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TEN YEARS SUNSHINE

IN THE

BRITISH ISLES,

1881-1890.

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TEN YEARS SUNSHINE

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BRITISH ISLES

1881-1890.

THE systematic registration of Bright Sunshine was not organized until the year 1880, when an improved form of Campbell's Sunshine Recorder, as devised by Sir G. Gabriel Stokes, and described in the Report of the Meteorological Office for the year ending March 31, 1880, was issued to a number of stations.

Since that date various other instruments have been brought out, all of which may be grouped under one of two classes, those which register *sunheat* and those which register *sunlight*. Of the latter, which work by photography, the two principal forms which have appeared in this country are those of Mr. J. B. Jordan and of Professor H. McLeod, F.R.S.

In the present paper the records dealt with are all from the Campbell-Stokes sun-heat instrument, with two exceptions, Buxton, where the apparatus is of the Jordan pattern, and Glynde, where an early pattern of the Campbell burning instrument was used. Buxton, however, is not represented on the maps.

No record has been inserted in the tables which does not cover at least the five last years of the period, and no figure has been entered on the maps which does not represent the record during ten complete years for the particular month. In one case it has been endeavoured to complete a record. At Southampton a shadow fell on the instrument for about an hour in the winters of 1880-1 and 1881-2, and for this loss of record a slight interpolation has been admitted.

In a few other instances, owing to imperfect adjustment, some part of the record may have been lost, either at the summer or at the winter solstice, in the first year or two, owing to the fact that the sun's image was allowed to travel off the paper to the brass of the frame, so that on the card itself no trace was obtained. It is impossible to introduce any correction for this.

In fact, the very simplicity of the instrument seemed to induce some carelessness in those entrusted with its management at first. It was considered quite enough to place the card correctly in the

frame and then leave it till next day, without ever visiting it, when the sun was shining, to see whether the image was falling on the card, or on the flange of the frame.

In a few cases trouble has arisen from birds picking the cards out of the frames. At one station seagulls were the delinquents, at another jackdaws. Cages have been placed over the apparatus whenever a card has been pecked at or disturbed.

The following is the list of stations, arranged strictly according to latitude. Although this arrangement is not free from objection, it appears on the whole to be the best, as, by adhering to it, the per-centages of Possible Duration, or, in other words, the proportions between the period the sun remained above the horizon in each month, and the period for which it shone brightly enough to yield a record, become comparable in different longitudes.

The number of stations in the table is 46, and though greater than the number of those given on the maps, is still much too small to enable us to lay down lines of equal amount of sunshine with any degree of confidence.

It must always be remembered that the sun will not burn readily at very low altitudes, and that, consequently, if the recorder is placed close to the ground, local ground fogs may interfere with the early and late sunlight. But it may be assumed generally that no record is obtained, even when the instrument is placed at a considerable height above the ground, for at least 15 minutes after sunrise and before sunset. The two following tables, supplied by the Astronomer Royal, afford some interesting information on this point.

ROYAL OBSERVATORY, GREENWICH.

From an examination of the sunshine records for the years 1887 to 1890 the earliest and latest records were found in each month to be as follows:—

MONTH.	Earliest Commencement of Record. Interval after Sunrise.	Latest Termination of Record. Interval before Sunset.
	H.	H.
January - - - -	0.4	0.6
February - - - -	0.7	0.5
March - - - -	0.5	0.6
April - - - -	0.5	0.5
May - - - -	0.6	0.3
June - - - -	0.7	0.6
July - - - -	0.6	0.5
August - - - -	0.5	0.3
September - - - -	0.8	0.4
October - - - -	0.8	0.6
November - - - -	0.8	0.7
December - - - -	0.6	0.5

Aggregate duration of record in the four years 1887 to 1890, within one hour after sunrise or one hour before sunset, in different months of the year:—

MONTH.	Within One Hour after Sunrise.	Within One Hour before Sunset.
	H.	H.
January - - - -	0.7	0.8
February - - - -	1.3	2.4
March - - - -	0.8	2.7
April - - - -	4.5	6.6
May - - - -	3.4	9.0
June - - - -	1.2	3.3
July - - - -	3.2	4.8
August - - - -	4.8	7.6
September - - - -	0.5	6.3
October - - - -	0.6	3.6
November - - - -	0.4	1.3
December - - - -	0.7	0.9
Four years' aggregate - -	22.1	49.3

To obtain the mean aggregate for one year the above numbers must be divided by 4.

The greater aggregate of record near to sunset seems evidently to be due to the less amount of cloud usually prevalent in the evening as compared with that existing in the morning (*see Greenwich Observations, 1841 to 1847*).

(Signed) W. H. M. CHRISTIE.

July 23, 1891.

The slightest film of cirrus, or a little haze in the atmosphere, is enough to check the burning action: the record is therefore said to be one of "bright sunshine."

In the Appendix information is given, for each station, respecting the height of the instrument above the ground and its exposure, together with brief notes as to the character of the districts which the various stations may be considered to represent.

Notes are also given as to any cases in which the record is either defective or not continuous.

I shall now proceed to describe briefly the values for the individual months.

January.—Jersey heads the list with 25 per cent. of possible duration, then follow Aberdeen (24), Dublin and Valencia (22), Geldeston (21), and St. Ann's Head and Parsonstown (20). The Midlands and North of England are much less sunny, and some of the large towns show a very serious deficiency. London gives only 4 per cent. at Bunhill Row and 10 at Greenwich; Glasgow gives 9 and York only 11 per cent.

February.—A great increase is noticeable. Jersey attains 31 per cent., while the three south-western stations, Falmouth, St. Ann's Head, and Valencia, as well as Aberdeen, all rise to 27 per cent. The only stations which fail to record 20 per cent. are Leicester, Glasgow, and London; the lowest of all is Bunhill Row, with 9 per cent.

March shows further progress. Jersey rises to 41 per cent., and, as in the previous month, the three south-western stations, Falmouth, St. Ann's Head, and Valencia, come next, this time with 36. Southampton follows (35), then Geldeston (34), Douglas (33), Southbourne, Cambridge, and Dublin (32), and Aberdeen, Parsonstown, Oxford, and Glynde (31); the only station which does not receive at least 20 per cent. is Bunhill Row (16).

April brings other stations above the line of 40 per cent. Jersey leads with 46, then follow St. Ann's Head (44), Douglas (43), Falmouth (42), Plymouth and Valencia (41), and Southampton and Geldeston (40). It will be seen that York, Worksop, and Strelley show low values. Bunhill Row is improving; it is still the last, but has gained 10 per cent. since March, and is only 5 per cent. behind Greenwich.

May is the sunniest month, except at a few of the southern stations. Jersey heads the list with 52, then come Geldeston (48), Falmouth and Douglas (46), Southbourne and St. Ann's Head (45), Southampton, Plymouth, Dublin, and Valencia (44), Hillington (43), Kew Observatory and Glynde (42), and Cambridge and Cirencester (41). These figures on the south coast, as well as at Oxford, Aspley Guise, and St. Ann's Head, are equalled or outstripped by those for August.

June.—The month of the summer solstice is not particularly sunny. Jersey alone attains 49 per cent., and the other stations showing 40 and upwards are, with two exceptions, all in the south and south-west. Falmouth and St. Ann's Head have 47, Geldeston and Douglas 43, Southampton and Plymouth 42, Southbourne 41, and Valencia 40. Bunhill Row is within 2 per cent. of Greenwich. The two stations in Nottinghamshire have low values.

July is even less sunny than June. Jersey reaches 48 per cent., Falmouth 43, Geldeston, Southampton, and Southbourne 42. It will be seen that Nottinghamshire continues less sunny than Norfolk. Bunhill Row and Greenwich retain precisely the same relation to each other as in June. The least sunny stations are Markree and Glasgow (26 per cent.), and speaking generally the north-western and extreme northern stations are below 30.

August is particularly sunny for central and southern England, and particularly sunless in the north-west of Ireland and of Scotland. Jersey in this month reaches its highest percentage of the year (55), and almost every station in England, south of the latitude of Yarmouth, registers at least 40 per cent. The highest are Falmouth (47), Southampton (46), and Southbourne and St. Ann's Head (45). The worst station is Sandwick in the Orkneys (25); Stornoway and Armagh are not much better (26). The City, Bunhill Row, still keeps only 2 per cent. below Greenwich.

