
30	15·0	12·2	10·3	12·4	92·7	101·4	94·2	*x* 102·9	87·9	*x* 95·8	82·1	68	35	68	57	—	Cloudless sky till 21 h. ≺ in W. 22 h.
Means	11·4	11·6	11·6	11·5	86·9	90·5	86·7	91·9	84·5	88·1	79·7	83	63	82	76	18·2	
Normal	10·4	10·6	10·7	10·6	86·6	89·9	86·2	91·1	84·5	87·7	81·5	84	67	83	78	48·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).			Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.															Mean Amount.
					Total.	Per cent. of Possible.	Tenths.	Upper. Type.	Upper. Direction.	Lower. Type.	Lower. Direction.	Tenths.	Upper. Type.	Upper. Direction.	Lower. Type.	Lower. Direction.	Tenths.	Upper. Type.	Upper. Direction.	Lower. Type.	Lower. Direction.	
	7 h.	14 h.	21 h.				7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%																
1	NNE 3	NNW 3	NNW 1	2·3	11·4	79	10	..	..	Cu.-Nb., Nb.	N	1	..	..	..	..	4	..	..	..	..	5·0
2	SW 3	SW 3	NNE 2	2·7	14·0	88	4	Ci.-Cu., A.-Cu.	..	..	..	4	Ci.-Cu.	ENE	..	..	1	A.-Cu.	..	..	..	3·0
3	NNE 2	NE 3	ENE 3	2·7	7·5	47	9	A.-Cu.	NE	Cu.-Nb.	N	2	..	..	Cu.	ENE	0	..	..	..	..	3·7
4	NE 3	N 3	N 2	2·7	16·0	100	0	..	..	..	..	0	..	..	..	..	3	..	..	Fr.-Cu.	NE	1·0
5	NNE 2	NNW 3	NNW 3	2·7	11·4	71	3	..	..	..	..	3	..	..	Cu.	WNW	8	..	..	..	..	4·7
6	NNW 3	N 3	NW 1	2·3	7·5	47	6	..	..	St.-Cu.	N	7	A.-Cu.	N.	Cu.-Nb.	NNE	3	Ci.-Cu., A.-Cu.	..	..	..	5·3
7	W 4	NW 5	WNW 3	4·0	3·7	23	10	..	..	Nb.	..	7	A.-Cu.	W	St.-Cu.	WNW	6	A.-Cu.	W	Cu.-Nb.	..	7·7
8	— 0	N 5	NNW 3	2·7	9·6	54	8	..	..	St.-Cu., Fr.-Cu.	N	6	A.-Cu.	NE	..	..	3	..	..	..	..	5·7
9	— 0	ESE 2	NE 1	1·0	5·4	34	8	..	..	Fr.-Cu.	E	7	A.-Cu.	E	..	..	2	..	..	..	..	5·7
10	E 3	E 4	E 4	3·7	6·6	41	3	Ci.	NE	..	..	10	..	..	Nb.	SSE	8	A.-Cu.	SE	Nb.	E	7·0
11	NE 4	NE 5	NE 3	4·0	2·6	16	5	A.-Cu.	ENE	..	..	10	..	..	Nb.	..	8	A.-Cu.	NE	..	..	7·7
12	NE 2	NE 3	NE 2	2·3	8·7	54	10	..	..	..	..	1	..	..	..	..	2	A.-Cu.	..	..	..	4·3
13	NNE 1	NNE 3	NE 2	2·0	4·1	25	10	..	..	..	..	2	A.-Cu.	NE	Cu.	NE	1	..	..	..	..	4·3
14	ENE 3	E 2	SW 1	2·0	4·1	25	10	..	..	..	..	9	..	..	..	..	3	A.-Cu.	ENE	..	..	7·3
15	— 0	— 0	NNE 2	0·7	5·7	35	10	..	..	..	..	7	..	..	..	..	4	..	..	Fr.-Cu.	ENE	7·0
16	ENE 3	NE 2	NNE 1	2·0	1·0	6	9	A.-Cu.	NE	..	..	10	..	..	Nb.	NNE	4	A.-Cu.	..	..	..	7·7
17	E 2	WSW 2	NNE 2	2·0	6·8	42	9	..	..	St.-Nb.	E	10	..	..	Cu.	ENE	3	A.-Cu.	..	..	..	7·3
18	N 1	NNW 2	NNW 1	1·3	11·3	70	2	Ci.	..	Cu.	S	8	..	..	Cu.	..	3	Ci.	..	..	..	4·3
19	SSW 2	WNW 2	NW 1	1·7	3·5	21	8	..	..	Cu.-Nb.	..	10	..	..	..	..	2	..	..	..	..	6·7
20	SW 2	SW 2	ESE 2	2·0	1·1	6	10	..	..	..	..	8	..	..	..	..	9	..	..	..	..	9·0
21	W 3	WSW 4	WNW 2	3·0	10·0	62	6	..	..	Cu.	W	5	A.-Cu.	SW	Fr.-Cu.	WNW	4	..	..	Fr.-Cu.	WSW	5·0
22	WNW 1	WSW 4	WSW 4	3·0	7·6	47	7	Ci.	N	Cu.-Nb.	WNW	5	A.-Cu.	..	Fr.-Cu.	NW	10	..	..	Nb.	SW	7·3
23	WSW 4	WSW 4	WSW 4	4·0	0·0	0	10	..	..	Nb.	W	10	..	..	Nb.	WSW	10	..	..	Nb.	..	10·0
24	NW 1	WNW 2	NW 1	1·3	15·9	99	3	Ci., Ci.-Cu.	NW	..	..	0	..	..	..	..	3	Ci.	..	..	..	2·0
25	W 2	W 2	NNW 1	1·7	3·5	22	10	..	..	Nb.	W	10	..	..	..	..	7	A.-Cu.	..	..	..	9·0
26	— 0	ENE 4	ENE 3	2·3	13·0	80	10	..	..	≡	..	2	..	..	..	..	6	A.-Cu.	..	St.-Cu.	..	6·0
27	ENE 1	NNE 2	NE 2	1·7	13·0	80	8	..	..	..	..	2	..	..	..	..	0	..	..	..	..	3·3
28	— 0	N 2	NE 3	1·7	16·2	100	0	..	..	..	..	2	..	..	..	..	2	..	..	..	..	1·3
29	— 0	NNE 2	ENE 1	1·0	16·1	100	3	Ci.	..	..	..	0	..	..	..	..	0	..	..	..	..	1·0
30	— 0	SW 1	ENE 3	1·3	16·1	99	0	..	..	..	..	0	..	..	..	..	1	Ci.-Cu.	..	..	..	0·3
Means	1·8	2·8	2·1	2·3	253·3	53	6·7	—	—	—	—	5·3	—	—	—	—	4·0	—	—	—	—	5·3
Normal	3·4	3·7	3·2	3·4	244·3	51	6·9	—	—	—	—	5·5	—	—	—	—	5·3	—	—	—	—	5·9

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	06·6	03·2	00·8	03·5	97·1	100·2	93·5	x103·5	x 91·3	x 97·1	87·9	59	n 53	73	62	0·5	T ●⁰ 15 h. 30 m.
2	00·2	00·6	99·5	00·0	89·4	89·7	89·1	92·2	87·8	89·6	86·7	96	90	95	94	3·6	≡ 10 h. ● 14 h.
3	04·7	10·6	14·8	10·0	87·8	90·7	86·6	91·2	85·9	88·4	84·7	87	61	75	74	0·3	
4	15·2	12·6	09·4	12·4	87·1	92·0	89·7	93·0	84·0	89·2	n76·3	77	54	73	68	—	
																	[last long.
5	04·6	03·1	04·3	04·0	86·1	87·0	86·3	n 89·0	85·6	86·8	84·3	97	98	89	95	10·0	● from 0 h.–16 h. ≡ 14 h., but did not
6	04·3	05·6	07·2	05·8	86·0	88·3	86·5	90·3	84·6	87·1	82·0	87	65	83	78	4·6	● 7 h. 45 m., 15 h. 50 m., and 21 h.
7	09·5	11·9	11·8	11·1	86·6	90·5	87·8	91·3	85·5	88·3	81·7	77	63	88	76	6·9	● began at 21 h.
8	12·0	13·8	15·8	13·9	88·1	89·4	87·7	90·3	87·3	88·6	86·7	98	96	93	96	4·0	≡ ● all morning.
9	17·1	17·1	16·6	17·0	89·7	92·7	89·4	94·4	86·4	90·5	82·9	80	75	87	81	—	
10	14·8	12·3	11·4	12·8	89·9	96·7	91·7	96·9	86·6	92·4	83·2	80	66	80	75	—	Cloudless day.
11	10·6	10·8	11·5	11·0	93·4	98·1	88·8	98·8	88·5	93·5	87·9	71	59	91	74	—	Glow to the N.N.W. 4 h.
12	11·8	14·3	15·2	13·8	88·0	91·6	88·3	92·5	87·9	89·7	86·4	98	74	92	88	x 22·3	⌇ (no rain) 0 h. 45 m. ● with storm
13	15·5	14·8	13·0	14·4	89·0	94·1	91·9	95·7	87·4	91·6	84·3	93	61	83	79	—	[in W. 2 h. ⌇ in distance 4 h.
14	11·9	11·0	10·0	11·0	90·5	95·1	89·0	95·7	88·0	91·7	84·3	85	73	83	80	0·3	● 9 h. 45 m. ●⁰ shower 17 h.
15	09·1	10·0	11·8	10·3	88·3	91·2	87·7	91·9	87·2	89·3	84·6	88	70	87	82	—	Overcast in N. 8 h.
16	12·8	13·8	14·0	13·5	89·2	89·7	88·4	90·9	87·3	89·1	84·8	76	78	92	82	0·1	● 5 h. ●⁰ 17 h.
17	13·1	14·4	15·1	14·2	88·0	91·7	88·9	92·3	87·5	89·7	86·9	98	67	98	88	0·4	Continuous ≡ from 17 h. 30 m.
18	14·0	13·0	10·2	12·4	88·3	92·8	89·8	94·4	87·4	90·5	87·3	93	70	81	81	—	●⁰ 5 h. [S. with T.
19	03·8	97·1	91·1	97·4	89·5	94·0	89·6	94·0	87·9	91·0	82·8	95	64	96	85	13·2	●⁰ shower 6 h. ● 14 h. 30 m. Dull in
20	90·8	93·6	97·8	94·0	88·4	93·2	88·6	94·2	87·6	90·4	85·2	83	62	86	77	0·3	Squall at sea 17 h. ● 17 h. 45 m.
21	01·0	02·7	03·8	02·4	91·1	93·2	89·2	94·8	86·3	90·9	81·1	74	61	92	76	—	
22	01·8	00·3	01·4	01·1	90·3	89·7	87·3	92·7	87·1	89·4	82·0	87	93	86	89	6·2	≡ ● 14 h. 30 m. T 15 h. 30 m. ●
23	04·4	07·1	05·2	05·6	88·1	90·1	88·3	90·9	86·5	88·8	82·3	74	61	98	78	0·3	d. 19 h. [17 h. 45 m.
24	04·7	05·8	04·7	05·1	88·1	89·1	87·0	90·7	86·2	88·2	84·6	80	77	98	85	5·7	● 4 h. 30 m. d. 9 h. ●⁰ 14 h. ● 21 h.
25	03·6	04·8	04·8	04·4	87·3	89·3	87·4	90·3	86·0	88·1	82·7	92	73	79	81	0·9	● 9 h.
26	04·0	03·9	02·0	03·4	87·3	88·7	86·0	89·7	84·1	87·2	84·3	72	71	73	72	3·7	● 4 h. 30 m., 7 h. 45 m., 9 h. 50 m., and
27	99·9	00·7	01·5	00·7	83·8	89·2	86·4	89·3	n 83·7	n 86·5	82·6	93	68	86	82	5·4	● 16 h. [16 h. 30 m.
28	01·2	02·3	03·2	02·3	87·3	90·1	86·9	91·2	86·1	88·3	83·3	84	69	90	81	—	[18 h. E. and S. dull.
29	05·5	07·2	08·4	07·1	89·1	90·4	88·2	93·2	84·3	89·0	78·8	79	70	91	80	—	7 h. great mass of cloud on S. horizon.
30	11·0	12·8	12·8	12·3	88·7	92·1	87·5	93·5	86·2	89·6	80·1	87	68	83	79	—	10 h., 16 h. milky-looking sky. 20 h. 30 m. yellow-red moon.
31	11·4	09·8	07·9	09·6	88·6	91·6	90·2	92·2	87·3	90·0	81·1	72	71	83	75	0·1	4 h. sky not clear. Short period of ● 14 h. 40 m.
Means	07·4	07·8	07·6	07·6	88·7	91·7	88·5	92·9	86·6	89·7	83·7	84	70	87	80	88·8	
Normal	11·1	11·4	11·4	11·2	88·8	92·2	88·3	93·4	86·4	89·8	83·3	82	66	83	77	44·3	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount
								hr.	%																
1	—	0	SSW	2	SSE	3	1·7	11·9	74	0	..	..	..	..	7	..	..	St.-Cu.	SSW	5	..	..	..	..	4·0
2	SSW	3	WSW	2	WSW	3	2·7	0·1	1	10	..	..	..	..	10	..	..	Nb.	..	10	A.-Cu.	SE	Nb.	SW	10·0
3	W	4	WNW	5	WNW	2	3·7	10·4	66	8	..	..	St.-Cu.	NW	3	..	..	Cu.	NNW	0	..	..	..	..	3·7
4	WSW	3	SSE	5	SW	3	3·7	11·4	71	5	Ci.-Cu., Ci.	NW	..	..	2	Ci.-Cu.	..	..	..	10	..	..	..	..	5·7
5	SSW	3	SSE	2	W	2	2·3	0·0	0	10	..	..	Nb.	..	10	..	..	≡	..	10	..	..	Nb.	..	10·0
6	WSW	4	WSW	3	WSW	3	3·3	9·1	56	6	..	..	Cu.-Nb.	..	7	..	..	Cu.	SW	8	A.-Cu.	SW	Cu.-Nb.	S	7·0
7	WSW	4	WSW	3	S	3	3·3	12·5	78	2	..	..	Cu.	WSW	2	..	..	Cu.	..	10	..	..	Nb.	..	4·7
8	WSW	4	W	3	W	3	3·3	2·3	14	10	..	..	Nb.	WSW	10	..	..	..	..	2	..	..	Fr.-Nb.	W	7·3
9	WNW	1	SSE	1	ENE	2	1·3	6·4	40	6	..	..	Cu.	W	5	..	..	Fr.-Cu.	W	0	..	..	..	..	3·7
10	ENE	3	NE	3	ENE	2	2·7	15·9	100	0	..	..	..	..	0	..	..	..	..	1	..	..	..	..	0·3
11	—	0	NW	2	NW	2	1·3	13·1	82	5	Ci.	SSW	..	..	1	Ci.-Cu.	..	..	..	4	..	..	..	..	3·3
12	NW	2	W	3	WNW	2	2·3	10·8	68	10	..	..	Nb.	NW	4	..	..	Cu.	NW	0	..	..	..	..	4·7
13	WSW	2	E	2	ENE	2	2·0	8·7	55	10	..	..	Nb.	SW	2	..	..	..	..	7	..	..	Cu.-Nb.	SSW	6·3
14	SW	3	S	2	NW	3	2·7	4·4	28	5	Ci.-Cu., A.-Cu.	SW	..	..	6	Ci.-Cu., A.-Cu.	SW	..	..	6	..	..	St.-Cu.	SSW	5·7
15	WSW	3	WSW	4	W	4	3·7	7·3	46	7	..	..	Cu.-Nb.	W	5	..	..	Cu.	W	4	..	..	Fr.-Cu.	W	5·3
16	WNW	3	W	4	W	3	3·3	2·9	18	7	..	..	{St.-Cu., Cu.-Nb.}	W WNW	10	..	..	Cu.-Nb., Nb.	NW	10	..	..	..	..	9·0
17	WNW	3	WNW	4	W	3	3·3	3·6	23	10	..	..	Nb.	WNW	5	A.-Cu.	WNW	Cu.	WNW	10	..	..	≡	..	8·3
18	W	3	WSW	3	WSW	2	2·7	4·6	29	10	..	..	Nb.	WNW	7	..	..	Cu.	W	10	..	..	..	..	9·0
19	WSW	3	E	2	S	5	3·3	1·1	7	10	..	..	..	..	10	..	..	..		10	..	..	Nb.	S	10·0
20	S	5	S	4	SSE	1	3·3	12·7	81	6	..	..	St.-Cu.	S	6	..	..	..		2	..	..	..	..	4·7
21	—	0	NNE	3	NNE	2	1·7	14·6	94	3	Ci.	ENE	..	..	3	A.-Cu.	..	..	..	4	Ci.	..	..	..	3·3
22	—	0	WSW	4	NNW	1	1·7	6·2	40	1	Ci.	..	..	..	10	..	..	≡	..	8	A.-Cu.	..	..	..	6·3
23	WNW	3	WSW	5	WSW	4	4·0	7·0	45	4	..	..	Cu.	NNW	7	A.-Cu.	NW	Cu.	NW	10	..	..	Nb.	..	7·0
24	W	3	W	4	WSW	3	3·3	4·7	30	6	..	..	St.-Cu.	NW	8	..	..	Cu.-Nb.	W	10	..	..	Nb.	..	8·0
25	WSW	3	WSW	5	W	4	4·0	9·4	61	6	..	..	St.-Cu.	WNW	7	..	..	{St.-Cu., Cu.-Nb.}	WNW	7	A.-Cu.	WNW	Cu.	NW	6·7
26	W	5	WSW	5	W	4	4·7	4·6	30	8	..	..	..	..	8	..	..	..	..	8	..	..	..	..	8·0
27	WNW	3	W	4	WNW	2	3·0	2·7	18	10	..	..	Nb.	NW	7	A.-Cu.	WNW	Cu.-Nb.	W	10	..	..	..	..	9·0
28	—	0	WSW	3	WSW	1	1·3	5·6	36	10	..	..	..	..	8	A.-Cu.	NW	Cu.-Nb.	WNW	6	..	..	..	..	8·0
29	—	0	NNW	1	N	1	0·7	10·5	68	1	..	..	Cu.	..	3	Ci.	SE	Cu.-Nb.	..	6	Ci.-Cu., Ci.	..	..	..	3·3
30	NNE	1	SW	2	NE	1	1·3	12·7	83	4	..	..	Cu.-Nb.	E	7	..	..	Cu., Cu.-Nb.	NE	0	..	..	..	..	3·7
31	SSE	3	SE	2	SSW	1	2·0	5·0	33	5	Ci.	..	..	..	9	..	..	..	..	10	..	..	..	..	8·0
Means	2·5		3·1		2·5		2·7	232·1	48	6·3	—	—	—	—	6·1	—	—	—	—	6·4	—	—	—	—	6·3
Normal	3·1		3·6		3·1		3·3	274·6	56	6·4	—	—	—	—	5·2	—	—	—	—	5·0	—	—	—	—	5·5

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	04·0	02·2	99·8	01·8	91·1	95·1	90·6	96·6	89·6	92·6	86·6	77	58	90	75	2·3	●⁰ 13 h. 30 m.–17 h. ● 20 h.
2	96·7	03·8	05·5	02·0	89·8	92·0	88·4	92·3	88·0	90·1	86·2	92	63	94	83	3·6	● 5 h. ●⁰ and squall at sea 16 h. 50 m. ● 17 h. 40 m.
3	05·8	04·8	03·9	04·8	88·1	91·0	87·8	*n* 91·4	87·0	89·1	84·3	85	79	85	83	2·8	● 12 h. Squall at sea 16 h.
4	03·0	02·7	02·2	02·6	87·3	91·0	87·4	91·8	86·6	88·8	83·3	85	71	90	82	7·3	● about 12 h. ● 20 h.
5	99·6	00·4	05·1	01·8	88·6	89·9	87·3	91·5	87·0	88·9	85·9	88	80	80	83	0·6	● until 6 h. ● (fine rain) 16 h.
6	08·4	09·6	09·6	09·2	87·6	91·0	88·3	91·7	86·2	89·0	83·3	84	71	98	84	6·8	● 8 h.–16 h.
7	08·3	11·5	14·0	11·2	86·1	90·8	86·3	*n* 91·4	85·5	*n* 88·0	85·7	98	66	90	85	*x* 14·7	● until 9 h.
8	13·4	13·8	14·0	13·8	89·0	90·9	90·8	91·7	87·0	89·9	88·8	89	94	75	86	0·8	● 5 h. and 13 h. 15 m.
9	14·7	14·4	15·4	14·8	90·1	94·6	89·6	96·7	88·7	91·9	87·3	89	74	91	85	—	
10	15·9	16·8	19·2	17·4	89·4	92·9	87·4	93·9	87·3	90·2	90·0	98	82	89	90	—	d. 4 h. ≡ 6 h.–9 h.
11	20·3	20·4	19·2	20·0	89·0	93·1	88·6	94·0	87·2	90·4	82·8	79	71	69	73	—	Very fine.
12	17·1	15·5	14·4	15·6	91·2	96·8	92·0	97·8	89·0	93·4	82·7	84	73	83	80	—	
13	13·4	12·3	11·4	12·3	94·8	100·2	92·9	101·0	*x* 92·3	*x* 96·2	89·1	84	68	80	77	—	
14	08·4	06·3	06·0	07·0	94·0	101·0	90·6	*x*101·5	89·5	95·3	88·3	82	66	96	81	5·0	Radiant ci. S.S.E.–N.N.W. 14 h. T with storm over Guernsey 16 h. 55 m. ⊼ in S. 18 h. 30 m. ● 20 h. 20 m. < 21 h.
15	06·8	07·1	06·7	07·0	89·3	92·2	89·4	93·6	88·2	90·5	86·5	96	78	92	89	1·1	
16	06·4	06·7	08·3	06·8	88·2	91·1	89·1	92·3	87·0	89·5	86·1	95	78	87	87	5·4	● during night till 6 h.
17	10·6	12·8	14·3	12·6	89·8	92·8	88·1	93·4	87·6	90·3	84·1	81	69	90	80	—	
18	14·4	14·3	13·9	14·2	88·9	93·5	87·7	93·5	*n* 85·3	89·8	*n* 78·5	90	59	88	79	—	
19	13·4	12·6	13·2	13·1	88·6	94·4	88·9	95·0	87·2	90·8	81·7	79	*n* 54	84	72	—	⊕ 7 h.
20	14·0	13·5	14·3	13·9	88·8	93·7	89·0	95·3	87·2	90·8	82·2	84	*n* 54	92	77	—	
21	13·9	14·2	14·3	14·2	89·6	92·8	88·8	94·0	87·8	90·6	83·7	93	72	84	83	—	
22	13·8	14·2	14·2	14·0	90·4	93·1	90·5	94·3	87·5	91·2	80·9	74	76	83	78	—	
23	14·0	12·8	10·0	12·3	90·3	95·3	91·0	96·7	89·9	92·6	87·9	90	75	92	86	—	Rain threatened 7 h.
24	07·9	07·0	09·2	08·0	92·1	96·3	90·1	97·2	89·7	93·1	83·8	78	*n* 54	92	75	—	●⁰ 16 h. 20 m.
25	11·5	11·6	09·5	11·0	89·7	92·2	89·1	93·3	88·2	90·5	85·3	82	63	76	74	—	
26	02·3	02·3	06·0	03·5	88·9	91·6	88·5	91·8	88·1	89·8	83·3	96	82	86	88	8·0	● 0 h.–10 h.
27	09·6	13·1	15·8	12·8	88·9	90·1	87·8	91·5	87·6	89·2	83·9	73	58	84	72	—	
28	18·8	20·4	21·6	20·3	88·9	91·5	87·3	92·2	87·0	89·4	82·8	85	66	84	78	—	
29	21·8	21·1	20·4	21·1	89·0	93·1	88·4	93·9	*n* 85·3	89·9	79·6	91	62	91	81	—	Cloudless sky.
30	19·5	19·4	19·0	19·2	89·1	94·2	87·8	95·9	*n* 85·3	90·5	80·7	88	62	90	80	—	Cloudless sky. 22 h. sky covered.
31	19·2	18·6	19·1	19·0	87·3	95·3	89·7	95·9	86·1	90·9	84·3	100	73	95	89	—	≡ till 10 h. Cloudless sky after 12 h.
Means	11·2	11·5	11·9	11·5	89·5	93·3	89·0	94·3	87·6	90·7	84·5	87	69	87	81	58·4	
Normal	10·3	10·3	10·6	10·4	89·0	92·4	88·8	93·3	87·1	90·1	83·9	83	66	82	77	56·9	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. Tenths. 7 h.	Upper. Type. 7 h.	Direction. 7 h.	Lower. Type. 7 h.	Direction. 7 h.	Tenths. 14 h.	Upper. Type. 14 h.	Direction. 14 h.	Lower. Type. 14 h.	Direction. 14 h.	Tenths. 21 h.	Upper. Type. 21 h.	Direction. 21 h.	Lower. Type. 21 h.	Direction. 21 h.	Mean Amount.
								hr.	%																
1	S	4	S	2	SW	2	2·7	7·6	50	2	..	..	..	..	10	..	..	Nb.	S	10	..	..	Nb.	..	7·3
2	SSW	5	WSW	5	SW	2	4·0	6·1	41	10	..	..	..	..	4	A.-Cu.	WSW	St.-Cu.	WSW	7	..	..	..	..	7·0
3	SW	3	WSW	3	SW	2	2·7	5·6	37	7	A.-Cu.	SW	Fr.-Nb.	WSW	6	A.-Cu.	SSW	Fr.-Nb.	WSW	8	..	..	..	..	7·0
4	SW	4	SSW	1	SSW	2	2·3	5·7	38	6	..	..	Cu.	WSW	7	A.-Cu.	SW	..	..	10	..	..	Nb.	..	7·7
5	SW	3	WSW	4	WSW	3	3·3	5·5	37	10	..	..	..	..	8	..	..	Cu.	W	6	..	..	Cu.	WNW	8·0
6	WSW	4	WSW	3	SW	3	3·3	4·1	27	7	..	..	Nb.	WSW	10	..	..	..	..	10	..	..	Nb.	..	9·0
7	—	0	W	3	—	0	1·0	8·3	56	10	..	..	Nb.	..	5	..	..	Cu.	WSW	1	..	..	..	..	5·3
8	SSW	4	SSW	3	SSW	3	3·3	0·0	0	8	..	..	St.-Cu.	WSW	10	..	..	Nb.	..	10	..	..	..	..	9·3
9	SSW	3	S	2	W	2	2·3	8·5	58	10	..	..	..	..	3	Ci.	..	..	..	1	..	..	..	..	4·7
10	—	0	WSW	2	NNW	1	1·0	4·0	27	10	..	..	≡	..	7	..	..	Cu.	NW	2	..	..	..	..	6·3
11	NNE	4	NNE	3	NNE	3	3·3	14·6	100	1	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·3
12	NE	4	NE	4	NE	3	3·7	11·6	79	3	A.-Cu.	WNW	..	..	6	Ci.-Cu.	WNW	..	..	2	..	..	..	..	3·7
13	ENE	3	NE	4	NE	4	3·7	14·3	99	2	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·7
14	ENE	3	ENE	3	W	2	2·7	10·7	74	0	..	..	..	..	3	Ci.-Cu.	SSE	..	..	10	..	..	Nb.	..	4·3
15	W	3	WSW	3	W	1	2·3	6·9	48	10	..	..	Nb.	WNW	6	A.-Cu.	WNW	Cu.-Nb.	WNW	8	Ci.	ESE	Cu.-Nb.	NW	8·0
16	NNE	2	N	3	N	1	2·0	5·4	37	10	..	..	Nb.	NE	6	Ci.	NE	Cu.-Nb.	NE	3	..	..	..	..	6·3
17	NNE	3	NNE	3	NNE	1	2·3	8·9	62	8	..	..	..	..	2	..	..	Cu.	NE	0	..	..	..	..	3·3
18	NE	2	NE	2	NE	1	1·7	11·2	79	7	..	..	St.-Cu.	NW	1	..	..	Cu.	NE	0	..	..	..	..	2·7
19	NE	2	NE	3	NE	2	2·3	13·5	95	6	Ci.-St.	..	..	..	1	..	..	..	..	3	..	..	..	..	3·3
20	NE	1	—	0	NE	1	0·7	6·4	45	6	Ci., A.-Cu.	SW	..	..	5	{Ci.-Cu. A.-Cu.}	SW	..	..	6	A.-Cu.	..	..	..	5·7
21	NNE	1	W	2	WSW	1	1·3	7·8	56	7	Ci.-Cu.	SW	Cu.-Nb.	NNW	7	Ci.	..	..	..	10	..	..	..	..	8·0
22	SW	1	SW	2	—	0	1·0	5·3	38	4	..	..	..	..	6	A.-Cu.	NW	..	..	8	..	..	..	..	6·0
23	SW	2	SSE	1	NE	3	2·0	6·1	44	10	..	..	Nb.	..	4	A.-Cu.	SW	..	..	0	..	..	..	..	4·7
24	E	2	SSW	3	WNW	3	2·7	10·9	78	4	Ci.	SSE	..	..	4	A.-Cu.	..	..	..	3	..	..	Cu.-Nb.	NNW	3·7
25	NW	2	WSW	3	—	0	1·7	12·7	91	2	..	..	..	..	1	..	..	..	..	8	..	..	Cu.-Nb.	SW	3·7
26	S	4	W	3	W	4	3·7	4·9	36	10	..	..	Nb.	SSW	10	..	..	Nb.	NW	2	..	..	Cu.-Nb.	WNW	7·3
27	W	4	NW	4	WNW	1	3·0	11·0	80	2	A.-Cu.	NW	Cu.	NW	5	..	..	Cu.	NNW	0	..	..	..	..	2·3
28	NNW	3	N	3	NNW	1	2·3	13·7	100	2	Ci.	..	..	..	1	..	..	..	..	0	..	..	..	..	1·0
29	—	0	N	2	NNE	1	1·0	13·7	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
30	—	0	N	2	NNE	2	1·3	13·6	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
31	—	0	NNE	2	NE	3	1·7	8·3	62	10	..	..	≡	..	0	..	..	..	..	0	..	..	..	..	3·3
Means		2·5		2·7		1·9	2·3	266·9	60	5·9	—	—	—	—	4·5	—	—	—	—	4·1	—	—	—	—	4·8
Normal		3·3		3·8		3·2	3·4	249·9	56	6·3	—	—	—	—	5·2	—	—	—	—	4·5	—	—	—	—	5·3

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	19·1	19·1	18·8	19·0	90·1	93·6	90·8	94·8	89·2	91·7	86·7	92	82	93	89	—	Sky became covered about 3 h. 30 m.
2	18·2	16·7	16·7	17·2	90·1	97·8	90·6	97·9	88·8	93·0	86·0	81	62	84	76	—	Cloudless sky. [Cleared at 20 h. 45 m.
3	15·8	14·6	13·0	14·4	91·2	99·2	91·1	*x* 99·4	89·4	*x* 94·1	86·5	88	54	74	72	—	Cloudless sky.
4	10·0	07·8	07·6	08·4	92·1	97·0	91·7	98·4	*x* 90·0	93·8	86·4	79	61	85	75	—	Much Ci. ≺ in E. and S. 20 h.
5	09·1	11·4	13·2	11·2	89·9	91·8	89·7	92·2	89·7	90·7	88·0	97	75	85	86	10·0	⟆ in distance 2 h. 30 m. ⟆ in S. and
6	13·9	13·9	13·4	13·8	89·7	95·1	90·7	96·4	88·2	92·0	83·7	83	71	88	81	—	[E. 16 h. ● till 10 h.
7	11·0	08·4	03·9	07·8	91·4	97·2	93·6	97·8	89·7	93·9	86·1	89	65	83	79	—	⊍ 4 h. ≺ in S. 20 h. ⊤ 21 h.
8	05·2	04·6	04·2	04·7	90·0	95·5	90·7	96·5	89·0	92·3	86·3	88	59	89	79	8·3	● 0 h. ⟆ in distance 0 h., ending at
9	02·2	00·4	01·9	01·5	90·1	92·0	89·8	92·9	89·2	90·8	85·7	89	85	92	89	9·6	● 9 h. 10 m. ● *n*. [2 h. ● 4 h. 20 m.
10	04·7	07·4	08·4	06·8	89·0	91·7	89·7	92·7	88·8	90·4	86·4	88	82	94	88	6·2	
11	07·0	06·2	10·0	07·6	89·1	91·0	87·5	91·2	86·3	89·0	86·8	77	71	83	77	8·4	● 4 h. 45 m. and 7 h. 30 m.–11 h. ●⁰
12	12·6	09·2	00·8	07·5	87·7	87·9	89·7	90·2	86·1	88·3	82·3	72	89	100	87	3·3	● 7h. 55 m., 13 h., and 15 h. [20 h. 45 m.
13	08·0	10·8	09·4	09·4	87·1	89·5	87·7	89·5	86·8	88·1	82·3	67	64	82	71	0·3	● 20 h. 30 m.
14	06·0	04·7	06·3	05·6	89·3	90·0	88·8	91·0	88·2	89·5	85·1	93	96	75	88	1·5	● 11 h. 30 m. ● showers.
15	09·1	08·8	08·8	09·0	86·5	89·4	85·9	90·5	85·5	87·6	82·2	81	74	85	80	—	
16	10·8	12·2	11·0	11·4	87·1	91·0	89·3	91·7	85·0	88·8	78·3	81	59	74	71	3·0	● 6 h. 5 m. ⊕ 14 h. ●⁰ shower 17 h.
17	03·5	02·3	07·6	04·4	87·1	90·0	87·3	88·7	87·0	88·0	85·3	97	75	68	80	*x* 20·7	● till 13 h. [35 m.
18	10·4	09·1	03·1	07·5	87·1	88·4	84·1	89·5	83·4	86·5	82·8	76	73	97	82	7·0	● during evening.
19	08·8	11·9	12·7	11·1	85·1	88·5	85·7	89·4	83·1	86·4	80·8	76	67	65	69	0·3	● during morning.
20	10·7	13·1	17·0	13·5	85·5	86·1	83·9	*n* 87·1	83·0	85·1	80·1	63	55	76	65	0·2	● during morning. ● 20 h. 15 m.
21	20·8	21·9	21·6	21·5	84·3	86·1	83·5	87·2	83·5	*n* 84·9	76·4	61	55	78	65	—	
22	21·5	21·9	22·0	21·8	84·2	88·2	84·1	88·9	82·4	85·6	76·2	77	57	79	71	—	Red sunset 22 h.
23	22·0	22·0	22·4	22·2	83·4	89·0	85·9	90·4	81·9	86·1	75·1	82	51	88	74	—	Very fine. ⩍ 4 h.
24	20·3	18·6	17·6	18·8	84·8	91·0	87·3	91·3	83·8	87·6	77·8	85	*n* 49	73	69	—	⩍ 4 h.
25	16·4	15·1	16·2	15·9	84·1	91·5	86·9	92·4	82·6	87·5	78·5	86	58	86	77	—	⩍ 4 h.
26	17·9	19·0	21·1	19·4	86·0	93·0	86·8	93·1	84·6	88·7	76·8	87	74	96	86	—	⩍ 4 h.
27	23·1	23·8	22·8	23·2	86·4	90·1	84·7	91·5	84·1	87·3	77·3	95	69	93	86	—	⩍ 4 h.
28	19·2	18·0	18·7	18·7	86·0	88·3	88·4	88·4	84·4	87·1	76·8	88	76	75	80	—	⩍ 4 h.
29	19·9	20·7	22·4	21·0	86·3	88·4	84·4	88·8	83·6	86·3	83·1	74	60	70	68	—	
30	23·0	21·9	21·1	22·0	82·5	88·1	85·3	88·7	*n* 81·7	85·3	*n* 74·5	80	60	73	71	—	⩍ 4 h.
Means	13·3	13·2	13·1	13·2	87·4	91·2	87·9	92·0	86·0	88·9	82·0	82	68	83	78	78·8	
Normal	11·6	11·5	11·9	11·6	87·2	90·8	87·7	91·7	85·8	88·6	81·8	83	67	80	77	61·5	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. Tenths. 7 h.	Upper. Type. 7 h.	Direction. 7 h.	Lower. Type. 7 h.	Direction. 7 h.	Tenths. 14 h.	Upper. Type. 14 h.	Direction. 14 h.	Lower. Type. 14 h.	Direction. 14 h.	Tenths. 21 h.	Upper. Type. 21 h.	Direction. 21 h.	Lower. Type. 21 h.	Direction. 21 h.	Mean Amount
								hr.	%																
1	ENE	3	NE	4	NE	3	3·3	1·8	14	10	..	..	..	..	9	..	..	Cu.	NE	0	..	..	..	..	6·3
2	ENE	3	ENE	4	NE	3	3·3	13·4	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
3	ENE	2	NE	3	ENE	4	3·0	13·3	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
4	ENE	3	ENE	4	ENE	5	4·0	10·5	79	6	Ci.	S	..	..	7	Ci.,A.-Cu.	SSE	..	..	10	..	..	..	..	7·7
5	ENE	4	NE	4	ENE	3	3·7	1·6	12	10	..	..	Nb.	ENE	8	..	..	..	..	10	..	..	..	..	9·3
6	ENE	2	S	1	NE	3	2·0	12·2	93	4	..	..	..	..	2	..	..	..	..	2	Ci.	..	..	..	2·7
7	—	0	ENE	1	NE	3	1·3	8·1	62	8	..	..	..	..	10	..	..	..	..	7	..	..	..	..	8·3
8	S	2	ESE	3	ESE	2	2·3	9·6	74	5	..	..	Cu.-Nb.	SSW	3	Ci.	..	..	..	5	..	..	..	..	4·3
9	SE	3	SE	3	S	2	2·7	4·0	31	7	..	..	Cu.-Nb.	SSE	8	..	..	..	..	10	..	..	..	..	8·3
10	SW	3	SW	3	WSW	2	2·7	6·7	52	7	..	..	Cu.-Nb.	SW	2	..	..	..	..	4	..	..	Cu.-Nb.	WNW	4·3
11	SW	5	W	5	W	4	4·7	3·8	23	10	A.-Cu.	WNW	Nb.	SW	6	..	..	Cu.	WNW	10	..	..	Nb.	..	8·7
12	W	4	SW	5	WSW	5	4·7	2·8	17	6	Ci.	NW	Cu.-Nb.	WNW	10	..	..	..	..	10	..	..	..	..	8·7
13	WNW	4	WSW	4	SW	4	4·0	3·7	23	7	A.-Cu.	NW	..	..	8	..	..	St.-Cu.	WNW	10	..	..	..	..	8·3
14	WSW	6	SW	6	WSW	5	5·7	0·1	1	10	..	..	Nb.	W	10	..	..	Nb.	SW	2	..	..	..	..	7·3
15	WSW	2	SSW	3	W	1	2·0	3·0	24	7	A.-Cu.	WSW	..	..	8	..	..	..	..	0	..	..	..	..	5·0
16	WSW	3	SSW	3	SW	5	3·7	6·2	49	7	..	..	St.-Cu.,Nb.	W	5	Ci.-St., Ci.	W	Cu.	W	10	..	..	..	..	7·3
17	S	5	W	6	W	5	5·3	2·3	19	10	..	..	Nb.	S	3	..	..	Cu.	WNW	4	..	..	..	..	5·7
18	WNW	3	WSW	4	NE	1	2·7	0·7	6	7	A.-Cu.	WNW	Cu.	WNW	10	A.-Cu.	..	Cu.-Nb.	WNW	10	..	..	Nb.	..	9·0
19	NW	4	WNW	3	NW	3	3·3	7·4	60	7	..	..	{Cu. Nb.}	{N. NW}	6	..	..	Cu.	NW	3	..	..	..	..	5·3
20	WNW	4	N	4	NNE	2	3·3	6·3	51	6	..	..	Cu., Cu.-Nb.	NNW	4	..	..	Cu.	NW	8	..	..	..	..	6·0
21	N	2	N	3	—	0	1·7	9·7	80	4	..	..	Cu.	N	4	Ci.	ENE	Cu.	N	7	..	..	..	..	5·0
22	—	0	ENE	2	ENE	1	1·0	1·1	8	8	..	..	Cu., Cu.-Nb.	N	6	..	..	..	..	0	..	..	..	..	4·7
23	—	0	S	1	ENE	3	1·3	12·2	100	1	..	..	Cu.	..	0	..	..	..	..	0	..	..	..	..	0·3
24	ENE	1	E	2	ENE	3	2·0	12·1	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
25	ENE	2	ENE	2	NE	2	2·0	12·0	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
26	—	0	SSW	1	—	0	0·3	11·7	98	6	Ci.	N	..	..	1	..	..	..	..	3	Ci.	..	..	..	3·3
27	NE	2	NW	1	N	1	1·3	10·7	89	2	..	..	Cu.	..	2	..	..	Cu.	NE	0	..	..	..	..	1·3
28	W	3	WSW	3	NNW	2	2·7	0·7	6	7	..	..	Cu.	WNW	10	..	..	..	..	10	..	..	..	..	9·0
29	NNW	4	NNE	3	NE	2	3·0	9·1	77	8	..	..	St.-Cu.	NNW	3	..	..	Cu.	NE.	0	..	..	..	..	3·7
30	ENE	1	NE	3	ENE	3	2·3	11·3	96	0	..	..	..	..	3	..	..	Cu.	..	0	..	..	..	..	1·0
Means	2·7		3·1		2·7		2·8	208·3	55	5·7	—	—	—	—	4·9	—	—	—	—	4·5	—	—	—	—	5·0
Normal	3·2		3·8		3·3		3·4	203·1	54	5·8	—	—	—	—	4·9	—	—	—	—	4·5	—	—	—	..	5·1