September exhibits a falling off in the values. Jersey secures only 47 per cent., and the only other stations reaching 40 are Plymouth and Southampton. Falmouth and Geldeston both give 39, and St. Ann's Head 38. The worst stations are Markree in the Co. Sligo, Sandwick, Glasgow, and Bunhill Row, which only record 25 per cent.

October shows less than the previous month. Jersey gives only 38, Falmouth 35, Geldeston and Southampton 34, Cambridge and Southbourne 33. The least sunny stations are Bunhill Row (19), Glasgow (20), and Sandwick (21). The Irish stations are improving relatively; the lowest among them is Armagh (24).

November.—In this month there is a total change as regards the Channel Islands, and no explanation of it, as regards possible extra frequency of fogs, or even of cloudiness, is to be found in the meteorological tables for Guernsey published by the late Dr. Elliott Hoskins, F.R.S. The fact remains that in this month alone Jersey is not the sunniest station.

The highest figure is that for Dublin (28), then follow Falmouth (26), Geldeston, Cambridge, and Parsonstown (25), and in the sixth place come Jersey, Aberdeen, and Douglas (24). The west and north of Ireland are about as sunny as Southampton and Oxford. The smallest return is from Bunhill Row, which records only half as much as Greenwich. Glasgow records only 11.

December is the most sunless month of the year. Taking all the stations in the list, 29 in number, which are represented for both December and January, the total per-centages amount to only 463 in December, while they reach 485 in January. Jersey again resumes her place as heading the list, but only with 23. Then come Falmouth (22), Southbourne, Plymouth, and Dublin (21), Geldeston and St. Ann's Head (20). Bunhill Row exhibits the miserable record of 2 per cent., while Glasgow and Greenwich are not much better.

The general conclusions appear to be:—

1. That the sea coast receives more sunshine than the inland parts of the country. This is natural, as the sea coasts are low, as a rule, and clouds form inland where the ground rises to hills.
2. Large manufacturing cities, like London and Glasgow, cannot fairly be compared even with stations in their immediate neighbourhood, particularly in winter. This is evidently due to smoke, which possibly affects to a certain extent all town records.
3. The south and west coast stations, and especially the Channel Islands, are particularly favoured in almost all months of the year. Jersey is the only station recording in any month, on the mean of the 10 years, an average of even one half of its possible duration of sunshine; 52 per cent. was registered there in May and 55 per cent. in August. The highest figure for any other station was only 48 per cent.
4. The east coast of Great Britain, as represented by Aberdeen, Geldeston, and Hillington, is comparatively sunny. In the case of Aberdeen this is evidently due to the position of the observatory with the high Braemar mountains on its western side.
5. In the summer and early autumn the north-west of Ireland and of Scotland, with the Orkneys, receive very little sunshine.
6. In the late autumn Ireland generally receives more sunshine than most of England.

During the period under investigation the month in which most sunshine was recorded over the United Kingdom was May 1882. In that month at least 50 per cent. of possible duration was registered at 33 stations being 25 in England and Wales, 5 in Ireland, 1 in Scotland, 1 in the Isle of Man, and 1 in Jersey. The mean of all these stations gave 55 per cent.; the highest figure was 61, and this was reached at Southbourne and Geldeston.

June 1887, Her Majesty's "Jubilee" month, was nearly equal to that just described; 50 per cent. was registered at 24 stations, being 17 in England, 5 in Ireland, 1 in the Isle of Man, and 1 in Jersey. The mean of all these stations was 56 per cent. The highest figure was 68 (Falmouth), and this was followed closely by Plymouth, with 65.

The months of July and August 1887 were also very cloudless, at least in southern and eastern England. For those districts, therefore, the summer of 1887 was exceptionally sunny, but no

station in Ireland or over England north of latitude 52° (except Aspley Guise, Cambridge, Geldeston, and Hillington) registered 50 per cent. after June. In July 17 stations surpassed 50 per cent.; the average of these was 56, and the highest record 60 per cent. at Southampton and Jersey. In August 14 stations exceeded 50 per cent., being the same stations as were cited for July, with the exceptions of Greenwich, Glynde, and Cambridge, which fell short of 50. The average of the 14 stations was 58. The highest record was, as in July, at Jersey, and was 68. Falmouth was only 1 per cent. less, 67.

In the foregoing comparison all stations have been excluded which were not represented for all of the four months under review.

If shorter periods than a month be taken higher per-centages of possible duration may be discovered. For instance, the record for Jersey, for two weeks, that from February 22nd to February 28th, and that from September 6th to September 12th inclusive, in the year 1891, is probably as high as is attainable in our climate. It was 89 per cent. in each case.

APPENDIX.

STATISTICS as to POSITION of STATIONS, &c.

STATION.	Lat.	Height of Recorder above Ground.	Remarks as to Exposure of Instrument, &c.
Orkney Islands	58 56	Ft. 6½	During the ten years the recorder has occupied three positions, all of them on the Island of Mainland. For the first five years it was at Sandwick, one of the most westerly of the Orkney parishes; it was then removed to Swanbister, 10 miles to the south-eastward, where it remained until August 1890, when it was again removed to Stenness, a distance of 4 miles to the northward. At each of these stations the exposure was very good, the hills being too distant to interfere with the sun's rays, except at Stenness, where in December and January they were cut off for a short time after sunrise; it is unlikely, however, that any record was really lost thereby, the horizon being usually cloud-laden at that season of the year.
Stornoway, Hebrides	58 11	8	The instrument has occupied two positions in Stornoway, in both of which its exposure was good. A house stands due west of the recorder in its present position, and rises 32 feet above it at a distance of 40 yards; this would interfere with the record for a short time each year, but not to a great extent, and it is the only obstacle to a perfectly free horizon. The instrument stands about 400 yards from the sea, and the country west, north, and east is slightly undulating or level. At this station, one month, May 1877, is missing, and the values for the next month, June, are only approximate.
Aberdeen	57 10	75	The recorder is placed on Cromwell's Tower, King's College, and the exposure is good all the year. It is near the sea to the eastward. The town lies 1 mile to the southward, while to the west and north the ground rises, with hills in the distance.
Glasgow	55 53	24	The instrument is not sheltered at any time of the year. The Observatory "is situated in one of the suburbs of Glasgow, and the results obtained with the recorder constitute therefore an imperfect exponent of the sunshine of the district, the Vale of Clyde, which is here about 15 miles in breadth."
Durham	54 46	29	Good exposure. Haze (from smoke) is seldom sufficient to prevent the sun from burning the card. The observatory stands upon a hill about half a mile from the city, the River Wear flowing in the valley between. The record is defective for several months in 1883, 1884, and 1885.
Newton Reigny, Cumberland.	54 41	10	Perfect exposure. The instrument is placed in a gently undulating plain, which stretches from the Cross Fell range to Saddleback, and from Carlisle to Appleby, which district it fairly represents. The record did not commence till May 1883.
Armagh	54 21	38	Perfect exposure. The site of the instrument is a quarter of a mile from the city, and the surrounding country is undulating, pastoral, without extensive woods or lakes in the immediate neighbourhood.
Oswaldkirk, York-shire.	54 12	30?	Sun's rays cut off by rising ground and trees after 6 p.m. The site overlooks the Vale of Mowbray, and is a mile distant from any village. This station was started at the beginning of 1886.

Station lies a little E. of N. from York.