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	REMARKS.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	19·6	17·9	18·3	18·6	82·0	88·3	84·1	88·7	81·0	84·8	75·3	86	63	91	80	—	Cloudless sky until 20 h. ☋ 21 h.
2	18·8	20·8	22·2	20·6	84·6	88·4	87·3	89·2	83·8	86·7	75·0	88	75	89	84	—	Cloudy sky until noon ; o. afterwards.
3	21·8	21·8	22·2	21·9	86·6	89·1	87·6	90·2	83·5	87·4	79·4	91	75	88	85	—	o.
4	22·7	23·8	25·1	23·8	87·5	88·8	86·4	*x* 90·5	85·8	87·8	82·9	92	71	79	81	—	Cloudy sky. ☋ 21 h.
5	25·0	23·0	21·5	23·1	83·8	90·1	86·5	90·4	82·7	86·7	77·8	97	66	78	80	—	☿ 5 h. 15 m. ⊕ 15 h.
6	18·8	18·4	18·8	18·7	86·5	89·5	86·8	90·2	85·6	87·7	79·1	87	73	86	82	—	Cloudy sky.
7	19·2	18·6	19·4	19·1	85·4	87·2	83·6	88·2	83·3	85·5	78·3	83	67	83	78	—	☿ 20 h. 30 m.
8	19·9	19·5	19·5	19·6	81·4	88·0	82·5	88·5	81·0	84·3	75·7	93	*n* 49	80	74	—	Fine.
9	18·6	17·5	17·2	17·8	80·6	88·8	85·4	88·9	*n* 78·8	84·5	*n* 71·1	90	66	95	84	—	Cloudless sky.
10	15·2	14·2	14·2	14·4	85·8	88·3	85·6	88·6	84·2	86·5	76·5	85	66	83	78	—	Fine.
11	13·1	11·5	10·8	11·8	82·0	89·2	83·6	89·7	81·4	85·2	74·7	88	66	80	78	—	Very fine.
12	09·0	06·3	02·7	05·9	83·5	86·1	85·1	87·9	83·1	85·1	77·1	83	65	82	77	0·9	⊕ 10 h. ● 18 h.
13	97·2	01·4	02·6	00·4	86·5	88·9	84·0	89·0	83·4	86·4	81·9	97	60	88	82	4·5	● until 6 h.
14	03·0	05·0	06·4	04·8	85·1	83·7	85·1	85·8	82·5	84·4	80·2	73	97	91	87	4·6	o., with ●° 10 h. 30 m. ● 13 h. 40 m.
15	06·2	08·7	11·6	08·8	84·7	87·2	85·5	88·1	84·0	85·9	81·0	92	53	84	76	2·2	≺, one flash, at 5 h. 15 m.
16	13·2	13·1	13·4	13·2	80·9	87·9	85·7	88·9	80·1	84·7	76·4	97	81	80	86	—	Very fine until noon.
17	12·7	13·4	14·8	13·6	84·4	86·3	85·7	88·0	84·3	85·7	81·0	86	72	69	76	—	c.
18	15·2	15·4	16·8	16·0	85·0	85·6	85·7	86·2	84·1	85·3	79·0	76	63	69	69	—	c.
19	17·5	17·1	17·5	17·4	84·1	85·1	84·7	86·4	83·4	84·7	77·3	79	87	84	83	1·1	●° 10 h. ● 11 h. 55 m. and 15 h.
20	15·1	13·8	12·8	13·9	84·5	84·4	84·0	86·8	83·4	84·6	80·2	88	94	90	91	0·9	● 8 h., 14 h., and 20 h.
21	08·7	05·6	02·2	05·5	83·4	85·9	85·1	86·2	83·0	84·7	80·9	95	76	84	85	—	o. till 15 h. ● *n*.
22	99·0	00·8	02·4	00·7	85·7	88·1	85·9	88·7	83·8	86·4	78·9	80	60	78	73	5·7	● 15 h. 45 m.
23	04·3	03·9	02·4	03·5	85·5	88·6	87·1	89·2	85·2	87·1	81·3	82	71	82	78	—	
24	01·1	02·7	06·2	03·4	85·9	90·1	88·1	*x* 90·5	85·5	*x* 88·0	83·6	91	80	90	87	3·7	● 2 h.–8 h.
25	08·6	08·2	05·0	07·2	87·1	87·0	87·3	88·1	*x* 86·1	87·1	79·5	91	94	98	94	6·8	● 13 h.–20 h.
26	10·2	11·4	11·1	10·8	86·2	87·8	85·0	89·1	84·6	86·5	82·3	88	77	78	81	—	[☿ 20 h. 45 m.
27	06·4	03·8	01·5	03·9	85·5	86·4	83·0	88·0	83·0	85·2	79·1	92	62	83	79	1·5	● showers 20 h. 45 m. ≺² and isolated
28	00·7	96·7	91·2	96·3	81·0	82·5	80·6	84·9	80·2	81·8	72·8	76	83	94	84	13·5	● all day.
29	86·0	87·6	89·4	87·6	80·2	83·2	81·1	83·7	80·0	*n* 81·6	78·2	90	70	90	83	9·0	● till 6 h. ● 17 h. 30 m.
30	85·8	87·5	86·2	86·4	82·0	83·4	82·6	84·8	81·9	82·9	78·9	93	70	91	85	*x* 18·4	● till 8 h. ● 18 h.
31	82·7	84·0	81·0	82·6	81·5	82·7	81·8	*n* 82·7	81·0	81·9	79·3	80	68	93	80	12·5	● till 7 h. ● 18 h. 15 m.
Means	09·5	09·5	09·2	09·4	84·2	87·0	84·9	87·8	83·0	85·4	78·5	87	72	85	81	85·3	
Normal	07·8	07·6	08·2	07·8	84·5	87·0	85·1	87·8	83·3	85·5	80·0	83	73	80	79	91·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).			Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.														Mean Amount.
							Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		
								Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.	
	7 h.	14 h.	21 h.		Total.	Per cent. of Possible.	7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%																
1	ENE 3	NE 2	N 1	2·0	11·7	100	0	..	..	..	..	0	..	..	..	..	3	Ci.-St.	..	..	..	1·0
2	N 1	N 2	E 2	1·7	4·2	37	7	..	..	Cu.	NNE	10	..	..	..	..	3	..	..	Fr.-Cu.	ENE	6·7
3	— 0	W 2	W 2	1·3	1·3	11	10	..	..	..	..	10	..	..	Cu.-Nb.	WSW	10	..	..	..	..	10·0
4	WNW 1	NW 3	NNW 1	1·7	9·1	77	6	A.-Cu.	NNW	Cu.-Nb.	NNW	6	Ci.	NE	..	..	6	Ci.	NNW	Fr.-Cu.	NNW	6·0
5	— 0	WSW 2	WNW 2	1·3	7·1	62	3	A.-Cu.	Stationary.	..	..	6	Ci.	..	..	..	6	..	..	Cu.	NNW	5·0
6	NNW 1	NNW 3	NE 1	1·7	5·3	46	3	..	..	Cu.	..	8	..	..	..	..	8	..	..	St.-Cu.	NE	6·3
7	NE 2	ENE 4	NE 2	2·7	6·0	53	10	..	..	..	..	6	Ci.	W	Cu.	NE	4	{Ci.-St. A.-Cu.	..	Fr.-Cu.	..	6·7
8	ENE 1	ENE 2	NE 2	1·7	11·2	99	2	Ci.	NW	..	..	2	Ci.	..	..	..	0	..	..	..	..	1·3
9	NE 1	N 3	N 1	1·7	11·2	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
10	NNE 2	NNE 3	NE 1	2·0	8·5	77	8	..	..	St.-Cu.	N	2	..	..	Cu.	NE	3	..	..	..	..	4·3
11	ENE 2	ENE 2	ENE 1	1·7	11·0	99	1	..	..	Cu.	..	1	..	..	Cu.	SE	0	..	..	..	..	0·7
12	SSE 3	SSE 3	SE 3	3·0	7·4	67	6	Ci.	N	Cu.	S	7	..	..	..	..	10	..	..	Nb.	..	7·7
13	W 3	WSW 4	WNW 1	2·7	5·6	51	8	A.-Cu.	..	Nb.	NW	5	Ci.	S	Cu.	WSW	7	..	..	..	..	6·7
14	N 2	NNW 3	NNW 2	2·3	0·0	0	9	..	..	St.-Cu.	NNW	10	A.-Cu.	NNE	Nb.	NNE	10	..	..	..	..	9·7
15	ENE 2	ENE 1	ENE 1	1·3	2·3	22	8	A.-Cu.	E	Nb.	E	8	A.-Cu.	E	..	..	1	..	..	..	..	5·7
16	ENE 1	N 2	NNE 2	1·7	7·0	65	3	Ci.	ENE	..	..	10	..	..	..	..	3	..	..	..	..	5·3
17	NE 3	NE 4	NE 4	3·7	3·2	30	6	A.-Cu.	NE	Cu.-Nb.	NE	10	..	..	Cu.-Nb.	NE	3	..	..	..	..	6·3
18	N 3	NNE 3	NNE 3	3·0	0·1	1	8	..	..	St.-Cu.	ENE	6	..	..	St.-Cu.	NE	10	..	..	..	..	8·0
19	NNE 3	NNE 3	NE 3	3·0	0·4	4	4	..	..	Cu.-Nb.	NE	10	..	..	..	..	5	..	..	..	..	6·3
20	NE 2	NE 2	NE 3	2·3	0·5	5	9	A.-Cu.	NE	Nb.	NE	10	..	..	Nb.	..	10	..	..	..	..	9·7
21	NE 2	SSW 3	SSE 5	3·3	0·7	6	10	..	..	..	..	10	..	..	..	..	2	..	..	Cu.	..	7·3
22	SW 4	SSW 4	SW 4	4·0	5·7	55	5	..	..	Cu.-Nb.	SW	6	A.-Cu.	SSW	St.-Cu.	WSW	9	..	..	..	..	6·7
23	SW 4	SSW 3	SE 3	3·3	7·0	68	7	A.-Cu.	SW	Cu.-Nb.	WSW	4	A.-Cu.	WSW	..	..	10	..	..	..	..	7·0
24	SSE 3	S 2	SSE 2	2·3	3·3	32	10	..	..	Nb.	SSE	1	..	..	..	..	5	..	..	..	..	5·3
25	SW 2	SSW 3	WNW 3	2·7	0·0	0	10	..	..	..	..	10	..	..	Nb.	..	10	..	..	..	..	10·0
26	WNW 2	W 3	WNW 2	2·3	4·8	46	8	A.-Cu.	WSW	Cu.-Nb.	NW	7	St.-Cu.	W	Cu.	W	3	..	..	..	..	6·0
27	W 4	WNW 3	NW 2	3·0	4·1	40	10	Ci.	SW	Nb.	W	7	Ci.	SW	..	..	10	..	..	..	..	9·0
28	NNE 1	NW 2	WSW 1	1·3	1·8	18	5	Ci.-Cu.	N	Cu.-Nb.	..	10	..	..	Nb.	W	10	..	..	Nb.	..	8·3
29	ENE 2	ENE 5	ENE 2	3·0	3·9	39	8	Ci.-Cu.	..	Nb.	..	10	..	..	Cu.-Nb.	NE	10	..	..	Nb.	NE	9·3
30	NE 2	ENE 3	NNE 1	2·0	3·2	32	10	..	..	Nb.	NE	9	..	..	Cu.-Nb.	E	10	..	..	Nb.	..	9·7
31	SSE 5	SE 4	ESE 4	4·3	0·6	6	10	..	..	Nb.	S	9	..	..	Cu.-Nb.	SE	10	..	..	Nb.	..	9·7
Means	2·0	2·8	2·2	2·3	148·1	44	6·6	—	—	—	—	6·8	—	—	—	—	6·2	—	—	—	—	6·5
Normal	3·5	3·9	3·6	3·7	130·2	39	6·7	—	—	—	—	6·5	—	—	—	—	6·1	—	—	—	—	6·4

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	*a* 200+	*a* 200+	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	%	%	%	%	mm.	
1	84·0	84·8	86·6	85·1	83·9	85·9	83·5	86·9	82·8	84·6	79·9	85	67	87	80	9·8	●² during night. Frequent ● during day.
2	84·7	87·9	92·3	87·9	82·6	87·0	85·0	87·1	82·2	84·8	78·0	95	69	78	81	3·8	● till 11 h.
3	96·2	98·7	00·8	98·6	84·6	87·1	85·3	88·1	84·0	85·8	81·4	93	83	89	88	0·6	● about midday.
4	99·5	97·1	96·2	97·6	83·3	85·9	84·2	87·6	83·1	84·8	76·9	94	88	98	93	5·7	⊎ 4 h. ⊕ 10 h. and 14 h. ● 18 h. 5 m.
5	94·3	96·6	00·0	97·0	85·1	87·4	85·6	87·9	*x* 84·4	*x* 86·1	81·1	94	77	91	87	6·7	● Frequently. ●² shower 18 h. 30 m.
6	02·8	05·5	08·8	05·8	84·3	88·2	83·5	*x* 88·5	83·5	85·6	80·3	97	73	97	89	—	
7	12·7	14·6	17·0	14·7	82·6	86·7	82·3	87·5	81·5	84·1	75·0	98	71	88	86	—	⊕° 14 h.
8	18·4	20·0	20·8	19·8	82·2	84·0	83·1	84·5	80·5	82·9	73·6	82	87	96	88	—	
9	20·6	19·6	19·9	20·0	82·3	82·1	81·0	83·1	80·2	81·7	74·6	96	93	95	95	—	
10	19·5	20·3	20·7	20·2	81·9	82·4	85·6	85·7	81·6	83·4	71·1	97	95	91	94	—	≡° 7 h.–16 h. ●°, of short duration, 17 h.
11	17·5	13·1	09·1	13·2	85·9	86·4	85·5	86·9	83·8	85·7	79·6	86	84	94	88	6·6	● 16 h. ●² 20 h. 15 m.–23 h.
12	13·2	13·1	14·8	13·8	82·5	84·7	84·0	84·8	82·2	83·6	78·2	59	63	63	62	0·7	q., with ● 12 h.
13	08·4	00·3	96·3	01·6	85·1	85·3	84·8	86·3	81·5	84·6	78·9	92	87	65	81	5·6	Continuous ● 4 h.–16 h. q. *n.*
14	93·6	03·6	05·5	01·0	80·1	82·0	80·0	82·6	78·3	80·6	77·8	68	54	58	60	3·4	q., with ● *a.* ≺ 5 h.
15	90·8	85·6	78·2	84·8	82·7	85·0	83·7	85·9	79·3	83·3	70·9	94	60	78	77	*x* 11·8	q. all day. ▲15 h. 15 m
16	87·5	01·5	10·7	99·9	83·0	82·2	80·9	83·7	80·2	82·0	78·6	81	65	64	70	6·6	
17	17·5	19·4	21·2	19·2	78·8	81·9	79·9	83·3	78·7	80·5	72·2	65	62	66	64	—	
18	24·3	26·8	27·8	26·3	79·5	80·1	76·9	80·9	75·2	78·5	71·3	78	*n* 34	68	60	0·1	● a little before 4 h.
19	24·3	18·6	12·2	18·3	78·3	80·1	79·9	80·4	77·4	79·2	*n* 69·5	84	78	89	84	8·4	●° 3 h. ● from 18 h.
20	15·2	15·5	13·5	14·7	75·5	75·9	76·0	79·0	74·9	76·3	71·9	72	53	52	59	2·2	
21	09·1	03·4	00·3	04·3	75·0	76·4	74·9	*n* 76·7	*n* 74·4	*n* 75·5	70·8	64	57	68	63	—	
22	95·0	94·7	96·4	95·4	77·1	78·1	78·2	79·0	75·7	77·6	72·7	70	79	73	74	0·2	● 4 h. ●° 10 h. and 11 h.
23	99·0	02·0	05·9	02·3	78·6	78·8	78·5	79·3	77·6	78·6	74·2	75	68	70	71	—	
24	07·5	07·2	07·4	07·4	78·0	80·0	81·1	81·4	78·0	79·7	75·2	71	57	69	66	—	● 15 h. ● *n.*
25	06·8	06·8	07·9	07·2	81·0	83·7	83·1	84·9	80·6	82·7	71·7	77	83	96	85	0·8	● 20 h.
26	06·0	04·6	04·2	05·0	82·7	84·0	83·5	84·1	80·1	82·9	80·2	87	79	95	87	2·4	● 19 h.
27	12·3	14·2	15·1	13·9	83·1	84·7	83·4	84·9	82·7	83·8	77·6	63	70	89	74	—	⊕ 10 h. ●° 16 h. 20 m. ⊎ 21 h.
28	10·8	07·4	09·9	09·4	83·0	84·5	83·5	85·1	82·7	83·8	79·8	91	87	88	89	3·3	● 14 h.–19 h.
29	12·4	13·4	10·7	12·2	82·9	84·3	84·0	84·6	82·8	83·7	78·6	91	87	86	88	—	
30	03·5	00·3	99·6	01·1	84·4	85·3	85·7	85·9	84·0	85·1	81·2	88	94	92	91	9·9	● began at 8 h. and continued until night.
Means	06·2	06·6	07·0	06·6	81·7	83·3	82·2	84·2	80·5	82·4	76·1	83	73	81	79	88·6	
Normal	08·4	08·2	08·7	08·4	81·4	83·2	81·9	84·1	80·2	82·2	76·3	82	75	80	79	92·4	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h.	14 h.	21 h.	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%																
1	S 6	E 3	SSE 3	4·0	4·1	41	10	..	..	Nb.	S	3	..	..	Fr.-Cu.	NE	10	..	..	Nb.	..	7·7
2	E 4	SSW 4	SSW 5	4·3	2·3	23	10	..	..	Nb.	SE	4	..	..	Cu.	SW	7	Ci., A.-Cu.	SW	..	..	7·0
3	SSW 4	S 3	S 2	3·0	4·4	45	7	..	..	Cu.-Nb.	SSW	6	Ci.	..	Fr.-Cu.	WSW	0	..	..	..	..	4·3
4	NE 3	ENE 3	ENE 2	2·7	6·8	70	4	Ci.	S	..	..	6	Ci.-St.	SE	..	..	10	..	..	Nb.	..	6·7
5	S 4	SW 3	SSW 3	3·3	1·9	20	10	..	..	Nb.	S	8	..	..	St.-Cu.	SSW	1	..	..	..	..	6·3
6	S 2	SSW 2	WSW 2	2·0	7·6	79	7	..	..	St.-Cu.	SW	3	..	..	Cu.-Nb.	..	2	..	..	..	..	4·0
7	N 1	N 2	— 0	1·0	5·5	58	3	Ci.	NNE	Cu.	NNE	7	Ci.-St.	..	..	..	0	..	..	..	..	3·3
8	— 0	SSW 1	SSE 2	4·0	3·0	32	3	A.-Cu.	W	Fr.-Cu.	W	7	A.-Cu.	N	Cu.-Nb.	SW	7	..	..	..	..	5·7
9	S 3	SSW 2	SSW 2	2·3	0·1	1	10	..	..	Cu.-Nb.	WSW	10	..	..	..	..	2	A.-Cu.	..	..	..	7·3
10	SSW 3	SSW 3	WSW 2	2·7	0·5	5	10	..	..	Nb.	SW	10	..	..	..	..	10	..	..	..	..	10·0
11	WSW 5	WSW 5	W 6	5·3	0·6	6	10	..	..	Nb.	WSW	9	A.-Cu.	N	Cu.-Nb	W	10	..	..	Nb.	..	9·7
12	NW 3	WNW 5	NW 3	3·7	3·7	40	5	A.-Cu.	NW	Cu.-Nb., Fr.-Cu.	NW	6	..	..	Cu., Cu.-Nb.	NW	4	..	..	Cu.	..	5·0
13	SW 4	WSW 7	WSW 6	5·7	0·0	0	10	..	..	Nb.	W	10	..	..	Nb.	W	2	..	..	..	..	7·3
14	NNW 5	NNW 4	NW 1	3·3	2·3	25	10	..	..	Nb.	NNW	6	..	..	Cu.	N	2	..	..	..	..	6·0
15	S 6	WSW 5	SW 4	5·0	2·3	25	10	..	..	Nb.	SSW	9	..	..	..	..	10	..	..	..	..	9·7
16	NNW 5	N 5	NE 4	4·7	0·7	8	8	A.-Cu.	N	Cu.-Nb.	N	7	..	..	Cu., Cu.-Nb.	NNE	3	..	..	..	..	6·0
17	NE 2	NE 3	NE 3	2·7	8·1	89	2	..	..	Cu.	NE	4	..	..	Cu.	NE	1	..	..	..	..	2·3
18	ENE 3	ENE 4	ENE 1	2·7	8·4	94	5	..	..	Cu.	E	0	..	..	..	..	0	..	..	..	..	1·7
19	E 1	WSW 2	NE 3	2·0	1·7	18	7	..	..	Cu.	N	8	Ci.-Cu.	NNW	Cu.-Nb.	NW	10	..	..	..	..	8·3
20	E 4	ENE 5	ENE 6	5·0	8·2	92	10	..	..	..	..	7	..	..	Cu.	NE	0	..	..	..	..	5·7
21	ENE 6	ENE 6	ENE 7	5·7	8·3	93	8	..	..	Cu.	NE	1	..	..	Fr.-Cu.	ENE	3	..	..	..	..	4·0
22	ENE 7	NE 6	NE 7	6·7	0·0	0	10	..	..	..	..	10	A.-Cu.	SSE	Cu.-Nb.	NE	5	..	..	..	..	8·3
23	NNE 4	NE 3	NNE 3	3·3	0·0	0	8	A.-Cu.	..	Cu.	NE	10	..	..	Cu.-Nb.	NE	10	..	..	..	..	9·3
24	NNE 2	— 0	SW 4	2·0	0·2	2	10	..	..	St.-Cu.	NNE	10	..	..	St.-Cu.	N	7	A.-Cu.	NW	Cu.-Nb.	..	9·0
25	NW 1	SW 2	SW 3	2·0	2·3	27	7	..	..	St.-Cu.	NW	8	..	..	Nb.	W	10	..	..	Nb.	..	8·3
26	SSW 4	SSW 5	SW 4	4·3	0·0	0	10	..	..	St.-Cu.	W	10	..	..	Cu.-Nb.	WSW	10	..	..	Nb.	..	10·0
27	WSW 3	WSW 5	SW 5	4·3	4·8	56	4	Ci.	NW	Fr.-Cu.	WSW	5	..	..	Cu.	W	6	Ci.-St.	..	Fr.-Cu.	WSW	5·0
28	SSW 4	SSW 5	SW 4	4·3	1·3	15	7	..	..	Fr.-Cu.	WSW	10	..	..	Nb.	..	3	..	..	..	..	6·7
29	SSW 4	SSW 4	SSW 4	4·0	0·3	4	3	..	..	..	..	8	..	..	Cu.-Nb.	WSW	10	..	..	..	..	7·0
30	SSW 6	SSW 6	SSW 6	6·0	0·0	0	10	..	..	Cu.-Nb.	SW	10	..	..	Nb.	SW	10	..	..	Nb.	..	10·0
Means	3·6	3·8	3·6	3·7	89·4	33	7·6	—	—	—	—	7·1	—	—	—	—	5·5	—	—	—	—	6·7
Normal	3·6	3·8	3·7	3·7	85·2	31	7·3	—	—	—	—	7·0	—	—	—	—	6·4	—	—	—	—	6·9

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	03·4	06·6	10·6	06·8	83·9	83·9	83·4	x 86·0	82·9	84·0	80·3	76	73	77	75	—	●° 14 h.
2	11·1	04·6	99·0	04·8	82·6	84·6	85·0	85·5	81·8	83·9	79·0	87	80	90	86	1·4	☿° 4 h. ● 20 h. 30 m. Violent gust
3	05·6	12·8	13·2	10·6	80·0	84·0	81·8	84·3	79·9	82·0	78·0	84	n 53	80	72	1·5	● showers a. [from S.S.W. 20 h. 45 m.
4	03·6	94·4	97·4	98·4	83·3	80·4	81·3	84·2	76·7	81·2	73·1	78	85	69	77	8·4	Violent squall, with ▲● 12 h. 50 m. ●
5	98·4	98·0	00·2	99·0	79·7	81·8	79·4	82·2	78·3	80·3	74·7	80	80	80	80	5·3	Frequent ●. [21 h. 5 m., with sharp squall.
6	04·3	97·0	94·0	98·4	79·5	80·7	85·1	85·9	77·1	81·7	69·9	78	93	95	89	9·3	● 12 h.–18 h.
7	93·6	92·8	96·2	94·2	85·4	83·3	84·1	85·8	x 83·0	x 84·3	81·7	97	100	87	95	10·0	≡ 13 h.–16 h. Continuous ●.
8	99·6	01·2	01·2	00·7	83·4	84·0	82·8	84·4	82·1	83·3	79·8	80	84	88	84	2·3	●², of short duration, 2 h.
9	94·4	88·4	89·2	90·7	80·1	79·6	79·4	82·3	78·4	80·0	78·3	93	91	85	90	x 47·0	● began at 5 h. 30 m., and continued
10	97·2	00·8	00·3	99·5	80·8	83·0	81·0	83·4	80·0	81·6	74·6	84	73	81	79	0·2	● 7 h. 30 m. [until after midnight.
11	90·3	83·5	87·6	87·1	79·5	82·7	83·1	84·4	79·0	81·7	71·7	85	98	88	90	6·0	● 2 h. 30 m.–15 h.
12	86·8	84·2	78·7	83·2	81·1	81·4	80·9	82·6	80·5	81·3	77·7	93	95	95	94	6·8	Continuous ● from 11 h.
13	74·2	73·8	64·3	70·7	82·7	81·5	83·0	83·4	80·6	82·2	77·3	85	93	95	91	19·0	● all day, with a little sun at 10 h.
14	71·5	72·6	76·7	73·6	82·8	82·7	81·3	83·1	80·6	82·1	79·9	86	91	76	84	1·7	Strong gust from S.S.W. 2 h. ≺ in W.
15	80·6	86·4	93·9	87·0	79·6	81·9	81·1	82·8	79·3	80·9	77·1	84	83	89	85	10·2	Continuous ●. q. 12 h. 45 m. [20 h. 30 m.
16	02·0	09·4	16·3	09·2	81·0	82·0	79·9	83·0	79·7	81·1	77·5	83	72	58	71	6·9	● showers.
17	19·0	16·7	13·4	16·3	81·7	82·1	81·5	82·4	79·1	81·4	70·9	77	73	82	77	0·3	● 4 h.–5 h.
18	04·3	97·6	96·4	99·5	82·1	82·9	80·6	82·9	80·3	81·8	78·9	96	100	91	96	11·5	● continued until 15 h.
19	00·0	95·0	93·1	96·0	81·6	81·9	80·6	82·5	79·3	81·2	76·4	81	80	85	82	5·1	Continuous ●. q., with ▲ 22 h. and
20	93·2	91·0	88·0	90·7	79·8	79·8	79·5	80·5	78·2	79·6	71·1	74	75	77	75	0·3	● 18 h. 30 m. [23 h. 40 m.
21	93·5	96·8	00·2	96·8	79·7	79·6	78·8	80·1	76·8	79·0	73·0	60	62	73	65	4·0	☈● 0 h. q., with ▲ a.
22	02·3	02·0	00·4	01·6	75·1	77·6	76·3	80·6	75·1	76·9	68·7	93	90	88	90	1·5	● 3 h. ⌓° 8 h.
23	98·8	00·4	04·3	01·2	75·1	76·8	77·8	78·6	75·0	76·7	71·5	89	87	78	85	2·6	● 17 h.–23 h.
24	10·4	15·2	18·2	14·6	77·6	79·5	78·0	80·0	76·0	78·2	70·3	72	74	76	74	0·3	● shower 14 h. 10 m.
25	18·3	17·8	18·0	18·0	75·8	77·0	76·6	n 77·8	n 74·4	n 76·3	n 66·3	69	66	74	70	—	⌓° 8 h. ☿ 18 h.
26	14·3	14·8	15·0	14·7	76·3	79·1	79·6	79·6	75·6	78·0	71·4	91	98	95	95	13·6	● 7 h.–14 h.
27	02·7	01·4	93·2	99·1	81·0	83·1	82·8	84·5	78·4	82·0	77·8	97	95	95	96	12·1	● 5 h.–9 h. and 16 h.–22 h. [☈ 23 h. 30 m.
28	87·4	78·4	88·4	84·7	83·1	83·7	79·8	84·3	78·7	81·9	80·8	97	92	66	85	8·5	Continuous ●. Violent gust from W.S.W. 15 h. 40 m.
29	00·6	07·8	12·6	07·0	79·9	80·2	78·8	81·3	77·2	79·5	73·8	70	66	77	71	4·3	▲ 0 h. 40 m., 3 h., 9 h., 10 h., and 11 h.
30	10·0	04·4	97·8	04·2	79·4	81·1	80·1	81·7	79·3	80·3	71·9	87	86	84	86	0·2	● 14 h. 30 m.
31	91·0	93·9	94·7	93·2	80·2	81·0	79·9	81·5	79·1	80·3	75·3	90	66	66	74	2·4	Intermittent ●. ⊕ 14 h.
Means	98·8	98·1	98·5	98·5	80·4	81·4	80·8	82·6	78·8	80·8	75·1	84	82	82	83	202·7	
Normal	06·3	06·3	07·0	06·6	80·0	81·1	80·3	82·0	78·6	80·4	75·3	84	80	82	82	100·7	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. Upper. 7 h. Tenths.	Type. 7 h.	Direction. 7 h.	Lower. 7 h. Type.	Direction. 7 h.	14 h. Tenths.	Upper. Type. 14 h.	Direction. 14 h.	Lower. Type. 14 h.	Direction. 14 h.	21 h. Tenths.	Upper. Type. 21 h.	Direction. 21 h.	Lower. Type. 21 h.	Direction. 21 h.	Mean Amount.
								hr.	%																
1	SSW	5	SSW	4	SSW	6	5·0	1·2	15	10	A.-Cu.	WSW	Cu.-Nb.	WSW	10	..	..	St.-Cu.	SW	0	..	..	..	..	6·7
2	S	6	S	6	SW	8	6·7	1·7	20	3	..	..	..	..	7	A.-Cu.	SW	Cu.-Nb.	WSW	10	..	..	Nb.	..	6·7
3	WSW	5	SW	5	SSW	5	5·0	7·0	83	6	A.-Cu.	W	Nb.	W	2	..	..	Fr.-Cu.	WSW	1	..	..	..	..	3·0
4	SSW	6	SW	7	SW	7	6·7	0·8	8	10	Ci.-Cu.	SW	Nb.	SW	8	A.-Cu.	SW	Nb.	WSW	10	..	..	Nb.	SW	9·3
5	SW	6	SW	3	WNW	2	3·7	0·2	2	5	A.-Cu.	SW	Fr.-Nb.	WSW	8	..	..	St.-Cu.	WSW	8	..	..	Nb.	..	7·0
6	SE	2	S	4	SSW	4	3·3	0·5	6	5	A.-Cu.	SW	Cu.-Nb.	SSE	10	..	..	Nb.	SW	10	..	..	..	..	8·3
7	SSW	6	SSW	4	SSW	6	5·3	0·0	0	10	..	..	Nb.	SSW	10	..	..	Nb. ≡	..	10	..	..	..	..	10·0
8	SSW	5	SW	4	SSW	3	4·0	2·1	24	5	..	..	Fr.-Cu.	SW	6	Ci.	SW	..	..	8	..	..	..	..	6·3
9	ENE	2	NNE	5	NW	5	4·0	0·0	0	10	..	..	Nb.	ENE	10	..	..	Nb.	..	10	..	..	Nb.	..	10·0
10	NW	3	WNW	2	ESE	3	2·7	3·1	37	7	A.-Cu.	WSW	Nb.	..	7	A.-Cu.	WSW	..	..	4	..	..	..	..	6·0
11	ESE	4	S	4	SSW	3	3·7	0·2	2	10	..	..	Nb.	SE	10	..	..	Nb.	S	0	..	..	..	..	6·7
12	SSE	3	S	3	SSE	5	3·7	1·6	19	8	A.-Cu.	..	..	..	9	..	..	Nb.	SSW	10	..	..	Nb.	SE	9·0
13	SSW	6	S	5	SSW	3	4·7	0·4	5	10	..	..	Nb.	SW	10	..	..	Nb.	SSW	10	..	..	Nb.	..	10·0
14	SSW	4	SSW	3	SW	4	3·7	0·3	4	8	A.-Cu.	..	Nb.	SW	9	..	..	St.-Cu.	WSW	1	..	..	..	..	6·0
15	WSW	4	WSW	6	WNW	5	5·0	0·8	10	10	A.-Cu.	W	Nb.	W	9	Ci.	..	Nb.	W	10	..	..	Nb.	..	9·7
16	WNW	3	NW	2	WNW	3	2·7	2·5	31	7	A.-Cu.	WSW	Cu.-Nb.	..	7	..	..	St.-Cu.	W	2	..	..	..	..	5·3
17	WSW	3	SSW	5	SSW	5	4·3	2·6	31	8	..	..	..	..	7	Ci.-St., Ci.	NW	..	..	10	..	..	..	..	8·3
18	SSW	5	SW	4	SW	5	4·7	0·6	6	10	..	..	Nb.	SSW	10	..	..	Nb.	..	3	..	..	..	..	7·7
19	SSW	4	SW	6	SW	4	4·7	0·0	0	10	..	..	Nb.	SW	10	..	..	Nb.	WSW	7	..	..	..	..	9·0
20	SSW	3	S	4	SW	4	3·7	1·8	22	4	Ci.	WSW	Cu.-Nb.	..	6	..	..	Cu.	SSW	10	..	..	..	..	6·7
21	W	3	SW	4	WSW	2	3·0	0·2	2	6	..	..	Cu.-Nb.	..	10	..	..	Nb.	..	9	..	..	Nb.	..	8·3
22	—	0	S	2	SSE	3	1·7	2·5	31	0	..	..	..	..	8	..	..	Cu.-Nb.	S	10	..	..	..	..	6·0
23	E	1	ENE	2	NNW	3	2·0	1·3	16	10	..	..	..	..	6	..	..	Cu.-Nb.	..	4	..	..	Cu.-Nb.	NNE	6·7
24	NNE	3	NNE	3	ENE	3	3·0	2·6	31	3	..	..	Cu.	NNW	8	..	..	Cu.-Nb.	NE	6	..	..	Cu., Cu.-Nb.	ENE	5·7
25	SSE	3	S	3	SSE	4	3·3	1·5	18	4	A.-Cu.	NNW	..	..	8	A.-Cu.	W	..	..	6	A.-Cu.	WSW	..	..	6·0
26	S	5	S	4	SSE	3	4·0	0·0	0	10	..	..	Nb.	..	10	..	..	Nb.	..	10	..	..	..	..	10·0
27	S	6	SSW	3	SSE	4	4·3	3·3	41	10	..	..	Nb.	..	10	..	..	..	..	10	..	..	Nb.	..	10·0
28	SSW	3	S	4	WSW	7	4·7	0·0	0	10	..	..	Nb.	..	10	..	..	..	..	7	..	..	Cu.-Nb.	W	9·0
29	WNW	5	W	3	W	3	3·7	2·9	34	10	..	..	Cu.-Nb.	SW	5	..	..	Cu.-Nb.	WSW	3	..	..	..	..	6·0
30	SSW	4	S	5	S	6	5·0	0·9	11	3	..	..	Fr.-Cu.	SSW	10	..	..	Nb.	SSW	10	..	..	..	..	7·7
31	SW	3	WSW	2	SSW	3	2·7	1·4	17	10	..	..	Nb.	..	6	Ci.-St.	..	..	..	1	..	..	Cu.	SW	5·7
Means	3·9		3·9		4·2		4·0	43·9	17	7·5	—	—	—	—	8·3	—	—	—	—	6·8	—	—	—	—	7·5
Normal	3·9		4·0		4·0		4·0	61·9	24	7·8	—	—	—	—	7·4	—	—	—	—	7·2	—	—	—	—	7·5

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	84·6	70·7	70·0	75·1	78·7	80·4	81·4	82·7	78·4	80·3	74·2	85	94	74	84	4·1	Violent squall from S.S.W. 17 h. 15 m.
2	74·7	78·2	77·6	76·8	79·6	78·8	78·8	80·9	78·0	79·2	76·0	72	88	85	82	7·3	q., with ▲ 20 h. [Ⓤ 21 h.
3	68·4	69·1	74·4	70·6	79·7	79·0	78·5	79·9	77·8	79·0	74·2	91	85	83	86	5·6	
4	82·6	88·2	94·4	88·4	79·4	82·1	81·9	82·1	77·4	80·6	71·3	66	70	77	71	2·8	Ⓤ 5 h. 15 m.
5	99·6	99·4	05·5	01·5	81·7	83·5	82·7	83·8	80·0	82·3	75·9	70	85	80	78	1·9	
6	09·5	09·8	04·8	08·0	82·0	82·7	83·3	x 83·9	x 81·9	x 82·8	78·3	93	91	91	92	6·5	
7	99·6	93·5	96·0	96·4	83·7	83·1	81·3	83·8	78·4	82·1	80·7	87	100	71	86	9·8	
8	99·8	97·8	95·4	97·6	80·9	80·9	79·4	82·0	77·1	80·1	73·6	85	65	79	76	9·4	q., with ▲ 7 h. 20 m. q., with ┳ 11 h.
9	92·2	95·8	01·0	96·3	80·2	81·1	81·2	81·2	79·0	80·5	75·6	77	62	66	68	2·5	[▲ 12 h. 15 m. and 20 h. 40 m.
10	06·0	03·4	97·4	02·3	78·9	80·5	82·0	82·5	78·6	80·5	70·7	75	91	96	87	6·6	
11	97·1	96·0	01·0	98·0	81·5	80·2	78·9	82·2	77·8	80·1	76·5	72	80	75	76	5·3	
12	07·9	13·8	17·0	12·8	80·7	81·7	80·4	82·0	78·2	80·6	74·2	66	71	83	73	—	
13	14·8	16·0	18·2	16·4	82·9	83·1	81·9	83·3	79·1	82·1	77·7	100	100	100	100	1·1	≡ all day.
14	18·2	17·1	15·0	16·8	82·0	82·2	82·0	82·8	81·8	82·2	79·5	96	93	92	94	0·2	
15	11·2	09·1	02·7	07·6	81·9	82·4	81·7	82·7	81·7	82·1	79·3	95	90	89	91	1·3	
16	98·6	03·4	08·8	03·6	82·1	81·8	79·7	82·7	79·0	81·1	77·3	74	63	57	65	2·5	
17	12·8	15·0	19·2	15·6	78·9	78·7	78·1	79·5	75·9	78·2	74·0	61	58	58	59	0·8	✳ 11 h. 45 m. and 13 h. 30 m. ▲ 14 h.
18	24·4	25·8	28·6	26·2	77·4	78·1	77·9	79·4	77·1	78·0	74·3	68	n 48	50	55	—	[45 m.
19	28·8	28·0	27·5	28·2	78·4	80·5	80·2	81·3	77·5	79·6	69·7	83	77	84	81	0·5	
20	23·2	18·2	10·0	17·1	80·3	81·3	81·1	82·4	79·6	80·9	74·3	80	93	99	91	0·7	
21	89·4	82·0	82·3	84·6	81·4	81·7	77·9	82·0	77·8	80·2	79·2	98	76	78	84	11·3	▲ 16 h. 45 m.
22	80·0	82·0	85·4	82·4	76·4	78·6	79·2	79·8	74·8	77·8	72·3	76	80	70	75	8·6	▲ 6 h. 30 m. ✳● 10 h. 20 m., ✳ n.
23	83·9	89·8	95·1	89·6	74·7	77·1	77·9	78·0	73·8	76·3	71·8	89	65	79	78	x 16·2	
24	98·0	98·8	99·6	98·8	79·0	80·0	79·0	80·3	78·0	79·3	72·5	76	79	85	80	—	
25	97·9	97·8	98·6	98·0	77·7	79·2	77·8	79·8	77·0	78·3	71·1	91	82	87	87	—	
26	96·4	95·0	93·8	95·1	77·0	78·3	75·2	78·6	74·4	76·7	69·3	98	80	88	89	—	
27	90·3	89·8	92·4	90·8	74·3	74·1	74·1	n 74·6	73·0	74·0	71·0	70	74	70	71	—	
28	94·8	95·9	98·4	96·4	73·5	73·6	74·2	75·1	73·4	74·0	69·6	63	82	71	72	—	
29	00·4	02·0	04·6	02·4	71·8	74·2	74·0	74·8	n 70·4	n 73·0	n 64·8	68	73	79	73	—	
30	07·9	09·2	08·6	08·6	73·4	78·1	75·9	78·6	72·2	75·6	66·1	89	60	57	69	—	
31	01·2	01·5	04·4	02·4	77·6	80·7	78·2	81·3	75·4	78·6	67·7	77	57	89	74	3·2	▲ 16 h.
Means	99·8	99·7	00·9	00·1	79·0	79·9	79·2	80·8	77·2	79·2	73·6	80	78	79	79	108·2	
Normal	12·2	11·9	13·0	12·4	78·6	79·9	79·0	80·7	77·3	79·1	74·1	84	78	82	81	66·6	

JERSEY (ST LOUIS OBSERVATORY.)