STATION.	Lat.	Height of Recorder above Ground	Remarks as to Exposure of Instrument, &c.
Markree Castle, Sligo	54 11	Ft. 16½	Trees cut off the sun's rays near sunrise and sunset, otherwise the exposure is good. The Ox mountains lie to the northward, but to the southward the country is perfectly open.
Douglas, Isle of Man	54 10	6½	Quite unsheltered. The instrument stands on a plateau 1 mile from the sea, the land to the northward rising to mountains 6 miles distant.
York	53 57	50	Instrument is placed on the roof of the Friends' Boys' School in York. The horizon is seldom sufficiently clear of smoke and mist to obtain a record within an hour of sunrise and sunset.
Stonyhurst College, Lancashire.	53 51	4	The instrument is very slightly sheltered at sunrise in spring and sunset in mid-winter. The country around is very open, but hilly.
Blackpool	53 48	15	Perfectly exposed. Instrument placed on roof of room on North Pier Head, 500 feet from shore. Surrounding district is very flat. The record did not commence till January 1882.
Dublin, Phoenix Park	53 22	33½	Trees obstruct the early and late sunshine. The station is well removed from the city, which lies to the east of it. The surrounding country is undulating.
Workshop, Notts	53 22	50	Good exposure. The surrounding country is rather flat.
Llandudno	53 21	12	During the greater part of the period the instrument was placed on the Great Orme's Head, with a perfect exposure; but owing to the difficulty of finding a caretaker, it was, for a short time at the beginning of the period and again during the last four months of 1890, placed on a kiosk on Llandudno Pier, where the exposure was less satisfactory, the evening sun being cut off by the Great Orme's Head. Records for three Januaries and two Decembers are missing, and consequently the mean values for those months have been omitted.
Buxton, Derbyshire	53 14	30	The instrument is of Jordan's pattern, is well exposed, and although the station is surrounded by hills on the N., W., and S., they are too distant to affect the record. The instrument is a Jordan recorder. It was not erected till July 1881, and the record is defective for August and September 1884. The observer has also been repeatedly changed, and the figures therefore have not been entered on the maps.
Parsonstown, King's Co.	53 6	53	The recorder is mounted on the wall of the telescope building, and is perfectly exposed. The surrounding country is level and boggy in parts, and not densely wooded.
Strelley, Notts	53 4	21	The instrument was removed to Southwell in April 1887. At Strelley it stood on high ground free from fogs and mists, but at Southwell it was in a hollow surrounded by hills, and subject to thick fogs in winter. For three weeks each side of the summer solstice the sun is cut off for an hour after sunrise at the latter station.
Hillington, Norfolk	52 43	32	The instrument was originally placed near the ground, but was moved to its present site in 1884. The surrounding country is flat or undulating, with a large proportion of grass land.
Leicester	52 39	65½ 11½	Till March 1888 the instrument was placed on the tower of the School of Art buildings in the town of Leicester. The surrounding country is flat. The instrument was then returned to the Office. In December of the same year the Rev. T. A. Preston, M.A., of Thurstaston, Leicestershire, kindly undertook to resume the observations. There is, however, a gap of nine months in the record.

STATION.	Lat.	Height of Recorder above Ground.	Remarks as to Exposure of Instrument, &c.
Churchstoke, Montgomeryshire.	52 31	3½	The instrument is slightly shaded at sunrise and sunset in summer, but from June 1887 to March 1890 it was on a tower 60 feet high, where its exposure was perfect. The station stands on high ground in a hilly district, with hills from 1,500 to 1,700 feet high 2½ miles distant. The record is continuous, with the exception of the month of February 1890.
Geldeston, Norfolk.	52 28	22	Good exposure; a little trace is lost by a chimney at one part of the year, but this is allowed for. The station is on the northern slope of the Waveney Valley, about 40 feet above the bottom of the valley, which is here two-thirds of a mile wide.
Cambridge	52 13	30	The recorder is erected on a stand attached to the railings of the portico of the observatory. The exposure is perfect, except that in December and early January the sunrise is slightly hid by distant trees. The town of Cambridge lies about half a mile to the south-eastward, and the country is level and open.
Aspley Guise, Bedfordshire.	52 1	40	The exposure is very good, the instrument being on a tower at end of the house. Prior to 1885 it was on a stand in the grounds at a height of about 4 feet.
Valencia, Co. Kerry	51 55	7	The exposure is very good. The instrument is quite close to the sea, while the surrounding country is hilly and without trees, but the horizon is clear for sunshine.
Berkhamsted, Herts	51 46	30	Instrument well exposed. The station is on the northern slope of the Berkhamsted Valley, and about 60 feet above its lowest part. The valley is about half a mile wide, and the ground rises rapidly on either side of it. The record commenced with January 1886.
Oxford	51 46	100	The exposure is perfect. The observatory stands about half a mile to the westward of the city, and has open ground on all sides of it. The record is not affected by the smoke of the city.
Cirencester	51 43	80 12½	The instrument was, till September 1888, on the tower of the Royal Agricultural College, but it was then removed to the garden; in both positions the exposure was good. The station is on the southern flank of the Cotswold Hills, and is very openly situated.
St. Ann's Head, Milford Haven.	51 41	5	Perfect exposure. The instrument is placed on high ground with the open sea to the west and south, and Milford Haven to the east.
LONDON:— Bunhill Row	51 32	80	The instrument was for a short time erected on the roof of the London Institution, Finsbury Circus, but on the 30th of November 1880 it was transferred to the roof of the Star Works, Bunhill Row, where a site was provided by the kindness of the late Mr. Warren de la Rue, F.R.S. Good exposure, but slightly sheltered early in the morning during a portion of the year. The instrument is placed well above the surrounding buildings, and represents the sunshine of central London very accurately.
Westminster, Meteorological Office.	51 31	73	Somewhat sheltered till 30 minutes after sunrise, and for an hour before sunset. Exposure otherwise good. The station is about half a mile from the river, and the surrounding district is thickly populated, and lies low. The record commenced with January 1883, but, from April 1880 till March 1881, the record was obtained from the the roof of Queen Anne's Mansions close by.

STATION.	Lat.	Height of Recorder above Ground.	Remarks as to Exposure of Instrument, &c.
Greenwich Observatory.	51 28	21	Trees cut off the sun for a few minutes soon after sunrise during a portion of the year. The instrument is placed on a plateau 170 feet above mean sea level, and having an abrupt declivity northwards towards the river. There are no houses in the immediate neighbourhood, but there are thickly populated districts to the west and north.
Kew Observatory, Richmond.	51 28	47	Very good exposure, except that a few minutes' sunshine may be lost in mid-winter from isolated trees. The instrument is in the Old Deer Park, not far from the river, and well removed from houses.
Marlborough, Wilts	51 25	21 60 (about)	Until 1886 the instrument was placed on a brick pier on a greenhouse, but in that year it was removed to a new site, on one of the College buildings, about 60 feet above the ground. In both positions the exposure was very good. The station is on the northern side of the valley, with Savernake Forest to the south and Marlborough Downs to the north. The record commenced with July 1881. It was interrupted for the first six months of 1886, for May and June 1887, and for the second quarter of 1888.
Harestock, Hants	51 5	5	Exposure perfect, except after 7.15 p.m. at mid-summer. Station stands on high and open ground, the surrounding land being arable, and with few trees. The record commenced with January 1882.
Southampton	50 55	46	Until July 1882 the instrument was placed at a height of 53 feet above the ground, but as it was sheltered there from 10.15 to 11.15 a.m. for a month before and after the winter solstice, it was shifted to its present position, where the exposure is perfect. The instrument is placed in the town of Southampton. When the instrument was first erected at the Ordnance Survey Office it was found that the shadow of a chimney cut off the solar record for about an hour daily for a month on either side of the winter solstice. In July 1882 the recorder was removed to the roof of the office where the exposure is unexceptionable. The records for January 1881 and 1882, and for November and December 1880 and 1881, have therefore been increased by the amount estimated to have been lost by the shadow, being nearly one hour each day the sun was shining between 10.15 and 11.15 a.m.
Glynde, Sussex	50 52	12	Good exposure. The station is 4 miles from the sea, and is situated in a valley amongst the Southdown Hills.
Cullompton, Devon	50 51	15½	Some of the early and late sunshine may be lost, but only to a very slight extent. The neighbourhood is rather hilly, but the town is small and free from smoke. The record did not commence till July 1881.
St. Leonards, Sussex	50 51	4	Perfect exposure. The instrument is erected about a mile from the sea, on the top of a hill 200 feet high. The record did not commence till August 1882.
Southbourne, Hants	50 44	2	Owing to the growth of trees the exposure of the instrument has become less and less satisfactory, and the observer estimates that for 1890 10 per cent. of the total amount of bright sunshine was lost by their shadows; the loss varies with different seasons of the year.
Rousdon, Devon	50 42	4 24½	Till 1888 the height of the instrument above the ground was 4 feet; it was then raised to 24 feet, and in 1890 again lowered to 4 feet. The position of the instrument is near the edge of a cliff 524 feet high, with an uninterrupted sea horizon from Portland Bill to Start Point. The record did not commence till June 1884.