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. Tenths. 7 h.	Upper. Type. 7 h.	Direction. 7 h.	Lower. Type. 7 h.	Direction. 7 h.	Tenths. 14 h.	Upper. Type. 14 h.	Direction. 14 h.	Lower. Type. 14 h.	Direction. 14 h.	Tenths. 21 h.	Upper. Type. 21 h.	Direction. 21 h.	Lower. Type. 21 h.	Direction. 21 h.	Mean Amount.
								hr.	%																
1	SSE	6	S	4	SW	5	5·0	0·5	6	10	..	..	Nb.	S	10	..	..	Nb.	S	6	Ci.-St.	..	..	..	8·7
2	SW	5	WSW	4	SSW	4	4·3	3·3	40	10	..	..	Nb.	..	9	..	..	Nb.	..	4	..	..	Fr.-Cu.	SW	7·7
3	SSE	3	WSW	3	W	3	3·0	0·7	8	10	..	..	Nb.	..	10	..	..	Nb.	..	8	..	..	Cu.-Nb.	..	9·3
4	WNW	4	W	4	WNW	4	4·0	5·0	61	3	..	..	Cu.	NNW	6	..	..	Cu.-Nb.	NW	4	..	..	Cu.	NW	4·3
5	WSW	3	W	4	WSW	4	3·7	1·8	22	9	..	..	..	..	7	Ci.	W	Cu.-Nb.	WNW	2	..	..	..	..	6·0
6	WSW	4	SSW	3	SW	4	3·7	0·2	3	10	..	..	..	..	10	..	..	..	..	10	..	..	Nb.	..	10·0
7	SW	5	SW	6	W	6	5·7	0·0	0	10	..	..	..	..	10	..	..	Nb.	..	3	..	..	Cu.-Nb.	..	7·7
8	SW	5	WSW	6	SW	5	5·3	3·5	42	7	Ci.-Cu.	WNW	Nb.	WNW	6	Ci.	WNW	Cu.-Nb.	WNW	2	..	..	Nb.	..	5·0
9	W	3	WNW	3	WNW	3	3·0	3·6	43	7	..	..	Nb.	..	4	..	..	Cu.	NW	0	..	..	..	..	2·7
10	WNW	2	SW	4	SW	4	3·3	0·9	11	4	..	..	..	..	10	..	..	Nb.	SW	10	..	..	Nb.	..	8·0
11	WSW	4	W	5	WNW	4	4·3	0·3	4	8	..	..	..	..	10	Ci.	W	Nb.	NW	2	..	..	..	..	6·7
12	WNW	4	NW	3	SW	2	3·0	3·6	42	4	..	..	Cu.	W	8	..	..	Cu.-Nb.	NW	10	..	..	..	..	7·3
13	WSW	3	WSW	3	WSW	2	3·3	0·0	0	10	..	..	..	..	10	..	..	≡	..	10	..	..	Nb.	..	10·0
14	WSW	3	SW	3	SW	4	3·3	0·1	1	10	..	..	..	..	10	..	..	..	..	3	..	..	..	..	7·7
15	WSW	3	WSW	4	SW	5	4·0	0·7	8	10	..	..	..	..	10	..	..	St.-Cu.	W	10	..	..	..	..	10·0
16	WSW	6	WNW	6	NW	5	5·7	4·4	51	7	..	..	Cu.-Nb.	WNW	6	..	..	Cu., Cu.-Nb.	NW	2	..	..	..	..	5·0
17	NW	5	NNW	3	NNW	4	4·0	1·4	17	7	..	..	Cu., Cu.-Nb.	NW	6	..	..	Cu.-Nb.	NNE	7	..	..	Cu.-Nb.	..	6·7
18	NNW	4	NNW	4	N	3	3·7	3·5	41	8	..	..	Cu.-Nb.	NNW	7	..	..	Cu., Cu.-Nb.	N	10	..	..	..	..	8·3
19	N	2	WNW	3	NW	2	3·0	1·4	17	5	..	..	Cu.-Nb.	NNW	7	..	..	Cu., Cu.-Nb.	WNW	10	..	..	Nb.	..	7·3
20	WNW	2	WSW	3	SW	4	3·0	1·5	18	10	..	..	..	..	9	..	..	Cu.-Nb., Nb.	W	10	..	....	Nb.	..	9·7
21	WSW	3	NW	4	WNW	4	3·7	2·0	23	10	..	..	Nb.	..	7	..	..	Cu., Cu.-Nb.	NW	6	..	..	Cu.-Nb.	NW	7·7
22	NNW	5	NNW	6	NNW	4	5·0	0·6	7	7	..	..	Cu.-Nb.	NW	10	..	..	Nb.	N	10	..	..	Cu.-Nb., Nb.	..	9·0
23	E	2	NE	3	N	4	3·3	5·8	66	7	..	..	Cu.-Nb.	..	6	Ci.	NE	Cu.	NE	10	..	..	..	..	7·7
24	NNW	5	N	4	N	3	4·0	0·1	1	10	..	..	Cu.-Nb.	NNE	9	A.-Cu.	N	..	..	9	A.-Cu.	NE	..	..	9·3
25	—	0	NNW	2	NNE	2	1·3	0·6	7	10	..	..	..	..	9	A.-Cu.	NE	..	..	10	A.-Cu.	N	..	..	9·7
26	ESE	2	E	4	NE	3	3·0	6·7	75	2	..	..	..	..	1	..	..	Cu.	SE	8	..	..	Cu.-Nb.	ESE	3·7
27	ENE	4	ENE	5	ENE	4	4·3	0·0	0	9	..	..	Cu.	ESE	10	..	..	Cu.	E	10	..	..	Cu.	E	9·7
28	ENE	4	NE	3	ENE	3	3·3	1·8	19	10	..	..	Cu.	ENE	6	..	..	Cu.	NE	9	..	..	Cu.	NE	8·3
29	E	1	—	0	—	0	0·3	0·6	7	8	..	..	Cu.	NE	10	..	..	Cu.	NNE	9	..	..	Cu.	NE	9·0
30	—	0	SSW	3	SSW	4	2·3	9·2	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
31	SW	6	W	7	WSW	5	6·0	3·9	42	8	..	..	Nb.	WSW	2	..	..	Cu.-Nb.	WNW	2	..	..	Cu.-Nb.	NW	4·0
Means	3·5		3·8		3·7		3·7	67·8	25	7·7	—	—	—	—	7·6	—	—	—	—	6·6	—	—	—	—	7·3
Normal	3·8		4·0		3·9		3·9	75·4	28	7·5	—	—	—	—	7·2	—	—	—	—	6·8	—	—	—	—	7·2

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	09·8	11·8	10·7	10·8	79·1	81·2	80·0	82·0	77·2	79·9	71·1	79	88	81	83	9·4	
2	08·3	05·1	07·9	07·1	81·0	81·9	81·3	82·3	*x* 80·5	81·4	79·0	98	89	85	91	7·3	
3	09·0	06·2	03·8	06·3	79·9	83·2	81·0	*x* 83·8	79·4	*x* 81·5	76·0	96	86	87	90	—	
4	01·5	00·3	01·8	01·2	79·7	81·5	81·5	82·4	79·5	80·9	77·5	89	78	72	80	—	
5	04·6	01·5	96·3	00·8	79·6	83·0	81·1	83·6	79·1	81·3	75·2	91	90	82	88	3·0	● began 21 h.
6	91·9	93·2	02·0	95·8	79·4	82·6	81·4	83·1	79·0	81·1	76·2	88	76	78	81	5·6	q. ▲ 13 h. 10 m.
7	06·4	01·5	97·5	01·8	79·9	82·4	81·4	83·0	79·2	81·2	77·9	94	96	93	94	7·2	● 5 h. ≡ 8 h.–12 h. 30 m. Sharp squall [20 h.
8	06·3	05·1	99·0	03·5	78·6	81·1	80·0	82·0	78·4	80·0	74·9	80	72	90	81	1·3	
9	89·9	90·8	93·2	91·2	79·7	80·8	79·1	81·6	78·4	79·9	76·6	74	69	85	76	9·0	Sharp squall 4 h.
10	94·0	94·7	96·7	95·2	78·0	79·0	76·5	80·6	75·9	78·0	73·9	90	85	95	90	0·2	
11	95·8	92·8	90·3	93·0	75·3	75·7	74·9	*n* 77·8	74·5	*n* 75·6	71·1	95	93	95	94	10·5	✱ ● 12 h. 45 m. [10 h. 30 m.
12	88·7	90·3	90·0	89·6	75·5	80·4	77·9	81·6	74·0	77·9	68·3	91	76	79	82	1·2	⌴ *a*. ≡ coming from W.S.W. 10 h.–
13	71·1	70·3	73·1	71·5	78·1	81·8	79·5	83·0	77·4	80·0	69·5	98	65	82	82	*x* 13·4	Storm from S. and S.W. afternoon.
14	77·2	79·8	89·8	82·2	78·5	80·9	78·6	81·7	77·6	79·5	76·3	89	71	85	82	10·9	
15	99·5	04·6	09·5	04·6	77·5	80·7	78·3	81·5	77·1	79·0	72·1	65	62	73	67	—	
16	14·4	14·7	10·7	13·2	76·9	79·8	79·7	80·0	75·1	78·3	68·4	85	71	88	81	6·8	⌴ *a*.
17	00·3	96·8	96·3	97·8	80·2	81·0	81·2	81·9	79·4	80·7	77·1	94	100	89	94	11·4	
18	91·1	85·1	86·3	87·5	80·9	82·1	80·0	83·0	78·8	81·0	76·6	90	76	88	85	8·1	
19	82·7	81·6	80·6	81·6	79·6	82·3	79·1	82·7	78·6	80·5	75·8	93	80	91	88	0·7	
20	81·1	83·5	84·2	83·0	76·8	80·6	78·4	81·6	76·2	78·7	71·2	96	65	84	82	4·5	⊕ 14 h.
21	88·0	90·4	85·6	88·0	75·1	82·0	78·9	82·6	74·5	78·6	68·4	98	71	82	84	—	⌴ *a*.
22	82·0	85·6	88·7	85·5	75·4	77·7	76·0	80·4	75·0	76·9	71·1	97	83	92	91	2·3	
23	97·8	01·1	04·0	01·0	77·0	79·1	76·9	79·6	74·8	77·5	70·3	65	47	61	58	0·8	
24	09·1	14·8	19·1	14·3	77·0	78·2	76·7	78·6	75·1	77·1	69·9	66	58	56	60	—	
25	22·2	23·8	25·6	23·9	74·3	79·2	74·8	79·7	*n* 73·9	76·4	65·5	67	*n* 46	73	62	—	
26	26·0	23·6	18·7	22·8	75·8	78·8	78·1	79·6	74·3	77·3	*n* 65·3	71	58	54	61	—	⌴ *a*. ⊕ 14 h.
27	13·1	12·3	11·6	12·3	78·8	82·9	80·0	83·0	77·4	80·4	75·3	86	73	88	82	1·2	
28	11·0	10·6	07·9	09·8	79·7	81·5	79·8	82·0	78·5	80·3	74·8	68	66	83	72	1·7	
Means	99·0	99·0	99·3	99·1	78·1	80·8	79·0	81·6	77·1	79·3	73·0	85	75	82	81	116·5	
Normal	09·1	08·8	09·5	09·1	78·0	80·1	78·7	80·9	77·1	79·0	73·6	84	74	81	80	59·9	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale) 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	NNW	4	SW	4	S	5	4·3	3·1	33	3	Ci.	..	Cu.	WNW	6	A.-Cu.	WNW	..	..	10	..	..	..	..	6·3
2	SSW	4	SSW	5	SW	4	4·3	0·7	7	10	..	..	..	..	10	..	..	..	..	0	..	..	..	..	6·7
3	S	4	SSW	4	S	6	4·7	4·3	46	1	Ci.	..	..	..	8	..	..	..	..	8	..	..	..	..	5·7
4	SSE	5	SSE	4	SSE	3	4·0	2·2	24	9	..	..	..	..	6	A.-Cu.	..	..	..	3	..	..	..	..	6·0
5	SSE	4	S	5	S	6	5·0	3·5	37	6	..	..	Cu.-Nb.	..	1	A.-Cu.	..	..	..	10	..	..	Nb.	..	5·7
6	S	6	WSW	7	W	4	5·7	3·7	38	10	..	..	Nb.	SW	7	..	..	Cu.	W	9	..	..	..	..	8·7
7	SSW	4	S	3	WSW	5	4·0	0·1	1	10	..	..	Nb.	..	10	..	..	Cu.-Nb.	SW	10	..	..	Nb.	..	10·0
8	SW	5	SSW	5	S	4	4·7	5·7	59	3	A.-Cu.	W	Cu.	SW	6	Ci.	W	..	..	10	..	..	Nb.	..	6·3
9	SW	3	SW	4	SW	3	3·3	6·9	71	7	A.-Cu.	W	..	..	6	..	..	Fr.-Cu.	SW	9	..	..	Nb.	..	7·3
10	SSE	3	E	2	SSE	1	2·0	8·4	88	3	..	..	Cu.	S	3	..	..	Cu.	S	6	..	..	Cu.	..	4·0
11	SSE	3	SSE	3	W	2	2·7	0·0	0	10	..	..	Nb.	SSE	10	..	..	Nb.	S	10	..	..	Nb.	..	10·0
12	SW	1	SW	2	SSE	2	1·7	5·7	58	6	..	..	Cu.	SW	10	..	..	..	..	2	..	..	..	..	6·0
13	S	6	S	8	SW	6	6·7	5·9	60	10	A.-Cu.	SW	Nb.	SW	5	A.-Cu.	SW	..	..	10	..	..	Nb.	..	8·3
14	WSW	6	WSW	4	NNW	3	4·3	1·7	17	10	..	..	Nb.	W	7	A.-Cu.	NW	Fr.-Cu.	WNW	10	..	..	Nb.	..	9·0
15	WNW	2	NW	3	WNW	2	2·3	7·4	74	10	..	..	Cu.-Nb.	NW	4	..	..	Cu.	NW	0	..	..	..	..	4·7
16	—	0	S	3	S	4	2·3	6·8	67	3	..	..	Cu.	W	8	..	..	..	..	10	..	..	Nb.	..	7·0
17	S	5	SSW	4	SSW	3	4·0	0·3	3	10	..	..	Nb.	SSW	10	..	..	Nb.	..	3	..	..	..	..	7·7
18	SSW	3	SSW	4	WSW	4	3·7	4·7	46	8	..	..	Nb.	SW	7	Ci., A.-Cu.	SW	Cu.-Nb.	SW	2	..	..	..	..	5·7
19	SSW	3	SW	3	SW	2	2·7	6·5	63	10	..	..	Nb.	..	6	Ci.	..	Cu.-Nb.	W	2	..	..	..	..	6·0
20	NW	1	WSW	3	SSW	1	1·7	7·8	75	6	A.-Cu.	NNE	..	..	6	Ci.-St.	..	..	..	6	..	..	..	..	6·0
21	NE	1	SW	3	E	1	1·7	9·9	95	2	A.-Cu.	..	..	..	5	..	..	Cu.	NW	7	A.-Cu.	SW	Cu.	SW	4·7
22	NE	1	NW	2	N	3	2·0	5·0	48	5	Ci.	..	..	..	10	..	..	Nb.	..	5	..	..	..	..	6·7
23	NNW	4	NW	4	NW	2	3·3	8·4	80	4	..	..	Cu.	NNW	5	..	..	Cu.	NW	4	..	..	Cu.	NW	4·3
24	N	4	N	4	NNE	4	4·0	3·9	37	9	..	..	Cu.-Nb.	N	5	..	..	Cu.	N	4	A.-Cu.	N	Cu.	N	6·0
25	NE	3	N	3	NNE	2	2·7	10·7	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
26	SE	1	S	3	S	4	2·7	7·5	70	2	St.	..	..	..	6	Ci.-St.	..	..	..	10	..	..	..	..	6·0
27	SSW	4	WSW	1	W	3	2·7	1·0	92	10	..	..	Nb.	..	5	Ci., Ci.-Cu.	W	..	..	9	..	..	Cu.-Nb.	W	8·0
28	WNW	3	WSW	4	W	4	3·7	4·9	46	10	..	..	Cu.-Nb.	WNW	4	A.-Cu.	WNW	Cu.-Nb.	WNW	10	A.-Cu.	WNW	Nb.	WNW	8·0
Means	3·3		3·7		3·3		3·5	136·8	49	6·7	—	—	—	—	6·3	—	—	—	—	6·4	—	—	—	—	6·5
Normal	3·8		4·1		3·9		3·9	101·9	35	6·8	—	—	—	—	6·9	—	—	—	—	6·3	—	—	—	—	6·7

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	03·1	04·4	08·2	05·2	79·5	81·0	79·3	81·7	78·4	80·0	75·6	75	52	61	63	0·7	
2	10·8	11·9	11·5	11·4	76·8	81·0	79·2	82·0	76·5	79·1	69·0	79	72	79	77	0·2	● 5 h. 30 m. ⊕ 10 h.
3	09·8	09·2	08·8	09·2	79·9	82·1	80·1	83·1	78·8	80·8	73·3	85	82	88	85	2·1	● 16 h. 30 m.
4	11·2	15·9	18·6	15·2	81·1	83·2	81·1	84·5	79·6	81·9	77·8	100	85	92	92	2·2	≡ 4 h. 30 m.–10 h.
5	19·8	19·9	20·2	19·9	82·0	82·5	81·9	83·0	81·0	82·1	77·8	90	100	100	97	0·3	≡ from 7 h. 30 m., continuing all day.
6	20·7	17·0	16·2	17·9	80·1	82·1	82·0	83·0	80·1	81·5	79·5	98	87	91	92	—	
7	13·1	10·6	11·1	11·5	81·3	82·1	80·1	83·1	81·2	81·6	77·9	86	72	69	76	—	
8	11·1	15·1	19·1	15·1	76·9	78·3	76·9	79·0	75·0	77·2	73·7	69	70	64	68	0·8	✻ 7 h. 10 m., 13 h., and 14 h. 15 m.
9	22·0	23·2	24·4	23·2	75·9	77·1	77·4	78·5	75·3	76·8	71·2	62	59	62	61	—	
10	23·2	21·6	19·2	21·4	77·3	80·4	79·5	81·5	76·5	79·0	70·2	77	65	72	71	—	≡ 7 h. 30 m.–10 h. 30 m.
11	13·8	08·0	07·8	09·9	80·1	81·1	80·6	82·0	78·8	80·5	74·7	97	100	100	99	2·9	≡ from 7 h. 30 m., continuing all day.
12	13·9	16·8	18·4	16·4	80·1	83·7	79·1	84·6	80·0	81·5	79·1	97	78	95	90	—	
13	18·2	18·0	17·8	18·0	79·8	80·7	79·8	82·5	78·4	80·2	70·8	97	93	91	94	—	≡ 6 h.–15 h.
14	17·6	17·1	18·0	17·6	80·1	84·2	79·3	84·6	79·7	81·6	76·9	97	71	88	85	—	
15	18·3	18·0	17·8	18·0	78·3	83·4	81·2	84·8	77·0	80·9	71·5	96	70	89	85	—	
16	15·9	14·2	12·4	14·2	79·8	82·6	78·0	82·1	79·6	80·4	77·6	88	77	84	83	—	
17	08·3	04·2	01·0	04·4	76·6	80·4	79·1	81·4	76·4	78·8	70·0	90	80	82	84	—	
18	96·0	93·5	93·8	94·4	78·5	78·5	77·7	81·6	77·7	78·8	71·7	77	88	57	74	—	≡ 8 h.–10 h. 30 m. ●0 13 h.
19	95·9	00·7	05·2	00·6	76·0	76·6	75·8	*n* 77·7	75·6	*n* 76·3	71·1	59	55	52	55	—	
20	10·2	12·6	15·2	12·7	74·7	81·1	75·9	81·9	*n* 73·2	77·4	*n* 65·4	56	43	70	56	—	⌴ *a*.
21	16·3	14·8	12·6	14·6	77·0	82·8	78·9	84·0	75·6	79·7	67·1	83	41	76	67	—	⌴ *a*.
22	06·7	05·1	05·0	05·6	78·0	84·5	82·9	85·3	77·2	81·6	72·2	78	69	90	79	0·5	●0 5 h. 15 m., then ●.
23	06·4	07·0	06·0	06·4	82·1	87·9	82·7	*x* 88·6	81·6	*x* 84·6	76·2	97	78	95	90	*x* 8·8	● 18 h. 30 m. [20 m.–15 h. 45 m.
24	05·6	07·8	10·4	07·9	82·0	83·3	82·3	84·2	*x* 81·7	82·7	79·7	96	95	95	95	1·0	≡ 10 h. 30 m.–11 h. 30 m., and 14 h.
25	10·7	10·3	11·6	10·8	80·9	82·9	78·6	83·2	77·6	80·6	78·3	97	86	78	87	0·4	≡ 4 h.–6 h. and 15 h. 15 m. ● ≡ 16 h.
26	05·9	99·6	97·5	01·0	75·1	79·4	77·3	80·2	74·7	77·3	72·5	73	59	72	68	—	⊕2 11 h. Complete ⓤ 21 h. [15 m.
27	96·8	96·3	95·6	96·2	75·7	77·9	76·9	78·6	75·2	76·9	71·7	58	54	68	60	—	
28	94·8	96·7	99·5	97·0	75·9	78·0	75·8	78·7	75·2	76·7	71·3	61	46	55	54	—	
29	00·8	00·4	00·4	00·6	75·1	78·1	76·3	79·3	74·2	76·6	69·0	47	*n* 27	51	42	—	⊕ 15 h.
30	99·9	01·0	03·4	01·5	75·3	77·7	76·2	78·3	74·6	76·4	72·5	58	53	60	57	0·2	✻ during night. ✻ afternoon. ⓤ [evening
31	09·0	12·2	15·8	12·3	77·2	80·8	76·9	81·0	75·1	78·2	67·9	72	59	80	70	—	
Means	09·9	09·8	10·4	10·0	78·4	81·1	79·0	82·1	77·5	79·6	73·3	80	70	78	76	20·1	
Normal	06·4	06·4	06·8	06·6	78·9	81·7	79·6	82·5	77·8	80·1	74·1	84	73	82	79	61·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total. hr.	Per cent of Possible. %	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
1	NW	4	NW	4	NNW	4	4·0	8·5	78	8	..	..	Nb.	WNW	3	..	..	Cu.	WNW	2	..	..	Cu.	..	4·3
2	SW	1	SW	3	S	2	2·0	7·2	66	6	A.-Cu.	WSW	{Cu. Nb.}	{SW WNW}	6	Ci.-St.	..	Cu.	W	8	A.-Cu.	W	..	..	6·7
3	SW	3	S	3	S	3	3·0	1·6	14	10	..	..	..	..	7	..	..	St.-Cu.	WSW	10	..	..	Nb.	..	9·0
4	W	1	WNW	3	W	3	2·3	1·2	11	10	..	..	≡	..	10	..	..	Cu.-Nb.	WNW	1	..	..	..	..	7·0
5	WSW	3	WSW	4	W	5	4·0	0·0	0	10	..	..	≡	..	10	..	..	≡	..	10	..	..	≡	..	10·0
6	W	3	W	5	WNW	4	4·0	1·9	17	10	..	..	Nb.	WNW	9	..	..	Cu.-Nb.	WNW	10	..	..	..	..	9·7
7	WNW	3	NW	4	NNW	4	3·7	3·0	27	10	..	..	Cu.-Nb.	NW	6	A.-Cu.	N	Cu.-Nb.	..	6	..	..	..	..	7·3
8	N	5	NNE	3	NNE	4	4·0	4·0	35	10	..	..	Nb.	N	4	..	..	St.-Cu.	NE	10	..	..	..	..	8·0
9	NE	4	NNE	3	NNE	3	3·3	1·0	9	7	A.-Cu.	NE	Cu.-Nb.	NE	8	..	..	St.-Cu.	NE	1	..	..	..	..	5·3
10	NNE	2	NW	3	NW	3	2·7	2·1	18	7	..	..	≡	..	5	..	..	Cu.	NW	10	..	..	..	..	7·3
11	WNW	2	WSW	3	—	0	1·7	0·1	1	10	..	..	≡	..	10	..	..	≡	..	10	..	..	≡	..	10·0
12	E	2	NE	2	NNE	2	2·0	5·9	51	10	..	..	..	..	2	..	..	Cu.	..	0	..	..	..	..	4·0
13	—	0	W	2	WNW	2	1·3	0·5	4	10	..	..	≡	..	10	..	..	≡	..	10	..	..	..	..	10·0
14	—	0	NNE	2	NNE	1	1·0	4·9	42	8	..	..	Cu.-Nb.	..	5	..	..	Cu.	NE	0	..	..	..	..	4·3
15	NE	2	ENE	3	NNE	2	2·3	7·4	63	0	..	..	..	..	8	..	..	Cu.-Nb.	NNE	10	..	..	..	..	6·0
16	NE	1	NNE	2	NE	3	2·0	1·8	15	10	..	..	..	..	9	..	..	St.-Cu.	NE	2	..	..	..	..	7·0
17	ENE	1	ENE	2	NE	3	2·0	1·9	16	1	..	..	Cu.	ENE	10	..	..	Cu.-Nb.	NNE	10	..	..	..	..	7·0
18	—	0	NNW	3	WNW	3	2·0	1·0	8	10	..	..	..	..	10	..	..	Cu.-Nb.	N	3	..	..	..	..	7·7
19	NW	5	N	4	NE	3	4·0	1·6	14	10	..	..	Cu.-Nb.	N	10	..	..	Cu.-Nb.	N	1	..	..	..	..	7·0
20	—	0	W	2	NW	1	1·0	11·9	99	0	..	..	..	..	1	..	..	Fr.-Cu.	..	0	..	..	..	..	0·3
21	SE	1	ESE	2	ENE	4	2·3	12·1	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
22	ENE	3	SE	3	SSE	3	3·0	0·6	5	10	..	..	Nb.	..	10	..	..	..	..	7	A.-Cu.	S	..	..	9·0
23	S	4	SSE	3	SSE	3	3·3	8·6	70	10	A.-Cu.	WSW	..	..	3	Ci.	SW	..	..	7	A.-Cu.	SE	Nb.	SSE	6·7
24	SSW	3	W	3	WNW	3	3·0	1·7	14	5	A.-Cu.	..	Cu.-Nb.	SSW	7	..	..	Cu.-Nb.	WNW	10	..	..	..	..	7·3
25	WNW	3	NW	2	ENE	3	3·3	0·0	0	8	..	..	Cu.-Nb.	NW	10	..	..	..	..	10	..	..	..	..	9·3
26	ENE	6	NE	6	ENE	6	6·0	11·3	91	0	..	..	..	..	3	Ci.	SW	..	..	3	Ci.-St.	..	..	..	2·0
27	ENE	5	NE	5	ENE	5	5·0	6·2	50	6	Ci., Ci.-Cu.	WSW	Cu.	ENE	8	A.-Cu.	WSW	Cu.	ENE	10	..	..	..	..	8·0
28	ENE	5	NE	6	NE	4	5·0	10·1	80	6	A.-Cu.	NE	Cu.	ENE	1	..	..	Fr.-Cu.	NE	4	..	..	Fr.-Cu.	ENE	3·7
29	ENE	4	ENE	5	NE	4	4·3	9·4	74	4	Ci.	WSW	Cu.	SW	4	Ci.	WSW	..	..	10	..	..	..	..	6·0
30	NE	4	NE	4	NNE	3	3·7	1·1	9	10	..	..	St.-Cu.	NE	8	..	..	..	..	8	..	..	..	..	8·7
31	NE	3	NNE	3	NE	2	2·7	10·0	78	6	..	..	Cu.	NE	6	..	..	Cu.	ENE	0	..	..	..	..	4·0
Means	2·7		3·3		3·1		3·0	138·5	38	7·2	—	—	—	—	6·5	—	—	—	—	6·0	—	—	—	—	6·8
Normal	3·8		4·2		3·8		3·9	150·6	41	7·0	—	—	—	—	6·3	—	—	—	—	5·7	—	—	—	—	6·3

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	Remarks.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	19·1	20·7	22·3	20·7	76·5	83·1	79·8	83·8	*n* 74·5	79·5	*n* 67·0	80	57	78	72	—	⌴ morning.
2	24·2	22·7	18·8	21·9	78·6	81·9	80·5	83·2	76·3	80·1	68·3	95	62	94	84	0·3	●⁰ 17 h., then ●.
3	16·2	13·9	11·6	13·9	80·9	81·9	82·1	83·6	80·6	81·8	79·6	94	97	98	96	—	≡ 11 h. till night
4	08·4	08·6	08·2	08·4	82·1	84·1	81·5	85·0	81·4	82·8	81·1	100	85	97	94	1·4	
5	02·8	02·7	05·6	03·8	79·4	78·1	79·7	*n* 80·0	78·0	*n* 79·0	78·8	95	97	94	95	*x* 13·4	
6	02·3	93·5	88·4	94·8	79·7	81·1	81·7	83·0	78·4	80·8	71·8	90	89	98	92	12·5	
7	88·7	89·5	94·2	90·8	81·5	81·8	80·1	83·1	79·4	81·2	78·6	92	75	82	83	2·1	
8	97·6	04·3	08·6	03·5	80·4	82·9	80·5	84·0	78·4	81·2	73·8	80	65	75	73	—	
9	13·4	15·6	15·6	14·8	80·4	83·1	81·0	84·0	79·4	81·6	74·6	80	62	81	74	3·5	
10	12·7	14·0	16·7	14·4	80·8	82·6	80·7	83·8	79·9	81·6	77·8	83	72	90	82	3·5	
11	19·2	20·8	21·2	20·4	80·9	83·8	81·3	84·5	80·5	82·2	74·3	96	65	90	84	0·4	● 5 h. 15 m.
12	19·8	17·6	14·7	17·4	81·0	81·9	82·1	82·7	79·7	81·5	80·3	100	98	93	97	6·0	≡ 6 h.–17 h.
13	13·4	13·8	13·2	13·5	79·6	82·2	80·7	83·0	79·0	80·9	75·8	72	71	71	71	—	
14	12·7	13·5	15·2	13·9	79·4	82·4	78·6	83·0	78·3	80·3	73·0	70	56	74	67	—	
15	16·6	17·6	18·8	17·8	81·0	85·2	81·1	86·0	80·8	82·8	70·2	87	68	97	84	—	
16	18·8	18·7	17·9	18·4	80·7	83·1	81·0	87·2	79·3	82·3	72·3	100	86	94	93	—	≡ 5 h.–10 h. 30 m.
17	17·9	19·0	18·3	18·4	81·0	82·4	79·7	84·3	78·9	81·3	78·7	77	*n* 46	75	66	0·2	● 4 h. 30 m.
18	16·4	15·4	16·3	16·0	80·1	84·5	79·6	85·5	78·7	81·7	73·0	80	68	66	71	—	
19	16·6	16·4	15·2	16·0	80·9	85·6	80·3	86·8	78·2	82·4	71·0	73	48	94	72	—	
20	11·6	09·9	12·3	11·4	81·2	83·9	80·3	85·4	79·6	82·1	72·6	92	72	81	82	2·2	● 14 h.
21	16·0	16·6	17·0	16·6	79·7	81·9	79·6	82·6	78·5	80·5	73·2	58	49	57	55	—	
22	16·0	14·7	13·8	14·8	80·4	83·1	80·6	84·6	77·3	81·2	70·2	80	50	73	68	—	⌴⁰ morning. ⊕ 14 h.
23	12·6	12·6	14·2	13·1	79·7	83·4	79·4	84·0	78·1	80·9	71·3	97	58	68	74	2·9	● 6 h. 15 m. ▲ 14 h.
24	14·6	12·6	11·8	13·0	80·1	82·9	79·8	84·4	77·2	80·9	71·1	60	*n* 46	82	63	—	
25	10·2	09·0	10·6	10·0	79·6	80·1	80·5	82·0	78·1	80·1	72·5	65	89	85	80	1·5	● 9 h. 45 m. and 14 h. 30 m.
26	14·3	15·2	16·0	15·1	81·2	86·0	82·2	86·9	79·4	83·1	76·1	81	71	81	78	—	
27	14·8	14·4	14·3	14·6	81·1	83·3	81·0	84·6	80·2	82·0	78·6	89	74	87	83	0·1	● 7 h. [horizon overcast.
28	12·6	12·0	12·2	12·3	83·1	89·5	83·8	90·2	80·2	85·4	78·5	88	66	83	79	—	T in distance 15 h. 30 m. S. and S.W.
29	14·2	14·7	14·7	14·6	87·1	87·3	81·5	89·4	*x* 82·0	*x* 85·5	76·9	86	77	97	87	0·2	● after 0 h. ≡ began at 20 h. 30 m.
30	13·5	12·3	10·8	12·2	80·1	86·1	83·9	*x* 90·7	79·4	84·0	76·4	100	79	78	86	—	≡ all night; it did not get light until 11 h.
Means	12·9	12·7	13·0	12·9	80·6	83·3	80·8	84·7	79·0	81·7	74·6	85	70	84	80	50·2	
Normal	08·7	08·7	09·1	08·8	81·2	84·3	81·4	85·2	79·6	82·3	75·9	82	66	81	77	45·7	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).			Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.														Mean Amount.
							7 h.	Upper.		Lower.		14 h.	Upper.		Lower.		21 h.	Upper.		Lower.		
	7 h.	14 h.	21 h.		Total.	For cent. of Possible.	Tenths.	Type.	Direction.	Type.	Direction.	Tenths.	Type.	Direction.	Type.	Direction.	Tenths.	Type.	Direction.	Type.	Direction.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%	7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
1	NE 1	N 2	N 3	2·0	12·8	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
2	NNW 1	WSW 4	WSW 4	3·0	8·7	67	0	..	..	..	..	8	A.-Cu.	NNW	St.-Cu.	NE	10	..	..	Nb.	..	6·0
3	W 3	WSW 3	WSW 4	3·3	0·6	5	10	..	..	..	..	10	..	..	≡	..	10	..	..	≡	..	10·0
4	W 4	W 3	W 2	3·0	0·5	4	10	..	..	Nb.	..	8	..	..	St.-Cu.	W	10	..	..	Nb.	..	9·3
5	ENE 3	NNE 3	WNW 3	3·0	0·1	1	10	..	..	Nb.	..	10	..	..	Nb.	NE	1	..	..	..	..	7·0
6	SSW 4	SW 5	SSW 4	4·3	0·7	5	8	..	..	..	..	10	..	..	Nb.	..	10	..	..	Nb.	..	9·3
7	W 3	W 3	WNW 3	3·0	3·9	29	8	A.-Cu.	..	Cu.-Nb.	W	7	A.-Cu.	..	Cu.-Nb.	WSW	1	..	..	..	..	5·3
8	W 4	W 6	WNW 4	4·7	12·3	93	7	..	..	Cu.-Nb.	WNW	3	..	..	Cu.	WNW	0	..	..	..	..	3·3
9	WNW 4	NW 5	WNW 3	4·0	10·6	80	7	..	..	Cu.-Nb., Nb.	NW	7	..	..	Cu.-Nb.	WNW	10	..	..	..	..	8·0
10	NW 4	NNW 4	NW 1	3·0	4·0	30	10	..	..	Nb.	..	7	A.-Cu.	NNW	..	..	0	..	..	..	..	5·7
11	N 1	NNW 1	NNW 1	1·0	0·6	5	10	..	..	Nb.	..	9	A.-Cu.	..	Cu.-Nb.	N	10	..	..	..	..	9·7
12	— 0	N 1	NNW 4	1·7	0·0	0	10	..	..	≡	..	10	..	..	≡	..	10	..	..	Nb.	..	10·0
13	N 5	N 4	N 2	3·7	11·1	82	5	A.-Cu.	NNE	Cu.	NNE	1	..	..	Cu.	..	3	..	..	..	..	3·0
14	NE 3	NNE 3	NNW 2	2·7	13·3	98	3	Ci.	N	Cu.	..	0	..	..	..	..	0	..	..	..	..	1·0
15	NNE 2	WNW 2	NW 1	1·7	9·2	68	4	Ci.	..	..	..	4	Ci.	W	Cu.	WNW	4	..	..	..	..	4·0
16	SSW 1	WSW 2	NW 2	1·7	4·7	35	10	..	..	≡	..	5	..	..	Cu.	NNW	10	..	..	..	..	8·3
17	NE 3	NNE 4	NE 3	3·3	10·5	77	10	..	..	..	..	0	..	..	..	..	0	..	..	..	..	3·3
18	NE 3	NNE 3	NE 2	2·7	5·3	38	9	..	..	St.-Cu.	NE	5	Ci.	..	Cu.	..	4	..	..	..	..	6·0
19	NE 2	W 3	NW 1	2·0	13·9	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
20	WSW 3	WSW 2	N 3	2·7	3·2	23	10	..	..	St.-Cu.	W	10	..	..	Nb.	..	7	..	..	St.-Cu.	N	9·0
21	NNE 4	NNE 4	N 1	3·0	13·1	93	6	..	..	Cu.-Nb.	NNE	1	..	..	Cu.	..	0	..	..	..	..	2·3
22	N 2	N 3	N 2	2·3	10·6	75	6	A.-Cu.	NW	..	..	5	Ci.	NNE	..	..	10	..	..	..	..	7·0
23	— 0	ENE 4	NE 3	2·3	7·0	50	10	..	..	Nb.	..	6	A.-Cu.	NE	Cu.-Nb.	NE	0	..	..	..	..	5·3
24	NE 3	N 3	N 2	2·3	9·6	68	2	Ci.	NE	..	..	6	A.-Cu.	NE	Cu.	NE	6	A.-Cu.	N	..	..	4·7
25	NNE 4	N 5	NE 3	4·0	3·5	25	10	A.-Cu.	NE	..	..	10	..	..	Nb.	NE	7	..	..	St.-Cu.	ENE	9·0
26	ENE 3	NE 4	ENE 4	3·7	14·2	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
27	ENE 5	ENE 6	ENE 5	5·3	6·0	42	9	A.-Cu.	ENE	Nb.	ENE	6	..	..	Cu.	NE	0	..	..	..	..	5·0
28	ENE 5	ENE 5	ENE 4	4·7	12·0	84	1	..	..	..	..	0	..	..	..	..	2	..	..	..	..	1·0
29	NNE 1	W 2	NNW 1	1·3	14·4	100	1	A.-Cu.	SE	..	..	1	..	..	Cu.-Nb.	..	10	..	..	≡	..	4·0
30	W 1	WSW 1	N 1	1·0	7·8	54	10	..	..	≡	..	0	..	..	..	..	2	..	..	..	..	4·0
Means	2·6	3·2	2·5	2·8	224·0	55	6·5	—	—	—	—	5·0	—	—	—	—	4·6	—	—	—	—	5·4
Normal	3·6	4·0	3·6	3·7	216·8	53	5·9	—	—	—	—	5·0	—	—	—	—	5·2	—	—	—	—	5·4

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	REMARKS.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200−	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	08·8	07·5	06·0	07·5	80·0	89·3	84·7	90·9	78·2	84·6	76·1	100	57	77	78	—	≡ from 0 h.–8 h. ●0 8 h. 40 m.
2	05·8	07·1	08·4	07·1	82·0	84·1	83·3	86·3	81·4	83·4	78·8	100	88	95	94	—	≡ 0 h.–9 h. 30 m.
3	09·0	08·3	06·8	08·0	82·3	81·7	82·1	83·5	81·2	82·2	80·1	72	91	97	87	*x* 9·7	● 12 h. 45 m.
4	06·8	08·0	07·9	07·6	84·4	87·6	86·9	90·6	82·1	86·3	81·1	100	90	85	92	1·4	≡ 4 h.–8 h. T in distance 13 h. 20 m.–
5	07·8	07·5	07·5	07·5	85·4	90·2	83·9	91·0	83·7	86·8	77·6	92	74	93	86	—	[14 h. ● 13 h. 45 m.
6	07·8	07·9	07·9	07·9	85·4	92·0	87·0	93·3	81·1	87·8	76·1	87	60	73	73	—	
7	07·1	08·3	08·8	08·2	87·4	94·0	88·9	94·9	84·9	90·0	82·5	90	65	86	80	0·2	●0 shower at 10 h. 40 m.
8	08·7	10·7	13·2	10·8	87·1	87·1	83·7	88·4	83·3	85·9	85·0	92	96	92	93	5·1	●2 shower 0 h. 40 m. ●0 21 h.
9	15·6	17·5	20·0	17·6	83·2	86·7	80·9	87·3	79·9	83·6	77·0	84	64	72	73	—	
10	18·0	15·1	13·4	15·5	81·6	86·4	84·3	89·7	80·1	84·4	77·2	90	72	87	83	—	
11	10·8	08·8	07·1	08·8	84·8	91·0	83·7	92·0	81·0	86·5	77·5	74	38	54	55	—	
12	04·3	04·0	03·9	04·0	83·4	86·9	83·1	88·7	80·8	84·6	73·3	95	68	94	86	—	
13	99·0	97·6	95·0	97·2	84·1	85·7	85·5	86·7	82·6	84·9	82·2	98	95	92	95	8·8	● 2 h.–9 h. and 12 h.
14	05·1	13·9	17·4	12·2	79·1	82·3	79·1	*n* 83·3	78·0	*n* 80·4	78·7	86	66	84	79	—	
15	16·8	14·7	12·2	14·6	82·0	85·1	83·1	86·5	*n* 77·3	82·8	72·7	79	64	84	76	—	
16	09·5	06·4	03·1	06·3	84·9	90·9	87·8	92·2	82·3	87·6	76·4	80	55	66	67	—	
17	97·2	96·8	96·6	97·0	85·5	86·0	85·7	86·9	83·7	85·6	80·6	82	93	89	88	5·0	● 3 h.–4 h. and 11.45 h.
18	99·2	04·6	08·7	04·2	84·0	82·9	81·8	85·3	80·5	82·9	81·4	98	87	92	92	—	≡ 5 h. 30 m.–9 h. 30 m.
19	11·4	11·4	11·1	11·2	85·2	88·8	86·9	89·3	79·2	85·9	72·8	74	61	79	71	2·7	
20	10·2	11·2	11·0	10·8	85·4	90·1	86·9	92·0	85·0	87·9	84·5	97	75	81	84	0·2	
21	09·6	09·2	10·2	09·8	87·2	87·6	84·5	90·8	83·4	86·7	77·2	86	80	93	86	—	●0 16 h. 15 m.
22	11·0	11·8	14·2	12·3	86·5	91·6	88·0	92·7	83·9	88·5	83·1	88	75	90	84	—	
23	13·4	11·9	13·0	12·7	86·8	93·1	88·4	93·6	85·1	89·4	82·4	82	62	58	67	—	
24	12·0	10·8	11·4	11·4	86·6	91·6	86·1	92·5	84·1	88·2	81·6	80	66	80	75	—	
25	09·4	07·1	06·7	07·8	87·5	93·9	89·9	94·4	84·8	90·1	82·3	75	58	65	66	—	⊕ 9 h. 30 m.
26	06·3	06·7	08·0	07·0	89·7	96·4	89·6	*x* 97·8	*x* 87·7	*x* 92·2	84·3	73	49	83	68	—	T in distance in evening.
27	09·0	09·5	10·4	09·6	85·0	87·1	82·8	88·0	81·7	84·9	83·6	76	68	81	75	—	
28	09·4	08·7	08·2	08·8	82·2	85·8	82·0	87·0	81·2	83·6	79·2	72	57	76	68	—	
29	05·8	03·9	04·2	04·6	84·7	89·0	83·4	89·8	78·9	85·2	*n* 71·8	69	50	85	68	—	
30	07·1	10·8	13·5	10·4	83·3	84·2	81·7	86·0	81·0	83·2	76·3	78	65	71	71	—	
31	15·1	14·2	13·9	14·4	83·4	87·2	82·4	88·0	80·5	84·3	76·3	68	*n* 36	67	57	—	
Means	08·6	08·8	09·0	08·8	84·5	88·3	84·8	89·7	81·9	85·8	79·0	84	69	81	78	33·1	
Normal	09·6	09·8	10·3	09·9	84·0	87·4	83·7	88·5	81·9	85·1	78·9	81	66	81	76	41·2	

JERSEY (ST LOUIS OBSERVATORY).