STATION.	Lat.	Height of Recorder above Ground.	Remarks as to Exposure of Instrument, &c.
Ventnor, Isle of Wight.	50 36	Ft. 4	The instrument is at St. Lawrence, and in summer the early and late sun is cut off by the cliff and by St. Boniface Down. The record did not commence till January 1885.
Plymouth - - -	50 22	40 } 45 }	For the first five years the height was 40 feet; it was then changed to 45 feet. The instrument was situated in the north-east portion of Plymouth, on rising ground, close to a park 9 acres in extent. The record did not commence till April 1881.
Falmouth - - -	50 9	50 } 34 }	Perfect exposure. The instrument has occupied two positions, both of which were on the highest part of the town, where it was interfered with by smoke. The surrounding country is hilly, but open and only slightly wooded. The height was changed in 1885. When the instrument was first erected at this observatory the stand was not perfectly adjusted for latitude, and consequently some of the record for a few days on either side of the winter solstice of 1880 was lost, the sun's image falling on the flange of the frame. The error was set right in December 1881, in time to prevent any loss of record during that winter.
Jersey - - -	49 11	20 } 44 }	The instrument has occupied four positions, the height in the last three being 44 feet. In its first position the exposure was not good for evening sun, but at its subsequent positions the exposure has been perfect.

SANDWICK—SWANBISTER. Lat. 58° 56'.

YEARS.	JAN.	FEB.	MARCH.	APRIL.	MAY.	JUNE.
	Hrs.	%	Hrs.	%	Hrs.	%
1880 - - -	—	—	53	20	142	40
1881 - - -	44	21	35	14	59	17
1882 - - -	25	12	46	18	80	22
1883 - - -	44	21	54	22	58	16
1884 - - -	13	6	57	22	103	29
1885 - - -	9	4	45	17	54	15
5 years (1881-5) -	135	13	237	19	354	20
1886 - - -	27	13	63	25	108	30
1887 - - -	39	19	54	21	115	32
1888 - - -	35	17	73	28	78	22
1889 - - -	29	14	44	17	76	21
1890 - - -	44	21	51	20	96	27
5 years (1886-90) -	174	17	285	22	473	26
10 years (1881-90) -	309	15	522	20	827	23

YEARS.	JULY.	AUGUST.	SEPT.	OCT.	NOV.	DEC.
	Hrs.	%	Hrs.	%	Hrs.	%
1880 - - -	136	26	154	32	128	33
1881 - - -	143	27	138	29	78	20
1882 - - -	175	33	71	15	103	27
1883 - - -	170	32	96	20	96	25
1884 - - -	168	32	158	33	88	23
1885 - - -	155	29	91	19	110	29
5 years (1881-5) -	811	30	554	24	475	25
1886 - - -	141	26	129	27	117	31
1887 - - -	151	28	103	22	83	22
1888 - - -	126	23	123	26	111	29
1889 - - -	161	30	142	30	92	24
1890 - - -	150	28	127	27	87	23
5 years (1886-90) -	729	27	624	26	490	26
10 years (1881-90) -	1,540	29	1,178	25	965	25

STORNOWAY. Lat. 58° 11'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	142	33	218	44	216	41
1881	39	18	56	22	80	22	162	37	197	39	183	35
1882	23	11	29	11	89	25	148	34	279	56	176	33
1883	51	23	57	22	127	36	159	37	135	27	202	38
1884	15	7	73	27	88	25	129	30	188	38	136	26
1885	15	7	57	22	94	26	182	43	151	30	160	30
5 years (1881-5)	143	13	272	21	478	26	780	37	950	37	857	32
1886	23	11	9	35	100	28	183	43	174	34	156	29
1887	15	7	59	23	104	29	107	25	—	—	212*	40*
1888	25	11	66	25	111	31	112	26	161	32	238	45
1889	35	16	58	23	86	24	148	35	151	30	180	34
1890	29	13	58	23	107	30	193	45	227	44	146	27
5 years (1886-90)	127	12	332	26	508	28	743	35	—	—	932	35
10 years (1881-90)	270	12	604	23	986	27	1,523	36	—	—	1,789	34

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	154	29	145	30	117	30	101	32	45	19	21	11
1881	119	23	130	27	89	23	101	32	19	8	29	15
1882	155	29	84	18	103	27	91	29	40	17	37	19
1883	128	24	90	19	127	33	101	32	58	25	23	12
1884	163	31	99	21	134	35	59	19	55	24	6	3
1885	151	28	152	33	107	28	99	32	30	13	20	10
5 years (1881-5)	716	27	555	24	560	30	451	29	202	18	115	12
1886	149	28	123	26	128	34	113	36	39	17	31	16
1887	145	27	113	24	73	19	59	19	36	16	34	17
1888	160	30	151	32	77	20	56	18	62	27	23	12
1889	147	28	124	27	112	30	130	42	24	10	23	12
1890	134	25	137	29	115	30	55	18	51	22	50	26
5 years (1886-90)	735	28	648	28	505	27	413	26	212	18	161	17
10 years (1881-90)	1,451	27	1,203	26	1,065	28	864	28	414	18	276	14

* The values for June 1887 are approximate only.

ABERDEEN. Lat. 57° 10'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	135	32	211	42	186	35
1881	83	37	48	15	138	39	126	30	248	50	178	34
1882	63	28	93	35	148	39	117	27	248	49	193	37
1883	53	23	81	31	138	39	155	37	169	34	186	35
1884	59	26	60	22	79	22	134	32	169	34	160	30
1885	15	7	79	30	112	31	158	37	165	33	197	37
5 years (1881-5)	276	25	353	27	605	33	685	32	999	40	914	35
1886	46	20	70	27	77	21	171	40	157	31	193	37
1887	51	23	70	27	150	41	147	35	195	39	217	41
1888	52	23	75	28	76	21	150	35	211	42	217	41
1889	60	27	78	30	87	24	97	23	198	39	245	47
1890	64	29	49	19	121	33	180	43	173	34	168	32
5 years (1886-90)	273	24	342	26	511	28	745	35	934	37	1,040	40
10 years (1881-90)	549	24	695	27	1,116	31	1,430	34	1,933	38	1,954	37

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	160	30	138	30	150	41	98	31	84	36	45	22
1881	147	27	157	33	57	15	80	26	54	23	58	28
1882	220	42	167	37	102	28	86	27	54	22	20	10
1883	139	26	158	35	114	31	133	43	82	35	46	23
1884	141	27	182	40	138	37	90	29	47	20	24	12
1885	215	41	150	32	143	38	104	33	45	19	56	28
5 years (1881-5)	857	33	808	35	554	29	492	31	278	24	202	20
1886	199	38	160	35	130	34	47	15	71	30	56	28
1887	205	39	153	33	104	27	105	33	38	16	47	23
1888	136	26	144	31	130	35	86	27	37	16	32	16
1889	156	30	133	29	105	28	78	25	71	30	24	12
1890	159	30	155	33	134	35	104	33	58	24	18	9
5 years (1886-90)	855	33	745	32	603	32	420	27	275	23	177	18
10 years (1881-90)	1,712	33	1,553	34	1,157	31	912	29	553	24	379	19

GLASGOW. Lat. 55° 53'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	139	33	187	37	205	39
1881	18	8	48	19	79	23	167	40	228	46	156	30
1882	11	5	38	14	87	24	122	30	212	42	148	28
1883	19	8	52	20	104	29	107	26	146	29	149	28
1884	17	7	38	14	56	16	100	24	142	28	110	21
1885	12	5	48	18	89	25	134	32	122	24	152	29
5 years (1881-5)	77	7	224	17	415	23	632	30	850	34	715	28
1886	30	13	33	13	56	15	149	35	93	19	152	29
1887	17	7	50	19	78	21	140	33	170	34	199	38
1888	31	13	57	21	89	25	95	23	178	36	213	41
1889	19	8	64	24	89	25	100	24	127	25	212	41
1890	26	11	30	11	80	22	149	35	178	36	103	20
5 years (1886-90)	123	11	234	18	392	22	633	30	746	30	879	34
10 years (1881-90)	200	9	458	17	807	22	1,265	30	1,596	32	1,594	31