Day	Wind Direction and Force (0–12 on the Beaufort Scale).						Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.														Mean Amount.
	7 h.		14 h.		21 h.			Total.	Per cent. of Possible.	Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		
											Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.	
	7 h.		14 h.		21 h.					7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir.	(0–12)	Dir.	(0–12)	Dir.	(0–12)		hr.	%																
1	S	1	W	1	W	1	1·0	5·0	34	10	..	..	≡	..	5	A.-Cu.	SW	..	..	2	..	..	..	..	5·7
2	W	2	SW	1	NE	3	2·0	1·8	13	10	..	..	≡	..	10	..	..	..	..	10	..	..	..	..	10·0
3	E	4	ENE	4	ENE	4	4·0	0·8	6	8	..	..	..	..	10	..	..	Nb.	..	10	..	..	Nb.	..	9·3
4	E	1	S	2	ESE	2	1·7	5·7	39	10	..	..	≡	..	9	..	..	Nb.	..	3	..	..	..	..	7·3
5	SW	1	NNE	1	NNE	3	1·7	10·0	68	6	..	..	..	..	5	A.-Cu.	SW	..	..	2	..	..	..	..	4·3
6	ENE	2	NNE	2	ENE	3	2·3	12·8	87	5	A.-Cu.	SW	..	..	3	Ci.	..	..	..	9	..	..	..	..	5·7
7	ENE	3	ESE	2	ENE	3	2·7	9·7	66	3	..	..	..	..	4	A.-Cu.	SSE	..	..	8	..	..	..	..	5·0
8	ENE	4	ENE	4	ENE	4	4·0	1·3	9	9	..	..	..	..	10	A.-Cu.	..	Nb.	E	10	..	..	Nb.	..	9·7
9	ENE	5	ENE	6	ENE	5	5·3	9·0	60	8	..	..	St.-Cu.	NNE	1	..	..	..	..	0	..	..	..	..	3·0
10	ENE	5	NE	5	NE	3	4·3	7·9	53	10	..	..	St.-Cu.	E	0	..	..	..	..	3	Ci.	..	..	..	4·3
11	NE	3	ENE	4	N	2	3·0	15·0	100	0	..	..	..	..	0	..	..	..	..	3	Ci.	..	..	..	1·0
12	W	2	WSW	4	WNW	3	3·0	9·3	62	7	..	..	..	..	7	..	..	Cu.	W	10	..	..	..	..	8·0
13	SSW	4	SW	4	SW	4	4·0	0·0	0	10	..	..	Nb.	SSW	10	..	..	Nb.	SW	10	..	..	..	..	10·0
14	NNW	4	N	3	NNW	1	2·7	6·7	44	10	..	..	Nb.	N	7	..	..	Cu.	NW	1	..	..	..	..	6·0
15	ESE	2	ENE	3	E	3	2·7	2·6	17	8	A.-Cu.	WSW	..	..	8	A.-Cu.	W	..	..	10	..	..	..	..	8·7
16	SSW	3	ESE	3	SSW	1	2·3	8·7	57	7	A.-Cu.	..	Cu.	W	7	..	..	Cu.	SW	10	..	..	..	..	8·0
17	S	1	SE	2	ENE	2	1·7	3·0	19	8	..	..	St.-Cu.	SW	10	..	..	Nb.	..	6	A.-Cu.	..	..	..	8·0
18	NE	2	NNE	3	N	1	2·0	0·0	0	10	..	..	≡	..	10	..	..	..	..	3	..	..	..	..	7·7
19	—	0	SSE	3	SSW	2	1·7	10·0	65	0	..	..	..	..	4	Ci., A.-Cu.	SW	..	..	10	..	..	..	..	4·7
20	SSW	3	SSW	1	SE	2	2·0	4·9	32	10	..	..	..	..	7	..	..	Cu.	SW	5	..	..	..	..	7·3
21	—	0	NNE	3	NNE	3	2·0	1·8	12	6	A.-Cu.	SSW	..	..	10	..	..	St.-Cu., Nb.	NE	10	..	..	..	..	8·7
22	NNE	2	NNE	3	NE	2	2·3	11·5	74	4	A.-Cu.	NE	..	..	6	A.-Cu.	ENE	St.-Cu.	NE	7	..	..	St.-Cu.	NE	5·7
23	NNE	3	NE	4	NE	4	3·7	15·6	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
24	ENE	5	ENE	5	ENE	5	5·0	15·6	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
25	ENE	5	ENE	5	ENE	4	4·7	14·6	94	0	..	..	..	..	3	Ci.-St.	..	..	..	5	A.-Cu.	..	..	..	2·7
26	E	3	ENE	4	ESE	3	3·3	9·5	61	4	A.-Cu.	S	Cu.	SE	5	Ci.	SW	..	..	10	..	..	..	..	6·3
27	ENE	5	ENE	6	ENE	6	5·7	13·6	87	6	A.-Cu.	NE	..	..	2	A.-Cu.	..	..	..	1	..	..	..	..	3·0
28	ENE	6	ENE	5	NE	3	4·7	12·4	79	6	..	..	Cu.	ENE	1	..	..	Cu.	NE	0	..	..	..	..	2·3
29	NE	1	NNW	3	NW	2	2·0	13·2	84	2	..	..	Cu.	N	0	..	..	..	..	4	..	..	..	..	2·0
30	NE	3	NE	3	NE	3	3·0	3·0	19	7	..	..	Cu., Cu.-Nb.	NE	10	..	..	St.-Cu.	NE	0	..	..	..	..	5·7
31	ENE	3	ENE	5	NE	2	3·3	15·8	100	1	..	..	Cu.	..	3	A.-Cu.	..	..	..	3	Ci.	..	..	..	2·3
Means	2·8		3·4		2·9		3·0	251·0	53	6·0	—	—	—	—	5·4	—	—	—	—	5·3	—	—	—	—	5·6
Normal	3·5		3·9		3·4		3·6	254·6	54	6·3	—	—	—	—	5·4	—	—	—	—	5·0	—	—	—	—	5·6

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	11·9	11·5	12·4	12·0	84·9	88·4	83·4	89·3	*n* 81·4	85·5	77·0	56	47	73	59	—	
2	12·4	12·2	12·3	12·3	87·1	92·1	84·5	93·8	82·0	87·9	77·7	61	*n* 41	73	58	—	[from 10 h.
3	12·6	12·8	14·4	13·2	82·6	86·3	85·7	*n* 87·0	82·4	*n* 84·8	*n* 74·5	97	98	98	98	1·8	●⁰ 3 h. 30 m. ≡ 4 h.–8 h. Continuous≡
4	17·8	19·4	20·4	19·2	84·1	87·6	84·7	90·0	82·7	85·8	82·7	97	72	92	87	—	≡ all night till 6 h.
5	19·2	18·8	18·8	19·0	86·3	91·3	84·6	92·1	83·3	87·5	78·3	96	73	95	88	—	[long. ≡ 21 h. 30 m. ≡²4 h. Sunshine 6 h.–6 h. 30 m. ≡ 7 h., did not last
6	17·6	16·6	13·9	16·0	86·1	90·0	86·0	92·6	83·6	87·7	82·9	96	76	94	89	—	≡ during night till 6 h. ≡ 7 h. 30 m., did not last long.
7	11·1	08·7	06·2	08·6	86·4	97·2	91·6	*x* 98·3	84·1	*x* 91·5	83·7	84	64	78	75	—	≡ during night till 6 h.
8	05·9	07·2	08·7	07·2	89·8	89·4	85·7	92·0	84·7	88·3	83·2	84	78	89	84	—	[distance.
9	07·1	05·8	05·0	06·0	86·8	92·0	89·1	92·9	84·5	89·0	79·9	83	79	86	83	—	⊤ in S.W. 10 h. 20 m.; two peals in
10	05·2	05·6	08·0	06·3	88·5	95·8	88·1	96·9	86·4	91·1	82·1	98	66	89	84	—	≡ 2 h.–9 h. Glow in S. 14 h. ⊤ (1 peal) 16 h. 20 m.
11	11·5	13·5	15·0	13·2	87·0	90·4	86·4	91·9	85·1	88·2	84·6	98	80	92	90	—	≡ during night till 5 h. ●⁰ 16 h. 45 m.
12	15·9	15·8	15·1	15·5	87·1	91·9	87·4	92·1	85·1	88·7	83·6	99	81	88	89	—	≡ 2 h.–5 h. [≡ 23 h. 30 m.
13	14·0	12·0	11·4	12·4	87·5	93·3	87·6	94·0	85·0	89·5	82·5	88	57	77	74	—	
14	12·0	11·4	13·0	12·2	85·7	88·8	85·4	89·3	84·8	86·8	84·2	86	69	85	80	—	
15	14·3	14·7	14·7	14·6	85·9	91·2	85·2	92·0	84·5	87·8	84·1	82	60	86	76	—	
16	13·6	12·8	12·3	13·0	85·7	94·2	87·6	94·7	84·0	89·2	80·8	94	53	76	74	—	
17	12·8	13·8	13·9	13·5	89·0	94·6	86·1	95·1	84·5	89·9	77·4	78	58	80	72	—	
18	13·9	13·1	13·0	13·4	85·8	88·3	85·4	90·6	84·5	86·9	82·0	79	68	82	76	—	
19	12·4	13·5	14·7	13·5	85·7	89·4	84·1	90·0	83·7	86·6	83·8	86	62	74	74	—	d. *a*.
20	12·6	10·2	07·9	10·3	84·7	92·1	87·0	92·6	83·0	87·9	79·4	92	55	80	76	—	
21	05·4	05·5	06·2	05·6	87·1	90·4	88·6	92·2	86·4	88·9	85·3	90	76	72	79	1·6	Intermittent ● 5 h.
22	06·4	06·6	07·4	06·8	87·6	92·9	87·3	94·7	86·2	89·7	85·5	93	67	89	83	*x* 3·5	Dull with ⊤ 14 h.
23	05·5	05·1	05·5	05·4	87·4	91·0	87·4	91·6	85·8	88·6	85·2	94	76	94	88	0·2	
24	05·5	04·4	04·0	04·7	87·3	93·0	86·3	94·6	86·0	89·4	83·2	96	59	93	83	—	
25	03·5	05·2	07·9	05·5	86·9	90·9	86·9	92·1	86·0	88·6	84·2	96	83	90	90	2·8	≡ 4 h.–8 h. ● shower at 11 h. 10 m.
26	07·0	07·0	08·0	07·4	86·9	92·1	86·6	93·3	84·7	88·9	77·5	86	53	92	77	0·6	●⁰ 8 h. 30 m. and 15 h. 30 m. ● 16 h.
27	06·7	06·7	07·4	07·0	86·8	88·9	86·5	90·5	85·6	87·7	81·7	90	86	87	88	—	[4 m. and 20 h. 15 m.
28	06·7	07·5	05·8	06·7	87·1	89·4	87·2	91·0	85·1	87·9	84·1	81	67	88	79	0·6	● during night after 0 h.
29	02·2	03·9	06·0	04·0	87·3	90·4	87·3	91·7	*x* 86·8	88·7	85·8	95	76	90	87	0·3	● 4 h. 45 m.
30	06·3	06·7	08·8	07·2	87·3	90·0	86·7	91·2	86·4	88·3	84·8	85	69	89	81	0·3	● 21 h.
Means	10·3	10·3	10·6	10·4	86·6	91·1	86·6	92·3	84·6	88·2	82·1	88	68	86	81	11·7	
Normal	10·4	10·6	10·7	10·6	86·6	89·9	86·2	91·1	84·5	87·7	81·5	84	67	83	78	48·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12) on the Beaufort Scale. 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	NE	3	NNE	3	NNE	2	2·7	14·7	93	2	A.-Cu.	..	..	..	1	Ci.	..	..	..	0	..	..	..	..	1·0
2	NNE	1	WSW	3	N	1	1·7	15·7	99	0	..	..	..	..	3	Ci.	..	..	..	2	..	..	..	..	1·7
3	SW	3	SSW	3	WSW	1	2·3	0·0	0	10	..	..	≡Nb.	..	10	..	..	≡	..	10	..	..	..	..	10·0
4	WSW	3	SW	2	—	0	1·7	8·1	51	10	..	..	..	..	3	Ci.	..	..	..	0	..	..	..	..	4·3
5	SW	2	WSW	3	WNW	1	2·0	7·2	45	10	..	..	≡	..	4	Ci.	W	Cu.	WNW	10	..	..	..	..	8·0
6	SW	1	SW	2	NE	3	2·0	6·2	39	10	..	..	..	..	9	..	..	St.-Cu.	SW	5	..	..	Cu.	ENE	8·0
7	ENE	4	ENE	3	ENE	4	3·7	13·2	82	4	A.-Cu.	S	Cu.-Nb.	ENE	0	..	..	..	..	4	A.-Cu.	SW	Fr.-Nb.	SE	2·7
8	SSW	2	NW	4	—	0	2·0	11·4	71	2	Ci.	..	..	..	4	..	..	Cu.	W	2	..	..	..	..	2·7
9	NE	3	—	0	ENE	3	2·0	2·1	13	10	..	..	..	..	10	..	..	..	..	7	A.-Cu.	..	..	..	9·0
10	NE	2	WSW	1	ENE	3	2·0	6·3	39	10	..	..	≡	..	7	Ci., A.-Cu.	..	..	..	3	..	..	..	..	6·7
11	ENE	3	E	2	NE	3	2·7	0·2	2	10	..	..	≡	..	10	..	..	..	..	10	..	..	..	..	10·0
12	ENE	4	ENE	4	NE	4	4·0	0·5	3	10	..	..	≡	..	10	..	..	..	..	10	..	..	..	..	10·0
13	NE	4	NE	5	NE	5	4·7	14·7	91	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
14	ENE	6	ENE	6	ENE	5	5·7	11·6	72	6	..	..	Cu.-Nb.	ENE	3	..	..	..	..	10	..	..	St.-Cu. Cu.-Nb.	ESE	6·3
15	ENE	4	NE	4	NE	2	3·3	10·1	62	10	..	..	Cu.-Nb.	E	3	Ci.	..	..	..	4	Ci.	..	..	..	5·7
16	ENE	4	NE	4	NE	3	3·7	11·7	73	10	..	..	..	..	0	..	..	..	..	1	..	..	..	..	3·7
17	NE	2	SW	3	ENE	3	2·7	14·3	88	3	A.-Cu.	..	..	..	0	..	..	..	..	1	..	..	..	..	1·3
18	ENE	4	ENE	4	NE	4	4·0	2·4	15	10	..	..	Cu.-Nb.	NE	10	..	..	..	..	10	..	..	..	..	10·0
19	NE	3	ENE	4	ENE	3	3·3	4·7	29	10	..	..	Cu.-Nb.	E	7	A.-Cu.	..	..	..	0	..	..	..	..	5·7
20	E	3	ENE	3	ENE	3	3·0	5·7	36	8	Ci.	..	St.-Cu.	..	6	..	..	St.-Cu.	W	10	..	..	..	..	8·0
21	SE	3	ESE	2	E	3	2·7	1·5	9	10	..	..	Nb.	..	7	..	..	St.-Cu.	SSE	10	..	..	..	..	9·0
22	ENE	3	ENE	4	ENE	3	3·3	4·4	27	10	..	..	..	..	4	A.-Cu.	..	..	..	9	..	..	..	..	7·7
23	NNE	1	Var.	2	—	0	1·0	0·3	2	10	..	..	..	..	10	..	..	..	..	8	..	..	St.-Cu.	..	9·3
24	E	2	E	2	ENE	4	2·7	8·2	50	10	..	..	..	..	4	A.-Cu.	..	Cu.	SSW	5	A.-Cu.	..	..	..	6·3
25	ENE	3	SW	2	W	1	2·0	2·1	13	10	..	..	≡	..	7	A.-Cu.	SW	Fr.-Cu.	SW	4	A.-Cu.	..	Cu.	..	7·0
26	S	3	S	3	WSW	3	3·0	9·4	58	10	..	..	..	..	7	A.-Cu.	..	..	..	7	Ci.	..	Cu.-Nb.	SW	8·0
27	SW	4	WSW	4	WSW	4	4·0	2·2	14	10	..	..	..	..	9	..	..	Cu.-Nb.	W	10	..	..	Cu.-Nb.	WSW	9·7
28	WSW	4	WSW	4	SSW	3	3·7	3·8	24	8	..	..	St.-Cu.	W	6	A.-Cu.	SW	Cu.	WSW	10	..	..	..	..	8·0
29	WSW	3	WNW	3	W	3	3·0	5·5	34	10	..	..	Nb.	W	6	..	..	Cu.	W	10	..	..	Cu.-Nb.	WNW	8·7
30	W	4	W	4	WNW	4	4·0	11·2	69	6	A.-Cu.	WNW	Cu.	W	6	..	..	Cu.	W	10	..	..	Nb.	..	7·3
Means		3·0		3·1		2·7	2·9	209·5	43	8·0	—	—	—	—	5·5	—	—	—	—	6·1	—	—	—	—	6·5
Normal		3·4		3·7		3·2	3·4	244·3	51	6·9	—	—	—	—	5·5	—	—	—	—	5·3	—	—	—	—	5·9

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	13·1	16·8	19·6	16·6	88·8	92·4	86·8	94·3	85·2	89·5	81·8	81	64	91	79	—	
2	20·7	21·4	20·7	21·0	88·0	92·1	87·6	93·8	84·1	89·1	76·7	88	60	80	76	—	≡ 4 h. 30 m.–5 h. 30 m.
3	18·6	15·9	13·0	15·8	89·9	97·8	90·7	99·3	84·6	92·5	80·5	71	*n* 43	72	62	—	
4	08·2	05·2	06·7	06·7	93·5	100·1	89·4	*x*101·0	*x* 88·3	*x* 94·5	86·3	60	44	92	65	0·1	● 17 h. 30 m. ↯ (1 peal). ● 19 h. 10 m.
5	11·5	13·4	13·8	12·8	87·7	91·4	87·4	93·4	86·7	89·3	85·3	91	67	91	83	—	
6	10·7	05·8	02·6	06·3	89·7	95·1	89·2	96·3	84·8	91·0	82·3	77	56	74	69	—	≡ 4 h. 15 m.–5 h. 45 m. ●0 in evening.
7	00·6	04·4	08·2	04·4	88·3	90·5	87·3	91·3	86·8	88·8	83·8	75	71	84	77	—	●0 6 h. 50 m.
8	11·1	13·5	15·4	13·4	87·4	90·1	86·6	91·0	86·0	88·2	83·8	83	68	91	81	—	
9	15·6	15·4	16·0	15·6	87·9	91·0	86·3	92·0	84·8	88·4	80·2	82	62	86	77	—	
10	16·0	16·0	15·0	15·6	87·9	90·9	87·1	92·4	84·4	88·5	76·7	69	57	81	69	—	
11	11·0	09·8	08·2	09·6	87·3	89·8	86·7	90·2	86·0	88·0	83·9	84	67	92	81	—	●0 5 h. 15 m.
12	07·4	08·4	08·2	08·0	87·7	91·0	86·3	92·2	85·1	88·5	85·4	85	66	87	79	0·2	● in afternoon.
13	05·2	03·1	04·8	04·4	86·8	87·3	86·1	*n* 87·6	*n* 83·1	*n* 86·2	*n* 75·4	84	76	76	79	—	●0 9 h.
14	06·4	03·1	01·0	03·5	87·2	88·1	87·1	88·9	85·4	87·3	81·2	77	98	96	90	16·4	
15	02·4	04·3	05·6	04·2	87·3	90·5	86·1	90·9	85·3	88·0	83·3	76	57	87	73	—	
16	03·4	98·2	92·4	95·4	86·6	88·0	88·9	89·0	84·4	87·4	78·3	87	94	95	92	16·6	● 5 h. 30 m. and 9 h. 40 m.
17	93·5	02·4	11·2	02·4	86·1	90·3	87·3	91·3	85·8	88·2	85·6	98	76	72	82	3·3	● 3 h.
18	17·1	19·8	20·0	19·0	88·2	90·0	86·7	92·4	85·6	88·6	82·2	71	57	87	72	—	
19	18·0	15·6	13·8	16·0	88·1	93·8	88·7	96·0	87·2	90·8	81·2	77	50	67	65	—	
20	11·4	13·0	13·8	12·7	87·9	90·7	87·1	91·8	86·5	88·8	81·7	93	69	81	81	0·1	●0 6 h. 35 m.
21	13·9	13·5	12·2	13·2	87·7	90·9	87·9	91·9	85·0	88·7	79·8	77	67	86	77	—	
22	07·1	03·6	99·5	03·4	88·0	88·7	88·1	90·2	87·3	88·5	84·7	87	81	98	89	*x* 17·1	● 7 h. 15 m.
23	97·9	00·3	03·5	00·6	88·1	90·3	87·6	91·2	87·2	88·9	85·2	86	75	89	83	—	q. with ●0 9 h. 35 m.
24	02·7	02·8	05·2	03·5	88·0	90·4	86·9	91·3	86·5	88·6	84·7	88	66	85	80	—	
25	07·2	06·6	04·3	06·0	88·1	89·1	86·1	90·3	85·7	87·9	82·3	77	68	96	80	13·9	●0 13 h. ● 14 h. 5 m. ●2 21 h. 30 m.
26	05·6	06·2	05·4	05·8	87·9	90·3	87·5	91·3	85·6	88·5	83·3	82	66	89	79	1·1	● 16 h. 10 m.
27	03·4	04·7	07·1	05·0	87·7	90·9	87·6	91·4	87·0	88·9	84·7	92	63	79	78	1·6	● 5 h. and 7 h. 45 m.
28	12·8	16·0	16·7	15·2	87·9	91·0	86·6	91·6	85·9	88·6	83·9	79	68	91	79	—	⊕ 17 h.
29	17·1	17·2	17·4	17·2	87·8	91·1	86·3	91·8	84·6	88·3	78·7	77	60	87	75	—	
30	16·8	15·5	13·6	15·4	88·9	90·9	86·7	92·2	84·7	88·7	78·3	82	65	92	80	—	
31	09·1	05·9	02·8	05·9	87·4	93·0	89·9	93·2	85·5	89·8	79·9	91	64	84	80	—	
Means	09·5	09·6	09·6	09·6	88·1	91·2	87·4	92·3	85·7	88·9	82·0	82	66	86	78	70·4	
Normal	11·1	11·4	11·4	11·2	88·8	92·2	88·3	93·4	86·4	89·8	83·3	82	66	83	77	44·3	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total. hr.	Per cent of Possible. %	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
1	NW	1	WNW	3	WNW	1	1·7	16·1	100	1	Ci.	..	Cu.	N	2	..	..	..	..	0	..	..	..	..	1·0
2	W	2	SW	2	—	0	1·3	15·1	94	1	..	..	Cu.	WNW	1	Ci.	..	..	..	0	..	..	..	..	0·7
3	SW	1	SSE	2	ENE	4	2·3	16·1	100	0	..	..	..	..	0	..	..	..	..	2	A.-Cu.	..	..	..	0·7
4	ESE	1	SW	2	NW	3	2·0	11·7	73	3	A.-Cu.	SW	..	..	2	Ci.	..	..	..	6	..	..	Fr.-Cu.	SW	3·7
5	W	4	WSW	4	W	2	2·3	13·0	81	7	..	..	Cu.-Nb.	WNW	6	Ci., A.-Cu.	SW	..	..	0	..	..	..	..	4·3
6	SE	1	ENE	2	SSW	3	2·0	5·7	36	5	A.-Cu.	SW	..	..	8	..	..	..	..	7	A.-Cu.	SW	Cu.-Nb.	SW	6·7
7	SW	6	WSW	5	WSW	4	5·0	9·0	56	9	..	..	Cu.	WSW	5	..	..	Cu.	W	3	..	..	Fr.-Cu.	W	5·7
8	W	4	W	4	WNW	3	3·7	8·8	55	7	..	..	Cu.	W	6	..	..	Cu.	WNW	7	..	..	Cu.-Nb.	WNW	6·7
9	—	0	NW	3	NNW	1	1·3	10·9	68	6	..	..	Cu.-Nb.	N	5	..	..	Cu.	N	0	..	..	..	..	3·7
10	N	3	W	4	WSW	4	3·7	15·8	99	1	Ci.	..	..	..	2	..	..	Cu.	WNW	7	A.-Cu.	W	Cu.	W	3·3
11	W	4	W	4	W	4	4·0	0·6	4	10	..	..	St.-Cu.	W	10	..	..	..	..	10	..	..	Nb.	W	10·0
12	WSW	4	W	4	WSW	4	4·0	11·1	70	7	..	..	Cu.	WNW	6	..	..	Cu.	W	0	..	..	..	..	4·3
13	NNE	2	NNW	2	WNW	4	2·7	2·2	14	10	..	..	..	..	10	..	..	..	..	5	Ci., A.-Cu.	NW	..	..	8·3
14	SW	4	SW	2	W	3	3·0	0·4	3	10	A.-Cu.	WSW	..	..	10	..	..	Nb.	..	10	..	..	Nb.	WNW	10·0
15	WSW	4	WSW	4	W	3	3·7	13·1	83	4	..	..	Cu.	WNW	3	..	..	Cu.	WNW	1	Ci.	..	..	..	2·7
16	SSW	3	S	5	SSW	5	4·3	0·6	4	10	..	..	Nb.	SW	10	..	..	Nb.	..	10	..	..	..	..	10·0
17	WSW	6	NW	5	NW	3	4·7	8·3	53	10	..	..	Nb.	..	6	..	..	Cu.	NW	2	Ci.	..	..	..	6·0
18	NW	3	NW	3	WNW	1	2·3	13·0	83	6	A.-Cu.	NW	..	..	4	..	..	Cu.	NW	1	A.-Cu.	..	..	..	3·7
19	SSW	3	SSW	3	—	0	2·0	11·0	70	8	A.-Cu.	WNW	Cu.	WSW	3	A.-Cu.	WNW	..	..	4	Ci.-Cu., A.-Cu.	SSW	..	..	5·0
20	W	3	WSW	4	WNW	3	3·3	7·1	46	10	..	..	Nb.	..	6	..	..	..	..	6	A.-Cu.	W	..	..	7·3
21	W	3	WSW	3	WSW	3	3·0	12·1	77	5	..	..	Cu.	W	6	Ci.-Cu.	W	Cu.	W	8	A.-Cu.	..	..	..	6·3
22	SSW	5	SW	5	SSW	4	4·7	0·0	0	10	A.-Cu.	..	Nb.	SW	10	..	..	Nb.	SW	10	..	..	Nb.	..	10·0
23	SW	5	WSW	6	WSW	4	5·0	11·6	77	7	..	..	Cu.-Nb.	WSW	3	..	..	Cu.	W	3	..	..	Cu.	W	4·3
24	SW	4	W	3	NW	4	3·7	7·5	49	7	A.-Cu.	W	Cu.	W	6	..	..	Cu.	W	0	..	..	..	..	4·3
25	WNW	3	WSW	3	—	0	2·0	6·2	45	6	Ci.	SW	..	..	10	..	..	..	..	10	..	..	Nb.	..	8·7
26	W	3	SW	2	—	0	1·7	10·3	67	4	..	..	Cu.-Nb.	W	7	{Ci. A.-Cu.}	{SW}	..	..	10	..	..	..	..	7·0
27	SW	4	W	4	WSW	5	4·3	11·5	75	8	Ci.-Cu.	SW	Nb.	WSW	4	Ci.	SW	..	..	1	..	..	Cu.	W	4·3
28	W	4	WSW	3	—	0	2·3	12·5	82	7	..	..	Cu.	W	5	Ci.-St.	..	Cu.	W	3	Ci.	..	..	..	5·0
29	—	0	Var.	2	—	0	0·7	11·8	77	5	Ci.	..	..	..	3	..	..	Cu.	..	0	..	..	..	..	2·7
30	NNW	1	W	1	—	0	0·7	13·4	88	1	..	..	Cu.	..	3	..	..	Cu.	WSW	5	Ci.	..	..	..	3·0
31	S	2	E	1	ENE	2	1·7	1·5	10	10	A.-Cu.	..	..	..	8	A.-Cu.	..	..	..	8	..	..	..	..	8·7
Means	3·0		3·2		2·5		2·9	288·0	59	6·3	—	—	—	—	5·5	—	—	—	—	4·5	—	—	—	—	5·4
Normal	3·1		3·6		3·1		3·3	274·6	58	6·4	—	—	—	—	5·2	—	—	—	—	5·0	—	—	—	—	5·5

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	Remarks.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	00·3	00·4	99·5	00·0	89·1	93·1	90·1	94·9	88·6	91·2	85·3	97	*n* 55	77	76	1·2	● 6 h. 30 m. ●⁰ 21 h. 20 m.
2	96·2	95·6	99·5	97·1	89·1	91·0	88·3	92·2	88·3	89·8	86·1	84	74	88	82	2·2	● 1 h. ●² 14 h.
3	02·4	06·4	07·9	05·6	88·3	90·1	87·8	90·8	86·2	88·6	86·2	88	74	85	82	0·8	●⁰ 6 h. ● 7 h. and 22 h.
4	08·8	11·2	12·2	10·7	88·2	91·1	86·9	91·9	86·4	88·9	85·1	87	69	84	80	—	
5	10·4	08·7	07·4	08·8	88·0	88·4	89·9	90·3	85·1	88·3	78·8	89	96	97	94	*x* 9·6	● in afternoon
6	08·0	11·8	14·2	11·4	89·0	91·9	88·9	93·0	88·0	90·2	87·3	96	82	98	92	3·2	
7	14·4	15·4	15·6	15·1	89·3	90·9	90·5	94·8	88·6	90·8	88·4	100	98	91	96	0·2	≡ 5 h., 7 h., 10 h. d.
8	14·6	13·8	12·7	13·6	89·9	93·4	90·7	96·0	89·3	91·9	89·0	98	84	89	90	—	≡ 5 h. 15 m.–6 h.
9	09·9	09·9	10·6	10·2	91·3	94·1	91·2	*x* 96·9	*x* 89·5	*x* 92·6	87·2	93	83	93	90	1·1	● 7 h. 45 m.
10	11·2	12·4	13·0	12·2	90·5	93·0	90·3	94·1	89·0	91·4	87·4	93	72	91	85	—	
11	12·0	13·6	14·0	13·2	90·6	94·9	89·7	95·0	89·0	91·8	87·9	92	57	93	81	—	
12	11·9	10·7	09·9	10·4	89·2	91·0	88·6	92·2	87·8	89·8	86·2	94	80	92	89	—	●⁰ 13 h.
13	08·2	07·5	09·5	08·4	88·1	90·2	86·7	91·5	86·3	88·6	79·6	96	70	87	84	4·9	● 8 h. 20 m.
14	10·6	11·5	11·4	11·1	89·1	92·1	88·3	92·6	86·4	89·7	80·3	87	66	86	80	—	
15	10·2	10·3	10·4	10·3	87·7	91·0	87·8	92·0	87·2	89·1	84·5	90	70	89	83	0·4	● showers after 6 h.
16	10·2	11·2	11·4	03·0	89·0	92·3	87·3	93·6	86·8	89·8	82·5	82	65	85	77	—	
17	11·5	12·0	13·2	12·3	88·6	91·3	87·0	93·0	85·0	89·0	78·5	76	72	92	80	—	
18	11·9	11·8	11·6	11·8	88·1	89·6	87·5	93·0	85·4	88·7	77·3	94	83	86	88	—	
19	12·4	13·2	14·4	13·4	88·3	93·0	88·1	94·3	84·7	89·7	77·7	90	61	89	80	—	
20	16·0	16·3	17·0	16·4	87·2	93·6	86·9	94·6	85·1	89·5	77·8	98	59	93	83	—	≡ over sea *a*.
21	17·2	18·2	18·7	18·0	88·1	91·1	88·1	91·9	85·9	89·0	77·8	88	66	83	79	—	
22	19·6	21·4	21·8	21·0	88·1	91·1	87·4	92·4	86·5	89·1	81·3	83	70	88	80	—	
23	21·6	21·0	20·0	21·0	87·5	93·4	88·0	94·6	85·0	89·7	78·9	94	62	88	81	—	
24	18·3	17·4	17·1	17·5	88·7	94·1	88·5	94·8	86·0	90·4	79·5	85	58	90	78	—	
25	16·2	15·6	15·5	15·8	87·8	95·2	89·1	96·2	84·9	90·6	76·7	97	59	79	78	—	d. 7 h.
26	13·8	12·0	11·5	12·4	89·5	95·2	90·0	95·9	88·2	91·8	84·3	90	56	82	76	—	
27	10·6	09·0	08·7	09·4	89·0	95·7	89·8	96·3	88·7	91·9	85·4	93	59	81	78	—	
28	06·8	05·5	04·6	05·6	89·0	91·1	89·2	92·9	88·2	90·1	85·2	87	77	74	79	—	●⁰ 8 h. 45 m. Dull with ┳ in afternoon.
29	03·5	05·1	08·0	05·5	87·7	90·0	86·9	93·0	85·4	88·6	76·8	84	93	91	89	4·5	● 12 h.
30	12·4	15·9	17·0	15·1	86·0	89·0	85·4	*n* 90·0	84·8	*n* 87·0	80·5	66	*n* 55	76	66	—	
31	16·8	17·0	15·8	16·6	86·4	89·1	85·0	91·8	*n* 83·5	87·2	*n* 75·8	83	69	81	78	—	
Means	11·2	11·7	12·1	11·7	88·6	92·0	88·4	93·4	86·8	89·8	82·4	89	71	87	82	28·1	
Normal	10·3	10·3	10·6	10·4	89·0	92·4	88·8	93·3	87·1	90·1	83·9	83	66	82	77	56·9	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	SSW	3	SSE	2	SSW	4	3·0	9·9	66	10	..	..	Nb.	SSW	4	..	..	Fr.-Cu.	SSW	6	..	..	..	..	6·7
2	SSW	5	SW	7	WSW	6	6·0	5·8	39	8	..	..	Cu.-Nb.	SW	8	..	..	Cu.-Nb.	SW	5	..	..	..	..	7·0
3	W	6	WNW	6	WSW	5	5·7	4·6	30	10	..	..	Nb.	W	7	..	..	Cu.-Nb.	WNW	10	..	..	Nb.	..	9·0
4	W	4	W	4	—	0	2·7	9·6	64	7	..	..	Cu.	W	7	A.-Cu.	W	Cu.	W	8	A.-Cu.	..	..	..	7·3
5	SSE	1	S	3	S	3	2·3	1·0	7	10	..	..	..	..	10	..	..	Nb.	..	10	..	..	..	..	10·0
6	WSW	3	WSW	4	W	3	3·3	2·6	17	10	..	..	Nb.	W	7	..	..	Cu.-Nb.	WNW	10	..	..	Nb.	..	9·0
7	SSW	3	WSW	3	W	3	3·0	3·3	22	10	..	..	Nb. ≡	..	10	..	..	Nb. ≡	..	8	..	..	..	..	9·3
8	WSW	2	ENE	2	NE	3	2·3	10·6	72	10	..	..	≡	..	5	A.-Cu.	SW	Cu.-Nb.	SW	5	Ci.-Cu.	..	..	..	6·7
9	NE	2	ENE	2	NE	2	2·0	6·6	45	9	A.-Cu.	WSW	Cu.-Nb.	WSW	7	Ci.	..	Cu.-Nb.	..	0	..	..	..	..	5·3
10	NW	2	SW	2	WSW	2	2·0	5·7	39	8	..	..	Cu.	NW	10	..	..	..	..	10	..	..	..	..	9·3
11	W	3	WSW	2	WSW	2	2·3	9·7	66	6	..	..	Cu.	WSW	1	..	..	..	..	7	..	..	..	..	4·7
12	SW	3	SW	3	WSW	2	2·7	2·8	20	10	..	..	Cu.-Nb.	WSW	10	..	..	Nb.	..	7	..	..	..	..	9·0
13	—	0	NNE	2	NW	2	1·3	5·4	37	10	..	..	Nb.	..	6	A.-Cu.	W	..	..	0	..	..	..	..	5·3
14	WSW	3	WSW	3	WSW	3	3·0	13·2	91	5	..	..	Cu.	W	4	Ci.	W	..	..	0	..	..	..	..	3·0
15	WSW	3	WSW	5	W	3	3·7	9·4	65	7	..	..	Cu.-Nb., Nb.	WNW	6	..	..	Cu.	W	1	..	..	..	..	4·7
16	WNW	3	W	4	W	2	3·0	13·1	91	6	..	..	Cu.	NW	5	A.-Cu.	NW	Cu.	WNW	0	..	..	..	..	3·7
17	W	3	WSW	4	NW	1	2·7	11·7	81	4	..	..	Cu.	WNW	6	..	..	Cu.	WNW	0	..	..	..	..	3·3
18	—	0	NW	1	NE	2	1·0	8·4	60	7	..	..	Cu.	WSW	6	A.-Cu.	..	Cu.-Nb.	..	0	..	..	..	..	4·3
19	NE	2	NNE	1	NNE	2	1·7	12·9	91	0	..	..	..	..	1	..	..	Cu.	..	0	..	..	..	..	0·3
20	—	0	WSW	3	—	0	1·0	13·9	99	0	..	..	..	..	1	..	..	Cu.	..	0	..	..	..	..	0·3
21	NNW	3	NW	4	NNW	4	3·7	7·8	56	7	..	..	Cu.-Nb.	NNW	10	..	..	St.-Cu.	NW	5	Ci.	..	..	..	7·3
22	NNW	3	N	3	NNE	3	3·0	11·6	83	6	Ci.	..	Cu.	N	5	Ci.	WSW	Cu.	N	0	..	..	..	..	3·7
23	—	0	SW	2	NE	3	1·7	12·7	91	5	..	..	Cu.	SW	4	..	..	Cu.	WNW	0	..	..	..	..	3·0
24	NE	2	NE	2	NE	3	2·3	13·1	94	6	Ci.	W	..	..	0	..	..	..	..	1	Ci.	..	..	..	2·3
25	NE	2	NE	3	NE	3	2·7	11·1	80	10	..	..	..	..	4	..	..	Cu.	SE	2	Ci.	..	..	..	5·3
26	NE	3	NE	4	NE	4	3·7	13·8	100	3	Ci.	W	..	..	0	..	..	..	..	0	..	..	..	..	1·0
27	NE	4	ENE	4	NE	4	4·0	13·8	100	2	..	..	Cu.	ENE	0	..	..	..	..	2	Ci.	..	..	..	1·3
28	NNE	4	N	3	N	2	3·0	0·4	3	6	Ci., A.-Cu.	SSW	..	..	9	..	..	Cu.	SW	10	..	..	..	..	8·3
29	NW	2	W	3	NNE	3	2·7	1·9	14	8	..	..	Cu.	NW	10	..	..	Nb.	NW	10	..	..	..	..	9·3
30	NNW	3	NNW	4	WNW	2	3·0	11·9	88	3	..	..	Cu.	NNW	3	..	..	Cu.	NW	0	..	..	..	..	2·0
31	NW	2	W	4	WNW	1	2·3	8·3	61	3	Ci.-Cu.	W	Cu.	..	9	..	..	Cu. Nb.	NW	0	..	..	..	..	4·0
Means	2·5		3·2		2·6		2·8	266·6	60	6·6	—	—	—	—	5·6	—	—	—	—	3·8	—	—	—	—	5·4
Normal	3·3		3·8		3·2		3·4	249·9	56	6·3	—	—	—	—	5·2	—	—	—	—	4·5	—	—	—	—	5·3

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	10·2	05·6	02·3	06·0	87·3	89·4	87·9	90·6	86·8	88·4	76·0	78	75	79	77	14·8	● 8 h. 15 m. [< on E. horizon 20 h.
2	99·6	00·3	00·4	00·2	85·3	87·5	83·4	88·4	83·2	85·6	83·3	86	68	85	80	13·0	●▲< and sharp squall 9 h. 40 m. T 15 h. 30 m.
3	99·4	01·8	04·4	01·8	82·1	87·5	83·7	88·4	81·3	84·6	77·4	96	61	88	82	3·9	< frequent in N.W. T 5 h. ● and <
4	08·3	11·8	14·8	11·6	85·3	88·4	85·1	89·0	84·0	86·4	79·7	62	51	73	62	—	Very clear sky 4 h.–12 h. [in E. 20 h.
5	18·4	21·2	22·6	20·7	86·3	90·2	85·3	91·4	82·8	87·2	76·3	76	56	75	69	—	
6	23·1	22·7	22·3	22·7	87·6	92·1	87·6	93·0	85·0	89·1	76·7	74	*n*43	74	64	—	
7	21·2	19·6	18·7	19·9	87·6	92·9	87·4	93·7	85·1	89·3	77·8	75	48	82	68	—	
8	17·8	16·0	15·6	16·4	87·4	94·6	89·6	95·4	85·6	90·5	79·3	84	49	80	71	—	
9	16·2	15·6	16·4	16·0	88·1	95·8	89·5	97·0	86·3	91·3	81·8	86	59	86	77	—	
10	16·4	15·0	13·9	15·1	88·4	92·7	88·5	93·6	86·9	90·0	82·8	88	50	76	71	—	
11	13·2	11·5	11·2	12·0	86·0	91·3	87·7	92·0	85·0	88·4	79·5	73	59	86	73	—	
12	09·9	08·8	08·8	09·2	87·4	96·0	91·3	96·9	85·4	91·4	79·8	84	58	77	73	—	
13	09·2	10·2	10·3	09·9	88·1	92·8	88·6	94·0	87·3	90·2	82·3	98	62	93	84	—	≡ 4 h. 30 m.–6 h.
14	11·6	12·7	13·6	12·7	87·1	90·8	89·3	91·8	86·6	89·1	83·3	82	67	97	82	1·0	●0 7 h. and 16 h. 45 m.
15	16·3	19·4	21·0	18·8	89·7	92·1	91·0	93·3	89·1	91·0	88·5	99	85	84	89	7·6	≡ 6 h.–9 h.
16	22·7	23·8	23·9	23·5	90·5	94·9	89·6	95·9	*x* 89·5	92·1	88·4	91	66	95	84	—	
17	22·6	20·3	18·7	20·6	89·3	96·1	90·7	96·9	88·4	92·3	83·6	98	64	83	82	—	Very fine.
18	16·0	14·8	13·6	14·8	89·7	96·7	91·3	*x* 97·9	88·2	*x* 92·8	82·2	93	69	89	84	—	Very fine.
19	13·1	12·3	11·9	12·4	89·4	94·3	89·6	94·9	88·9	91·4	86·5	96	72	82	83	—	Very fine.
20	11·0	11·0	12·3	11·4	86·8	93·7	89·7	94·0	86·0	90·0	82·7	78	58	63	66	—	
21	12·3	12·6	13·9	13·0	86·9	95·1	88·6	95·7	86·0	90·5	81·8	79	53	93	75	—	[the roads.
22	15·1	15·8	13·6	14·8	87·9	93·5	88·9	94·1	86·8	90·2	80·9	97	67	85	83	—	≡ for ½ an hour from 7 h. continuing in
23	09·1	08·4	07·6	08·4	90·1	93·8	89·3	94·3	89·3	91·4	86·5	95	70	96	87	8·8	●0 8 h. 45 m. ●2 shower 19 h. 30 m. ● 21 h. 30 m
24	04·0	97·6	98·4	00·0	88·4	87·9	87·9	90·0	87·7	88·4	81·5	95	98	96	96	*x* 27·3	T 11 h. and 12 h. ● 19 h. 45 m.
25	96·6	97·2	96·6	96·8	85·3	91·0	86·5	92·0	84·7	87·9	79·1	96	63	92	84	—	
26	91·1	90·4	92·3	91·4	87·0	87·9	86·1	89·4	86·6	87·4	80·3	89	89	89	89	5·2	● 12 h. 20 m. and 22 h. 30 m.
27	94·6	98·3	02·2	98·3	86·0	88·0	86·5	89·9	84·6	87·0	80·2	85	69	80	78	0·1	
28	02·3	96·2	90·8	96·4	84·5	87·1	85·9	88·4	84·0	86·0	79·3	75	90	88	84	21·6	● 10 h. 15 m. [horizon 21 h.
29	92·3	96·4	98·0	95·6	82·6	85·0	81·8	*n* 85·3	*n* 79·0	82·7	80·4	73	52	75	67	1·1	●0 7 h. ● 17 h. 50 m. < on S.W.
30	00·8	03·9	06·8	03·9	81·0	84·7	81·1	85·6	79·4	*n* 82·3	*n* 74·4	79	56	85	73	7·3	▲ 8 h. and 10 h. ● 20 h.
Means	09·8	09·7	09·9	09·8	87·0	91·5	87·6	92·4	85·7	88·8	81·1	85	64	84	78	111·7	
Normal	11·6	11·5	11·9	11·6	87·2	90·8	87·7	91·7	85·8	88·6	81·8	83	67	80	77	61·5	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	SW	5	WSW	4	WSW	4	4·3	5·2	40	8	..	..	Nb.	SW	6	..	..	Cu.	WNW	4	..	..	Cu.	SW	6·0
2	NW	3	N	3	NNW	2	2·7	4·3	32	7	..	..	Cu.	NW	6	..	..	Cu.-Nb.	NW	4	..	..	..	..	5·7
3	—	0	N	3	NNW	2	1·7	7·4	55	10	..	..	Nb.	..	6	..	..	Cu.-Nb.	N	10	..	..	Nb.	..	8·7
4	N	4	NNW	4	NW	1	3·0	12·3	93	1	..	..	Cu.	..	0	..	..	..	..	0	..	..	..	..	0·3
5	—	0	WSW	3	WNW	1	1·3	13·2	100	1	..	..	Cu.	..	3	A.-Cu.	..	..	..	0	..	..	..	..	1·3
6	E	1	SSW	1	ENE	3	1·7	13·1	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
7	SSE	1	ENE	2	NE	4	2·3	13·1	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
8	ENE	2	ENE	3	ENE	4	3·0	13·0	100	2	Ci.	..	..	..	0	..	..	..	..	0	..	..	..	..	0·7
9	NE	2	ENE	3	NE	4	3·0	13·0	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
10	ENE	4	NE	5	ENE	5	4·7	12·9	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
11	NE	4	NE	5	ENE	4	4·3	12·9	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
12	NE	3	SSE	2	ENE	1	1·7	12·5	98	0	..	..	..	..	0	..	..	..	..	2	..	..	..	..	0·7
13	WSW	1	SW	3	WSW	1	2·0	9·6	75	3	Ci.	..	..	..	2	Ci.	..	..	..	7	..	..	..	..	4·0
14	WNW	1	SW	4	SW	4	3·0	0·8	6	10	..	..	Nb.	..	7	..	..	..	..	10	..	..	..	..	9·0
15	WSW	4	WSW	4	WSW	2	3·3	0·4	3	10	..	..	≡	..	10	..	..	..	..	10	..	..	..	..	10·0
16	WSW	3	WSW	3	NE	3	3·0	6·9	55	10	..	..	..	..	7	..	..	St.-Cu.	..	3	Ci.	..	..	..	6·7
17	ENE	2	ENE	2	ENE	4	2·7	12·5	100	1	Ci.	..	..	..	2	Ci.	..	..	..	0	..	..	..	..	1·0
18	ENE	1	ENE	3	ENE	4	2·7	12·4	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
19	ENE	4	ENE	5	ENE	5	4·7	12·4	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
20	ENE	5	ENE	4	E	4	4·3	11·4	93	0	..	..	..	..	2	Ci.	..	..	..	5	Ci.	..	..	..	2·3
21	E	4	E	3	NE	1	2·7	7·7	61	2	Ci.-Cu.	..	..	..	3	A.-Cu.	SW	..	..	6	Ci. A.-Cu.	SW	..	..	3·7
22	—	0	WSW	2	ENE	2	1·3	6·0	50	7	..	..	≡	..	4	Ci.-Cu.	..	Cu.	W	7	..	..	..	..	6·0
23	SSW	3	SW	4	S	1	2·7	2·1	18	8	..	..	..	..	8	..	..	..	..	10	..	..	Nb.	..	8·7
24	SSE	2	NW	3	S	1	2·0	0·8	7	10	..	..	..	..	10	..	..	Nb.	..	8	..	..	..	..	9·3
25	NW	1	W	3	—	0	1·3	9·0	75	6	Ci.	SSW	..	..	4	..	..	Cu.-Nb.	SW	3	..	..	..	..	4·3
26	S	1	NW	2	NW	3	2·0	0·5	4	8	..	..	Cu., Cu.-Nb.	SSW	10	..	..	Nb.	..	6	Ci.	..	Cu.	..	8·0
27	NW	2	NW	5	NNW	3	3·3	2·7	22	6	A.-Cu.	SW	..	..	7	A.-Cu.	NW	Cu.-Nb.	NW	10	..	..	Nb.	..	7·7
28	WSW	1	SSW	4	WSW	4	3·0	0·5	4	10	..	..	..	..	10	..	..	Nb.	..	10	..	..	..	..	10·0
29	N	5	NNW	5	NNE	3	4·3	5·7	48	10	..	..	..	..	5	..	..	Cu.	NNW	8	..	..	Cu.-Nb.	..	7·7
30	W	2	NNW	4	—	0	2·0	4·0	34	8	..	..	Cu.-Nb.	N	6	..	..	Cu.	N	7	..	..	..	..	7·0
Means		2·3		3·4		2·7	2·8	238·4	63	4·6	—	—	—	—	3·9	—	—	—	—	4·3	—	—	—	—	4·3
Normal		3·2		3·8		3·3	3·4	203·1	54	5·8	—	—	—	—	4·9	—	—	—	—	4·5	—	—	—	—	5·1