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	162	31	141	31	99	27	98	31	32	13	22	11
1881	117	21	144	32	66	18	76	24	29	12	12	6
1882	128	24	159	35	89	24	47	13	18	8	14	7
1883	160	30	123	27	111	30	90	29	36	15	18	9
1884	108	21	111	24	111	30	52	17	33	14	3	1
1885	150	29	122	27	106	28	78	25	14	6	17	8
5 years (1881-5)	658	25	660	29	483	26	338	21	130	11	64	6
1886	152	29	105	23	94	25	56	18	45	19	37	18
1887	146	28	150	33	87	23	71	22	4	2	8	4
1888	94	8	133	29	90	24	60	19	15	6	16	8
1889	144	28	114	25	109	29	44	14	36	15	23	11
1890	146	28	137	30	93	25	65	21	37	16	4	2
5 years (1886-90)	682	26	639	28	473	25	296	19	137	11	88	8
10 years (1881-90)	1,340	26	1,299	28	956	25	634	20	267	11	152	7

DURHAM. Lat. 54° 46'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	140	28
1881	51	21	38	14	123	34	110	26	256	51	140	28
1882	57	24	68	26	127	36	119	29	241	48	193	39
1883	41	17	82	31	132	37	131	31	213	43	132	26
1884	26	11	41	15	83	23	—	—	193	39	—	—
1885	17	7	41	15	—	—	—	—	—	—	180	35
5 years (1881-5)	192	16	270	20	—	—	—	—	—	—	—	—
1886	51	22	61	23	83	23	125	30	100	20	155	30
1887	41	17	88	33	138	38	145	35	98	20	179	35
1888	36	15	55	20	84	23	97	23	202	41	140	27
1889	48	20	75	28	95	26	79	19	145	29	214	42
1890	56	24	57	22	98	27	121	29	153	31	127	25
5 years (1886-90)	232	20	336	25	498	27	567	27	698	28	815	32
10 years (1881-90)	424	18	606	23	—	—	—	—	—	—	—	—

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	118	24	139	31	143	39	74	23	71	29	55	25
1881	168	34	145	32	66	18	94	29	53	22	51	23
1882	195	39	182	40	104	28	73	23	61	25	22	10
1883	158	32	167	37	99	27	103	32	81	33	—	—
1884	—	—	181	40	107	28	—	—	—	—	—	—
1885	183	36	99	22	139	37	77	24	31	12	51	24
5 years (1881-5)	—	—	774	34	515	27	—	—	—	—	—	—
1886	179	35	165	36	73	19	55	17	83	34	79	37
1887	216	42	175	38	95	25	95	30	40	16	49	23
1888	94	18	129	28	118	31	79	25	38	16	45	21
1889	126	25	121	26	117	31	42	13	54	22	47	22
1890	159	31	163	36	144	38	123	39	56	23	11	5
5 years (1886-90)	774	30	753	33	547	29	394	25	271	22	231	21
10 years (1881-90)	—	—	1,527	33	1,062	28	—	—	—	—	—	—

NEWTON REIGNY. Lat. 54° 41'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	—	—	—	—	—	—	—	—	—	—	—	—
1882	—	—	—	—	—	—	—	—	—	—	—	—
1883	—	—	—	—	—	—	—	—	215	43	154	31
1884	—	—	22	9	35	13	85	24	129	31	223	45
1885	—	—	20	8	36	14	94	26	134	32	153	31
5 years (1881-5)	—	—	—	—	—	—	—	—	—	—	—	—
1886	—	—	47	20	49	18	93	25	156	37	16	23
1887	—	—	40	17	83	31	118	33	181	43	147	30
1888	—	—	45	19	66	24	89	25	97	23	208	42
1889	—	—	41	17	62	23	91	25	100	24	195	39
1890	—	—	38	16	80	30	100	27	149	36	214	43
5 years (1886-90)	211	18	340	25	490	27	683	32	880	36	1,050	41
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	—	—	—	—	—	—	—	—	—	—	—	—
1882	—	—	—	—	—	—	—	—	—	—	—	—
1883	—	—	157	31	134	29	106	29	106	33	51	21
1884	—	—	131	26	172	38	135	36	75	23	47	19
1885	—	—	221	43	119	26	126	34	61	19	40	16
5 years (1881-5)	—	—	—	—	—	—	—	—	—	—	—	—
1886	—	—	108	39	166	36	108	29	69	22	60	24
1887	—	—	218	43	175	38	112	30	86	27	30	12
1888	—	—	110	21	144	31	142	38	73	23	23	9
1889	—	—	180	35	89	20	150	40	55	17	57	23
1890	—	—	158	31	153	34	139	37	89	28	55	23
5 years (1886-90)	864	34	727	32	651	35	372	23	225	18	150	14
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

ARMAGH. Lat. 54° 21'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	30	12	76	27	117	32	181	43	222	44	164	33
1881	57	23	43	16	102	28	156	37	239	47	168	32
1882	44	18	61	23	99	27	140	33	288	58	187	37
1883	56	23	64	24	135	36	167	40	181	36	157	31
1884	22	9	51	18	64	17	141	34	131	26	105	21
1885	47	19	69	26	88	24	116	28	157	32	170	34
5 years (1881-5)	226	19	288	21	501	28	718	34	993	40	779	31
1886	33	14	47	18	52	14	150	36	114	23	142	28
1887	32	13	91	34	106	29	166	40	173	35	254	50
1888	39	16	64	23	63	17	96	23	213	43	188	37
1889	26	11	66	25	84	23	90	22	128	26	225	45
1890	65	27	48	18	125	34	170	41	224	46	123	24
5 years (1886-90)	195	16	316	24	430	24	672	32	852	35	932	37
10 years (1881-90)	421	17	604	22	931	26	1,390	33	1,845	38	1,711	34

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	140	28	172	38	125	34	105	33	58	23	53	24
1881	118	24	137	30	82	22	111	36	71	31	61	28
1882	159	26	131	29	115	31	87	27	63	25	29	13
1883	134	27	113	25	104	28	82	20	59	24	26	12
1884	143	29	112	25	115	31	68	21	48	19	17	8
1885	152	30	115	25	109	29	93	29	50	20	30	13
5 years (1881-5)	677	27	608	27	525	28	430	27	297	24	165	15
1886	137	27	105	23	119	32	61	19	71	28	42	19
1887	149	30	147	32	95	25	59	18	50	20	33	15
1888	108	21	122	27	101	27	78	24	36	14	41	18
1889	167	33	78	17	95	25	78	24	47	19	38	17
1890	150	30	124	27	98	26	72	22	66	26	34	15
5 years (1886-90)	711	28	576	25	508	27	348	22	270	22	188	17
10 years (1881-90)	1,388	27	1,184	26	1,033	28	778	24	567	23	353	16

OSWALDKIRK. Lat. 54° 12'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	-	-	-	-	-	-	-	-	-	-
1881	-	-	-	-	-	-	-	-	-	-	-	-
1882	-	-	-	-	-	-	-	-	-	-	-	-
1883	-	-	-	-	-	-	-	-	-	-	-	-
1884	-	-	-	-	-	-	-	-	-	-	-	-
1885	-	-	-	-	-	-	-	-	-	-	-	-
5 years (1881-5)	-	-	-	-	-	-	-	-	-	-	-	-
1886	54	22	56	21	79	21	138	33	89	18	130	26
1887	46	19	101	38	141	38	174	42	105	21	223	44
1888	34	14	31	11	94	26	92	22	199	41	140	28
1889	37	15	61	23	96	26	83	20	144	29	225	45
1890	44	18	47	18	98	27	150	36	185	38	108	21
5 years (1886-90)	215	18	296	22	508	28	637	30	722	29	826	33
10 years (1881-90)	-	-	-	-	-	-	-	-	-	-	-	-