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	Remarks.
	mb.	mb.	mb.	mb.	*a* 200+	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	*a.* 200+	%	%	%	%	mm.	
1	10·6	11·2	10·6	10·8	82·8	86·1	83·9	86·7	81·0	84·1	75·5	66	*n* 49	72	62	—	
2	07·5	07·9	11·4	09·0	84·1	84·8	85·0	86·2	83·4	84·7	82·1	98	98	100	99	16·0	≡ ● all day.
3	15·6	17·2	19·6	17·5	84·6	86·4	85·7	86·6	83·6	85·4	81·3	96	84	73	84	—	●⁰ 13 h. 15 m.
4	20·3	19·1	18·6	19·4	81·2	87·0	84·1	87·9	80·5	84·1	75·6	89	63	72	75	—	
5	17·2	17·0	16·8	17·0	82·9	87·3	85·3	88·0	82·0	85·1	76·4	87	61	63	70	—	
6	16·4	17·1	18·7	17·4	85·1	87·5	84·6	88·3	82·8	85·7	80·1	80	72	86	79	—	
7	17·1	14·2	09·9	13·6	84·1	87·2	85·5	88·3	82·5	85·5	75·7	85	56	63	68	—	
8	01·6	00·3	02·0	01·4	84·6	84·0	85·0	85·8	83·0	84·5	81·9	72	86	76	78	1·6	● 9 h.
9	02·7	01·8	02·0	02·2	82·9	89·5	86·0	89·9	83·0	86·3	78·8	87	63	81	77	—	
10	00·3	98·4	98·7	99·1	82·9	88·1	87·1	89·1	82·7	86·0	79·6	95	75	88	86	0·5	● 16 h.
11	01·0	00·8	03·0	01·6	85·5	89·3	87·0	90·8	*x* 85·0	*x* 87·5	80·1	94	79	94	89	0·2	● 9 h. 15 m. < in E. 18 h.
12	04·7	05·1	08·7	06·2	86·0	88·0	88·3	88·7	84·9	87·2	79·2	100	89	87	92	0·5	●⁰ 6 h. 15 m., 13 h. 45 m., and 14 h. 30 m.
13	12·2	13·5	14·2	13·2	84·5	89·3	84·7	90·6	83·5	86·5	77·6	94	71	95	87	—	
14	14·4	14·7	15·1	14·7	82·1	91·2	85·3	*x* 91·9	82·0	86·5	77·2	98	60	89	82	—	
15	13·9	12·7	12·4	13·1	85·1	90·4	85·4	91·0	83·2	87·0	78·6	98	73	94	88	—	
16	10·8	11·2	12·7	11·5	84·1	87·7	84·7	88·2	83·0	85·5	77·5	98	81	94	91	—	
17	13·4	14·7	17·5	15·2	84·0	88·3	84·3	88·5	82·8	85·6	77·7	97	76	95	89	—	≡ 8 h. 30 m.–12 h., continued over sea.
18	18·4	19·1	20·4	19·4	84·2	86·6	83·8	87·1	81·7	84·7	77·9	97	78	88	88	—	≡ 7 h. 30 m.–12 h. 15 m.
19	19·0	16·6	14·3	16·7	82·1	84·7	83·0	85·0	81·4	83·2	76·8	77	79	89	82	0·4	● 1 h., 5 h. 20 m., and 11 h. 15 m.
20	12·4	11·2	10·2	11·2	81·8	85·7	84·4	86·8	81·0	83·9	75·1	83	69	73	75	—	
21	10·4	10·3	12·8	11·2	83·0	83·1	83·2	85·5	82·0	83·4	76·3	75	96	92	88	3·3	●⁰ 7 h. 15 m. ● 10 h. 55 m., and 23 h.
22	14·3	14·3	13·1	13·9	83·2	84·3	82·7	88·0	81·6	84·0	75·2	85	93	97	92	—	
23	09·8	07·9	07·8	11·1	84·0	86·9	86·8	87·3	83·0	85·6	77·3	90	80	72	81	0·2	● 15 h. 40 m.
24	02·4	04·3	01·6	02·7	85·3	85·3	83·7	87·9	82·8	85·0	82·7	95	66	77	79	5·1	● all day.
25	03·9	08·3	11·6	07·9	80·3	82·0	80·8	84·0	80·2	81·5	76·3	95	88	89	91	2·1	● 13 h.
26	13·6	15·4	16·7	15·2	82·0	84·1	82·7	84·9	81·2	83·0	79·3	64	61	60	62	—	
27	14·2	11·5	06·8	10·8	81·4	83·3	82·7	83·8	80·0	82·2	78·2	70	59	66	65	—	
28	95·9	94·3	97·0	95·8	82·4	86·4	82·6	87·0	81·4	84·0	79·7	93	62	79	78	6·8	Frequent ●.
29	99·1	01·6	04·3	01·8	80·3	85·4	82·6	85·8	79·4	82·7	*n* 72·5	83	60	81	75	0·3	● before noon and at 21 h.
30	06·6	05·5	00·6	04·2	81·0	82·2	81·8	*n* 82·3	*n* 78·9	*n* 81·2	73·5	89	82	86	86	0·5	● during evening.
31	89·1	83·8	80·7	84·6	85·1	84·8	85·1	86·6	81·8	84·7	80·2	82	87	82	84	*x* 17·8	● 10 h. 50 m.
Means	09·3	09·1	09·3	09·2	83·3	86·4	84·4	87·4	82·1	84·7	77·9	87	74	82	81	55·3	
Normal	07·8	07·6	08·2	07·8	84·5	87·0	85·1	87·8	83·3	85·5	80·0	83	73	80	79	91·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	NW	2	WNW	3	NW	1	2·0	3·9	34	8	..	..	Cu.-Nb.	NNW	6	A.-Cu.	N	Cu.	WNW	9	..	..	..	..	7·7
2	SSE	4	S	4	ENE	3	3·7	0·0	0	10	..	..	≡Nb.	..	10	..	..	Nb.	..	10	..	..	Nb.	..	10·0
3	—	0	ESE	2	ENE	2	1·3	0·1	1	8	..	..	Cu., Cu.-Nb.	N	10	..	..	..	..	10	..	..	..	..	9·3
4	NE	1	NNE	1	NNE	2	1·3	0·4	3	3	..	..	..	..	10	..	..	..	..	7	..	..	..	..	6·7
5	—	0	N	4	NNW	2	2·0	7·2	63	6	..	..	Cu.	N.	3	Ci.-Cu.	NE	..	..	8	..	..	..	..	5·7
6	NNW	3	NNE	4	NNE	2	3·0	5·6	50	8	..	..	Cu.-Nb.	NE	2	..	..	..	..	4	..	..	..	..	4·7
7	SE	1	SSW	3	SSE	4	2·7	8·8	77	3	Ci.	..	..	..	5	Ci.	..	..	..	10	..	..	..	..	6·0
8	SSE	5	ESE	3	ENE	2	3·3	0·0	0	10	..	..	Nb.	SSE	10	..	..	..	..	10	..	..	..	..	10·0
9	ENE	1	E	3	ENE	4	2·7	10·4	93	6	A.-Cu.	E	..	..	3	Ci.	..	..	..	6	..	..	..	..	5·0
10	ENE	4	E	3	ENE	3	3·3	4·2	38	6	..	..	Cu.-Nb.	ENE	8	..	..	St.-Cu.	S	8	..	..	..	..	7·3
11	S	2	E	2	—	0	1·3	3·3	29	6	Ci.	..	..	..	9	..	..	..	..	6	..	..	..	..	7·0
12	SE	2	S	4	SSW	4	3·3	0·7	6	8	..	..	Cu.-Nb.	SSE	10	..	..	Nb.	..	9	..	..	..	..	9·0
13	—	0	SW	3	NW	2	1·7	8·5	78	3	Ci.	..	..	..	4	..	..	{Cu. Nb.}	NNE	2	..	..	..	..	3·0
14	E	2	NE	1	NE	2	1·7	10·4	96	3	Ci.	..	..	..	3	Ci., Ci.-Cu.	E	..	..	2	..	..	..	..	2·7
15	NE	1	NE	2	ENE	2	1·7	3·0	28	8	..	..	Cu.-Nb.	ENE	6	Ci.	..	Cu., Cu.-Nb.	E	7	..	..	..	..	7·0
16	NE	1	ENE	1	ENE	2	1·3	2·2	20	6	Ci.-	..	..	..	8	A.-Cu.	SSW	..	..	3	A.-Cu.	..	..	..	5·7
17	ESE	1	—	0	ENE	2	1·0	0·9	8	8	..	..	Cu.-Nb.	..	7	..	..	..	..	2	..	..	..	..	5·7
18	—	0	E	1	NE	3	1·3	0·0	0	8	..	..	Cu.	ENE	8	..	..	..	..	2	Ci.	..	..	..	6·0
19	ENE	3	NE	3	NE	2	2·7	2·2	20	8	..	..	Cu.-Nb.	NE	10	..	..	..	..	8	..	..	Cu.	NE	8·7
20	ENE	3	S	2	E	2	2·3	5·7	55	7	..	..	Cu.	ENE	3	..	..	Cu.	E	10	..	..	..	..	6·7
21	S	4	S	3	—	0	2·3	0·2	2	10	..	..	..	..	10	..	..	Nb.	SSW	4	..	..	Cu.	W	8·0
22	W	1	SSW	2	E	1	1·3	3·7	35	6	..	..	Cu.-Nb.	WSW	7	..	..	Cu.-Nb.	S	6	..	..	Cu.	E	6·3
23	S	3	S	3	S	4	3·3	1·3	12	10	..	..	Nb.	ESE	8	Ci.	..	Cu.	WSW	10	..	..	..	..	9·3
24	WSW	3	WNW	4	WSW	3	3·3	4·5	43	8	A.-Cu.	WSW	Nb.	W	8	..	..	{Cu. Nb.}	WNW	10	..	..	..	..	8·7
25	ENE	3	NE	5	ENE	5	4·3	2·9	28	4	Ci.	NE	..	..	10	..	..	Nb.	ENE	10	..	..	Nb.	..	8·0
26	NE	6	NE	5	NE	4	5·0	5·2	51	10	..	..	Nb.	ENE	4	..	..	Cu.	NE	1	..	..	..	..	5·0
27	NE	1	NW	2	WSW	3	2·0	1·0	10	10	..	..	Nb.	NE	7	A.-Cu.	..	Cu.	SW	8	..	..	..	..	8·3
28	SW	6	W	4	NW	2	4·0	2·3	22	10	..	..	Nb.	SSW	6	..	..	Cu.	W	5	..	..	Cu.-Nb.	..	7·0
29	—	0	WSW	2	SSW	2	1·3	6·0	60	4	Ci.	..	..	..	4	Ci.	..	Cu.	..	9	..	..	Nb.	..	5·7
30	S	2	SSW	3	S	4	3·0	2·8	28	8	..	..	Cu.-Nb.	SSW	7	..	..	Cu.	S	10	..	..	Nb.	SSE	8·3
31	SW	5	SSW	5	SSW	5	5·0	2·8	28	7	..	..	Cu.-Nb.	SW	10	..	..	Nb.	SW	8	..	..	..	..	8·3
Means		2·3		2·8		2·5	2·5	110·0	33	7·1	—	—	—	—	7·0	—	—	—	—	6·9	—	—	—	—	7·0
Normal		3·5		3·9		3·6	3·7	130·2	39	6·7	—	—	—	—	6·5	—	—	—	—	6·1	—	—	—	—	6·4

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	Remarks.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	82·3	87·4	93·4	87·6	84·1	83·6	83·4	86·0	82·5	83·9	79·8	94	96	82	91	15·4	● all day.
2	99·4	99·9	01·1	00·2	81·3	81·9	80·8	83·0	80·5	81·5	78·3	69	70	61	67	—	●⁰ 7 h. 45 m.
3	01·2	01·1	02·7	01·6	79·1	82·7	79·4	83·2	79·0	80·7	73·4	73	56	65	65	—	
4	01·8	01·6	04·4	02·7	80·1	83·6	81·4	84·4	80·0	81·9	73·6	84	75	62	74	—	
5	06·2	07·1	09·6	07·6	80·1	83·4	81·0	84·3	79·9	81·7	76·2	91	58	75	75	0·8	● 5 h. ●⁰ 21 h.
6	11·4	12·6	15·1	13·0	80·5	83·8	80·3	84·3	78·7	81·5	75·8	81	57	82	73	0·8	
7	14·8	13·2	11·9	13·4	77·8	83·7	81·4	84·1	76·3	80·7	71·3	95	69	80	81	—	
8	08·6	06·4	04·3	06·4	82·7	86·0	84·1	87·6	*x* 82·6	84·6	77·2	95	71	85	84	—	d. 18 h.
9	97·5	88·8	86·7	91·0	84·1	84·7	81·0	84·7	80·3	83·0	78·3	84	86	71	80	*x* 16·4	q. with ●. ▲ 22 h. 50 m.
10	89·8	94·4	98·2	94·2	80·9	82·0	81·6	84·4	78·5	81·5	75·0	77	64	61	67	3·1	↯ in distance 1 h. 30 m. ● 5 h. ▲
11	01·2	97·1	81·8	93·5	81·3	82·4	84·6	86·0	80·1	82·9	74·5	62	72	98	77	13·0	●, especially after 14 h. [14 h. 25 m.
12	75·9	71·0	62·8	69·9	85·9	87·3	82·9	*x* 87·8	80·9	*x* 85·0	80·6	98	75	74	82	5·4	Very strong S.W. wind *n*.
13	88·0	01·4	02·7	97·4	81·0	82·1	81·1	83·5	78·4	81·2	76·9	46	*n* 43	75	55	6·5	● 19 h. 30 m.
14	00·8	02·6	06·0	03·1	81·0	80·5	76·2	81·5	75·8	79·0	74·3	58	61	98	72	8·5	≡⁰ ●.
15	06·2	04·7	04·4	05·1	77·8	81·1	77·4	82·0	76·3	78·9	69·1	74	87	90	84	10·1	● 16 h. 30 m. ▲ 17 h. 30 m.
16	06·7	13·2	19·2	13·1	79·1	79·7	77·7	80·4	77·0	78·8	71·7	61	62	72	65	1·1	
17	19·4	19·1	19·5	19·2	76·5	80·4	76·9	81·7	76·2	78·3	67·3	75	65	68	69	—	⌴ (first winter frost).
18	18·6	18·0	17·9	18·2	77·6	80·1	78·5	81·0	76·6	78·8	68·4	80	66	81	76	—	⌴ morning.
19	19·6	21·6	24·7	21·9	78·7	79·4	76·5	80·5	76·4	78·3	69·9	78	66	85	76	—	Fine.
20	26·6	29·6	32·3	29·5	77·3	78·0	76·5	78·9	76·5	77·4	71·9	82	72	76	77	—	
21	31·4	29·1	28·0	29·5	77·1	78·0	75·5	78·4	75·2	76·8	74·5	83	84	89	85	—	
22	25·0	21·5	20·6	22·3	75·1	77·3	76·7	79·6	74·7	76·7	73·9	85	78	95	86	—	
23	18·3	18·8	20·7	19·2	79·4	80·0	78·7	80·3	78·4	79·4	70·5	82	79	85	82	—	Squalls at sea in afternoon.
24	22·4	22·7	22·2	22·4	80·1	79·5	79·1	80·6	78·9	79·6	73·8	70	63	63	65	0·1	● of short duration at 0 h.
25	19·6	17·8	16·3	17·9	78·7	78·4	79·0	79·7	77·4	78·6	76·0	62	61	79	67	0·3	● 22 h. 30 m.
26	14·8	15·4	17·5	15·9	78·3	79·7	77·5	80·6	77·0	78·6	69·9	68	50	75	64	—	
27	19·2	19·8	19·6	19·6	76·1	77·1	74·9	78·6	74·5	76·2	69·7	51	55	63	56	—	
28	15·1	07·6	01·8	08·2	71·5	73·3	75·1	*n* 76·2	*n* 70·6	*n* 73·3	*n*65·3	64	59	63	62	—	
29	91·5	84·7	83·9	86·7	79·4	82·2	82·8	83·6	76·2	80·8	68·5	94	97	87	93	7·9	● all day. [14 h. 45 m.
30	86·7	87·9	88·7	87·8	81·4	83·0	81·6	83·9	80·3	82·0	77·3	80	74	85	80	0·8	● of short duration 7 h. 40 m. ● squall
Means	07·3	07·2	07·3	07·3	79·5	81·2	79·5	82·4	77·9	80·1	73·4	77	69	78	75	90·2	
Normal	08·4	08·2	08·7	08·4	81·4	83·2	81·9	84·1	80·2	82·2	76·3	82	75	80	79	92·4	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).			Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.														Mean Amount.
							Upper.			Lower.			Upper.		Lower.		Upper.		Lower.		
	7 h.	14 h.	21 h.		Total.	Per cent. of Possible.	Tenths.	Type.	Direction.	Type.	Direction.	Tenths.	Type.	Direction.	Type.	Direction.	Tenths.	Type.	Direction.	Type.	Direction.	
							7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%																
1	N 2	N 3	NE 4	3·0	1·1	11	10	..	..	Nb.	..	10	..	..	Nb.	N	10	..	..	..	..	10·0
2	NE 5	NNE 4	NE 4	4·3	3·7	37	6	..	..	Cu.	NE	7	..	..	Cu. Cu.-Nb.	NE NE	2	..	..	..	..	5·0
3	NE 3	NE 3	ENE 3	3·0	7·8	80	5	..	..	Cu.	NE	5	Ci.	SW	Cu.	NE	7	..	..	..	..	5·7
4	E 3	ENE 4	E 4	3·7	4·2	44	7	Ci.	..	..	..	7	..	..	Cu.	ENE	0	..	..	..	..	4·7
5	E 3	NE 4	NE 4	3·7	4·9	51	10	..	..	Nb.	ENE	5	..	..	Cu.-Nb.	NE	8	..	..	Nb.	..	7·7
6	NE 3	ENE 5	ENE 2	3·3	9·3	97	6	..	..	Cu., Cu.-Nb.	NE	1	..	..	Cu.	NE	0	..	..	..	..	2·3
7	— 0	NE 2	— 0	0·7	6·2	66	8	..	..	Cu.-Nb.	NE	1	..	..	Cu.	..	10	..	..	..	..	6·3
8	NW 2	W 3	W 2	2·3	3·6	38	6	..	..	Cu.-Nb.	..	7	A.-Cu.	N	Cu.	N	3	..	..	..	..	5·3
9	SW 6	SW 7	WNW 4	5·7	1·3	14	5	A.-Cu.	WNW	Cu.-Nb.	SW	10	..	..	Nb.	SW	2	..	..	..	..	5·7
10	WNW 4	WNW 4	WNW 5	4·3	4·7	50	6	..	..	..	..	8	..	..	Nb.	..	3	..	..	..	..	5·7
11	W 4	SSW 5	SW 6	5·0	0·3	3	4	..	..	..	..	10	..	..	Nb.	SW	10	..	..	Nb.	..	8·0
12	SSW 5	SW 6	SW 8	6·3	0·7	7	10	..	..	Nb.	SSW	9	Ci.	..	Cu.-Nb.	SW	10	..	..	Nb.	..	9·7
13	N 7	NW 6	W 3	5·3	4·8	51	10	..	..	Nb.	NNW	5	..	..	Cu.	NNW	10	..	..	..	..	8·3
14	NNW 4	W 1	— 0	1·7	1·4	15	5	..	..	Cu.-Nb.	NNW	10	..	..	..	..	3	..	..	..	..	6·0
15	NW 3	S 1	ESE 2	2·0	3·2	35	5	Ci.	..	Cu.-Nb.	NW	7	Ci.	WNW	Cu.-Nb.	..	2	..	..	Cu.-Nb.	..	4·7
16	NNW 3	NE 4	ENE 2	3·0	3·8	41	8	..	..	Nb.	NNW	7	..	..	Cu.-Nb.	NE	0	..	..	..	..	5·0
17	— 0	NE 2	NE 2	1·3	7·1	78	2	..	..	..	..	6	..	..	Cu.	NNE	0	..	..	..	..	2·7
18	ENE 3	E 2	ENE 2	2·3	6·0	66	4	..	..	..	..	8	..	..	St.-Cu.	NE	7	..	..	St.-Cu.	NNW	6·3
19	E 2	NE 3	ENE 3	2·7	3·0	34	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	1·0
20	ENE 2	ENE 4	ENE 4	3·3	0·9	11	10	..	..	Cu.	NE	10	..	..	..	..	10	..	..	..	..	10·0
21	NE 2	ENE 3	E 3	2·7	0·3	4	10	..	..	..	..	10	..	..	..	..	10	..	..	..	..	10·0
22	E 4	ENE 3	NE 1	2·7	0·0	0	10	..	..	..	..	9	..	..	St.-Cu.	ENE	4	..	..	Cu.	ENE	7·7
23	NE 3	NE 2	NE 3	2·7	0·0	0	8	..	..	Cu.-Nb.	NE	8	..	..	Cu.-Nb.	NE	10	..	..	..	..	8·7
24	NE 3	NE 2	NE 2	2·3	0·0	0	10	..	..	..	..	10	..	..	..	..	10	..	..	..	..	10·0
25	N 3	NNW 2	NW 1	2·0	0·1	1	10	..	..	..	..	8	..	..	Cu.	N	10	..	..	..	..	9·3
26	NE 3	NNE 3	NE 3	3·0	4·8	56	5	..	..	Cu.-Nb.	NNE	4	..	..	Cu.	NE	4	..	..	Cu.	NE	4·3
27	ESE 2	SE 2	E 1	1·7	4·6	53	7	A.-Cu.	NE	..	..	1	..	..	..	..	0	..	..	..	..	2·7
28	E 4	E 4	SSE 4	4·0	2·9	34	2	St.	..	..	..	8	Ci.	..	..	..	7	..	..	..	..	5·7
29	S 5	S 6	S 6	5·7	0·0	0	10	..	..	Nb.	S	10	..	..	Nb.	S	9	..	..	..	..	9·7
30	SW 6	SW 5	SSW 6	5·7	4·7	55	5	..	..	..	..	6	Ci.	SW	Cu.-Nb.	SW	1	..	..	Cu.	..	4·0
Means	3·3	3·5	3·1	3·3	95·5	35	6·8	—	—	—	—	6·9	—	—	—	—	5·4	—	—	—	—	6·4
Normal	3·6	3·8	3·7	3·7	85·2	31	7·3	—	—	—	—	7·0	—	—	—	—	6·4	—	—	—	—	6·9

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6 W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	85·8	86·3	92·8	88·3	82·4	84·0	83·1	84·5	80·8	83·0	77·0	84	75	84	81	3·0	< ●0 6 h. 30 m. ● squalls afternoon.
2	98·7	99·2	96·8	98·3	82·8	82·0	84·9	85·3	81·5	83·3	79·9	94	97	100	97	x 26·2	≡ ● 14 h.
3	95·4	99·4	00·0	98·3	84·1	85·1	83·4	86·0	82·6	84·2	81·1	100	86	90	92	8·2	≡ until 12 h.
4	94·0	90·4	92·0	92·2	85·3	85·9	85·0	x 86·5	x 82·7	x 85·1	79·2	98	90	76	88	3·2	
5	96·6	91·9	83·9	90·8	82·2	83·9	84·1	85·6	81·9	83·5	78·5	93	100	88	94	5·0	≡ 12 h.–15 h. ● 13 h.
6	81·9	84·3	91·5	85·9	83·4	83·1	83·4	83·9	82·4	83·2	79·9	81	97	75	84	10·5	
7	97·4	90·4	90·6	92·8	82·7	83·0	85·2	85·6	82·4	83·8	78·7	88	98	90	92	8·0	● 10 h. 30 m. ≡ till 15 h.
8	98·0	00·8	03·0	00·6	82·6	84·0	81·5	84·3	80·0	82·5	77·3	90	64	81	78	—	
9	99·2	95·5	94·6	96·4	82·1	85·2	85·3	85·5	81·8	84·0	73·7	100	97	96	98	16·8	≡ 7 h.–12 h.
10	94·0	97·5	96·6	96·0	85·3	85·1	83·4	86·0	x 82·7	84·5	83·6	95	80	96	90	18·1	
11	93·2	98·2	99·0	96·8	81·0	83·5	81·1	85·5	80·4	82·3	79·2	89	81	96	89	17·6	
12	96·8	04·3	15·2	05·5	76·8	77·2	77·2	n 80·0	n 73·5	n 76·9	71·6	91	65	52	69	12·5	Much ✳ till 11 h.
13	22·8	24·8	25·6	24·4	77·6	78·4	78·6	80·4	77·0	78·4	71·8	51	65	61	59	0·5	●0 13 h. and 14 h. 30 m.
14	21·9	16·6	11·9	16·8	79·4	80·9	80·1	81·5	76·6	79·7	n 70·1	65	75	88	76	3·0	● began 15 h.
15	00·2	94·8	95·2	96·7	79·6	81·3	81·6	82·3	79·4	80·8	78·3	90	90	85	88	6·6	Frequent ●.
16	94·3	94·3	93·2	93·9	80·1	81·8	79·8	82·2	79·6	80·7	75·5	93	n 42	93	76	—	
17	97·1	99·0	02·8	99·6	79·6	80·6	79·7	81·0	78·5	79·9	76·3	88	73	94	85	0·8	● 18 h. 30 m.
18	07·2	10·2	14·3	10·6	79·1	79·9	80·4	80·8	79·0	79·8	72·3	82	72	92	82	0·9	●0 16 h.
19	19·6	21·1	21·9	20·8	79·6	79·1	78·6	80·7	78·4	79·3	75·7	80	80	83	81	0·3	● 22 h. ●0 shower 20 h.
20	21·2	19·8	19·4	20·2	77·9	80·1	79·5	80·5	77·5	79·1	73·0	92	68	70	77	—	
21	15·5	12·0	10·7	12·7	81·0	82·1	82·5	82·7	78·9	81·4	74·0	87	88	93	89	2·5	
22	09·8	07·1	07·5	08·0	82·8	83·3	81·9	84·4	80·7	82·6	79·1	91	83	89	88	4·2	●0 14 h. and 21 h.
23	94·4	92·0	85·0	90·4	82·1	83·1	83·7	83·9	80·2	82·6	75·6	73	77	100	83	16·0	● 15 h. 30 m. q. n.
24	79·5	78·4	79·4	79·1	83·6	84·1	83·1	84·6	80·7	83·2	79·8	89	74	79	81	6·4	
25	75·4	76·2	82·2	77·9	81·8	83·1	83·0	83·5	80·5	82·4	77·8	89	73	73	78	2·4	
26	96·7	01·8	98·3	99·0	82·2	82·1	82·5	83·6	80·6	82·2	77·8	80	85	95	87	6·5	● all day.
27	95·5	00·4	05·2	00·4	86·3	84·1	82·7	86·3	82·5	84·4	79·3	74	61	74	70	—	
28	06·0	04·0	01·4	03·8	82·1	82·0	82·5	82·7	81·1	82·1	78·2	85	95	86	89	—	
29	92·8	95·5	99·6	96·0	82·5	83·9	81·8	84·5	81·7	82·9	78·3	77	80	84	80	0·2	●0 shower 11 h. 15 m.
30	00·7	01·8	03·9	02·2	81·9	82·3	82·6	84·0	81·1	82·4	77·0	89	95	94	93	0·4	●0 shower 7 h. 30 m.
31	97·1	98·8	05·5	00·4	83·6	84·0	82·7	84·2	80·8	83·1	78·6	73	77	80	77	0·2	● began 8 h. 30 m. ●2 shower 10 h.
Means	99·3	99·6	00·6	99·8	81·7	82·5	82·1	83·6	80·2	82·0	77·0	86	80	85	84	179·4	
Normal	06·3	06·3	07·0	06·6	80·0	81·1	80·3	82·0	78·6	80·4	75·3	84	80	82	82	100·7	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	SSW	6	WSW	6	WSW	6	6·0	1·4	17	8	..	..	Cu.-Nb., Nb.	SW	6	..	..	Cu.-Nb.	W	1	..	..	..	..	5·0
2	WSW	4	S	3	SW	4	3·7	0·0	0	10	..	..	Nb.	..	10	..	..	Nb.	SSW	10	..	..	Nb.	..	10·0
3	SSW	4	WSW	5	SW	6	5·0	1·9	22	10	..	..	Nb. ≡	..	6	Ci.	WNW	Cu.-Nb.	W	7	..	..	..	..	7·7
4	SW	5	SW	6	WSW	7	6·0	0·3	3	10	..	..	Nb.	..	10	..	..	St.-Cu.	SW	10	..	..	..	..	10·0
5	SSW	4	SSE	3	SSE	4	3·7	0·0	0	6	A.-Cu.	SW	..	..	10	..	..	Nb. ≡	..	9	..	..	..	..	8·3
6	WSW	7	SW	5	SW	6	6·0	1·4	17	8	..	..	Cu.-Nb.	SW	8	A.-Cu.	..	Nb.	SW	2	..	..	..	..	6·0
7	SSW	5	S	4	WSW	7	5·3	0·0	0	7	..	..	St.-Cu.	SW	10	..	..	Nb. ≡	..	10	..	..	Nb.	..	9·0
8	WSW	4	NW	3	ENE	2	3·0	3·8	46	2	..	..	Cu.	WSW	3	Ci.	..	Cu.	..	10	..	..	..	..	5·0
9	ESE	2	SW	6	SW	5	4·3	0·0	0	10	..	..	Nb. ≡	..	10	..	..	Nb.	SW	10	..	..	..	..	10·0
10	SSW	6	SW	5	S	1	4·0	1·0	12	10	..	..	..	..	7	Ci.-Cu.	..	Cu.-Nb.	WSW	10	..	..	Nb.	..	9·0
11	NW	4	SSW	5	WNW	2	3·7	3·7	46	10	..	..	Nb.	..	4	..	..	..	..	10	..	..	Nb.	..	8·0
12	NW	1	N	4	N	4	3·0	0·5	4	10	..	..	Nb.	..	9	..	..	Cu.-Nb.	N.	3	A.-Cu.	..	Cu.	..	7·3
13	NNW	3	WNW	3	NW	2	2·7	3·1	38	3	..	..	Cu.-Nb.	NW	9	..	..	..	..	8	..	..	..	..	6·7
14	SW	4	SSW	6	SSW	5	5·0	0·2	2	6	Ci.-Cu.	SW	..	..	10	..	..	Nb.	SW	10	..	..	Nb.	..	8·7
15	S	6	S	5	SW	3	5·0	0·0	0	10	..	..	Nb.	SSW	10	..	..	Nb.	..	3	..	..	..	..	7·7
16	SSW	3	SSW	4	S	4	3·7	5·5	67	1	..	..	..	..	3	Ci.	..	..	..	6	..	..	Cu.-Nb.	S	3·3
17	—	0	NE	1	NNE	2	1·0	3·1	38	10	..	..	..	..	6	Ci., A.-Cu.	..	..	..	8	..	..	Nb.	NE	8·0
18	NE	4	NNE	4	NNE	4	4·0	0·0	0	7	..	..	..	..	10	..	..	..	..	10	..	..	Nb.	..	9·0
19	ENE	5	NE	4	NE	4	4·3	3·1	38	5	..	..	Cu.	NE	3	..	..	..	..	9	..	..	Cu.-Nb.	NE	5·7
20	ENE	1	NNW	3	N	2	2·0	2·8	34	10	..	..	..	..	4	Ci.-Cu.	NE	Cu.	N	8	A.-Cu.	N	..	..	7·3
21	NW	3	W	4	WNW	4	3·7	0·0	0	10	..	..	..	..	10	..	..	Nb.	WNW	10	..	..	Nb.	..	10·0
22	W	3	WSW	4	SW	5	4·0	0·3	4	8	..	..	Nb.	WNW	9	A.-Cu.	W	Nb.	..	10	..	..	Nb.	SW	9·0
23	WSW	5	WSW	5	SW	6	5·3	1·4	17	5	A.-Cu.	W	Cu.-Nb.	NW	10	..	..	Nb.	W	10	..	..	Nb.	..	8·3
24	WSW	4	SW	6	SW	6	5·3	3·0	37	1	..	..	Cu.	..	6	..	..	Cu.	W	5	..	..	..	..	4·0
25	SSW	5	SSW	3	W	6	4·7	5·1	63	10	..	..	Nb.	SW	2	..	..	..	..	9	..	..	..	..	7·0
26	WSW	6	SW	4	SW	6	5·3	4·8	21	9	A.-Cu.	..	Nb.	WSW	10	A.-Cu.	..	Nb.	..	10	..	..	Nb.	..	9·7
27	SW	7	WSW	7	SW	6	6·7	5·1	62	10	..	..	..	..	3	..	..	Fr.-Cu.	WSW	3	..	..	..	..	5·3
28	SSW	4	SE	3	ESE	2	3·0	0·0	0	10	..	..	..	..	10	..	..	..	..	8	..	..	..	..	9·3
29	ESE	3	S	3	SW	4	3·3	1·6	19	10	..	..	..	..	7	..	..	..	..	1	..	..	..	..	6·0
30	SSW	4	S	3	S	4	3·7	2·5	30	8	..	..	..	..	10	..	..	Nb.	SSW	10	..	..	..	..	9·3
31	S	6	SW	5	SW	5	5·3	4·3	53	10	..	..	..	..	2	..	..	Cu.	SW	2	..	..	..	..	4·7
Means		4·1		4·2		4·3	4·2	56·8	22	7·9	—	—	—	—	7·3	—	—	—	—	7·5	—	—	—	—	7·6
Normal		3·9		4·0		4·0	4·0	61·9	24	7·8	—	—	—	—	7·4	—	—	—	—	7·2	—	—	—	—	7·5

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	03·1	04·4	13·0	06·8	84·6	86·0	84·3	*x* 86·5	82·2	*x* 84·7	78·1	86	76	82	81	0·7	● 8 h.
2	15·0	14·7	14·3	14·7	82·9	84·9	85·0	85·2	*x* 82·5	84·1	80·0	98	95	86	93	*x* 7·9	≡⁰ 6 h.–8 h. ●
3	17·1	23·0	24·4	21·5	83·7	84·6	82·3	85·1	81·5	83·4	81·1	96	86	95	92	2·7	● during night. Fine afternoon.
4	19·9	18·2	16·7	18·2	82·9	84·4	83·9	85·0	81·8	83·6	75·1	100	88	90	93	1·0	●⁰ during morning.
5	21·6	24·3	26·2	24·0	81·0	83·2	80·6	83·4	80·5	81·7	74·6	90	86	96	91	—	
6	23·6	22·7	21·2	22·6	83·7	85·1	82·4	85·1	81·5	83·6	72·5	98	86	92	92	—	
7	12·6	10·6	13·6	12·2	83·4	83·1	79·9	84·0	79·8	82·0	79·4	88	85	84	86	1·8	● 10 h. ▲ 16 h. 15 m. q. 20 h. 55 m.
8	17·9	20·4	22·6	20·3	80·6	81·7	81·5	82·0	80·5	81·3	75·9	66	*n* 50	71	62	—	
9	26·2	27·5	29·8	27·9	81·5	83·4	82·4	83·6	80·9	82·4	76·0	85	86	79	83	—	
10	29·5	28·4	28·6	28·8	81·9	82·1	81·7	82·5	81·7	82·0	79·0	84	95	91	90	0·2	d. frequently.
11	25·2	23·6	24·3	24·4	83·0	83·5	83·2	84·6	82·0	83·3	76·1	81	84	87	84	—	
12	25·4	21·4	17·2	21·4	82·6	83·3	82·2	83·5	81·9	82·7	79·3	95	82	95	91	0·5	● 20 h. and during night.
13	13·2	13·8	16·6	14·6	82·1	81·5	80·4	82·3	79·9	81·2	76·8	66	61	58	62	1·1	
14	20·6	21·8	21·6	21·2	78·0	81·0	80·4	81·7	77·0	79·6	70·7	68	59	78	68	—	≡⁰ 10 h. ; calm.
15	18·0	18·2	19·2	18·4	81·3	81·4	81·5	81·9	81·2	81·5	73·7	96	98	82	92	0·3	●⁰ 6 h. and about 13 h.
16	18·2	16·4	14·3	16·3	80·5	80·5	79·6	81·4	79·0	80·2	78·1	73	79	80	77	—	
17	09·0	07·8	06·2	07·6	80·2	83·1	83·3	83·5	79·1	81·8	73·3	96	97	95	96	0·9	● 4 h. and 15 h. 45 m. ●⁰ 21 h.
18	05·9	07·6	11·6	08·4	83·3	82·6	81·7	84·0	81·5	82·6	79·9	100	98	91	96	4·7	≡ ● 4 h.–13 h.
19	15·2	13·5	12·4	13·8	81·2	83·1	83·1	84·4	80·8	82·5	75·5	92	85	97	91	0·3	Glow in N. 7 h. ● 14 h. 45 m.
20	15·5	18·8	22·2	18·8	81·9	83·1	81·8	84·3	81·0	82·4	76·1	80	75	83	79	3·3	● 12 h.
21	19·5	19·5	20·3	19·8	82·7	84·1	83·8	84·7	81·3	83·3	76·1	84	91	93	89	—	
22	20·8	25·0	29·0	25·0	83·5	83·9	79·7	84·3	78·7	82·0	80·1	87	97	92	92	1·1	● 9 h. 40 m. ≡ 11 h. 30 m.–13 h.
23	27·2	22·7	18·2	22·7	79·7	83·0	81·9	83·4	78·5	81·3	71·9	95	86	87	89	—	≡ 11 h. 15 m.–12 h. 45 m.
24	17·5	21·9	25·8	21·8	82·3	82·4	78·6	83·0	78·0	80·9	77·3	95	72	82	83	0·3	● 6 h. ≡ 8 h. 30 m.–9 h. 30 m. ●⁰ 11 h.
25	25·1	23·2	22·3	23·5	78·9	82·1	80·5	82·2	78·0	80·3	*n* 70·3	78	72	78	76	—	⌴⁰ at 7 h. [45 m.
26	20·7	20·6	20·3	20·6	82·3	82·8	82·3	83·0	80·8	82·2	72·3	96	92	87	92	0·7	●⁰ 4 h. ≡ and ● 10 h. 30 m.
27	19·9	20·8	21·8	20·8	81·6	81·7	82·1	83·0	81·4	82·0	76·9	90	92	100	94	1·0	≡ and ● 20 h.
28	21·5	21·6	21·9	21·6	82·1	82·3	80·7	83·2	80·5	81·8	77·9	99	100	100	100	0·4	≡ all day from 9 h.
29	20·4	19·6	21·1	20·4	79·1	83·8	80·9	84·5	79·0	81·5	73·6	98	77	87	87	—	
30	22·8	25·1	26·8	25·0	80·0	79·9	79·6	80·9	79·0	79·9	71·9	94	86	79	86	—	≡ 9 h.–13 h.
31	27·4	28·0	25·9	27·1	77·9	79·0	78·7	*n* 79·6	*n* 76·3	*n* 78·3	73·9	79	85	85	83	—	
Means	19·2	19·5	20·3	19·7	81·6	82·8	81·6	83·4	80·3	81·9	75·9	88	84	87	86	28·9	
Normal	12·2	11·9	13·0	12·4	78·6	79·9	79·0	80·7	77·3	79·1	74·1	84	78	82	81	66·6	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type. 7 h.	Direction. 7 h.	Lower. Type. 7 h.	Direction. 7 h.	14 h. Tenths.	Upper. Type. 14 h.	Direction. 14 h.	Lower. Type. 14 h.	Direction. 14 h.	21 h. Tenths.	Upper. Type. 21 h.	Direction. 21 h.	Lower. Type. 21 h.	Direction. 21 h.	Mean Amount.
								hr.	%																
1	SSW	6	WSW	5	WSW	4	5·0	3·7	45	10	..	..	..	..	4	Ci.	..	..	..	6	..	..	..	..	6·7
2	S	3	SW	4	SW	4	3·7	0·0	0	10	..	..	Nb. ≡	..	10	..	..	Nb.	..	10	..	..	..	..	10·0
3	WSW	4	WSW	4	SW	2	3·3	5·0	61	10	..	..	Nb.	WNW	3	..	..	Cu.	W	1	..	..	..	..	4·7
4	SSW	4	SW	5	SW	5	4·7	0·0	0	10	..	..	Nb.	..	10	..	..	Nb.	WSW	10	..	..	..	..	10·0
5	WNW	2	WSW	1	WSW	1	1·7	6·1	73	6	..	..	..	..	2	..	..	Cu.	W	8	..	..	..	..	5·3
6	WSW	5	WSW	4	WSW	4	4·3	3·6	43	10	..	..	≡	..	3	Ci.	NW	..	..	3	..	..	Cu.-Nb.	NW	5·3
7	WSW	5	W	4	W	4	4·3	0·3	3	10	..	..	Nb.	..	8	A.-Cu.	SW	Nb.	W	7	..	..	Cu.-Nb.	..	8·3
8	NW	4	NW	4	NNW	3	3·7	3·7	45	3	..	..	Cu.	NW	4	..	..	Cu.	NNW	4	..	..	Cu.-Nb.	..	3·7
9	NNW	1	NNW	2	NNW	2	1·7	0·2	2	10	..	..	..	..	9	..	..	St.-Cu.	N	10	..	..	..	..	9·7
10	WNW	2	WSW	3	W	3	2·7	0·3	3	10	..	..	Nb.	..	8	A.-Cu.	WSW	Nb.	W	1	..	..	..	..	6·3
11	WNW	3	W	3	NW	3	3·0	0·8	9	10	..	..	..	..	8	A.-Cu.	N	Cu.-Nb.	NW	8	A.-Cu.	..	St.-Cu.	NW	8·7
12	NW	3	W	3	WSW	4	3·3	0·0	0	8	..	..	Cu.	NW	9	..	..	St.-Cu.	W	10	..	..	Nb.	..	9·0
13	NW	5	NW	5	NNW	6	5·3	2·5	29	7	..	..	Cu.-Nb.	..	7	..	..	Cu.-Nb.	NW	10	A.-Cu.	NNW	..	..	8·0
14	N	2	W	2	W	2	2·0	2·0	24	3	Ci.-Cu. A.-Cu.	NW NW	..	..	7	..	..	Fr.-Cu.	NNW	6	A.-Cu.	W	Cu.	WNW	5·3
15	WSW	3	WSW	4	WSW	4	3·7	0·0	0	10	..	..	..	..	10	..	..	Nb.	..	10	..	..	..	..	10·0
16	SW	3	SSW	4	SW	3	3·3	1·9	22	10	..	..	..	..	6	..	..	Cu.	SSW	4	Ci.	..	Cu.	SSW	6·7
17	S	4	SSW	3	SSW	4	3·7	0·5	6	10	..	..	Nb.	..	10	..	..	..	..	10	..	..	Nb.	..	10·0
18	W	1	SW	2	SW	3	2·0	0·0	0	10	..	..	Nb.-≡	..	10	..	..	..	..	1	..	..	..	..	7·0
19	SW	4	SW	6	SW	6	5·3	2·5	29	4	..	..	Cu.	WSW	10	..	..	..	..	10	..	..	..	..	8·0
20	W	4	W	5	SW	4	4·3	5·4	60	2	..	..	Cu.	W	6	Ci.	WNW	..	..	3	Ci.	..	Fr.-Cu.	W	3·7
21	SW	4	SW	6	SW	6	6·7	0·2	2	10	..	..	St.-Cu.	SW	9	..	..	..	..	8	..	..	St.-Cu.	W	9·0
22	SW	6	WSW	3	NW	1	3·3	1·3	15	7	..	..	St.-Cu.	SW	10	..	..	Nb.	W	5	Ci.	..	..	..	7·3
23	ENE	2	SSW	3	SSW	4	3·0	2·7	30	8	..	..	St.-Cu.	SW	2	Ci.	..	..	..	8	..	..	Cu.-Nb.	SSW	6·0
24	SW	4	NNW	2	NW	1	2·3	3·3	37	10	..	..	..	..	3	Ci.	W	..	..	1	..	..	..	..	4·7
25	W	1	SW	3	SW	2	2·0	6·5	72	2	..	..	..	..	3	..	..	Fr.-Cu.	SW	1	..	..	..	..	2·0
26	WSW	4	SW	3	SW	3	3·3	0·0	0	8	..	..	St.-Cu.	WSW	10	..	..	St.-Cu.	SW	10	..	..	..	..	9·3
27	WSW	3	WSW	3	SW	1	2·3	0·2	2	6	A.-Cu.	..	..	..	10	..	..	Cu.-Nb.	W	10	..	..	Nb. ≡	..	8·7
28	SW	2	SW	3	E	2	2·3	0·6	6	10	..	..	..	..	10	..	..	≡	..	7	..	..	≡	..	9·0
29	E	3	SSE	2	SE	2	2·3	7·3	80	2	..	..	..	..	3	..	..	Cu.	SSE	7	..	..	..	..	4·0
30	SE	1	ENE	3	ENE	3	2·3	0·0	0	10	..	..	..	..	10	..	..	..	..	10	..	..	..	..	10·0
31	E	3	ENE	2	NE	3	2·7	1·0	11	10	..	..	..	..	10	..	..	..	..	6	..	..	..	..	8·7
Means		3·3		3·5		3·2	3·3	61·4	23	7·9	—	—	—	—	7·2	—	—	—	—	6·6	—	—	—	—	7·3
Normal		3·8		4·0		3·9	3·9	75·4	28	7·5	—	—	—	—	7·2	—	—	—	—	6·8	—	—	—	—	7·2