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	-	-	-	-	-	-	-	-	-	-
1881	-	-	-	-	-	-	-	-	-	-	-	-
1882	-	-	-	-	-	-	-	-	-	-	-	-
1883	-	-	-	-	-	-	-	-	-	-	-	-
1884	-	-	-	-	-	-	-	-	-	-	-	-
1885	-	-	-	-	-	-	-	-	-	-	-	-
5 years (1881-5)	-	-	-	-	-	-	-	-	-	-	-	-
1886	162	32	143	31	101	27	58	18	76	30	83	37
1887	221	44	177	39	77	21	102	32	34	14	38	17
1888	90	18	105	23	102	27	96	30	37	15	43	19
1889	148	30	102	23	101	27	41	13	47	19	38	17
1890	145	29	168	37	146	39	105	33	66	26	19	8
5 years (1886-90)	766	30	695	31	527	28	402	25	260	21	221	20
10 years (1881-90)	-	-	-	-	-	-	-	-	-	-	-	-

MARKREE CASTLE. Lat. 54° 11'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	-	-	-	-	179	43	206	41	206	41
1881	65	27	44	16	122	33	177	42	234	47	127	25
1882	43	18	49	18	129	35	137	33	265	53	151	30
1883	44	18	53	20	136	37	183	44	168	34	162	32
1884	22	9	51	18	73	20	153	37	159	32	113	23
1885	50	21	71	27	98	27	144	34	195	40	160	32
5 years (1881-5)	224	19	268	20	558	31	794	38	1,021	42	713	28
1886	27	11	56	21	65	18	169	40	143	29	131	26
1887	41	17	88	33	120	33	172	41	161	33	253	50
1888	53	22	60	22	87	24	105	25	204	42	178	35
1889	25	10	67	25	81	22	113	27	136	28	185	37
1890	52	22	55	21	102	28	144	34	203	41	123	24
5 years (1886-90)	198	16	326	24	455	25	703	34	847	35	870	34
10 years (1881-90)	422	17	594	22	1,013	28	1,497	36	1,868	38	1,583	31

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	144	29	156	34	118	32	118	37	58	23	36	16
1881	112	22	160	35	97	26	101	31	69	28	67	30
1882	124	25	120	26	121	33	113	35	56	22	27	12
1883	124	25	92	20	91	25	77	24	66	26	31	14
1884	139	28	123	27	99	27	65	20	56	22	18	8
1885	136	27	136	30	90	24	94	29	49	20	34	15
5 years (1881-5)	635	25	631	28	498	27	450	28	296	24	177	16
1886	123	24	92	20	108	29	86	27	49	20	36	16
1887	136	27	146	32	97	26	72	22	53	21	28	13
1888	100	20	150	33	74	20	83	26	46	18	39	17
1889	160	32	101	22	84	22	87	27	35	14	31	14
1890	135	27	158	35	75	20	66	21	60	24	53	24
5 years (1886-90)	654	26	647	29	438	23	394	24	243	19	187	17
10 years (1881-90)	1,289	26	1,278	28	936	25	844	26	539	22	364	16

CRONKBORNE (DOUGLAS) ISLE OF MAN. Lat. 54° 10'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	200	48	244	49	204	41
1881	67	27	69	26	119	32	181	43	279	56	206	41
1882	34	14	35	13	112	30	156	37	301	60	216	43
1883	43	18	74	27	166	45	177	42	235	47	210	42
1884	32	13	55	20	81	22	169	41	205	41	212	42
1885	32	13	64	24	127	35	169	41	200	41	217	43
5 years (1881-5)	208	17	297	22	605	33	852	41	1,220	50	1,061	42
1886	43	18	44	16	90	25	191	46	154	31	192	38
1887	44	18	91	34	129	35	243	58	186	38	279	55
1888	31	13	104	37	134	37	164	39	230	47	202	40
1889	46	19	83	31	112	31	125	30	209	43	277	55
1890	46	19	67	25	134	37	206	49	244	50	161	32
5 years (1886-90)	210	17	389	29	599	33	929	44	1,023	42	1,111	44
10 years (1881-90)	418	17	686	25	1,204	33	1,781	43	2,243	46	2,172	43

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	180	36	194	43	144	39	115	36	76	30	51	23
1881	142	28	142	31	112	30	102	32	56	22	71	32
1882	202	40	192	42	137	37	93	29	52	21	41	18
1883	216	43	173	38	134	36	108	33	88	35	39	18
1884	186	37	188	41	153	41	98	30	61	24	35	16
1885	229	45	177	39	146	39	117	36	52	21	33	15
5 years (1881-5)	975	39	872	38	682	37	518	32	309	25	219	20
1886	209	41	147	32	118	32	93	29	73	29	70	31
1887	247	49	205	45	156	42	113	35	76	30	49	22
1888	124	25	166	37	145	39	83	26	36	14	36	16
1889	213	42	126	28	129	35	87	27	53	21	45	20
1890	195	39	191	42	128	34	104	32	63	25	15	7
5 years (1886-90)	988	39	835	37	676	36	480	30	301	24	215	19
10 years (1881-90)	1,963	39	1,707	38	1,358	36	998	31	610	24	434	19

YORK. Lat. 53° 57'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	187	37	140	28
1881	36	15	35	13	106	29	149	36	272	54	155	31
1882	31	13	47	17	115	31	138	33	273	55	170	36
1883	22	9	71	26	133	36	135	32	201	40	170	34
1884	24	10	34	12	87	23	126	30	210	42	175	35
1885	3	1	29	11	69	19	87	21	161	33	168	33
5 years (1881-5)	116	10	216	16	510	28	635	30	1,117	45	847	34
1886	17?	7?	47?	18?	82	23	132	32	97	20	152	30
1887	31	13	96	36	110	30	182	44	111	23	205	41
1888	25	10	65	23	97	27	97	23	222	45	141	28
1889	31	13	66	25	94	26	97?	23?	134	27	238	47
1890	36	15	46	17	92	25	143	34	190	39	103	20
5 years (1886-90)	140	12	320	24	475	26	651	31	754	31	839	33
10 years (1881-90)	256	11	536	20	985	27	1,286	31	1,871	38	1,686	33

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	100	20	219	48	—	—	—	—	—	—	45	20
1881	175	35	130	29	78	21	96	30	44	18	27	12
1882	172	34	180	40	99	27	70	22	51	20	15	7
1883	154	31	164	36	100	27	94	29	48	19	29	13
1884	143	29	193	42	115	31	96	30	34	14	6	3
1885	170	34	61	13	139	37	64	20	17	7	12?	5?
5 years (1881-5)	814	32	728	32	531	28	420	26	194	16	89	8
1886	162	32	151	33	106	28	63	20	68	27	70	31
1887	209	41	194	43	83	22	92	29	30	12	33	15
1888	105	21	125	28	106	28	93	29	42	17	31	14
1889	164	32	114?	25?	103	27	46	14	42	17	21	9
1890	162	32	158	35	124	33	91	28	45	18	1	0
5 years (1886-90)	802	32	742	33	522	28	385	24	227	18	156	14
10 years (1881-90)	1,616	32	1,470	32	1,053	28	805	25	421	17	245	11

STONYHURST. Lat. $53^{\circ} 51'$.

YEARS.		JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
		Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	-	-	-	-	-	159	38	246	49	146	29
1881	-	64	26	48	18	97	26	160	38	265	53	169	34
1882	-	20	8	30	11	79	21	133	32	257	51	166	33
1883	-	36	15	63	23	146	39	154	37	205	41	170	34
1884	-	18	7	42	15	75	20	125	30	214	43	177	35
1885	-	11	5	35	13	98	27	136	33	153	31	197	39
5 years (1881-5)		149	12	218	16	495	27	708	34	1,096	45	879	35
1886	-	38	16	49	18	83	23	146	35	126	26	161	32
1887	-	38	16	89	33	123	34	180	43	172	35	272	54
1888	-	20	8	83	30	93	26	104	25	180	37	170	34
1889	-	26	11	77	29	95	26	96	23	146	30	254	50
1890	-	41	17	64	24	86	24	125	30	206	42	115	23
5 years (1886-90)		163	13	362	27	480	26	651	31	830	34	972	38
10 years (1881-90)		312	13	580	22	975	27	1,359	33	1,926	39	1,851	37

YEARS.			JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
			Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	14	30	203	45	118	32	91	28	77	31	40	18
1881	-	-	147	29	118 ⁹	26	189 ⁹	30	119	37	33	13	18	8
1882	-	-	160 ⁶⁰	32	161	35	100	27	64 ⁴	20	54	22	15	7
1883	-	-	159	32	167	37	111	30	83	26	55	22	24	11
1884	-	-	139	28	192	42	141	38	79	24	60	24	21	9
1885	-	-	217	43	131	29	131	35	63	20	38	15	37	17
5 years (1881-5)			821	33	769	34	593	32	409	25	240	19	115	10
1886	-	-	173	34	147	32	124	33	72	22	56	22	60	27
1887	-	-	247	49	192	42	114	30	104	32	43	17	40	18
1888	-	-	98	19	132	29	132	35	75	23	20	8	27	12
1889	-	-	175 ⁸	35	110	24	118	32	50	16	39	15	20	9
1890	-	-	149	29	147	32	118	32	89	28	53	21	15	7
5 years (1886-90)			842	33	728	32	606	32	390	24	212	17	162	15
10 years (1881-90)			1,663	33	1,497	33	1,199	32	799	25	451	18	277	12

BLACKPOOL. Lat. $53^{\circ} 48'$.