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	23·6	22·3	20·6	22·2	75·5	78·0	78·1	78·5	75·1	77·0	69·7	96	81	70	82	—	
2	16·6	13·1	10·6	13·4	77·1	78·3	80·1	80·2	76·5	78·5	75·6	80	91	88	86	1·2	● from 12 h. 30 m. at intervals.
3	01·9	95·5	84·3	93·9	81·9	82·5	82·6	83·6	80·2	82·2	78·5	93	90	83	89	3·6	Strong wind during evening.
4	77·9	81·2	85·6	81·6	81·3	82·9	80·6	83·5	78·8	81·4	78·0	70	65	78	71	5·5	
5	98·2	08·2	13·5	06·6	79·5	83·6	81·0	83·9	78·8	81·4	72·2	72	58	75	68	—	
6	12·6	10·7	13·4	12·2	82·3	84·1	83·0	84·6	80·4	x 82·9	72·9	91	90	88	90	—	●0 15 h. 30 m. [15 m.
7	13·1	13·5	13·8	13·5	81·1	83·0	80·5	83·5	79·5	81·5	76·5	89	62	70	74	2·6	●0 7 h. ●0 shower 15 h. 45 m. q. 22 h.
8	08·6	03·9	01·9	04·7	78·8	79·3	77·4	80·3	76·1	78·4	72·6	88	80	77	82	6·5	▲ Squall 1 h. 30 m. ▲ in the neighbourhood 12 h.
9	96·0	93·4	03·2	97·6	76·7	75·9	77·8	79·2	74·1	76·7	71·9	93	97	63	84	16·7	▲ 5 h. 30 m.–10 h. and 17 h. ✱ 14 h. [30 m.
10	08·6	10·3	05·8	08·2	79·4	81·3	78·7	81·6	77·1	79·6	70·5	63	56	89	69	16·0	● all night from 18 h.
11	90·6	93·4	02·6	95·5	81·3	80·9	80·0	82·0	79·5	80·7	77·1	100	71	62	78	7·2	
12	13·8	18·4	19·2	17·1	78·9	81·6	81·0	81·8	78·7	80·4	74·6	64	58	84	69	—	d. 21 h.
13	17·4	18·4	15·0	17·0	82·0	84·1	82·3	x 84·8	x 81·1	x 82·9	74·5	97	89	100	95	3·1	d. and ≡ 7 h. 30 m.–10 h.
14	11·5	11·9	13·9	12·4	82·7	80·8	80·3	83·5	79·5	81·4	79·2	98	89	56	81	1·1	●0 shower 17 h. 40 m. ⊔ 21 h.
15	02·2	05·2	04·0	03·9	81·7	82·2	83·1	83·5	79·5	82·0	73·9	64	97	93	85	2·6	● all day.
16	98·0	99·4	02·8	00·0	83·6	80·2	79·3	83·6	78·0	80·9	80·5	92	71	72	78	3·1	q. 10 h. 5 m.
17	03·9	07·4	09·2	06·8	79·9	81·8	78·7	82·4	78·9	80·3	75·1	62	56	74	64	1·8	q. ▲ 13 h. and 17 h. 30 m.
18	04·8	04·7	01·4	03·6	82·6	83·1	83·4	83·8	79·7	82·5	73·3	98	90	95	94	7·1	● all day.
19	05·4	?09·2	13·1	09·2	82·4	83·1	80·6	83·1	79·1	81·7	78·9	79	63	77	73	0·7	
20	11·9	11·1	10·4	11·1	79·7	80·3	80·1	80·4	79·2	79·9	71·7	91	86	86	88	—	
21	07·5	06·2	09·4	07·6	78·5	78·6	76·1	80·6	76·1	78·0	77·8	97	98	87	94	x 33·0	● from 0 h. ≤ in E. 20 h. 30 m.
22	12·7	13·0	11·5	12·4	76·1	77·3	76·4	77·5	73·3	76·1	72·3	68	n 53	66	62	1·7	Great black Nb. 16 h. 45 m., squalls from N. ✱2 17 h.
23	10·0	07·5	02·4	06·6	75·3	77·0	72·8	77·0	72·5	74·9	71·9	85	61	89	78	4·0	●0 7 h. ✱ 8 h. 30 m. and all day.
24	00·0	98·3	98·6	99·0	72·2	74·1	74·6	74·6	n 71·5	n 73·4	n 68·8	72	75	74	74	—	
25	97·5	95·8	93·5	95·6	73·0	76·2	74·2	76·5	72·7	74·5	n 68·8	68	63	92	74	10·4	✱ 15 h. 40 m. Fine snow at first, then
26	87·2	86·2	86·2	86·6	73·9	74·2	74·4	n 74·4	73·2	74·0	72·3	90	89	85	88	—	✱0 7 h. [continuous.
27	85·2	88·0	93·6	89·0	74·6	77·1	77·9	78·1	73·2	76·2	70·3	96	80	63	80	12·2	✱ during night. ● ✱ (sleet) 6 h. 55 m.
28	93·2	86·6	84·3	88·0	76·3	73·9	76·4	77·7	73·7	75·6	69·1	86	98	95	93	22·5	● 8 h. ✱ from 11 h. [● ▲ 14 h. 20 m.
29	87·2	84·7	83·8	85·2	75·0	77·3	75·7	78·0	74·3	76·1	68·9	82	84	95	87	5·9	● 13 h. 15 m.
Means	03·3	03·4	03·7	03·5	78·7	79·7	78·9	80·8	76·9	79·0	73·7	84	77	80	80	168·5	
Normal	09·1	08·8	09·5	09·1	78·0	80·1	78·7	80·9	77·1	79·0	73·6	84	74	81	80	59·9	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total. hr.	Per cent. of Possible. %	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
1	—	0	—	0	S	2	0·7	0·3	3	5	A.-Cu.	N	..	..	10	..	..	..	..	10	..	..	..	..	8·3
2	SSW	4	S	4	SSW	5	4·3	0·0	0	10	..	..	..	..	10	..	..	Nb.	SSW	10	..	..	Nb.	..	10·0
3	SSW	6	SSW	6	S	8	6·7	1·0	11	10	..	..	Nb.	SW	10	..	..	Cu.-Nb.	SSW	10	..	..	Nb.	..	10·0
4	SW	6	SW	4	SW	4	4·7	6·3	67	8	..	..	Nb.	SW	3	A.-Cu.	SW	..	..	4	..	..	..	..	5·0
5	WNW	3	WSW	4	SW	4	3·7	8·4	88	4	..	..	Cu.-Nb.	WNW	5	..	..	Cu.	WSW	0	..	..	..	..	3·0
6	SW	5	SSW	6	WSW	4	5·0	0·1	1	10	..	..	..	..	10	..	..	..	..	8	..	..	..	..	9·3
7	WSW	4	W	5	W	4	4·3	4·6	47	7	..	..	Nb.	WSW	5	Ci.	W	Cu.	W	3	..	..	Cu.	NW	5·0
8	SW	3	WSW	3	NW	4	3·3	3·5	36	6	..	..	Cu.-Nb.	W	7	A.-Cu.	WNW	..	..	4	..	..	Cu.-Nb.	NW	5·7
9	NW	1	WNW	1	NNW	3	1·7	0·2	2	10	..	..	Nb.	WNW	10	..	..	Nb.	NW	2	..	..	Cu.	NNW	7·3
10	NW	4	NW	4	SSW	5	4·3	6·3	64	4	..	..	Cu.	NNW	8	..	..	Cu.-Nb.	NNW	10	..	..	Nb.	..	7·3
11	SSW	4	NW	6	NW	7	5·7	0·3	3	10	..	..	Nb.	SW	10	..	..	Cu.-Nb.	NNW	7	..	..	Cu.	NNW	9·0
12	NNW	5	NW	4	SW	3	4·0	8·7	87	3	..	..	Cu.	NNW	3	..	..	Cu.	NNW	10	..	..	Nb.	..	5·3
13	WSW	4	WSW	3	SW	5	4·0	4·4	44	10	..	..	Nb. ≡	..	6	..	..	Cu.	W	10	..	..	Nb.	..	8·7
14	WSW	6	WNW	6	WSW	3	5·0	2·5	25	10	..	..	Nb.	W	9	..	..	Nb.	WNW	8	Ci.-St.	..	..	..	9·0
15	W	5	W	5	WSW	6	5·3	0·0	0	10	..	..	Nb.	W	10	..	..	Nb.	..	10	..	..	Nb.	..	10·0
16	WSW	6	WNW	7	W	5	6·0	2·4	23	10	..	..	Nb.	WSW	8	..	..	St.-Cu.	WNW	3	A.-Cu.	NW	..	..	7·0
17	WNW	5	WNW	5	W	3	4·3	5·8	57	7	..	..	Cu.-Nb.	NW	3	..	..	Cu.	WNW	7	A.-Cu.	NW	Cu.-Nb.	WNW	5·7
18	W	5	WSW	5	W	8	6·0	0·0	0	10	..	..	Nb.	W	10	..	..	Nb.	WSW	10	..	..	Nb.	WNW	10·0
19	WNW	4	WNW	4	NW	1	3·0	1·4	14	10	..	..	Cu.-Nb.	WNW	9	..	..	St.-Cu.	WNW	7	A.-Cu.	NW	..	..	8·7
20	E	2	SE	2	ESE	4	2·7	0·0	0	10	..	..	Nb.	..	10	..	..	Cu.-Nb.	SE	10	..	..	..	..	10·0
21	ESE	3	NE	6	ENE	6	5·0	0·0	0	10	..	..	Nb.	SE	10	..	..	≡ Nb.	..	10	..	..	..	..	10·0
22	NNE	5	NNE	4	NNE	6	5·0	3·7	36	7	..	..	Cu.	NE	7	..	..	Cu.	N	2	..	..	..	..	5·3
23	NNE	5	NNE	5	NE	4	4·7	2·8	26	8	..	..	Nb.	NE	6	..	..	Cu.-Nb.	NE	10	..	..	Nb.	..	8·0
24	ENE	4	E	3	ENE	4	3·7	5·2	49	7	A.-Cu.	NE	Fr.-Cu.	ENE	7	..	..	Cu.-Nb.	SSE	10	..	..	..	..	8·0
25	ENE	3	NNE	4	N	4	3·7	4·8	45	0	..	..	..	..	10	..	..	..	..	10	..	..	Nb.	..	6·7
26	NNE	2	ENE	4	NNE	1	2·3	0·0	0	10	..	..	Nb.	NE	10	..	..	Nb.	E	10	..	..	Nb.	NE	10·0
27	NW	2	WNW	1	WSW	3	2·0	0·9	8	10	..	..	Nb.	..	8	..	..	St.-Cu.	WNW	10	..	..	..	..	9·3
28	E	2	ENE	4	WSW	1	2·3	0·0	0	10	..	..	..	..	10	..	..	Nb.	..	10	..	..	..	..	10·3
29	NNW	1	ENE	3	WNW	3	2·3	0·3	3	7	..	..	Cu.-Nb.	..	10	..	..	Nb.	..	10	..	..	Nb.	N	9·3
Means	3·7		4·1		4·1		4·0	73·8	25	8·0	—	—	—	—	8·1	—	—	—	—	7·8	—	—	—	—	8·0
Normal	3·8		4·1		3·9		3·9	101·9	35	6·8	—	—	—	—	6·9	—	—	—	—	6·3	—	—	—	—	6·7

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	Remarks.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	83·6	84·3	83·5	83·9	77·3	78·8	77·1	80·0	75·3	77·7	72·3	84	77	87	83	—	
2	80·4	81·1	79·8	80·4	77·0	79·0	77·4	79·0	76·2	77·7	73·6	97	85	77	86	8·5	● till 13 h.
3	79·6	84·8	90·6	85·1	77·3	76·8	76·6	78·0	74·6	76·7	73·2	87	84	88	86	7·6	● all day.
4	99·5	02·8	05·9	02·7	76·4	77·9	77·4	78·6	75·6	77·2	73·3	65	57	57	60	—	
5	08·0	07·9	07·8	07·9	76·1	78·1	77·1	79·0	76·0	77·3	71·5	67	52	58	59	—	[35 m. ▲0 11 h. 45 m. ✲ 18 h. 30 m.
6	06·0	04·2	02·7	04·3	76·8	77·6	75·5	77·8	74·2	76·4	71·3	57	56	72	62	3·8	✲0 7 h. 35 m. ● 9 h. 20 m. ✲ 9 h.
7	98·3	98·0	99·5	98·6	73·6	76·5	73·9	*n* 76·5	72·9	*n* 74·7	70·1	87	71	82	80	0·2	✲ in past *n*
8	97·4	96·6	00·2	98·0	73·5	77·0	76·1	77·9	*n* 72·2	75·3	*n* 66·7	82	67	74	74	0·1	⌓ morning. ✲0 7 h. ✲. of short
9	02·7	03·8	04·2	03·5	75·7	78·7	76·1	80·0	74·2	76·9	68·5	70	*n* 43	74	62	—	[duration. 10 h.
10	99·9	95·6	92·3	96·0	75·0	76·7	75·7	77·5	74·2	75·8	70·3	88	73	72	78	—	
11	87·2	83·8	83·9	85·0	75·3	78·7	77·1	79·5	74·8	77·1	73·1	77	74	85	79	—	●0 17 h.
12	82·8	83·4	85·8	83·9	77·4	84·9	80·6	85·8	77·0	81·1	75·3	95	71	95	87	*x* 8·9	● about 2 h. ┳ 17 h. 45 m. ⍂2 18 h.
13	87·0	88·8	94·7	90·2	79·3	81·4	80·5	82·0	79·0	80·4	76·5	97	94	85	92	2·3	● 5 h. and 13 h. 40 m. [< in W. 20 h.
14	96·7	96·7	97·2	96·8	79·8	86·1	82·5	86·4	79·0	82·8	73·3	75	63	68	69	0·5	⍂0 ● 18 h. 15 m.
15	93·9	92·4	93·0	93·1	80·0	81·8	79·8	82·5	79·8	80·8	74·1	89	87	97	91	*x* 8·9	● 3 h. 30 m. and 6 h. ●0 14 h.
16	93·6	96·6	01·5	97·2	80·1	81·1	79·8	81·5	79·7	80·4	77·9	97	89	91	92	0·4	⍁ 20 h. 30 m.
17	04·8	05·6	04·7	05·1	79·1	81·5	80·2	84·0	78·8	80·7	70·5	98	90	95	94	—	≡2 4 h.–11 h.
18	01·9	01·9	01·8	01·8	81·3	87·3	85·7	*x* 88·4	79·9	*x* 84·5	76·8	85	65	72	74	0·7	● showers from 6 h. 30 m.–12 h.
19	96·7	95·8	97·4	96·7	83·6	82·9	82·5	84·7	*x* 81·5	83·0	80·1	80	95	92	89	2·6	
20	97·8	96·8	96·3	97·0	81·0	83·5	80·6	84·6	79·5	81·8	74·5	95	82	95	91	—	
21	92·2	90·7	90·3	91·1	80·3	81·7	79·1	82·0	78·8	80·4	73·6	100	91	94	95	0·4	≡ from 0 h.–12 h. ● 16 h.
22	91·5	00·3	94·7	95·5	78·7	79·1	77·8	79·4	77·7	78·5	77·8	91	91	87	90	1·5	Continuous ●.
23	93·4	92·2	91·0	92·2	76·6	79·0	77·4	80·3	76·0	77·9	75·2	88	73	84	82	1·6	● until 12 h. [┳14 h. 15 m. ✲ 14 h. 30 m
24	90·6	94·4	99·4	94·8	75·8	79·3	77·4	79·9	73·9	77·3	71·0	62	51	68	60	2·4	● during night. ✲. of short duration, 11 h. 10 m.
25	01·4	99·9	97·1	99·5	78·0	80·7	79·7	81·9	76·0	79·3	69·5	79	72	79	77	0·7	● showers 16 h. 45 m.–17 h. 45 m. [m.
26	95·1	97·0	98·2	96·8	78·0	80·8	79·2	81·0	77·0	79·2	76·1	79	63	67	70	4·2	● 5 h. Squall over sea and town 17 h. 15
27	97·8	89·0	77·0	87·9	78·2	80·9	81·3	81·8	76·2	79·7	72·3	85	91	83	86	6·1	● all day. Very strong wind from S. and
28	78·3	87·9	99·9	88·7	77·9	77·9	77·3	80·0	76·2	77·9	75·6	84	70	54	69	1·1	▲ 10 h. 25 m. [S.S.W. during night.
29	10·3	14·2	15·8	13·4	76·1	77·1	77·6	80·8	75·1	77·3	68·0	56	90	87	78	2·0	✲ squalls 11 h. 30 m. ✲2 12 h. 30 m.
30	18·2	21·1	23·6	21·0	79·3	83·4	80·8	84·0	77·1	80·9	72·8	95	74	91	87	3·6	● during night. ●0 4 h. [● 21 h.
31	25·4	25·1	24·0	24·8	80·4	83·5	79·5	84·5	78·6	81·3	73·8	89	57	91	79	—	
Means	96·5	97·2	97·9	97·2	77·9	80·3	78·7	81·3	76·7	79·0	73·2	83	74	81	79	68·1	
Normal	06·4	06·4	06·8	06·6	78·9	81·7	79·6	82·5	77·8	80·1	74·1	84	73	82	79	61·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).			Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.														Mean Amount.
								Upper.		Lower.			Upper.		Lower.			Upper.		Lower.	
	7 h.	14 h.	21 h.		Total.	Per cent. of Possible.	Tenths.	Type.	Direction.	Type.	Direction.	Tenths.	Type.	Direction.	Type.	Direction.	Tenths.	Type.	Direction.	Type.	Direction.	
							7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%																
1	SW 4	S 4	ENE 3	3·7	7·6	70	2	..	..	Fr.-Cu.	SW	7	..	..	Cu.-Nb.	S	3	..	..	..	..	4·0
2	NNE 4	NNE 3	NNW 2	3·0	0·7	6	10	..	..	Nb.	..	9	..	..	Cu.-Nb.	NNE	5	..	..	..	..	8·0
3	NNE 5	N 6	NNE 6	5·7	0·2	2	10	..	..	Nb.	N	10	..	..	Nb.	..	10	..	..	Nb.	..	10·0
4	NNE 5	NNE 5	NNE 5	5·0	0·3	3	7	..	..	Cu., Cu.-Nb.	NE	5	..	..	Cu.	N	2	..	..	..	..	4·7
5	NNE 4	N 4	N 4	4·0	9·9	81	6	..	..	Cu.	NE	1	..	..	..	..	4	..	..	..	..	3·7
6	NNW 4	N 4	N 4	4·0	3·3	29	9	..	..	Cu.-Nb.	N	6	..	..	Cu.	NNE	10	..	..	..	..	8·3
7	NE 2	NE 4	E 3	3·0	5·1	45	6	A.-Cu.	W	Cu.-Nb., Nb.	..	3	..	..	..	..	3	..	..	..	..	4·0
8	— 0	S 2	SE 1	1·0	3·8	34	10	..	..	..	..	6	Ci.-St.	..	Cu.	S	5	A.-Cu.	SE	..	..	7·0
9	E 3	ENE 5	ENE 4	4·0	10·3	90	7	A.-Cu.	SE	..	..	0	..	..	..	..	0	..	..	..	..	2·3
10	ENE 6	ENE 5	ENE 5	5·3	3·5	31	4	..	..	Cu.	E	10	..	..	Ci.-Nb.	E	10	..	..	..	..	8·0
11	ENE 6	NE 5	ENE 4	5·0	1·7	15	8	..	..	..	..	8	..	..	..	..	10	..	..	..	..	8·7
12	ENE 4	E 3	NE 3	3·3	5·4	47	7	A.-Cu.	E	Cu.-Nb.	SE	7	A.-Cu.	SSW	..	..	10	..	..	..	..	8·0
13	NE 2	SE 3	SSW 3	2·7	0·6	5	8	A.-Cu.	SSE	Nb.	..	10	..	..	Nb.	SE	1	..	..	..	..	6·3
14	ENE 4	ESE 3	ENE 2	3·0	7·6	65	5	Ci.-Cu.	S	..	..	5	Ci., A.-Cu.	S	..	..	4	..	..	Fr.-Cu.	SSE	4·7
15	ENE 2	ESE 1	ENE 2	1·7	0·2	2	10	..	..	Nb.	ESE	10	..	..	Nb.	..	9	{Ci.-Cu. {A.-Cu.	{S {SW}	..	..	9·7
16	NNE 3	NNW 3	NW 2	2·7	0·3	3	10	..	..	Nb.	..	10	..	..	Cu.-Nb.	NNW	5	Ci.-St.	SE	..	..	8·3
17	— 0	SE 2	ENE 3	1·7	3·2	27	10	..	..	≡	..	7	..	..	..	..	10	A.-Cu.	SW	..	..	9·0
18	E 3	SSE 2	ESE 3	2·7	7·1	60	10	A.-Cu.	SSW	Nb.	SSW	6	Ci.	S	..	..	8	..	..	St.-Cu.	SW	8·0
19	ESE 3	ESE 2	SSE 2	2·3	0·5	5	10	A.-Cu.	SSE	Cu.-Nb.	SSE	10	..	..	Nb.	..	5	A.-Cu.	SW	..	..	8·3
20	NE 1	NW 2	NW 1	1·3	3·8	31	10	..	..	Cu.-Nb.	NE	8	..	..	..	..	5	..	..	..	..	7·7
21	WSW 2	SW 3	SW 4	3·0	0·0	0	10	..	..	≡	..	10	..	..	..	..	10	..	..	Nb.	..	10·0
22	NNW 2	N 3	NE 4	3·0	0·0	0	10	..	..	Nb.	N	10	..	..	Nb.	N	10	..	..	Nb.	..	10·0
23	NNE 3	NNE 3	NE 2	2·7	1·5	12	10	..	..	Nb.	NE	10	..	..	Cu.-Nb.	NE	10	..	..	..	..	10·0
24	NNW 3	WNW 4	WNW 3	3·3	6·2	50	6	..	..	Cu.-Nb.	NW	6	..	..	Cu.	W	6	..	..	..	..	6·0
25	WSW 4	WSW 4	SW 6	4·7	6·7	55	5	A.-Cu.	WSW	Cu.	WSW	6	..	..	Cu.-Nb.	WSW	2	..	..	..	..	4·3
26	WSW 3	WSW 4	WSW 5	4·0	6·9	56	9	..	..	Nb.	W	4	..	..	Cu.	W	6	..	..	..	..	6·3
27	SW 3	S 4	S 7	4·7	0·0	0	10	..	..	Nb.	SSW	10	..	..	Nb.	SW	10	..	..	Nb.	..	10·0
28	SW 7	WNW 6	WNW 6	6·3	0·9	7	7	..	..	Cu.-Nb.	WSW	10	..	..	Nb.	WNW	8	..	..	..	..	8·3
29	W 2	SW 2	WSW 1	1·7	6·2	50	4	Ci.	NW	..	..	8	..	..	Cu.-Nb.	W	8	..	..	Cu.-Nb.	..	6·7
30	SW 3	SW 3	W 1	2·3	3·7	21	10	..	..	..	..	7	..	..	Cu., Cu.-Nb.	WNW	8	..	..	..	..	8·3
31	NNW 1	N 3	N 2	2·0	5·1	40	10	..	..	..	..	6	A.-Cu.	SSE	..	..	0	..	..	..	..	5·3
Means	3·2	3·5	3·3	3·3	112·4	31	7·7	—	—	—	—	7·3	—	—	—	—	6·4	—	—	—	—	7·1
Normal	3·8	4·2	3·8	3·9	150·6	41	7·0	—	—	—	—	6·3	—	—	—	—	5·7	—	—	—	—	6·3

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	21·2	18·2	16·8	18·7	79·2	85·3	80·6	85·5	79·0	82·0	72·3	89	61	76	75	—	Very fine.
2	13·8	13·1	13·6	13·5	79·8	86·5	82·6	88·2	78·8	83·2	75·3	91	72	72	78	—	Very fine.
3	12·3	11·8	10·6	11·6	80·8	83·7	79·6	85·0	78·9	81·6	*n* 69·6	90	73	91	85	—	Very fine.
4	10·8	11·4	10·6	11·0	80·3	81·7	79·5	82·6	79·3	80·7	73·2	82	63	75	73	—	
5	10·4	11·2	13·2	11·6	79·7	80·5	79·7	*n* 81·9	78·8	80·1	73·5	77	65	77	73	1·9	● 20 h. 15 m.
6	13·0	10·0	06·4	09·8	78·5	80·3	78·3	82·0	77·2	*n* 79·3	75·1	77	77	89	81	—	●⁰ 18 h.
7	06·6	08·4	13·1	09·4	78·1	82·0	79·1	83·0	*n* 75·6	79·6	70·3	92	67	83	81	—	Fine.
8	14·0	14·4	15·0	14·4	80·0	83·1	79·9	84·8	79·2	81·4	75·0	83	52	77	71	—	Cloudless sky.
9	15·4	16·8	17·6	16·6	81·0	83·5	80·4	85·2	78·0	81·6	72·8	82	81	77	80	—	
10	19·2	17·2	13·5	16·7	81·1	83·4	80·0	84·4	78·9	81·6	75·2	58	46	81	62	—	Very fine.
11	07·1	07·9	10·6	08·4	81·4	83·0	80·6	84·6	78·9	81·7	71·5	94	58	74	75	0·1	d. 6 h. 30 m.
12	06·2	00·8	00·8	02·7	80·6	82·9	82·5	83·1	79·8	81·8	74·5	89	98	92	93	3·1	●⁰ 6 h. 15 m. ● 9 h. 45 m. ≡ from
13	99·2	99·4	01·5	00·0	82·0	83·5	80·6	84·6	77·8	81·7	79·1	78	64	64	69	—	●⁰ 11 h. 40 m. [13 h. ≡² 16 h.
14	07·0	09·1	11·6	09·2	81·1	82·1	80·5	84·5	78·4	81·3	74·9	63	68	72	68	2·1	●⁰ 5 h. 45 m. ● 7 h. 10 m.
15	14·4	16·3	18·2	16·3	80·1	83·2	80·7	84·5	79·0	81·5	75·6	70	63	76	70	0·5	● 12 h. 15 m. ⊓ 20 h. 30 m.
16	17·0	14·6	10·3	13·9	80·0	81·0	82·2	83·1	77·4	80·7	70·7	85	86	100	90	3·9	● 11 h. 45 m. ≡ ● from 15 h. 30 m.
17	03·2	00·6	98·2	00·7	82·3	82·7	81·3	84·6	80·8	82·3	81·3	83	91	78	84	2·4	Frequent ● showers.
18	95·4	96·0	95·5	95·6	81·2	83·3	80·4	84·1	79·0	81·6	77·2	72	61	75	69	*x* 4·4	●⁰ shower 11 h. 45 m. ●⁰ 21 h.
19	92·0	92·3	90·7	91·6	80·0	81·0	79·6	83·0	77·4	80·2	75·0	70	75	79	75	1·7	●⁰ 4 h. and 14 h. ● showers 20 h. 45 m.
20	89·2	91·9	92·6	91·2	79·6	83·1	81·1	84·0	78·1	81·2	74·3	66	61	73	67	0·3	●⁰ shower 11 h. 15 m.
21	92·8	90·6	89·0	90·7	80·4	80·4	79·8	82·1	79·6	80·5	76·4	77	91	92	87	2·4	Continuous ●.
22	89·8	96·4	03·8	96·7	80·6	83·2	80·4	84·4	79·0	81·5	77·2	91	69	70	77	1·6	● in morning.
23	10·2	12·8	14·8	12·7	81·4	85·3	82·0	86·0	79·0	82·7	73·1	83	69	85	79	—	●⁰ shower 5 h. 15 m.
24	14·4	14·7	15·4	14·8	81·4	86·3	84·4	88·0	81·0	84·2	77·3	93	66	71	77	—	●⁰ 6 h. 45 m.
25	15·8	15·0	14·6	15·1	83·2	91·1	85·0	92·1	81·2	86·5	75·8	82	46	69	66	—	Fine.
26	12·8	12·2	12·2	12·4	86·1	93·5	87·1	*x* 94·8	*x* 83·6	*x* 89·0	78·8	74	*n* 42	79	65	—	⊕ 14 h.
27	12·7	12·7	12·8	12·8	85·1	88·0	83·6	89·6	83·1	85·9	77·9	78	65	80	74	—	⊕ 17 h.
28	11·2	09·5	09·2	09·9	85·0	92·3	86·3	93·5	82·5	87·9	79·0	71	60	66	66	—	┳ in distance between 9 h. and 12 h.
29	08·8	06·6	06·7	07·4	85·3	91·6	85·3	92·0	83·3	87·5	79·2	71	48	64	61	—	Fine. [S.E. sky overcast 11 h. 45 m.
30	04·7	03·4	02·6	03·5	85·9	90·5	85·7	92·0	82·6	87·3	79·9	72	60	78	70	—	Fine.
Means	08·0	07·8	08·0	08·0	81·4	84·6	81·6	85·9	79·5	82·6	75·4	79	67	78	75	24·4	
Normal	08·7	08·7	09·1	08·8	81·1	84·3	81·4	85·2	79·6	82·3	75·9	82	66	81	76	45·7	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	NNE	3	NE	4	NE	4	3·7	12·8	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
2	NE	3	S	1	N	3	2·3	12·9	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
3	N	1	SW	2	W	1	1·3	11·2	87	0	..	..	..	..	0	..	..	..	..	2	..	..	..	..	0·7
4	NW	4	NNW	5	NW	3	4·0	8·9	69	10	..	..	Cu.-Nb.	N	3	..	..	Cu.	N	0	..	..	..	..	4·3
5	N	3	N	5	NNE	4	4·0	9·8	75	7	..	..	Cu.-Nb.	NNE	4	Ci.	ENE	..	..	10	..	..	Nb.	..	7·0
6	NNE	4	N	4	N	2	3·3	3·4	26	8	..	..	Cu.	NE	8	A.-Cu.	ENE	Cu.	NE	6	..	..	..	..	7·3
7	NNE	1	NE	4	NE	3	2·7	12·0	91	1	..	..	..	..	3	..	..	Cu.	ENE	4	..	..	..	..	2·7
8	NNE	3	N	4	NW	3	3·3	13·2	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
9	NNW	2	NNE	3	NNW	2	2·3	8·4	63	2	Ci.-Cu.	NE	..	..	6	Ci.	NW	Cu.	NW	0	..	..	..	..	2·7
10	NE	3	NNW	4	N	2	3·0	13·3	100	1	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·3
11	WSW	4	WNW	6	WNW	3	4·3	9·5	71	10	..	..	Nb.	W	3	..	..	Cu.	NW	2	Ci.	..	..	..	5·0
12	SW	4	WSW	6	WSW	6	5·3	0·0	0	10	..	..	Nb.	W	10	..	..	Nb. ≡	WSW	6	..	..	Cu.-Nb.	WNW	8·7
13	WSW	6	WSW	6	W	7	6·3	10·6	79	6	A.-Cu.	W	Nb.	W	1	..	..	..	..	4	..	..	Cu.	NW	3·7
14	W	5	W	6	WNW	4	5·0	11·4	84	6	A.-Cu.	NW	Cu.-Nb.	WNW	8	..	..	Nb.	WNW	3	Ci.	..	..	..	5·7
15	WNW	3	W	4	WNW	2	3·0	8·1	58	3	St.	..	Cu.	NW	7	A.-Cu.	NNW	Cu.-Nb.	NW	5	A.-Cu.	NNW	..	..	5·0
16	SSW	1	S	3	WSW	4	2·7	0·2	1	7	A.-Cu.	..	..	..	10	..	..	Nb.	..	10	..	..	≡	..	9·0
17	WSW	4	WSW	6	W	6	5·3	1·7	12	7	..	..	Nb.	W	6	..	..	Cu.-Nb.	W	8	..	..	Cu.-Nb.	NW	7·0
18	WNW	6	W	6	W	5	5·7	9·2	67	6	..	..	Cu.-Nb., Nb.	WNW	6	A.-Cu.	WNW	Cu.	WNW	9	..	..	..	..	7·0
19	W	6	WSW	7	WSW	4	5·7	7·4	53	5	..	..	..	..	9	..	..	Nb.	..	5	..	..	Cu.-Nb.	..	6·3
20	WSW	4	WSW	4	SW	3	3·7	11·6	84	3	Ci.-Cu., A.-Cu.	W	Cu.	WSW	2	..	..	Cu.	WSW	9	..	..	..	..	4·7
21	SW	3	S	3	NE	3	3·0	1·4	10	7	..	..	..	..	10	..	..	Nb.	S	10	..	..	Nb.	..	9·0
22	NW	3	NW	5	NW	4	4·0	8·8	63	10	..	..	Nb.	..	5	..	..	Cu.	N	0	..	..	..	..	5·0
23	W	3	WSW	3	SW	1	2·3	8·7	61	4	..	..	Cu.	WNW	6	..	..	Fr.-Cu.	WSW	8	..	..	..	..	6·0
24	SSW	3	SSW	4	SSW	3	3·3	3·7	26	10	A.-Cu.	..	Nb.	SW	6	Ci.	SW	..	..	3	..	..	..	..	6·3
25	SE	2	S	3	ENE	4	3·0	14·2	100	2	Ci.	NW	..	..	3	Ci.	WNW	..	..	1	..	..	..	..	2·0
26	ENE	3	SSW	2	NE	3	2·7	12·0	84	5	A.-Cu.	SW	..	..	6	Ci.-St.	..	..	..	2	..	..	..	..	4·3
27	N	3	NNW	4	N	3	3·3	14·3	100	2	Ci.	..	..	..	3	Ci.	SW	..	..	0	..	..	..	..	1·7
28	NNE	4	NE	4	NE	5	4·3	11·6	80	2	A.-Cu.	..	..	..	7	A.-Cu.	E	..	..	2	..	..	..	..	3·7
29	NE	5	ENE	6	NE	6	5·7	14·3	99	2	..	..	..	..	0	..	..	..	..	2	..	..	..	..	1·3
30	ENE	5	ENE	5	ENE	4	4·7	13·9	96	1	..	..	..	..	3	..	..	..	..	3	..	..	..	..	2·3
Means	3·5		4·3		3·6		3·8	278·5	68	4·6	—	—	—	—	4·5	—	—	—	—	3·8	—	—	—	—	4·3
Normal	3·6		4·0		3·6		3·7	216·8	53	5·9	—	—	—	—	5·0	—	—	—	—	5·2	—	—	—	—	5·4

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	REMARKS.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	02·3	01·9	02·7	02·3	86·0	89·7	84·2	91·9	82·3	86·8	78·3	79	68	97	81	3·3	●⁰ 8 h. 15 m. ┳ in S. 10 h. ● 14 h. 40 m.
2	03·2	03·6	03·6	03·5	84·0	88·5	83·6	89·6	81·3	85·4	79·2	100	78	92	90	—	≡ 4 h. 30 m.–6 h. Ground steaming 9 h.
3	02·8	01·9	99·8	01·5	83·0	86·8	83·5	87·6	81·7	84·5	78·3	97	71	93	87	—	≡ ●⁰ 4 h.
4	03·4	90·4	90·7	91·5	84·3	93·1	88·4	93·5	82·9	88·4	80·8	90	59	77	75	—	●⁰ 8 h. 30 m.
5	86·3	82·7	85·2	84·7	88·3	90·4	84·6	92·4	83·9	87·9	81·6	76	78	89	81	0·5	● 13 h. 45 m. ●⁰ showers in afternoon.
6	88·0	91·1	94·7	91·2	84·8	86·1	83·6	88·6	83·0	85·2	80·5	90	76	83	83	0·9	● 13 h. 30 m. and 14 h. 45 m.
7	94·8	94·0	95·4	94·8	82·7	85·2	80·1	87·9	79·6	83·1	79·3	95	65	84	81	9·0	● 4 h. 30 m. ● squall 14 h. 3 m.
8	03·1	07·6	07·1	05·9	80·7	83·7	81·5	*n* 84·4	*n* 78·3	*n* 81·7	75·7	58	44	89	64	1·0	● 4 h. and 8 h. 30 m.
9	00·6	00·7	05·1	02·2	82·7	84·1	82·1	85·8	81·4	83·2	80·4	93	98	87	93	*x* 9·3	● 4 h.–14 h.
10	11·6	13·5	13·8	13·0	82·4	85·1	82·1	86·1	78·9	82·9	*n* 70·6	80	63	76	73	—	⊕ 6 h. 30 m.
11	12·4	12·2	12·0	12·2	82·7	85·0	84·9	88·0	81·7	84·5	75·7	93	99	96	96	1·5	● 4 h.
12	09·9	08·0	07·5	08·4	84·7	89·4	82·5	90·2	82·5	85·9	79·3	100	74	98	91	8·1	≡ 6 h.–8 h. ● 16 h.
13	08·2	10·0	10·0	09·4	83·2	84·3	82·7	85·6	80·6	83·3	78·7	73	73	98	81	1·1	● from 17 h. 30 m.
14	08·8	11·8	08·8	09·8	83·2	85·1	84·0	86·6	82·1	84·2	80·1	91	74	100	88	2·6	● 15 h. 15 m. ≡ from 20 h. all night.
15	05·9	09·1	12·2	09·1	84·0	86·3	82·5	86·7	82·3	84·4	83·1	100	77	96	91	—	≡ till 8 h.
16	14·7	15·6	17·1	15·8	84·1	88·9	84·5	90·7	80·5	85·7	73·7	91	60	94	82	—	≡ from S. 9 h. Ground steaming 9 h.
17	19·5	19·4	20·0	19·6	83·5	89·8	83·6	92·2	82·8	85·4	83·2	100	78	97	92	0·2	≡ 3 h.–8 h. [30 m.
18	21·0	21·4	21·5	21·2	87·3	94·9	87·8	96·0	83·0	89·8	81·3	86	59	80	75	—	Cloudless sky.
19	21·6	19·6	19·0	20·0	90·1	95·3	90·0	96·6	87·1	91·8	83·7	78	65	72	72	—	Very fine.
20	19·0	18·3	17·5	18·3	91·3	98·0	91·4	*x* 99·5	87·0	93·4	82·3	65	*n* 41	67	58	—	Fine. Glow in the W. 21 h.
21	17·2	15·9	14·4	15·8	90·3	97·5	93·7	98·5	*x* 88·0	*x* 93·6	81·1	68	50	52	57	—	Fine.
22	15·2	17·5	18·3	17·0	85·9	89·3	84·1	92·4	85·4	87·4	81·9	92	76	84	84	—	●⁰ 9 h. 40 m. and 10 h.
23	16·8	14·3	10·3	13·9	84·7	90·3	84·6	91·8	83·0	86·9	79·4	87	61	75	74	—	⊕ 7 h. Glow in W.S.W. 21 h.
24	04·6	01·0	97·6	01·1	86·3	88·0	88·1	91·6	83·4	87·5	79·2	87	79	88	85	—	Nb. clouds passing 20 h. and 21 h.
25	97·4	01·4	05·1	01·2	85·1	86·7	82·6	88·0	82·0	84·9	80·7	86	65	82	78	—	
26	08·0	07·2	06·2	07·1	83·8	88·3	86·0	89·3	80·2	85·5	72·4	73	52	75	67	—	
27	04·8	04·4	05·4	04·8	85·0	90·9	83·3	91·0	82·5	86·5	78·2	87	45	92	75	—	
28	06·4	07·4	08·4	07·4	85·8	88·4	84·1	90·0	81·9	86·0	75·2	70	64	92	75	—	
29	09·5	09·6	10·8	10·0	86·7	90·8	85·9	91·9	82·4	87·5	77·3	65	47	81	64	—	
30	11·5	13·2	15·2	13·4	86·1	88·0	85·5	91·3	84·8	87·1	82·1	78	73	76	76	—	
31	20·3	18·8	18·8	19·4	85·1	88·8	83·9	90·2	82·5	86·1	74·9	74	56	91	74	—	⊕ 7 h.
Means	07·7	07·9	08·2	07·9	85·1	88·9	84·8	90·5	82·6	86·4	79·0	84	67	86	79	37·5	
Normal	09·6	09·8	10·3	09·9	84·0	87·4	83·7	88·5	81·9	85·1	78·9	81	66	81	76	41·2	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).						Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.																Mean Amount.
	7 h.		14 h.		21 h.			Total.	Per cent. of Possible.	Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		
											Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.	
										7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir.	(0–12)	Dir.	(0–12)	Dir.	(0–12)		hr.	%																
1	ENE	2	SSE	1	NE	3	2·0	4·9	34	4	Ci., A.-Cu.	..	..	..	10	..	..	Nb.	NE	6	..	..	..	..	6·7
2	ENE	1	SW	2	WSW	1	1·3	3·3	23	9	..	..	..	..	6	A.-Cu.	SW	..	..	6	..	..	..	..	7·0
3	SW	1	SW	2	NE	2	1·7	3·2	22	10	..	..	≡	..	8	..	..	..	..	10	..	..	..	..	9·3
4	ENE	4	S	3	S	3	3·3	5·8	39	9	A.-Cu.	S	..	..	4	..	..	..	..	10	..	..	..	..	7·7
5	ENE	4	SSE	4	SW	5	4·3	2·7	18	7	..	..	St.-Cu.	SW	8	..	..	St.-Cu.	SE	10	..	..	..	..	8·3
6	SSW	4	SSW	4	SW	5	4·3	2·2	15	8	..	..	(Cu. Nb.	(SW SSW)	8	..	..	St.-Cu.	SW	8	..	..	..	..	8·0
7	SW	4	SW	5	WSW	6	5·0	3·6	24	10	..	..	Nb.	SW	8	..	..	Cu.-Nb.	SW	10	..	..	Nb.	WSW	9·3
8	W	6	WSW	6	SW	4	5·3	10·4	70	6	A.-Cu.	NW	Cu., Cu.-Nb.	WNW	2	..	..	Cu.	W	10	..	..	Nb.	..	6·0
9	SSW	5	WSW	3	NNW	2	3·3	1·7	11	10	..	..	Nb.	SSW	10	..	..	Nb.	WSW	7	A.-Cu.	W	St.-Cu.	SW	9·0
10	W	4	WSW	4	SW	1	3·0	8·9	59	4	Ci.	SW	Cu.	W	6	..	..	Cu.	W	6	A.-Cu.	SW	St.-Cu.	WSW	5·3
11	SW	3	SW	1	—	0	1·3	0·4	3	4	..	..	Nb.	..	10	..	..	Nb.	..	10	..	..	..	..	8·0
12	SE	1	SSW	2	NE	1	1·3	3·9	24	10	..	..	≡	..	7	A. Cu.	W	..	..	8	A.-Cu.	SW	..	..	8·3
13	NNW	4	WNW	5	WSW	3	4·0	6·8	45	3	Ci.	..	Cu.	NW	8	..	..	Cu., Cu.-Nb.	WNW	10	..	..	Nb.	..	7·0
14	WNW	4	WSW	4	WSW	4	4·0	2·7	18	7	Ci., A.-Cu.	..	..	..	10	..	..	..	..	10	..	..	≡	..	9·0
15	WSW	5	W	4	W	3	4·0	3·9	26	10	..	..	≡	..	6	..	..	Cu.	WNW	0	..	..	..	..	5·3
16	W	1	WSW	2	N	2	1·7	13·5	88	3	Ci.	SW	..	..	3	Ci.	WSW	..	..	10	..	..	..	..	5·3
17	NNE	2	NNE	3	NE	4	3·0	10·8	71	10	..	..	≡	..	3	Ci.	W	..	..	4	Ci.	..	Cu.	NE	5·7
18	NE	3	ENE	4	ENE	4	3·7	15·4	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
19	ENE	3	ENE	5	ENE	5	4·3	15·4	100	2	Ci.	..	..	..	0	..	..	..	..	0	..	..	..	..	0·7
20	SE	2	SW	1	NE	4	2·3	15·5	100	2	Ci.	..	..	..	2	Ci.	..	..	..	4	Ci.	..	..	..	2·7
21	SSE	2	S	3	SE	1	2·0	15·5	100	2	Ci.	..	..	..	2	Ci.	..	..	..	3	Ci.	..	..	..	2·3
22	WNW	3	W	3	NW	3	3·0	7·3	47	7	..	..	Fr.-Cu.	WSW	7	..	..	St.-Cu.	WNW	1	..	..	..	..	5·0
23	NNE	3	Var.	1	NE	2	1·7	11·4	73	7	Ci.-St.	..	..	..	7	..	..	..	..	3	Ci.	..	..	..	5·7
24	SE	1	S	2	E	2	1·7	5·1	32	8	..	..	..	..	10	..	..	..	..	10	..	..	Cu.-Nb.	..	9·3
25	SW	3	WSW	4	W	3	3·3	8·6	55	8	..	..	Cu.-Nb.	SSW	6	..	..	Cu.	WNW	2	A.-Cu.	SSW	..	..	5·3
26	SSW	2	ENE	3	S	2	2·3	13·9	89	3	..	..	Cu.	SSW	2	A.-Cu.	..	..	..	10	..	..	..	..	5·0
27	SSW	3	SW	2	NNW	1	2·0	11·4	73	6	..	..	Cu., Cu.-Nb.	S	1	..	..	Cu.	W	1	A.-Cu.	..	..	..	2·7
28	NNW	1	NW	2	NNE	3	2·0	12·4	78	1	A.-Cu.	..	..	..	6	..	..	Cu., Cu.-Nb.	SW	3	..	..	Fr.-Cu.	SW	3·3
29	ENE	3	ENE	4	NNE	2	3·0	10·3	65	6	A.-Cu.	SW	Cu.	SSE	3	Ci.-Cu.	SSW	..	..	10	..	..	..	..	6·3
30	—	0	SW	2	NW	1	1·0	4·8	31	9	..	..	..	..	10	..	..	..	..	0	..	..	..	..	6·3
31	NW	3	WSW	4	NW	1	2·7	15·1	95	3	Ci.-St.	..	..	..	4	..	..	Cu.	NW	1	Ci.	..	..	..	2·7
Means	2·8		3·1		2·7		2·8	250·8	53	6·1	—	—	—	—	5·7	—	—	—	—	5·9	—	—	—	—	5·9
Normal	3·5		3·9		3·4		3·6	254·6	54	6·3	—	—	—	—	5·4	—	—	—	—	5·0	—	—	—	—	5·6