[illegible][illegible]

DUBLIN. Lat. 53° 22'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	-	-	-	-	190	46	226	47	156	31
1881	63	26	61	23	119	32	141	34	273	57	161	32
1882	56	23	55	20	136	37	150	36	281	59	202	40
1883	74	30	77	28	128	35	195	47	207	43	154	31
1884	36	15	49	18	88	24	180	43	191	40	119	24
1885	51	21	88	33	120	33	142	34	187	38	194	39
5 years (1881-5)	280	23	330	24	591	32	808	39	1,139	47	830	33
1886	46	19	63	23	99	27	171	41	159	33	163	33
1887	59	24	101	37	126	35	221	53	199	41	288	58
1888	56	23	61	22	92	25	125	30	238	49	174	35
1889	36	15	72	27	102	28	112	27	158	33	261	52
1890	73	30	58	21	130	38	184	44	234	48	133	27
5 years (1886-90)	270	22	355	26	558	31	813	39	988	41	1,019	41
10 years (1881-90)	550	22	685	25	1,149	32	1,621	39	2,127	44	1,849	37

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	154	31	199	44	134	36	117	36	76	30	56	25
1881	151	30	140	31	103	28	122	38	98	38	63	28
1882	152	30	163	36	123	33	101	31	69	27	37	16
1883	126	25	155	34	136	37	114	35	94	37	48	21
1884	142	28	183	40	148	40	107	33	58	23	32	14
1885	177	35	177	39	156	42	103	32	52	20	49	21
5 years (1881-5)	748	30	818	36	666	36	547	34	371	29	229	20
1886	178	36	122	27	126	34	69	21	74	29	66	29
1887	191	38	198	44	136	36	92	29	72	28	54	24
1888	129	26	170	38	131	35	99	31	36	14	53	23
1889	199	40	135	30	98	26	78	24	72	28	60	26
1890	159	32	173	38	127	34	117	36	84	33	27	12
5 years (1886-90)	856	34	798	35	618	33	455	28	338	27	260	23
10 years (1881-90)	1,604	32	1,616	36	1,284	34	1,002	31	709	28	489	21

WORKSOP. Lat. 53° 22'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	-	-	-	-	-	-	-	-	-	-
1881	141	17	37	14	108	29	140	34	237	50	150	30
1882	40	17	48	18	118	32	142	34	248	52	157	31
1883	45	18	75	28	140	38	134	32	175	37	153	31
1884	23	9	58	21	92	25	106	25	201	42	149	30
1885	14	6	39	14	81	21	124	30	143	29	175	35
5 years (1881-5)	163	13	257	19	539	30	646	31	1,004	41	784	31
1886	44	18	47	17	84	23	124	30	107	22	130	26
1887	39	16	103	38	105	29	153	37	109	22	219	44
1888	36	15	61	22	72	20	84	20	201	41	116	23
1889	25	10	47	17	87	24	91	22	127	26	206	41
1890	47	19	46	17	94	26	129	31	198	41	111	22
5 years (1886-90)	191	16	304	22	442	24	581	28	742	31	782	31
10 years (1881-90)	354	14	561	21	981	27	1,227	30	1,746	36	1,566	31

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	-	-	-	-	-	-	-	-	-	-
1881	192	38	118	26	88	24	107	33	62	24	45	20
1882	163	33	179	39	109	29	74	23	73	28	16	7
1883	149	30	163	36	106	29	103	32	59	23	28	13
1884	147	29	206	45	117	32	77	24	42	16	14	6
1885	166	33	94	21	150	41	68	21	37	15	28	13
5 years (1881-5)	817	33	760	34	570	31	429	27	273	21	131	11
1886	160	32	141	31	91	24	51	16	49	19	61	27
1887	228	46	176	39	96	26	91	28	54	21	48	21
1888	88	18	133	30	101	27	99	31	31	12	43	19
1889	157	31	135	30	102	27	43	13	44	17	25	11
1890	149	30	142	32	142	38	116	36	51	20	11	5
5 years (1886-90)	782	31	727	32	532	28	400	25	229	18	188	16
10 years (1881-90)	1,599	32	1,487	33	1,102	29	829	26	502	20	319	14

LLANDUDNO. Lat. 53° 21'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	167	45	177	42	233	49	155	31
1881	70	29	66	24	85	23	136	33	254	53	194	39
1882	38	16	42	16	90	24	138	33	280	59	153	31
1883	51	21	88	33	102	28	140	34	214	45	183	37
1884	—	—	62	22	70	19	162	39	178	37	197	39
1885	—	—	45	17	96	26	147	35	183	38	195	39
5 years (1881-5)	—	—	303	22	443	24	723	35	1,109	46	922	37
1886	29	12	55	20	82	23	142	34	149	31	158	32
1887	27	11	103	38	104	29	107	40	137	28	250	50
1888	53	22	59	21	100	27	114	27	207	43	131	26
1889	40	16	48	18	78	21	94	23	142	29	208	42
1890	—	—	88	33	105	29	141	34	180	37	116	23
5 years (1886-90)	—	—	353	26	469	26	658	32	815	34	863	35
10 years (1881-90)	—	—	656	24	912	25	1,381	33	1,924	40	1,785	36

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	140	28	203	45	100	27	59	18	54	21	28	12
1881	161	32	103	23	105	28	114	35	53	21	16	7
1882	164	33	131	29	102	28	63	20	32	12	22	10
1883	149	30	152	33	113	31	90	28	58	23	16	7
1884	138	28	200	44	116	31	65	20	43	17	—	—
1885	213	43	173	38	127	34	61	19	44	17	31	14
5 years (1881-5)	825	33	759	34	563	30	393	24	230	18	—	—
1886	189	38	158	35	89	24	74	23	50	20	26	11
1887	205	41	199	44	88	24	34	11	44	17	23	10
1888	107	21	174	39	127	34	86	27	23	9	40	17
1889	159	32	101	23	106	28	54	17	42	17	—	—
1890	160	32	171	38	114	30	104	32	58	23	28	12
5 years (1886-90)	820	33	803	36	524	28	352	22	217	17	—	—
10 years (1881-90)	1,645	33	1,562	35	1,087	29	745	23	447	18	—	—

BUXTON.* Lat. 53° 14'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	—	—	—	—	—	—	—	—	—	—	—	—
1882	35	14	35	13	92	25	115	28	253	53	136	2
1883	32	13	64	24	104	28	129	31	117	37	157	31
1884	22	9	45	16	73	20	92	22	185	39	192	38
1885	8	3	19	7	82	23	119	29	123	25	160	32
5 years (1881-5)	—	—	—	—	—	—	—	—	—	—	—	—
1886	13	5	25	9	30	8	77	19	67	14	84	17
1887	48	20	87	32	90	25	127	31	69	14	228	46
1888	23	9	24	9	72	20	52	13	163	34	106	21
1889	18	7	35	13	91	25	68	16	101	21	190	38
1890	31	13	44	16	92	25	126	30	191	39	103	21
5 years (1886-90)	133	11	215	16	375	21	450	22	591	24	711	29
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	165	33	107	24	79	21	91	28	42	16	40	18
1882	153	31	116	26	100	27	64	20	48	19	11	5
1883	161	32	165	36	87	23	60	19	56	22	36	16
1884	109	21	—	—	—	—	48	15	33	13	8	4
1885	189	38	97	22	106	28	39	12	26	10	15	7
5 years (1881-5)	777	31	—	—	—	—	302	19	205	16	110	10
1886	117	23	123	27	65	17	35	11	29	11	14	6
1887	258	48	163	36	92	25	76	24	31	12	8	4
1888	76	15	97	22	93	25	84	26	6	2	23	10
1889	146	29	105	23	103	28	53	16	26	10	20	9
1890	129	26	125	28	121	32	73	23	38	15	16	7
5 years (1886-90)	766	28	613	27	474	25	321	20	130	10	81	7
10 years (1881-90)	1,483	30	—	—	—	—	623	19	335	13	191	8

* Jordan recorder.