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	REMARKS.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	14·7	13·9	12·4	13·8	85·1	89·9	85·5	91·0	82·1	86·7	73·7	88	62	94	81	0·4	⊕ 12 h. ● 18 h. 50 m.
2	12·6	12·8	11·9	12·4	86·7	87·3	83·4	89·6	83·0	86·0	79·9	81	64	80	75	—	
3	11·5	12·8	12·4	12·3	84·5	86·4	83·3	88·0	81·8	84·8	77·6	71	*n* 50	73	65	—	
4	07·6	02·4	96·2	02·2	84·3	84·8	85·3	*n* 85·8	81·4	84·3	75·1	73	87	94	85	2·6	●⁰ 4 h. 15 m. ● 11 h. 40 m., 13 h. 30 m., [and 21 h.
5	94·2	96·6	00·0	97·0	84·1	86·7	84·3	88·0	83·0	85·2	80·9	89	70	84	81	0·7	● 6 h. 45 m.
6	01·0	02·4	03·1	02·2	84·1	87·0	84·2	88·6	82·0	85·1	80·5	75	57	81	71	2·9	● 7 h. 10 m. and 10 h.
7	01·5	01·6	02·4	01·9	84·2	86·2	83·7	88·4	82·0	84·9	78·7	81	54	69	68	—	●⁰ 7 h.
8	02·3	02·6	02·7	02·6	84·6	85·6	82·0	87·4	79·5	83·8	*n* 71·8	61	59	78	66	—	Ci. radiating from W. and S.W. 7 h.
9	05·0	08·2	10·7	08·0	84·2	88·2	83·4	88·5	79·8	84·8	72·1	75	53	73	67	0·2	● 4 h. Ci. radiating from W. and [S.S.W. 21 h.
10	14·3	17·0	18·8	16·7	85·2	88·4	84·9	89·3	81·2	85·8	76·2	73	65	72	70	—	
11	18·2	16·0	15·6	16·6	85·1	87·9	83·6	89·5	82·0	85·6	76·5	76	60	86	74	—	●⁰ 8 h. 35 m.
12	13·0	10·7	08·2	10·6	84·6	85·7	82·9	87·6	82·3	84·6	77·4	74	60	79	71	—	
13	05·5	06·6	08·3	06·8	82·8	87·2	85·5	88·5	82·6	85·3	75·7	90	59	75	75	—	d. 6 h. 35 m.
14	11·0	13·0	14·2	12·7	84·4	85·0	82·5	86·5	79·6	*n* 83·6	77·6	71	74	85	77	—	
15	13·6	13·6	14·4	13·9	85·0	89·4	84·4	91·7	*n* 79·2	85·9	73·2	77	64	83	75	—	Red sunrise.
16	14·6	14·7	12·8	14·0	84·6	88·0	84·9	88·5	82·6	85·7	77·7	68	57	81	69	—	
17	11·6	09·6	09·4	10·2	85·0	88·0	85·1	89·7	84·3	86·4	82·0	77	68	83	76	—	
18	08·2	08·6	08·6	08·4	84·1	88·3	83·3	89·0	82·2	85·4	82·1	86	67	91	81	—	
19	08·3	11·8	13·9	11·2	85·4	87·5	84·3	88·3	82·3	85·6	74·9	83	62	84	76	—	
20	15·9	17·4	18·0	17·1	86·0	90·2	84·7	91·0	82·7	86·9	76·3	61	52	86	66	—	
21	17·8	17·4	15·6	17·0	85·5	88·5	85·7	89·5	82·3	86·3	73·1	82	63	82	76	—	⊕ 9 h. 30 m. ●⁰ 17 h. 15 m.
22	10·7	07·2	06·4	08·2	87·1	90·9	89·3	*x* 92·5	83·2	*x* 88·6	78·5	77	66	68	70	0·2	⊕ 6 h. 30 m. ● 11 h. 50 m. and 13 h.
23	06·2	06·3	07·2	06·6	87·6	89·1	86·8	91·9	*x* 85·8	88·2	84·8	96	80	95	90	*x* 4·2	● 4 h. ●⁰ 13 h. 45 m. ● 16 h. 45 m.
24	07·6	10·4	10·4	09·5	85·4	87·5	85·9	90·3	84·7	86·8	81·9	95	79	90	88	1·0	● began 4 h. 40 m. and continued during [morning.
25	10·6	10·6	10·3	10·4	86·7	89·8	87·1	91·0	84·0	87·7	78·9	89	68	89	82	—	●⁰ shower 15 h. 40 m.
26	06·4	03·5	02·7	04·3	86·3	87·2	86·0	89·4	85·5	86·9	84·9	92	89	93	91	0·7	Rainy day.
27	01·9	02·4	02·2	02·2	86·1	86·4	86·1	88·0	85·3	86·4	82·4	96	96	93	95	1·5	● 4 h. 15 m.
28	03·2	06·2	08·4	05·9	85·8	88·9	85·8	90·5	84·8	87·2	84·0	93	74	83	83	0·3	Continuous ●⁰ from 4 h.
29	09·8	09·6	09·9	09·8	85·7	88·8	86·6	90·6	84·0	87·1	79·6	86	63	87	79	0·8	● 16 h. 30 m.
30	07·8	12·2	13·6	11·2	86·4	89·1	85·0	90·0	83·1	86·7	84·1	87	60	90	79	—	
Means	08·9	09·3	09·4	09·2	85·2	87·8	84·9	89·3	82·6	86·0	78·4	81	66	83	77	15·5	
Normal	10·4	10·6	10·7	10·6	86·6	89·9	86·2	91·1	84·5	87·7	81·5	84	67	83	78	48·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).			Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.															Mean Amount.
							7 h.					14 h.				21 h.						
							Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		
								Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.	
	7 h.	14 h.	21 h.		Total.	Per cent. of Possible.	7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%																
1	SW 3	W 3	WSW 4	3·3	13·1	82	3	Ci.-Cu.	W	Fr.-Cu.	SW	5	Ci.	WSW	..	..	10	..	..	Nb.	W	6·0
2	N 3	NW 3	NW 3	3·0	11·7	73	6	A.-Cu.	W	..	..	7	Ci., A.-Cu.	WSW	Cu.	WSW	2	Ci.	W	..	..	5·0
3	NW 3	NW 5	NW 3	3·7	12·6	79	7	..	..	Cu.	NNW	2	..	..	Cu.	NNW	2	Ci.	..	..	..	3·7
4	SW 4	SSW 5	SSW 6	5·0	1·8	1	8	A.-Cu.	SW	Cu.-Nb.	WSW	10	..	..	Nb.	SSW	10	..	..	Nb.	..	9·3
5	WSW 6	WSW 6	W 6	6·0	10·6	66	8	..	..	Cu.-Nb.	W	6	..	..	Cu.	W	7	..	..	Cu.-Nb.	W	7·0
6	SW 5	W 5	WSW 4	4·7	7·9	49	10	..	..	Cu.-Nb.	W	3	..	..	Cu.	WSW	6	..	..	Cu.	WSW	6·3
7	SW 4	WSW 4	WSW 3	3·7	7·0	44	6	A.-Cu.	SW	Cu.-Nb.	WSW	7	A.-Cu.	WSW	Fr.-Cu.	WSW	6	A.-Cu.	SW	Cu.	WSW	6·3
8	SW 2	N 2	NW 1	1·7	8·4	53	6	Ci.-Cu.	SW	Cu.	WSW	9	..	..	Cu.-Nb.	SW	6	Ci.	SW	Fr.-Cu	NW	7·0
9	NW 3	WSW 4	NW 1	3·0	12·6	78	3	..	..	Cu.	NW	3	Ci.	NW	Cu.	WNW	4	Ci.	WNW	..	..	3·3
10	NW 4	WNW 5	WNW 2	4·3	15·1	94	4	..	..	Cu.	NW	7	..	..	Cu.	WNW	8	..	..	Cu.-Nb.	NW	6·3
11	WSW 3	WSW 3	NW 4	2·7	5·7	36	6	{Ci.-Cu. A.-Cu.}	{NW WNW}	Cu.	W	6	A.-Cu.	..	Cu.	..	5	Ci.-St., A.-Cu.	N	..	..	5·7
12	N 4	WNW 4	N 2	3·3	4·8	30	6	Ci.	NE	Cu.	N	7	..	..	Cu.	WNW	4	Ci., A.-Cu.	..	..	..	5·7
13	N 3	N 4	WNW 2	3·3	6·4	40	10	..	..	Nb.	N	1	..	..	Cu.	..	10	A.-Cu.	..	Cu.-Nb.	..	7·0
14	NNE 2	N 3	N 3	2·3	2·4	15	8	..	..	Cu.	NNE	10	..	..	..	..	0	..	..	..	..	6·0
15	— 0	NW 1	NE 2	1·7	13·2	18	0	..	..	..	..	10	..	..	..	..	0	..	..	..	..	3·3
16	ENE 5	ENE 6	ENE 4	5·7	9·9	61	6	..	..	Cu.	E	4	Ci.	W	..	..	5	A.-Cu.	..	..	..	5·0
17	ENE 6	ENE 5	ENE 6	5·3	7·1	46	10	..	..	..	..	8	..	..	..	..	7	..	..	..	..	8·3
18	NE 5	NE 4	NE 5	4·0	5·3	33	10	..	..	Nb.	NE	7	..	..	Cu.	NE	0	..	..	..	..	5·7
19	NW 3	NW 4	NNE 3	3·0	8·3	51	7	..	..	Cu.	NNW	8	..	..	{Cu. Cu.-Nb.}	{NW NNW}	1	..	..	..	..	5·3
20	NW 3	WNW 4	WNW 2	3·3	14·7	91	0	..	..	..	..	6	A.-Cu.	WNW	Cu.	W	4	A.-Cu.	WNW	..	..	3·3
21	WSW 2	SW 1	NW 3	1·0	7·4	46	8	..	..	Cu.-Nb.	W	7	A.-Cu.	..	..	..	8	A.-Cu.	..	..	..	7·7
22	S 4	SSW 1	— 0	3·0	5·4	33	4	Ci.-St.	..	..	..	10	A.-Cu.	SW	..	..	10	..	..	..	..	8·0
23	SSW 3	SSW 3	SW 4	2·0	3·2	20	10	..	..	Nb.	SW	10	..	..	..	..	9	A.-Cu.	..	Nb.	SW	9·7
24	WSW 4	WSW 4	— 0	3·3	2·7	17	10	..	..	Nb.	WSW	10	..	..	..	..	7	A.-Cu.	SW	Cu.-Nb.	SSW	9·0
25	SW 3	WSW 3	WSW 2	2·3	2·9	18	10	..	..	..	..	7	..	..	St.-Cu.	WSW	10	..	..	..	..	9·0
26	WSW 2	WSW 3	SW 1	3·3	1·3	8	10	..	..	Cu.-Nb.	WSW	10	..	..	Nb.	WSW	10	..	..	Nb.	W	10·0
27	W 3	W 3	W 5	2·7	0·2	1	9	..	..	Nb.	W	10	..	..	Nb.	..	10	..	..	..	..	9·7
28	NW 3	WNW 4	NNW 2	3·3	7·8	48	10	..	..	Nb.	NNW	7	..	..	Cu.	NW	9	..	..	St.-Cu.	W	8·7
29	WSW 4	SW 3	SW 6	4·3	3·3	21	8	..	..	Cu.-Nb.	W	8	A.-Cu.	SW	Cu.-Nb.	W	10	..	..	Nb.	SW	8·7
30	WSW 6	W 5	WNW 2	4·3	8·8	55	8	..	..	Cu.-Nb.	W	5	..	..	Fr.-Cu.	W	1	..	..	..	..	4·7
Means	3·5	3·7	3·1	3·4	221·6	46	7·7	—	—	—	—	7·0	—	—	—	—	6·0	—	—	—	—	6·9
Normal	3·4	3·7	3·2	3·4	244·3	51	6·9	—	—	—	—	5·5	—	—	—	—	5·3	—	—	—	—	5·9

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	REMARKS.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	11·6	09·4	08·2	09·8	86·5	92·5	86·1	93·6	*n* 82·9	88·3	*n* 75·3	74	57	87	73	—	
2	07·0	06·6	05·5	06·3	86·9	89·1	84·9	90·9	83·4	87·0	79·0	78	64	84	75	—	⊕ 14 h.
3	02·3	01·6	02·0	02·0	87·3	87·5	85·9	*n* 89·5	83·3	*n* 86·7	77·7	75	88	92	85	0·5	●⁰ 9 h. ● 11 h.–15 h.
4	02·2	03·4	04·8	03·5	87·1	90·1	86·1	91·8	85·0	88·0	82·3	82	65	88	78	—	Nb. passing about 12 h.
5	08·3	12·7	14·2	11·8	87·0	89·8	86·2	91·4	85·4	88·0	81·2	86	71	91	83	—	
6	11·5	07·5	03·1	07·4	87·2	90·1	88·5	90·9	85·7	88·5	81·1	78	74	87	80	0·5	●⁰ 12 h. 30 m. ● 15 h. 45 m.
7	96·0	96·2	96·2	96·2	87·9	91·3	87·3	92·0	87·1	89·1	85·6	97	68	93	86	*x* 6·3	● during night till 7 h. ⊕ 14 h.
8	97·9	02·2	04·4	01·5	86·7	91·0	85·8	91·9	85·0	88·1	81·0	90	61	83	78	—	Cloudless sky 4 h. c. 5 h.
9	07·9	09·2	09·4	08·8	87·9	90·3	85·7	92·5	83·5	88·0	75·7	75	83	83	80	—	
10	10·2	12·8	14·6	12·6	86·5	89·5	86·4	90·5	84·1	87·4	77·0	85	64	87	79	0·6	● 8 h. 30 m.
11	15·2	17·0	17·5	16·6	87·2	90·7	86·5	91·3	84·9	88·1	80·1	83	64	87	78	—	
12	15·6	12·3	09·9	12·6	87·5	90·5	88·6	92·5	86·0	89·0	82·2	84	70	86	80	—	Short ●⁰ shower 15 h. 10 m.
13	09·2	10·8	10·7	10·3	87·6	90·1	86·7	90·6	86·4	88·3	84·4	74	62	94	76	0·6	● 7 h. 35 m. ≡ and d. 7 h. 30 m. ●⁰
14	11·0	12·8	14·4	12·7	87·7	90·1	85·9	91·1	85·3	88·0	82·7	81	59	83	74	—	[21 h., then ●.
15	16·7	18·7	19·0	18·2	87·3	92·1	87·1	93·4	84·9	89·0	78·5	86	*n* 45	94	75	—	
16	17·8	16·6	14·0	16·2	87·8	90·0	87·3	91·0	85·1	88·2	78·0	89	74	90	84	0·5	● 19 h. 30 m., continuing to about 23 h.,
17	12·0	13·0	13·0	12·7	89·1	93·0	88·1	93·8	87·0	90·2	86·3	91	70	93	85	—	[then ≡.
18	12·2	12·3	13·0	12·4	88·6	89·0	86·7	90·5	86·4	88·2	80·9	89	85	83	86	—	d. 7 h.
19	13·8	13·9	14·7	14·2	88·7	93·6	86·8	94·2	84·5	89·6	79·7	75	52	80	69	—	Fine.
20	15·8	15·5	15·8	15·6	90·0	96·1	89·0	97·2	84·4	91·3	77·2	74	52	79	68	—	Fine.
21	16·8	16·7	16·4	16·7	90·2	95·2	89·7	96·3	87·0	91·7	82·3	82	52	71	68	—	Fine.
22	16·4	16·0	15·8	16·0	90·9	96·2	88·6	96·4	86·7	91·8	83·3	75	57	86	73	—	Fine.
23	16·2	15·8	16·3	16·0	87·6	92·0	86·6	93·0	85·9	88·8	78·6	79	67	85	77	—	c. 7 h., then fine.
24	15·9	15·4	15·8	15·6	88·1	92·0	87·6	92·5	87·0	89·4	82·7	73	72	87	77	—	
25	15·4	15·2	14·7	15·1	88·1	91·8	87·5	92·9	84·9	89·0	79·0	84	69	87	80	—	
26	13·8	13·1	12·4	13·1	87·7	92·1	87·5	93·9	85·3	89·3	79·7	91	69	88	83	—	
27	13·0	14·4	16·0	14·4	88·6	89·8	87·7	92·5	86·0	88·9	81·7	91	84	98	91	—	● (heavy drizzle) 4 h.; did not last long.
28	17·2	18·7	20·4	18·8	88·6	95·4	91·0	97·4	86·0	91·7	81·0	100	71	80	84	—	≡ 3 h. to 6 h. 30 m. ≡ 8 h. for very short time.
29	21·2	21·1	21·5	21·2	91·0	97·1	91·4	97·6	*x* 88·4	*x* 93·1	85·5	86	62	70	73	—	≡⁰ over town and sea in morning.
30	20·4	19·1	17·8	19·1	91·0	96·5	88·9	97·5	87·0	92·2	82·4	74	53	79	69	—	Glow in N. a.
31	17·0	16·3	16·0	16·4	87·4	97·7	90·4	*x* 98·0	84·4	91·6	78·9	98	60	82	80	—	≡ 6 h. 15 m.–7 h. 15 m.; not thick.
Means	12·2	12·5	12·5	12·4	88·1	92·0	87·5	93·2	85·4	89·2	80·7	83	66	86	78	9·0	
Normal	11·1	11·4	11·4	11·2	88·8	92·2	88·3	93·4	86·4	89·8	83·3	82	66	83	77	44·3	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).			Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.														Mean Amount.
					Total.	Per cent. of Possible.	Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		Tenths.	Upper.		Lower.		
								Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.		Type.	Direction.	Type.	Direction.	
	7 h.	14 h.	21 h.				7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%																
1	SSW 4	SW 4	WNW 3	3·7	9·7	60	3	A.-Cu.	SW	..	..	5	A.-Cu.	SW	..	..	4	..	..	Cu.	WSW	4·0
2	WSW 3	SW 3	— 0	2·0	12·2	70	6	Ci.-Cu.	SW	Cu.-Nb.	W	6	Ci.	WSW	..	..	4	Ci., A.-Cu.	..	..	..	5·3
3	ENE 1	NE 3	NNE 3	2·3	0·6	4	8	..	..	..	..	10	..	..	Nb.	..	10	..	..	..	..	9·3
4	NW 2	SSW 2	NW 1	1·7	6·5	40	7	..	..	St.-Cu.	SW	6	Ci.	..	Cu., Cu.-Nb.	W	7	..	..	..	..	6·7
5	W 4	W 5	W 3	4·0	12·3	77	7	..	..	Cu.	WNW	6	..	..	Cu.	W	2	{Ci. A.-Cu.	Ẅ}	..	..	5·0
6	SSW 3	S 3	S 4	3·3	1·0	6	10	..	..	..	..	10	..	..	..	..	9	..	..	..	..	9·7
7	SW 4	W 4	SSW 1	3·0	5·6	35	9	..	..	Nb.	WSW	4	Ci.	WSW	..	..	10	..	..	..	..	7·7
8	N 3	NW 3	WNW 2	2·7	14·6	85	7	..	..	Cu.-Nb.	N	2	..	..	Fr.-Cu.	WNW	0	..	..	..	..	3·0
9	WSW 2	W 4	WNW 1	2·3	15·0	88	5	..	..	Cu.-Nb.	WNW	4	..	..	Cu.	NW	1	..	..	..	..	3·3
10	WSW 3	W 5	W 3	3·7	9·9	58	9	A.-Cu.	SW	..	..	4	..	..	Cu.	W	2	A.-Cu.	..	Fr. Cu.	W	5·0
11	WNW 3	WSW 4	W 4	3·7	9·0	56	8	..	..	St.-Cu.	WNW	6	{Ci. A.-Cu.	Ẅ}	Cu.	WNW	1	..	..	..	..	5·0
12	SW 4	SW 5	W 4	4·3	4·9	31	6	A.-Cu.	W	Cu.-Nb.	W	10	A.-Cu.	W	..	..	10	..	..	..	..	8·7
13	W 4	WSW 5	WSW 5	4·7	2·5	16	8	..	..	Cu.-Nb.	NW	7	..	..	St.-Cu.	NW	10	..	..	Nb.	..	8·3
14	NW 3	NW 4	— 0	2·3	13·3	84	7	A.-Cu.	NW	..	..	4	..	..	Cu.	NW	1	..	..	..	..	4·0
15	NNW 3	NNW 2	WNW 3	2·7	12·7	81	2	Ci.	..	Cu.	NNW	1	..	..	Cu.	N	4	..	..	..	..	2·3
16	WSW 2	W 4	W 4	3·3	2·3	15	7	..	..	Cu.-Nb.	W	7	A.-Cu.	WNW	Cu.-Nb.	NW	10	..	..	Nb.	..	8·0
17	NNW 2	NNW 3	NW 2	2·3	2·9	19	8	A.-Cu.	NE	..	..	6	Ci.-Cu.	NW	Cu.	NNW	2	..	..	..	..	5·3
18	NNE 4	NNE 4	NNE 3	3·7	4·7	30	7	Ci.	N	Cu.-Nb.	NNW	10	..	..	..	..	10	..	..	..	..	9·0
19	NNE 2	NE 3	N 2	2·3	15·7	100	2	Ci., A.-Cu.	..	..	..	2	Ci.	..	..	..	0	..	..	..	..	1·3
20	NNE 1	SW 2	NE 3	2·0	15·5	99	0	..	..	..	..	1	..	..	Cu.	..	0	..	..	..	..	0·3
21	ENE 3	ENE 4	ENE 3	3·3	15·6	100	0	..	..	..	..	0	..	..	..	..	1	..	..	..	..	0·3
22	NE 3	NE 4	NE 3	3·3	13·4	86	5	A.-Cu.	WNW	..	..	0	..	..	..	..	0	..	..	..	..	1·7
23	NE 3	NNE 4	ENE 3	3·3	11·3	72	7	..	..	Cu.	NE	2	Ci.	N	Cu.	N	2	..	..	..	..	3·7
24	NE 3	NNE 3	ENE 2	2·7	3·8	25	10	..	..	St.-Cu.	NE	4	Ci.	..	Cu.	NE	7	..	..	St.-Cu.	ENE	7·0
25	ENE 1	SW 2	NE 3	2·0	6·5	42	7	..	..	St.-Cu.	NE	7	..	..	St.-Cu.	NE	0	..	..	..	..	4·7
26	E 4	ENE 3	NE 4	3·7	9·4	61	1	..	..	Cu.	E	7	A.-Cu.	SW	Fr.-Cu.	ENE	0	..	..	..	..	2·7
27	ENE 2	N 4	NW 2	2·7	6·1	40	10	..	..	..	..	6	Ci.	W	Cu.	N	4	..	..	..	..	6·7
28	— 0	SW 2	NNE 3	1·7	12·5	81	2	A.-Cu.	NE	..	..	0	..	..	..	..	0	..	..	..	..	0·7
29	NE 2	NNE 3	NNE 3	2·7	15·3	100	0	..	..	..	..	2	A.-Cu.	NE	..	..	1	..	..	..	..	1·0
30	NNE 1	N 3	— 0	1·3	15·2	100	0	..	..	..	..	2	Ci.	..	..	..	0	..	..	..	..	0·7
31	— 0	SW 2	NE 3	1·7	14·9	97	0	..	..	≡	..	0	..	..	..	..	1	Ci.	..	..	..	0·3
Means	2·5	3·4	2·6	2·8	294·7	60	5·4	—	—	—	—	4·5	—	—	—	—	3·6	—	—	—	—	4·5
Normal	3·1	3·6	3·1	3·3	274·6	56	6·4	—	—	—	—	5·2	—	—	—	—	5·0	—	—	—	—	5·5

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	15·9	15·4	15·9	15·8	91·9	97·8	91·9	x100·3	86·5	93·7	80·9	79	57	75	70	—	≡⁰ 4 h. ≡ over town and sea 7 h.
2	18·4	19·5	20·8	19·6	90·6	96·1	89·7	96·6	86·8	92·0	82·5	86	56	88	77	—	Wind veered to W. 7 h. 15 m., then
3	21·5	21·4	20·0	21·0	93·2	98·4	91·1	99·5	89·2	x 94·3	85·7	82	59	65	69	—	[returned to N.
4	18·8	18·6	19·5	19·0	92·7	96·1	90·8	97·3	88·7	93·1	85·0	—	52	68	—	—	
5	20·8	19·8	18·7	19·8	88·3	93·4	88·1	94·3	86·6	90·1	82·9	73	48	67	63	—	
6	17·6	16·0	15·1	16·3	90·6	95·0	90·7	96·2	84·4	91·4	n 77·5	67	n 47	69	61	—	
7	15·8	15·6	16·0	15·8	88·1	92·6	87·5	93·2	87·2	89·7	85·0	79	52	88	73	—	
8	16·0	15·8	15·2	15·6	88·4	94·5	88·6	95·6	86·5	90·7	83·4	82	51	87	73	—	
9	14·8	15·2	16·0	15·4	88·6	93·5	89·4	96·2	87·0	90·9	83·4	97	65	87	83	—	≡² 3 h.–5 h.
10	17·0	17·9	17·5	17·5	90·3	95·1	90·0	96·4	87·4	91·8	82·3	82	57	90	76	—	
11	15·6	14·4	12·0	14·0	91·1	92·8	91·0	94·6	87·8	91·5	81·7	79	75	74	76	—	
12	07·9	05·6	06·3	06·6	92·8	96·8	90·8	99·1	89·7	93·8	87·7	75	59	85	73	0·6	●⁰ 16 h. 10 m., then ●. ●⁰ 21 h., then ●.
13	06·0	05·5	05·5	05·6	90·3	93·0	90·7	95·4	89·3	91·7	86·3	88	76	90	85	—	●⁰ 4 h. 30 m.
14	02·3	02·6	02·8	02·6	91·0	93·2	90·3	94·1	x 90·0	91·7	88·5	82	77	82	80	0·2	Short ●⁰ showers from 8 h.
15	01·5	01·8	02·4	01·9	88·9	92·7	89·0	93·5	87·6	90·3	87·1	89	68	85	81	2·6	●² shower 5 h. 5 m. ●⁰ shower 10 h.
16	03·2	03·1	02·0	02·8	89·0	89·8	87·7	94·2	87·5	89·6	84·5	85	81	93	86	—	●⁰ 13 h. 40 m.–14 h. 10 m. [10 m.
17	01·1	01·8	03·4	02·0	89·1	91·0	88·4	92·5	88·8	90·0	84·6	83	68	87	79	—	
18	05·4	05·6	04·4	05·1	88·3	92·8	88·6	93·5	87·1	90·1	84·5	87	65	92	81	—	
19	05·0	08·3	09·9	07·8	88·0	91·1	87·9	92·7	86·6	89·3	83·8	79	65	89	78	—	
20	11·2	11·5	11·1	11·2	89·0	92·8	88·1	94·0	85·3	89·8	77·9	81	65	92	79	—	
21	11·5	12·0	12·8	12·2	88·6	94·0	88·1	95·0	85·3	90·2	78·2	80	49	79	69	—	
22	12·3	11·9	11·1	11·8	89·9	95·2	91·1	96·6	85·0	91·6	78·2	76	48	73	66	—	Stormy from 17 h. ⩛ 20 h.–21 h. 30 m.
23	08·6	06·6	06·2	07·1	90·9	94·2	90·8	96·2	89·5	92·3	87·8	81	56	94	77	0·9	●⁰ 7 h. 20 m. ● 19 h. 30 m.
24	06·2	06·0	04·4	05·6	89·9	93·9	92·2	94·9	88·8	91·9	86·5	92	66	80	79	—	●⁰ 7 h.
25	99·2	96·0	96·2	97·1	89·9	91·3	90·1	92·9	89·6	90·8	87·6	96	94	92	94	3·8	●⁰ showers after 0 h. ●² shower 9 h. 30 m.
26	97·1	98·8	00·4	98·8	90·0	93·3	90·4	95·0	89·4	91·6	87·2	89	71	86	82	2·9	● 5 h. Squall in W.S.W. 14 h. 30 m. ● shower 14 h.
27	99·9	99·5	99·5	99·6	90·3	92·2	90·3	93·1	89·1	91·0	86·8	87	78	88	84	9·7	⊤ dull 11 h. 10 m. (one peal). [45 m.
28	00·4	01·6	00·8	01·0	89·6	93·5	89·9	94·6	89·0	91·3	87·8	94	68	93	85	0·8	● till 6 h.
29	93·8	85·2	79·2	86·0	89·5	91·9	89·9	92·8	89·0	90·6	88·5	97	89	97	94	x 22·4	● from 4 h. ●² showers from 6 h.–9 h.
30	95·5	04·0	09·0	02·8	85·0	90·4	87·2	n 91·0	n 84·3	n 87·6	84·1	89	67	70	75	14·7	● ceased at 8 h.
31	12·4	14·0	14·0	13·5	88·0	92·9	89·8	93·2	85·0	89·8	79·1	85	65	88	79	—	W.S.W. horizon overcast after 14 h.
Means	08·8	08·7	08·6	08·7	89·7	93·6	89·7	95·0	87·5	91·1	84·1	84	64	84	77	58·6	
Normal	10·3	10·3	10·6	10·4	89·0	92·4	88·8	93·3	87·1	90·1	83·9	83	66	82	77	56·9	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir. (0–12)	14 h. Dir. (0–12)	21 h. Dir. (0–12)	Mean.	Sunshine. Total. hr.	Per cent. of Possible. %	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Upper. Direction.	Lower. Type.	Lower. Direction.	14 h. Tenths.	Upper. Type.	Upper. Direction.	Lower. Type.	Lower. Direction.	21 h. Tenths.	Upper. Type.	Upper. Direction.	Lower. Type.	Lower. Direction.	Mean Amount.
1	E 3	WSW 1	NNE 4	2·7	15·1	100	1	Ci.	..	..	..	0	..	..	..	..	0	..	..	..	..	0·3
2	ENE 1	NNE 3	N 2	2·0	14·9	99	1	A.-Cu.	..	..	..	4	Ci.	..	..	..	•0	..	..	..	..	1·7
3	NE 1	N 2	NE 2	1·7	15·0	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
4	NE 3	ENE 5	ENE 3	3·7	15·0	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
5	ENE 4	ENE 4	ENE 4	4·0	13·4	90	5	..	..	Cu.	ENE	0	..	..	..	..	0	..	..	..	..	1·7
6	NE 3	NNE 4	ENE 3	3·3	14·9	100	0	..	..	..	..	2	Ci.-Cu.	..	..	..	3	Ci.-Cu.	..	..	..	1·7
7	ENE 5	ENE 5	NE 4	4·7	11·6	80	6	..	..	Cu.	E	0	..	..	..	..	0	..	..	..	..	2·0
8	ENE 3	ENE 4	NE 3	3·3	14·8	100	1	..	..	..	..	0	..	..	..	..	5	Ci.	..	..	..	2·0
9	NE 1	SSW 1	WNW 2	1·3	5·5	37	7	Ci., Ci.-Cu.	SW	..	..	10	..	..	..	..	10	..	..	..	..	9·0
10	NW 3	WNW 3	NW 3	3·0	14·0	96	0	..	..	..	..	5	..	..	Cu.	NW	3	Ci.-Cu.	..	..	..	2·7
11	NW 2	SSW 1	ENE 4	2·3	7·8	53	3	Ci.	NW	..	..	7	A.-Cu.	NW	..	..	6	Ci., Ci.-Cu.	..	..	..	5·3
12	S 4	SW 4	SSW 1	3·0	5·4	37	6	Ci., Ci.-Cu.	W	..	..	8	A.-Cu.	..	..	..	10	..	..	..	..	8·0
13	SSW 4	SW 4	SW 3	3·7	4·2	28	10	..	..	..	..	7	A.-Cu.	WSW	..	..	10	A.-Cu.	..	Cu.-Nb.	SW	9·0
14	SW 5	WSW 6	WSW 5	5·3	4·3	29	10	..	..	..	..	6	A.-Cu.	WSW	Fr.-Cu.	W	9	..	..	St.-Cu.	W	8·3
15	WSW 4	WSW 5	WSW 4	4·3	4·8	33	10	A.-Cu.	..	..	..	4	A.-Cu.	..	Fr.-Cu.	WSW	1	A.-Cu.	..	..	..	5·0
16	SW 5	WSW 3	SW 1	3·0	4·7	32	8	A.-Cu.	SW	..	..	10	..	..	Cu.-Nb.	W	7	A.-Cu.	..	..	..	8·3
17	WNW 3	W 4	NW 3	3·3	8·9	62	5	..	..	Cu.	WNW	5	..	..	Cu.	WNW	4	A.-Cu.	..	..	..	4·7
18	NW 3	WSW 4	W 3	3·3	6·0	42	5	A.-Cu.	NW	Fr.-Cu.	NW	6	Ci.-Cu.	WNW	Cu.	WNW	5	..	..	..	..	5·3
19	WNW 3	NW 3	WNW 2	2·7	9·5	67	10	..	..	Cu.-Nb.	NNW	4	Ci.	SW	Fr.-Cu.	NNW	0	..	..	..	..	4·7
20	WSW 4	WSW 4	WNW 3	3·7	11·0	78	6	..	..	Cu.	..	6	Ci.	WSW	..	..	0	..	..	..	..	4·0
21	N 1	Var. 2	N 2	1·7	14·0	99	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
22	— 0	SW 3	ENE 3	2·0	11·0	78	0	..	..	..	..	6	A.-Cu.	WSW	..	..	10	..	..	..	..	5·3
23	SE 2	SSE 3	WSW 2	2·3	2·5	18	10	A.-Cu.	SW	..	..	8	A.-Cu.	WSW	..	..	8	..	..	..	..	8·7
24	WNW 2	S 3	SW 4	3·0	1·9	13	10	..	..	Nb.	..	7	Ci.-Cu.	WSW	..	..	5	..	..	..	..	7·3
25	S 4	SSW 4	SW 3	3·7	1·8	12	10	..	..	Nb.	SW	10	..	..	Nb.	SW	7	..	..	..	..	9·0
26	WSW 5	SW 4	SW 4	4·3	7·7	56	8	Ci.	WNW	Cu.-Nb.	WSW	8	..	..	Cu.	SW	6	..	..	..	..	7·3
27	SW 4	WSW 5	WSW 4	4·3	6·5	47	3	Ci.-Cu.	W	..	..	4	Ci.	WSW	Cu.	WSW	7	..	..	..	..	4·7
28	WSW 4	W 4	SSW 2	3·3	6·7	49	8	..	..	Nb.	WSW	6	A.-Cu.	WSW	..	..	10	..	..	..	..	8·0
29	SE 3	ESE 4	NNW 2	3·0	0·3	2	10	..	..	Nb.	..	10	..	..	Nb.	SSW-SE	10	..	..	..	..	10·0
30	NW 6	WNW 5	NW 3	4·7	7·6	56	10	..	..	Nb.	NW	5	..	..	Cu.	NW	2	..	..	..	..	5·7
31	NW 2	WSW 4	SW 2	2·7	5·6	41	10	A.-Cu.	NW	Nb.	NW	6	A.-Cu.	SW	Cu.	WSW	8	..	..	..	..	8·0
Means	3·1	3·6	3·0	3·2	266·2	60	5·6	—	—	—	—	5·0	—	—	—	—	4·7	—	—	—	—	5·1
Normal	3·3	3·8	3·2	3·4	249·9	56	6·3	—	—	—	—	5·2	—	—	—	—	4·5	—	—	—	—	5·3

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	13·6	14·3	14·4	14·2	89·7	92·1	89·1	92·9	x 88·3	90·4	86·8	83	76	93	84	—	
2	13·2	12·3	09·8	11·8	89·9	93·1	90·4	94·4	88·1	x 91·2	83·4	90	55	80	75	—	
3	04·7	06·4	08·0	06·3	89·5	90·7	87·9	91·2	87·3	89·3	86·5	83	66	80	76	—	●⁰ 8 h. 50 m.
4	08·8	09·4	05·5	07·9	88·4	88·4	88·8	91·0	87·0	88·7	84·3	83	75	88	82	6·0	● 7 h. ●⁰ 13 h. 30 m.
5	10·0	12·7	14·4	12·4	87·0	89·1	88·1	90·4	86·6	88·2	83·1	78	74	79	77	—	
6	16·8	18·4	20·3	18·6	87·7	91·5	87·8	92·3	86·0	89·1	81·4	86	67	87	80	—	
7	21·2	20·7	20·4	20·8	88·9	92·2	87·6	93·6	87·0	89·9	83·2	78	70	83	77	—	
8	18·4	17·0	17·4	17·6	88·3	93·1	88·7	93·5	86·8	90·1	82·5	88	68	88	81	—	After a clear night, clouds formed 5 h.
9	17·0	17·0	16·0	16·7	88·9	91·6	88·9	92·0	88·1	89·9	85·3	89	81	88	86	—	
10	14·8	13·9	14·2	14·3	88·6	89·3	88·5	90·3	88·0	88·9	85·6	93	89	90	91	0·1	d. and ●⁰ 15 h. ●⁰ 18 h. and 21 h.
11	13·0	12·7	11·0	12·2	88·1	90·0	87·1	91·5	85·9	88·5	86·8	86	74	96	85	0·2	●⁰ from 20 h.
12	11·9	14·3	14·8	13·6	87·6	91·1	88·9	92·0	87·4	89·4	85·9	93	80	92	88	—	
13	14·6	13·6	13·6	13·9	88·9	91·6	89·0	92·9	87·3	89·9	83·3	95	83	90	89	—	S.W. horizon overcast 14 h.
14	15·0	16·7	17·9	16·6	86·2	88·4	83·7	87·9	80·6	n 85·4	80·3	63	n 47	53	54	—	
15	15·6	17·0	16·2	16·2	83·9	87·6	86·5	88·6	n 80·5	n 85·4	n 73·4	66	52	77	65	—	Fine night. Horizon overcast over sea
16	15·9	17·9	19·8	17·9	87·9	89·7	86·4	90·6	86·3	88·2	83·1	87	76	92	85	—	[17 h. 45 m. ⋓ 21 h.
17	19·9	18·8	16·7	18·4	87·4	91·0	88·0	92·7	86·4	89·1	78·8	95	71	79	82	—	≡ over town and sea 8 h.
18	08·8	02·2	01·2	04·0	88·7	88·9	84·1	89·4	83·5	86·9	85·5	87	97	77	87	11·0	● 8 h. 30 m. ●⁰ shower 21 h.
19	97·4	00·6	06·7	01·6	85·4	86·0	86·0	87·5	82·1	n 85·4	80·4	63	65	64	64	9·4	● squalls. ⚿●▲ 17 h. for a short time.
20	11·4	13·4	14·8	13·2	85·2	86·7	84·6	n 87·4	84·5	85·7	81·3	74	52	78	68	—	
21	15·6	15·5	16·8	15·9	83·1	88·9	83·9	89·3	82·8	85·6	77·8	86	60	78	75	—	
22	16·7	14·7	13·5	15·0	84·1	88·6	85·8	89·3	82·9	86·1	77·5	86	53	79	73	—	Glow ESE to WSW 5 h. ⊕ 16 h.
23	10·6	09·6	10·0	10·2	83·5	89·6	84·1	90·2	82·9	86·1	77·8	91	64	91	82	—	
24	09·1	09·4	09·0	09·1	85·9	90·3	87·5	91·3	84·9	88·0	79·3	83	57	87	76	—	
25	05·9	03·6	06·4	05·2	89·0	95·2	91·0	x 95·8	86·7	91·5	83·4	87	52	80	73	—	[heard faintly. ⚿² 18 h.
26	08·0	05·9	03·6	05·9	87·3	92·7	88·4	93·3	86·8	89·7	83·0	77	77	85	80	24·0	● 4 h. S.W. horizon overcast 15 h. ⊤
27	10·4	00·2	00·7	03·8	88·9	89·5	89·4	91·0	87·9	89·3	87·0	100	84	76	87	x 24·4	● 4 h. ≡ 6 h.–8 h.
28	99·0	96·7	96·3	97·4	89·1	94·4	86·7	95·0	86·4	90·3	82·3	78	62	90	77	2·6	⚿● 16 h. Storm in E. ≺ all night in
29	95·8	97·5	00·8	98·0	86·7	90·9	87·9	91·4	86·0	88·6	81·8	98	80	94	91	9·1	● 15 h. and 20 h. [N. and N.W.
30	07·4	10·8	14·6	11·0	85·3	88·1	86·6	89·0	85·2	86·8	84·0	78	79	91	83	—	
Means	11·4	11·1	11·5	11·3	87·3	90·3	87·4	91·3	85·7	88·4	82·5	84	70	84	79	86·8	
Normal	11·6	11·5	11·9	11·6	87·2	90·8	87·7	91·7	85·8	88·6	81·8	83	67	80	77	61·5	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. Tenths. 7 h.	Upper. Type. 7 h.	Direction. 7 h.	Lower. Type. 7 h.	Direction. 7 h.	Tenths. 14 h.	Upper. Type. 14 h.	Direction. 14 h.	Lower. Type. 14 h.	Direction. 14 h.	Tenths. 21 h.	Upper. Type. 21 h.	Direction. 21 h.	Lower. Type. 21 h.	Direction. 21 h.	Mean Amount.
								hr.	%																
1	SW	4	SW	4	—	0	2·7	0·8	6	9	..	..	St.-Cu.	WNW	8	..	..	St.-Cu.	..	5	..	..	..	..	7·3
2	WSW	2	WSW	3	ENE	3	2·7	9·1	68	6	A.-Cu.	W	..	..	5	Ci.	W	..	..	6	..	..	..	..	5·7
3	WSW	3	WSW	5	W	4	4·0	5·9	44	10	..	..	..	..	6	..	..	Cu.	W	3	..	..	Cu.	..	6·3
4	WNW	4	WSW	5	WNW	6	5·0	2·8	20	7	..	..	Cu.-Nb., Nb.	NW	10	..	..	Nb.	W	10	..	..	..	..	9·0
5	WNW	5	NW	5	NNW	2	4·0	6·8	52	7	..	..	Cu.-Nb.	N	8	Ci.-Cu.	N	Cu.	NNW	7	A.-Cu.	..	..	..	7·3
6	NNE	3	NNE	4	NNE	2	3·0	11·8	90	3	..	..	Cu.-Nb.	NE	0	..	..	..	..	0	..	..	..	..	1·0
7	ENE	3	N	4	NE	2	3·0	8·3	63	0	..	..	..	..	2	..	..	Cu.	NE	0	..	..	..	..	0·7
8	NE	3	ENE	5	NE	4	4·0	7·4	57	9	..	..	Cu.-Nb.	ENE	4	..	..	Cu.	NE	1	..	..	Cu.	..	4·7
9	NE	4	NE	4	NE	4	4·0	0·9	7	8	..	..	Cu.-Nb.	NE	9	..	..	..	..	0	..	..	..	..	5·7
10	NNE	3	NNE	4	NNE	3	3·3	0·0	0	10	..	..	..	..	10	..	..	..	..	10	..	..	Nb.	..	10·0
11	NNW	2	NW	4	WSW	3	3·0	3·3	25	10	..	..	Cu.-Nb.	W	8	A.-Cu.	SW	Cu.-Nb.	NW	10	..	..	Nb.	..	9·3
12	NNW	4	NW	3	WNW	3	3·3	1·9	15	6	..	..	Cu., Cu.-Nb.	N	10	..	..	..	..	6	..	..	Fr.-Cu.	NNW	7·3
13	W	3	WNW	2	NW	3	2·7	6·2	48	8	..	..	Cu.-Nb.	WNW	8	..	..	Cu.-Nb.	NNW	10	..	..	..	..	8·7
14	NNE	3	NNE	4	NE	3	3·3	8·7	68	5	..	..	Cu.	N	4	Ci., A.-Cu.	..	Cu.	N	4	A.-Cu.	N	..	..	4·3
15	N	2	NW	4	NW	2	2·7	7·8	62	6	Ci.	NNW	Cu.	NNE	7	A.-Cu.	NNW	Cu.	NNW	6	Ci.	..	..	..	6·3
16	WNW	1	NNW	3	NW	1	2·0	4·6	36	2	Ci.	..	Cu.	NW	10	..	..	Cu.-Nb.	NW	2	..	..	..	..	4·7
17	—	0	W	3	W	4	2·3	3·8	31	9	A.-Cu.	NNW	..	..	4	{Ci. A.-Cu.	{NW SW}	..	..	10	..	..	..	..	7·7
18	WSW	6	WSW	7	W	5	6·0	0·2	1	10	..	..	Nb.	W	10	..	..	Nb.	W	10	..	..	..	..	10·0
19	NW	6	NNW	7	N	6	6·3	4·1	33	6	A.-Cu.	N	Cu.-Nb.	NNW	8	..	..	Nb.	N	7	..	..	..	..	7·0
20	NNE	4	N	3	NNW	1	2·7	1·7	14	7	A.-Cu.	N	Fr.-Cu.	NNE	9	..	..	St.-Cu.	NNW	8	..	..	..	..	8·0
21	NE	1	NE	2	E	2	1·7	10·1	82	4	A.-Cu.	N	..	..	1	..	..	Fr.-Cu.	NNE	1	..	..	..	..	2·0
22	E	2	E	1	ENE	3	2·0	10·9	89	6	Ci.	..	..	..	3	Ci.	..	..	..	2	..	..	..	..	3·7
23	E	2	SW	2	W	1	1·7	11·3	92	2	Ci.	WSW	..	..	1	Ci.	..	..	..	0	..	..	..	..	1·0
24	—	0	SSW	2	ENE	3	1·7	8·0	66	10	..	..	..	..	1	..	..	Cu.	..	4	A.-Cu.	..	..	..	5·0
25	SSE	3	SE	4	SSE	3	3·3	9·3	78	4	A.-Cu.	S	..	..	3	Ci.	SSW	..	..	8	..	..	..	..	5·0
26	ENE	3	E	3	NE	2	2·7	4·2	35	4	A.-Cu.	S	..	..	8	..	..	..	..	10	..	..	..	..	7·3
27	SSE	1	ESE	2	SE	4	2·3	1·6	13	4	..	..	Nb. ≡	..	8	..	..	..	..	2	..	..	..	..	4·7
28	E	4	ENE	3	NE	2	3·0	7·4	63	7	{Ci.-Cu. A.-Cu.}	ESE	..	..	4	Ci.	..	..	..	3	..	..	..	..	4·7
29	—	0	W	2	NE	3	1·7	1·9	16	7	..	..	Cu.-Nb.	W	8	..	..	Cu.-Nb.	WNW	10	..	..	Nb.	..	8·3
30	NE	3	NE	4	NE	2	3·0	3·5	30	10	..	..	Cu.-Nb.	NNE	9	..	..	St.-Cu.	ENE	7	..	..	..	..	8·7
Means		2·8		3·7		2·9	3·1	164·1	44	6·8	—	—	—	—	6·2	—	—	—	—	5·4	—	—	—	—	6·0
Normal		3·2		3·8		3·3	3·4	203·1	54	5·8	—	—	—	—	4·9	—	—	—	—	4·5	—	—	—	—	5·1

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level.				Air Temperature in Degrees Absolute.						Min. Temp. on Grass.	Percentage of Humidity.				Rain 0 h. to 24 h.	REMARKS.
	7 h.	14 h.	21 h.	Mean of 3 Readings.	7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.		7 h.	14 h.	21 h.	Mean.		
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	15·6	15·1	14·4	15·0	86·1	88·3	88·0	88·7	85·0	87·2	80·3	76	63	67	69	0·6	● from 21 h.
2	10·8	11·2	11·8	11·2	88·4	90·3	89·2	91·5	85·2	88·9	83·9	98	89	92	93	0·3	o. 4 h. ≡ 6 h.–8 h.
3	13·1	13·2	12·4	13·0	88·7	90·8	89·3	91·6	88·2	89·7	84·9	93	88	97	93	3·9	d. 12 h. 30 m. ● ≡ 17 h.
4	08·3	08·8	09·2	08·8	88·9	90·7	89·4	x 92·6	86·5	89·6	86·6	95	83	86	88	4·9	● 4 h.
5	08·7	10·6	11·0	10·0	89·1	89·6	89·8	90·1	x 88·4	89·4	87·4	97	96	90	94	8·4	≡ ● 11 h. 15 m.
6	08·8	06·0	06·2	07·1	89·6	91·3	90·0	91·6	x 88·4	x 90·2	87·7	96	82	96	91	2·1	● 19 h.
7	08·7	09·6	12·3	10·2	88·0	88·0	88·1	90·0	84·0	87·6	84·3	77	78	82	79	2·8	● frequently from 6 h. ●² 14 h. q.
8	14·7	16·7	17·1	16·2	88·4	89·3	88·7	89·6	88·0	88·8	85·0	91	86	77	85	1·6	● 5 h.
9	15·6	16·8	16·6	16·3	88·5	91·1	87·5	92·0	87·3	89·3	84·4	79	74	94	82	—	
10	16·8	17·2	17·6	17·2	87·0	90·3	88·5	90·9	86·8	88·7	83·0	89	78	86	84	—	
11	18·7	20·4	21·9	20·3	89·0	90·5	88·6	90·9	88·0	89·4	85·7	89	85	94	89	0·2	● 5 h. 15 m. Quickly-moving low cloud [21 h.
12	21·1	20·6	20·7	20·8	88·8	89·9	88·6	90·0	88·0	89·1	85·3	84	74	79	79	—	
13	20·4	21·1	20·4	20·7	88·1	89·0	88·7	89·5	87·7	88·6	86·2	86	87	85	86	—	
14	17·9	13·6	08·4	13·4	87·7	88·8	88·4	89·5	87·5	88·4	83·6	80	80	81	80	—	
15	08·4	09·9	12·8	10·3	85·8	85·3	84·1	87·6	83·0	85·2	81·5	73	61	53	62	2·1	● shower 11 h. 40 m. ●⁰ 14 h.
16	17·0	17·8	17·1	17·2	83·1	85·8	82·8	86·2	81·4	83·9	75·5	62	53	70	62	6·7	● showers 3 h. 40 m. Squall over sea 9 h. ● 9 h. 20 m.
17	12·6	10·6	07·4	10·2	84·5	84·4	86·0	86·0	81·9	84·6	77·5	68	91	89	83	12·2	● after 0 h. ● continuously from 10 h.
18	08·3	12·7	16·0	12·4	86·1	87·8	86·6	88·3	86·0	87·0	82·3	82	66	81	76	0·2	⊔ 4 h. ● 6 h. [45 m
19	11·6	11·8	14·7	12·7	85·3	85·8	85·2	87·2	84·1	85·5	83·0	92	61	68	74	4·0	● 4 h.
20	16·0	15·6	15·0	15·5	83·6	83·6	79·4	84·8	78·8	82·0	77·6	70	58	53	60	—	
21	11·8	08·6	06·7	09·0	77·1	81·3	79·6	n 81·9	n 76·4	n 79·3	n 69·6	77	n 42	51	57	—	⌴ 7 h. (first winter frost).
22	02·2	99·9	03·5	01·9	79·1	83·2	85·1	85·2	78·3	82·2	71·1	73	80	76	76	2·1	● 11 h. to 16 h.
23	07·0	05·8	05·0	05·9	84·0	87·0	85·1	88·0	83·9	85·6	79·4	86	74	82	81	0·1	⊕ 10 h. Glow S.W.–N.E.
24	01·6	97·9	90·4	96·7	83·9	84·1	84·8	85·7	83·0	84·3	75·7	86	86	84	85	—	
25	83·5	88·2	93·1	88·3	84·9	86·2	83·3	87·6	82·2	84·8	81·2	77	64	73	71	0·4	Strong S. wind during night. ●⁰ 13 h.
26	01·6	06·6	04·3	04·2	81·4	86·0	84·3	86·4	80·4	83·7	75·6	76	55	66	66	8·1	● during night. Frequent squalls. Calm 10 h.
27	89·2	88·7	87·9	88·6	85·9	86·3	83·0	86·3	81·4	84·6	80·2	89	52	65	69	12·1	● 1 h. ↗ from S. ▲ 10 h. 40 m. ≺
28	93·4	97·0	98·4	96·3	83·2	81·4	82·7	84·6	81·0	82·6	79·8	72	86	82	80	7·6	q. all day. [20 h. 30 m.
29	85·6	89·2	94·7	89·9	84·3	84·3	84·4	86·3	81·4	84·1	77·7	96	79	77	84	x 16·5	q. all day.
30	92·0	93·1	93·9	93·1	85·9	86·0	85·7	87·2	83·8	85·7	79·7	93	73	86	84	7·6	● all night till 10 h. and from 21 h.
31	01·8	07·9	08·8	06·2	84·9	86·1	85·1	87·4	83·8	85·5	80·2	65	67	75	69	0·6	● till 8 h. ≺ from 18 h. during night on W. horizon.
Means	07·8	08·5	08·7	08·3	85·8	87·2	86·1	88·2	84·2	86·3	81·2	83	74	79	79	105·1	
Normal	07·8	07·6	08·2	07·8	84·5	87·0	85·1	87·8	83·3	85·5	80·0	83	73	80	79	91·8	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale).			Mean.	Sunshine.		Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming.														Mean Amount.
							Upper.		Lower.			Upper.		Lower.			Upper.		Lower.		
	7 h.	14 h.	21 h.		Total.	Per cent. of Possible.	Tenths.	Type.	Direction.	Type.	Direction.	Tenths.	Type.	Direction.	Type.	Direction.	Tenths.	Type.	Direction.	Type.	Direction.	
							7 h.	7 h.	7 h.	7 h.	7 h.	14 h.	14 h.	14 h.	14 h.	14 h.	21 h.	21 h.	21 h.	21 h.	21 h.	
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%															
1	S 2	S 3	SW 3	2·7	1·9	17	4	{Ci. A.-Cu.}	WNW	..	..	10	..	..	..	..	10	..	..	Nb.	..	8·0
2	SW 5	WSW 3	SW 3	3·7	1·1	9	10	..	..	≡	..	10	..	..	..	..	10	..	..	..	..	10·0
3	SW 4	SSW 4	SW 4	4·0	1·8	16	8	..	..	St.-Cu.	SW	7	..	..	St.-Cu.	SW	10	..	..	..	..	8·3
4	SSW 5	WSW 6	SW 5	5·3	2·0	17	8	..	..	Nb.	NW	9	..	..	St.-Cu.	WSW	8	..	..	..	..	8·3
5	WSW 5	WSW 6	SW 5	5·3	0·0	0	8	..	..	Nb.	W	10	..	..	Nb.	WSW	10	..	..	..	..	9·3
6	SSW 6	WSW 7	SW 6	6·3	0·2	1	10	..	..	..	..	10	..	..	Cu.-Nb.	W	10	..	..	Nb.	..	10·0
7	WSW 5	WSW 6	W 6	5·7	1·2	10	5	..	..	Cu.	W	10	..	..	Nb.	WSW	8	A.-Cu.	NW	Nb	NW	7·7
8	W 5	W 5	WSW 5	5·0	2·3	21	10	..	..	Nb.	W	10	..	..	Cu.-Nb.	W	10	..	..	Cu.-Nb.	..	10·0
9	SW 5	W 3	WSW 3	3·7	2·2	19	9	..	..	Cu.-Nb.	WSW	6	..	..	Cu.	W	7	..	..	Cu.-Nb.	W	7·3
10	SW 4	SW 3	WSW 4	3·7	4·2	38	6	Ci.	..	Cu.-Nb.	WSW	3	Ci.	..	..	..	5	Ci.	..	..	..	4·7
11	WSW 5	WSW 5	WSW 4	4·7	2·9	26	8	..	..	Nb.	W	6	Ci.	NW	Cu.-Nb.	W	6	..	..	Cu.-Nb.	W	6·7
12	WSW 4	WSW 4	WSW 4	4·0	0·3	3	10	..	..	St.-Cu.	W	10	..	..	St.-Cu.	WSW	10	..	..	..	..	10·0
13	SW 3	SW 4	WSW 2	3·0	0·0	0	7	..	..	St.-Cu.	W	10	..	..	..	..	10	..	..	..	..	9·0
14	SW 4	SW 4	SW 6	4·7	0·1	1	10	..	..	..	..	10	..	..	St.-Cu.	SW	10	..	..	..	..	10·0
15	NW 4	NW 5	NW 4	4·3	3·7	34	8	Ci.	SW	Cu.-Nb.	NW	10	..	..	Cu.-Nb.	WNW	5	..	..	Cu.	NW	7·7
16	WNW 3	WNW 2	WNW 2	2·3	6·3	58	4	..	..	Cu.	N	6	Ci.	W	Cu.	N	7	..	..	..	..	5·7
17	SW 4	SSW 4	SW 2	4·7	0·5	5	8	A.-Cu.	W	Cu.-Nb.	SW	10	..	..	Nb.	SW	10	..	..	Nb.	..	9·3
18	NW 4	W 4	W 3	3·7	6·7	63	7	Ci.-Cu.	W	Nb.	NW	4	Ci.	W	Cu.	NW	10	..	..	..	..	7·0
19	NW 3	NNW 5	NNE 5	4·3	0·0	0	10	..	..	..	..	10	..	..	Nb.	N	4	..	..	Cu.	..	8·0
20	NE 4	ENE 4	E 4	4·0	6·6	62	7	A.-Cu.	NE	Cu.	NE	2	..	..	Cu.	..	2	..	..	..	..	3·7
21	E 2	E 3	ESE 3	2·7	9·9	95	4	Ci.-Cu., Ci.	N	..	..	2	Ci.	W	..	..	2	..	..	..	..	2·7
22	SE 4	S 5	SW 5	4·7	2·5	24	8	A.-Cu.	SSW	Fr.-Nb.	SE	8	..	..	Nb.	S	0	..	..	..	..	5·3
23	S 4	SSW 3	S 3	3·3	7·1	68	6	Ci.-Cu.	SW	Fr.-Nb.	S	6	..	..	Cu.	SW	6	..	..	..	..	6·0
24	S 3	SSW 4	S 5	4·0	3·2	31	7	A.-Cu.	S	Nb.	SW	8	..	..	{St.-Cu. Cu.-Nb.}	SW	5	..	..	..	..	6·7
25	SW 6	WSW 5	W 2	4·3	6·2	60	7	Ci.-Cu., Ci.	SSW	Cu.-Nb.	SW	6	..	..	Cu.-Nb.	WSW	4	..	..	..	..	5·7
26	NW 2	WSW 3	S 5	3·3	4·0	39	9	..	..	Nb.	NW	3	..	..	Cu.	WSW	10	..	..	..	..	7·3
27	SSW 6	SSW 7	SW 8	7·0	4·3	42	6	..	..	Cu.	SW	6	Ci., A.-Cu.	SW	Cu.-Nb.	..	10	..	..	Nb.	..	7·3
28	SW 6	WSW 5	WSW 4	5·0	1·9	18	7	A.-Cu.	W	Cu.-Nb.	..	10	..	..	Nb.	..	2	..	..	..	..	6·3
29	SSW 5	WSW 6	WSW 6	5·7	3·1	31	10	..	..	Nb.	SW	6	Ci.-Cu.	WSW	Nb.	..	7	..	..	..	..	7·7
30	SSW 6	SW 6	SSW 6	6·0	1·8	18	10	..	..	Nb.	SW	4	Ci.-Cu.	W	Fr.-Cu.	W	10	..	..	Nb.	..	8·0
31	WSW 6	SW 4	SSW 6	5·3	8·7	87	6	..	..	Cu.-Nb.	W	1	..	..	Fr.-Cu.	SW	2	..	..	..	..	3·0
Means	4·3	4·5	4·4	4·4	96·6	29	7·6	—	—	—	—	7·2	—	—	—	—	6·5	—	—	—	—	7·1
Normal	3·5	3·9	3·6	3·7	130·2	39	6·7	—	—	—	—	6·5	—	—	—	—	6·1	—	—	—	—	6·4

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	REMARKS.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	07·6	03·9	04·7	05·4	84·7	87·4	85·0	x 88·3	x 84·4	x 86·0	80·9	90	79	87	85	8·1	● 14 h. 45 m. ●⁰ 21 h.
2	04·3	05·8	05·9	05·4	84·1	86·0	84·1	87·0	83·7	85·0	79·7	84	66	74	75	—	
3	97·0	89·8	90·8	92·6	82·8	86·0	82·7	85·5	82·5	83·9	78·0	88	87	91	89	12·1	● 9 h. 30 m.; strong S. wind. ● til
4	91·8	82·4	71·4	81·8	83·7	85·1	87·1	88·0	83·2	85·4	79·0	90	78	65	78	1·0	● 15 h. 30 m. [about 24 h
5	68·0	67·8	71·6	69·1	84·5	83·1	84·8	85·0	80·9	83·7	80·0	69	98	72	80	11·7	● continuously. [45 m
6	93·4	98·8	96·4	96·2	83·2	83·0	84·3	85·0	81·1	83·3	78·0	83	83	78	81	5·1	q. 3 h. ▲ 12 h. 45 m. ●⁰ shower 13 h
7	83·6	79·2	77·1	80·0	85·1	85·8	85·8	87·5	83·6	85·6	81·3	89	89	79	86	8·4	● storm during night. ↱ for 15 min
8	82·3	87·6	94·7	88·2	83·0	85·0	81·8	85·6	81·7	83·4	78·0	67	69	81	72	5·7	q. ▲ 13 h. 15 m. [at 12 h. 15 m
9	03·8	10·2	16·0	10·0	79·4	83·9	81·5	84·6	79·4	81·8	73·5	85	58	81	75	2·2	Frequent short ● showers.
10	19·2	20·3	22·6	20·7	83·1	83·1	84·8	84·8	81·5	83·5	74·9	81	97	100	93	0·9	● from 12 h. d. and ≡.
11	23·9	23·9	24·2	24·0	84·8	85·4	83·4	85·7	82·4	84·3	83·8	100	95	100	98	0·2	≡ all day and all night.
12	23·0	21·6	21·6	22·0	83·0	84·5	83·4	85·3	81·3	83·5	76·3	100	86	96	94	0·1	≡ till 9 h.
13	20·6	20·3	20·7	20·6	82·3	82·5	82·2	83·0	82·0	82·4	81·5	97	98	100	98	—	≡ all day and all night.
14	20·7	20·7	20·7	20·8	80·7	82·0	84·4	84·4	80·3	82·4	80·0	100	96	93	96	—	≡ till 9 h.
15	20·0	18·3	17·6	18·6	80·6	81·9	79·2	82·5	77·7	80·4	74·3	66	58	68	64	—	Cloudless sky.
16	15·4	10·0	07·4	11·0	75·5	78·1	76·4	79·0	75·2	76·8	71·7	84	66	66	72	—	Fine.
17	98·3	87·9	81·9	89·4	76·0	76·0	77·7	77·9	75·5	76·6	70·8	59	79	94	77	x 18·4	● ✲ ▲ 11 h. 15 m.
18	64·6	55·6	63·6	61·2	77·1	77·4	77·9	78·7	76·4	77·5	74·0	95	93	87	92	14·8	● 5 h. 30 m. ✲ ● 9 h. 15 m.
19	68·0	70·6	74·3	71·0	80·0	79·4	79·9	81·1	78·1	79·7	73·4	63	85	78	75	2·5	● shower 3 h. ▲ squall 13 h. 50 m.
20	79·5	86·2	89·6	85·1	80·6	83·9	81·7	84·2	79·0	81·9	74·3	81	n 51	82	71	8·7	● 0 h.–11 h.
21	90·8	93·5	98·0	94·2	79·7	80·9	79·5	83·8	79·0	80·6	74·8	83	82	92	86	14·3	▲ squall 3 h. 15 m. ● showers.
22	05·6	11·5	17·2	11·5	80·2	84·3	81·4	84·8	80·0	82·1	73·3	76	60	71	69	—	
23	20·6	20·0	18·4	19·6	83·1	83·9	83·4	83·9	81·4	83·1	71·9	72	76	82	77	—	⊕ 13 h. 30 m.
24	15·6	15·4	17·5	16·2	84·0	85·8	85·0	86·1	82·9	84·8	79·6	98	97	98	98	1·7	● 6 h. d. 14 h. [20 m. continuous
25	07·5	99·0	97·5	01·4	85·0	85·0	81·1	85·6	80·0	83·3	83·6	100	88	75	88	14·8	● 4 h.–7 h. 30 m. ≡ till 10 h. ● 16 h
26	99·5	00·0	01·9	00·4	79·3	81·1	79·5	82·6	78·0	80·1	74·0	78	70	69	72	3·5	▲ 3 h. 5 m. q. ≺ in W. 18 h. ↱ fo
																	[short time 22 h. 30 m.
27	08·8	15·1	21·2	15·1	79·1	80·0	79·7	80·8	78·3	79·6	72·3	70	69	68	69	—	
28	24·0	24·3	24·8	24·3	76·4	81·0	78·9	82·1	75·1	78·7	n 67·0	70	59	71	67	—	⌣ 7 h.
29	23·5	20·7	19·6	21·2	76·0	75·9	74·4	78·0	74·2	75·7	68·4	90	81	85	85	—	
30	16·4	14·4	14·6	15·2	72·9	74·9	74·2	n 75·0	n 72·4	n 73·9	70·0	90	83	92	88	—	
Means	03·2	02·5	03·5	03·1	81·0	82·4	81·5	83·5	79·7	81·6	75·9	83	79	83	82	134·2	
Normal	08·4	08·2	08·7	08·4	81·4	83·2	81·9	84·1	80·2	82·2	76·3	82	75	80	79	92·4	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h.	14 h.	21 h.	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
	Dir. (0–12)	Dir. (0–12)	Dir. (0–12)		hr.	%																
1	SSW 5	S 4	SW 4	4·3	5·5	55	5	Ci., A.-Cu.	SW	..	..	9	A.-Cu.	SSW	..	..	10	..	..	Nb.	..	8·0
2	SW 3	WSW 4	SSW 3	3·3	7·2	72	6	A.-Cu.	SW	..	..	8	Ci.	..	Cu.-Nb.	WSW	1	..	..	..	..	5·0
3	S 6	SSW 6	WSW 5	5·7	0·0	0	10	..	..	Nb.	S	10	..	..	Nb.	..	10	..	..	Nb.	..	10·0
4	SW 4	SE 4	SSW 7	5·0	5·1	53	6	A.-Cu.	..	Nb.	SW	10	A.-Cu.	S	..	..	6	..	..	Cu.	SSW	7·3
5	SSW 8	WSW 7	WSW 6	7·0	0·0	0	10	..	..	Nb.	SW	10	..	..	Nb.	..	8	A.-Cu.	..	Cu.-Nb.	WSW	9·3
6	W 5	W 3	SSW 5	4·3	3·4	36	7	..	..	Cu.-Nb.	WSW	6	A.-Cu.	..	Cu.-Nb.	WSW	10	..	..	..	..	7·7
7	SSW 6	SW 5	SSW 6	5·7	2·2	23	10	..	..	Nb.	SSW	6	Ci.-Cu., A.-Cu.	WSW	Cu.-Nb.	SW	10	..	..	..	..	8·7
8	W 4	W 5	NW 5	4·7	3·2	33	8	..	..	Nb.	W	6	..	..	Cu., Cu.-Nb.	W	7	A.-Cu.	..	Cu.-Nb.	NW	7·0
9	WNW 1	NW 3	WNW 3	2·3	5·3	57	4	A.-Cu	NW	Cu.-Nb.	WNW	6	..	..	Cu.-Nb.	NW	5	Ci.-Cu.	NE	St.-Cu.	NW	5·0
10	SW 3	SSW 4	SSW 3	3·3	0·0	0	10	..	..	..	..	10	..	..	Nb. ≡	SW	10	..	..	Nb. ≡	..	10·0
11	W 3	WNW 1	W 1	1·7	0·0	0	10	..	..	≡	..	10	..	..	..	..	10	..	..	≡	..	10·0
12	NW 1	NNW 2	NNE 3	2·0	1·3	14	10	..	..	≡	..	6	Ci.-Cu.	ENE	Cu.-Nb.	NNW	10	..	..	..	..	8·7
13	ENE 2	E 1	E 1	1·3	0·0	0	10	..	..	≡	..	10	..	..	≡	..	10	..	..	≡	..	10·0
14	ENE 2	E 2	ENE 3	2·3	0·0	0	10	..	..	≡	..	10	..	..	..	..	10	..	..	..	..	10·0
15	E 3	NE 4	E 2	3·0	9·1	100	0	..	..	..	..	0	..	..	..	..	0	..	..	..	..	0·0
16	E 3	ESE 4	ESE 4	3·7	6·5	71	7	..	..	Cu.	SE	0	..	..	..	..	0	..	..	..	..	2·3
17	SE 5	E 5	S 3	4·3	0·0	0	8	..	..	St.-Cu.	SE	10	..	..	Nb.	..	10	..	..	..	..	9·3
18	E 5	NNE 6	WNW 5	5·3	0·0	0	10	..	..	Nb.	..	10	..	..	Nb.	NE	10	..	..	Nb.	..	10·0
19	W 4	WSW 5	WSW 5	4·7	1·2	13	10	..	..	Cu.-Nb.	W	10	..	..	Nb.	WSW	7	..	..	Cu.-Nb., Nb.	..	9·0
20	WSW 6	WSW 6	SW 4	5·3	4·6	52	10	..	..	Nb.	SW	3	..	..	Cu.	W	1	..	..	..	..	4·7
21	WSW 1	SW 1	N 1	1·0	1·1	13	8	A.-Cu.	..	Nb.	NW	7	Ci.	SW	Nb.	NW	7	..	..	..	..	7·3
22	WNW 2	W 3	WSW 2	2·3	6·3	72	4	..	..	Cu.	NW	4	Ci.	NW	Cu.	W	3	..	..	..	..	3·7
23	SW 4	SW 5	SSW 6	5·0	3·7	42	10	..	..	..	..	6	{Ci. A.-Cu.}	{SW ..}	..	..	7	..	..	..	..	7·7
24	SSW 5	SW 4	SW 2	3·7	0·0	0	10	..	..	Nb.	..	10	..	..	Nb.	..	10	..	..	..	..	10·0
25	SW 4	WSW 4	W 6	4·7	1·1	13	10	..	..	Nb.	..	10	..	..	..	..	10	..	..	Nb.	..	10·0
26	WNW 2	NW 3	NNW 2	2·3	3·6	41	8	A.-Cu.	..	Nb.	NW	4	..	..	Cu.-Nb.	WNW	6	..	..	Cu.-Nb.	WSW	6·0
27	NNE 4	N 4	N 4	4·0	4·5	52	6	..	..	Cu.-Nb.	NNE	8	..	..	{Cu. Nb.}	{NNE ..}	4	..	..	..	..	6·0
28	— 0	SW 3	S 1	1·3	7·8	91	1	..	..	Cu.	NW	3	..	..	Cu.	SW	1	..	..	..	..	1·7
29	SSW 3	S 3	E 2	2·7	1·7	19	10	..	..	..	..	6	..	..	Cu.	SSE	10	..	..	..	..	8·7
30	E 1	SSE 2	ENE 1	1·3	0·4	4	10	..	..	..	..	8	..	..	Cu.-Nb.	SE	10	..	..	..	..	9·3
Means	3·5	3·8	3·5	3·6	84·7	31	7·9	—	—	—	—	7·2	—	—	—	—	7·1	—	—	—	—	7·4
Normal	3·6	3·8	3·7	3·7	85·2	31	7·3	—	—	—	—	7·0	—	—	—	—	6·4	—	—	—	—	6·9

In the column for air pressure the initial 9 or 10 is omitted.

JERSEY (ST LOUIS OBSERVATORY).—Lat. 49° 12′ N. Long. 2° 6′ W.

Heights above M.S.L. :—H=54 m. H_b=55 m. Above Ground :—h_t=1·48 m. h_r=1·72 m. h_a=8 m.

Day.	Air Pressure at Station Level. 7 h.	14 h.	21 h.	Mean of 3 Readings.	Air Temperature in Degrees Absolute. 7 h.	14 h.	21 h.	Max.	Min.	Mean of 5 Readings.	Min. Temp. on Grass.	Percentage of Humidity. 7 h.	14 h.	21 h.	Mean.	Rain 0 h. to 24 h.	Remarks.
	mb.	mb.	mb.	mb.	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	a. 200+	%	%	%	%	mm.	
1	11·1	08·2	07·4	08·8	77·1	81·3	80·5	81·6	73·3	78·8	70·3	93	76	80	83	—	5 h. 15 m.
2	07·1	07·1	09·1	07·8	79·7	79·9	76·9	80·4	75·4	78·5	72·0	81	70	85	79	—	
3	09·6	10·0	11·5	10·4	76·8	79·0	77·8	79·0	75·4	77·6	72·6	91	81	85	86	—	≡ 8 h.–13 h.
4	10·3	10·3	12·7	11·1	78·7	78·8	78·7	80·1	76·9	78·6	70·6	82	58	60	67	2·3	●⁰ 7 h. ● ✲ ▲ 8 h. 20 m.
5	12·2	09·9	10·0	10·7	78·3	79·6	78·7	80·1	77·9	78·9	73·1	58	*n* 53	70	60	—	5 h. 15 m.
6	11·4	10·3	10·7	10·8	79·0	80·3	80·2	81·0	78·2	79·7	73·6	70	77	74	74	—	
7	10·0	09·4	09·2	09·5	79·9	80·1	79·1	80·4	78·2	79·5	77·0	72	69	76	72	—	≡ over town 21 h.
8	05·9	03·1	98·6	02·6	81·0	82·6	81·0	83·0	78·5	81·2	72·0	86	84	97	89	6·0	● 8 h. 30 m. and 16 h. 10 m.
9	88·0	86·4	83·9	86·2	81·3	81·6	79·6	82·4	78·6	80·7	77·6	82	59	74	72	4·3	q. before 12 h. ● for short time 16 h.
10	80·3	77·9	77·5	78·6	77·9	78·7	77·9	79·1	77·6	78·2	73·6	82	74	84	80	—	5 h. 15 m.
11	75·6	76·2	74·7	75·5	77·9	79·3	78·4	80·0	76·7	78·5	72·6	85	66	84	78	2·4	● 6 h. Squall over sea 10 h. 15 m.
12	70·3	73·9	77·8	73·9	76·2	78·6	76·4	80·5	76·0	77·5	69·6	91	83	93	89	2·5	● 5 h. Frequent ● showers.
13	79·9	80·7	82·2	81·0	75·9	80·0	76·0	80·6	74·8	77·5	69·6	100	69	89	86	5·1	⁰ h. ▲ squall 15 h. 10 m. (short storm)
14	80·7	78·6	80·7	80·0	76·9	76·2	75·9	77·8	75·8	76·5	69·6	68	97	94	86	3·9	●, especially before 12 h. [15 h. 25 m.
15	85·6	90·2	94·4	90·0	78·1	79·0	77·5	79·6	76·2	78·1	71·6	79	67	88	78	4·4	Frequent ● showers.
16	94·6	96·2	99·2	96·7	77·1	80·0	77·4	80·4	75·3	78·0	69·9	89	78	87	85	1·4	
17	00·2	00·3	99·2	99·9	76·5	78·9	77·1	79·4	76·2	77·6	70·7	97	82	75	85	—	5 h. 15 m. ⌣
18	93·5	89·2	89·8	90·8	75·9	73·3	72·8	*n* 76·4	*n* 72·4	*n* 74·2	*n* 67·7	93	96	100	96	—	5 h. 15 m. ⌣⁰. ≡ 12 h.–20 h.
19	87·8	89·1	90·3	89·0	74·9	79·9	76·6	80·5	73·5	77·1	71·2	94	58	93	82	2·3	● in afternoon till 10 h.
20	87·5	87·2	86·3	87·0	76·3	76·8	78·6	80·0	74·6	77·3	72·4	86	87	95	89	—	5 h. 15 m.
21	71·6	79·4	86·6	79·2	81·1	80·6	80·5	82·6	77·6	80·5	76·2	87	70	75	77	12·1	● after 0 h. Squall 15 h. 20 m.
22	86·6	93·8	95·5	92·0	79·7	82·7	80·7	82·8	79·1	81·0	76·4	91	77	86	85	7·0	● frequently. Squall 10 h. 45 m. ⌢² 15 h. 20 m.
23	77·5	90·7	02·8	90·3	84·5	81·0	80·0	*x* 85·0	77·5	81·6	76·3	90	67	55	71	8·8	Strong SW. wind during night. q. ▲
24	08·4	07·2	00·0	05·2	80·6	79·2	77·5	80·8	76·6	78·9	73·9	85	82	57	75	—	[12 h. 45 m. ▲ squall 15 h. 45 m.
25	92·7	01·9	04·8	99·8	81·8	83·1	81·5	83·8	76·7	81·4	75·8	82	64	79	75	3·1	● 0 h.–5 h.
26	02·2	98·8	01·5	00·8	79·7	79·7	79·8	80·5	79·4	79·8	71·2	97	98	97	97	*x* 20·6	● ≡ all day from 5 h.
27	09·0	13·0	17·0	13·0	78·4	79·9	77·2	80·0	77·0	78·5	72·2	86	72	85	81	—	
28	17·5	17·0	14·4	16·3	76·5	80·5	82·6	83·0	74·6	79·4	69·0	95	85	97	92	0·6	≡² 8 h. over town. ● 20 h. 30 m.
29	14·0	12·2	11·0	12·4	83·5	84·0	83·3	84·6	*x* 83·0	*x* 83·7	79·6	93	92	100	95	5·5	●⁰ 14 h. 40 m. ● (continuous) 20 h.
30	10·7	14·6	18·4	14·6	81·7	83·8	82·9	84·0	81·5	82·8	78·7	95	89	96	93	10·2	● and strong wind during night. ● 17 h.
31	18·4	19·8	21·6	19·9	82·5	83·3	83·4	83·6	82·0	83·0	79·2	93	100	100	98	0·9	≡from 8 h. 30 m. Sunshine 10 h.–11 h., then ≡² till 20 h.
Means	97·1	98·1	99·3	98·2	78·9	80·1	78·9	81·1	77·0	79·2	73·1	86	77	84	82	103·4	
Normal	06·3	06·3	07·0	06·6	80·0	81·1	80·3	82·0	78·6	80·4	75·3	84	80	82	82	100·7	

JERSEY (ST LOUIS OBSERVATORY).

Day.	Wind Direction and Force (0–12 on the Beaufort Scale). 7 h. Dir.	(0–12)	14 h. Dir.	(0–12)	21 h. Dir.	(0–12)	Mean.	Sunshine. Total.	Per cent. of Possible.	Cloud Amount (tenths of Sky covered), Type of Cloud, and Direction whence coming. 7 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	14 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	21 h. Tenths.	Upper. Type.	Direction.	Lower. Type.	Direction.	Mean Amount.
								hr.	%																
1	ENE	3	ENE	4	ENE	5	4·0	0·8	10	7	A.-Cu.	SW	..	..	10	A.-Cu.	..	..	..	3	Ci.	..	..	..	6·7
2	ENE	2	NE	4	ENE	3	3·0	8·1	96	3	Ci.	..	..	..	2	Ci.	..	..	..	7	..	..	Cu.-Nb.	ENE	4·0
3	—	0	NNE	1	ENE	1	0·7	0·0	0	10	..	..	..	..	8	..	..	St.-Cu.	N	10	..	..	..	..	9·3
4	N	3	N	4	N	3	3·3	3·2	39	8	..	..	Cu., Nb.	NW	5	..	..	Cu.-Nb.	N	8	..	..	Cu.	NNE	7·0
5	NNW	4	N	5	NNE	5	4·7	7·1	84	5	..	..	Cu.	N	5	..	..	Cu., Cu.-Nb.	NNW	3	..	..	Cu.	NNE	4·3
6	NE	5	NNE	5	NNE	4	4·7	1·7	20	10	..	..	..	..	7	..	..	Cu.	NE	10	..	..	..	..	9·0
7	NE	3	NNW	3	NW	1	2·3	0·2	3	10	..	..	Cu.-Nb.	NE	7	..	..	Cu.-Nb.	NE	10	..	..	..	..	9·0
8	SW	4	WSW	3	SSW	4	3·7	0·6	7	8	..	..	..	..	7	..	..	Cu.-Nb.	WSW	10	..	..	Nb.	..	8·3
9	W	4	WSW	5	SW	5	4·7	4·2	50	10	..	..	Nb.	..	2	..	..	Cu.	..	7	..	..	Cu.-Nb.	SW	6·3
10	SSW	5	SE	4	E	4	4·3	5·3	64	4	..	..	Cu.-Nb.	SW	6	A.-Cu.	S	Cu.	SE	10	..	..	..	..	6·7
11	N	2	WNW	3	SSW	2	2·3	1·4	17	3	A.-Cu.	N	Cu.	N	8	..	..	Cu.-Nb.	WSW	8	..	..	Cu.-Nb., Nb.	SW	6·3
12	WSW	3	W	3	NW	2	2·7	0·8	10	7	{Ci. A.-Cu.	NW}	Cu.-Nb., Nb.	NW	10	..	..	Nb.	WSW	8	..	..	Cu., Cu.-Nb.	NW	8·3
13	—	0	WSW	4	Var.	1	1·7	2·3	27	7	Ci.-Cu., A.-Cu.	SW	..	..	5	Ci.	..	Cu.-Nb.	WSW	3	..	..	..	..	5·0
14	E	2	ENE	4	ENE	2	2·7	0·0	0	10	..	..	Nb.	..	10	..	..	Nb.	E	6	..	..	..	..	8·7
15	NNW	4	NW	4	SSW	3	3·7	2·0	24	8	A.-Cu.	NNE	Nb.	NNE	6	Ci.	NW	Cu.-Nb.	NW	10	..	..	Nb.	..	8·0
16	S	4	SW	3	NW	1	2·7	0·9	11	10	..	..	Nb.	SSW	8	..	..	Cu., Cu.-Nb.	WSW	3	..	..	..	..	7·0
17	ENE	3	ENE	1	ENE	1	1·7	4·7	58	3	Ci.	..	Fr.-Cu.	E	2	A.-Cu.	..	..	..	4	..	..	..	..	3·0
18	S	2	E	1	E	1	1·3	0·0	0	3	..	..	Cu.	S	10	..	..	≡	..	10	..	..	..	..	7·7
19	SSW	5	W	2	SSE	3	3·3	3·9	48	10	..	..	Nb.	..	6	..	..	Cu.	W	10	..	..	..	..	8·7
20	SSE	4	S	4	S	5	4·3	3·8	47	3	Ci., A.-Cu.	..	Cu.	S	6	A.-Cu.	SW	..	..	10	..	..	..	..	6·3
21	S	6	WNW	5	SW	6	5·7	1·7	20	10	..	..	Nb.	..	6	..	..	Cu.-Nb.	WNW	3	..	..	..	..	6·3
22	WSW	4	WSW	5	SSW	3	4·0	5·6	68	10	..	..	Nb.	..	6	..	..	Cu.-Nb.	W	7	..	..	..	..	7·7
23	SSW	7	W	7	W	6	6·7	1·7	20	8	..	..	Cu.-Nb., Nb.	SW	8	..	..	Nb.	WNW	3	..	..	..	..	6·3
24	SW	3	SSE	3	ESE	3	3·0	3·7	46	6	..	..	St.-Cu.	WSW	10	..	..	..	..	10	..	..	..	..	8·7
25	W	6	WSW	4	WSW	2	4·0	2·8	35	7	..	..	Cu.-Nb.	WNW	5	..	..	Cu.	WNW	4	..	..	..	..	5·3
26	ENE	2	ENE	5	NE	4	3·7	0·0	0	10	..	..	Nb.	..	10	..	..	Nb.	..	10	..	..	Nb.	..	10·0
27	ENE	4	NE	4	ENE	3	3·7	6·9	85	3	Ci.	..	Fr.-Cu.	E	3	{Ci. A.-Cu.	W SE}	..	..	1	..	..	..	..	2·3
28	ESE	1	SSW	3	SW	6	3·3	0·8	9	7	..	..	..	..	8	..	..	St.-Cu.	NW	10	..	..	Nb.	..	8·3
29	SW	5	SW	6	SW	6	5·7	0·4	6	10	..	..	..	..	8	A.-Cu.	W	..	..	10	..	..	Nb.	..	9·3
30	WSW	3	W	6	WSW	4	4·3	1·6	19	1	..	..	..	..	9	A.-Cu.	..	Cu.-Nb.	WNW	7	A.-Cu.	..	Cu.-Nb.	W	5·7
31	WSW	3	WSW	3	WSW	4	3·3	0·2	2	10	..	..	..	..	10	..	..	≡	..	10	..	..	..	..	10·0
Means	3·4		3·8		3·3		3·5	76·4	30	7·1	—	—	—	—	6·9	—	—	—	—	7·1	—	—	—	—	7·1
Normal	3·9		4·0		4·0		4·0	61·9	24	7·8	—	—	—	—	7·4	—	—	—	—	7·2	—	—	—	—	7·5

In the column for air pressure the initial 9 or 10 is omitted.