PARSONSTOWN. Lat. 53° 6'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	166	40	212	45	166	33
1881	71	29	56	21	114	31	171	41	251	53	150	30
1882	48	20	56	21	122	33	149	36	264	55	207	41
1883	61	25	65	24	149	40	180	43	182	38	172	34
1884	24	10	57	21	78	21	169	41	179	38	129	26
1885	64	26	79	29	116	32	131	32	170	35	205	41
5 years (1881-5)	268	22	313	23	579	32	800	39	1,046	43	863	35
1886	39	16	49	18	104	29	157	38	124	26	147	29
1887	48	20	100	37	128	35	224	54	169	35	263	53
1888	59	24	66	23	94	26	110	27	209	43	169	34
1889	35	14	75	28	108	30	130	31	146	30	191	38
1890	53	22	64	24	123	34	178	43	186	38	113	23
5 years (1886-90)	234	19	354	26	557	31	799	39	834	34	883	35
10 years (1881-90)	502	20	667	25	1,136	31	1,599	39	1,880	39	1,746	35

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	157	31	168	37	117	32	120	37	62	24	51	22
1881	155	31	147	32	100	27	101	31	95	37	68	30
1882	143	29	153	34	138	37	102	32	59	23	37	16
1883	124	25	111	24	107	29	86	27	70	27	41	18
1884	150	30	144	32	136	37	75	23	60	23	32	14
1885	147	29	183	41	136	36	110	34	52	20	39	17
5 years (1881-5)	719	29	738	33	617	33	474	29	336	26	217	19
1886	159	32	94	21	115	31	82	25	60	24	49	21
1887	164	33	171	38	115	31	96	30	67	26	43	19
1888	127	25	152	34	113	30	82	26	43	17	49	21
1889	179	36	131	29	114	30	81	25	45	18	38	17
1890	123	25	168	37	98	26	99	31	79	31	48	21
5 years (1886-90)	752	30	716	32	555	30	440	27	294	23	227	20
10 years (1881-90)	1,471	29	1,454	32	1,172	31	914	28	630	25	444	19

STRELLEY-SOUTHWELL. Lat. 53° 4'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	—	—	—	—	110	30	146	35	231	49	153	31
1882	34	14	44	16	121	33	140	34	246	52	145	29
1883	50	21	71	26	130	35	142	34	187	39	160	32
1884	21	9	49	18	86	23	100	24	206	43	132	26
1885	10	4	41	15	90	25	144	35	159	33	188	38
5 years (1881-5)	—	—	—	—	537	30	672	32	1,029	42	778	31
1886	43	17	37	14	82	23	125	30	115	24	120	24
1887	31	13	97	36	95	26	151	36	104	21	208	42
1888	30	12	62	22	73	20	78	19	193	40	111	22
1889	23	9	42	16	91	25	87	21	133	27	198	40
1890	38	15	50	19	99	27	134	32	209	43	107	21
5 years (1886-90)	165	14	288	21	440	24	575	28	754	31	744	30
10 years (1881-90)	—	—	—	—	977	27	1,247	30	1,783	37	1,522	31

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	191	38	106	23	90	24	115	36	63	25	48	21
1882	165	33	172	38	107	29	61	19	78	30	21	9
1883	139	27	161	35	103	28	93	29	60	23	27	12
1884	129	26	206	45	116	31	69	21	39	15	14	6
1885	194	39	96	21	124	33	79	25	43	17	23	10
5 years (1881-5)	818	33	741	33	540	29	417	26	283	22	133	12
1886	153	31	133	30	92	25	56	17	37	15	45	20
1887	203	41	174	39	103	28	87	27	46	18	38	17
1888	70	14	141	31	121	32	94	29	29	11	38	17
1889	157	31	127	28	96	26	49	15	42	17	15	7
1890	145	29	157	35	153	41	111	34	47	19	7	3
5 years (1886-90)	728	29	732	33	565	30	397	25	201	16	143	13
10 years (1881-90)	1,546	31	1,473	33	1,105	30	814	25	484	19	276	12

HILLINGTON. Lat. 52° 48'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	—	—	135	32	212	45	166	33
1881 - -	46	19	31	11	130	35	158	38	257	54	187	37
1882 - -	32	13	38	14	110	30	142	34	267	56	159	32
1883 - -	46	19	97	36	124	33	155	37	214	45	208	42
1884 - -	19	8	72	26	98	26	145	35	230	48	209	42
1885 - -	29	12	48	18	122	34	157	38	186	38	207	41
5 years (1881-5) -	172	14	286	21	584	32	757	36	1,154	47	970	39
1886 - -	68	28	63	23	77	21	144	35	170	35	190	38
1887 - -	47	19	116	43	129	35	182	44	142	29	255	51
1888 - -	59	24	55	20	73	20	130	31	225	46	157	31
1889 - -	28	11	51	19	105	29	91	22	178	37	207	41
1890 - -	51	21	84	31	97	27	156	38	238	49	146	29
5 years (1886-90) -	253	21	369	27	481	26	703	34	953	39	955	38
10 years (1881-90) -	425	17	655	24	1,065	29	1,460	35	2,107	43	1,925	39

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	152	30	136	30	131	35	48	15	41	16	40	18
1881 - -	230	46	130	29	92	25	96	30	47	18	38	17
1882 - -	221	44	160	35	127	34	71	22	41	16	15	7
1883 - -	175	35	180	40	118	32	88	27	50	20	11	5
1884 - -	170	34	222	49	136	37	93	29	41	16	14	6
1885 - -	204	41	126	28	138	37	87	27	46	18	47	21
5 years (1881-5) -	1,000	40	818	36	611	33	435	27	225	18	125	11
1886 - -	203	41	194	43	132	35	100	31	65	26	60	26
1887 - -	281	56	234	52	85	23	87	27	69	27	51	22
1888 - -	105	21	152	34	127	34	116	36	44	17	67	29
1889 - -	170	34	167	37	114	30	81	25	68	27	34	15
1890 - -	168	34	176	39	156	42	125	39	60	24	32	14
5 years (1886-90) -	927	37	923	41	614	33	509	32	306	24	244	21
10 years (1881-90) -	1,927	39	1,741	39	1,225	33	944	29	531	21	369	16

LEICESTER—THURCASTON. Lat. 52° 39'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	—	—	—	—	—	—	—	—
1881 - -	24	10	38	14	108	29	133	32	216	45	156	31
1882 - -	25	10	41	15	88	24	133	32	240	50	151	30
1883 - -	49	20	76	28	90	24	123	30	171	36	170	34
1884 - -	20	8	58	21	85	23	90	22	205	43	140	28
1885 - -	12	5	44	16	90	25	130	31	166	34	184	37
5 years (1881-5) -	130	11	257	19	461	25	609	29	998	41	801	32
1886 - -	40	16	35	13	61	17	110	27	122	25	128	26
1887 - -	33	13	86	32	72	20	119	29	95	20	200	40
1888 - -	31	13	49	17	63	17	—	—	—	—	—	—
1889 - -	34	14	44	16	102	28	100	24	130	27	209	42
1890 - -	58	23	50	18	106	29	136	33	222	46	131	26
5 years (1886-90) -	196	16	264	19	404	22	—	—	—	—	—	—
10 years (1881-90) -	326	13	521	19	865	24	—	—	—	—	—	—

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	141	28	128	28	132	36	51	16	47	18	29	13
1881 - -	197	39	117	26	85	23	105	33	67	26	50	22
1882 - -	169	34	173	38	98	26	69	21	69	27	15	7
1883 - -	132	26	156	34	93	25	88	27	62	24	16	7
1884 - -	138	28	212	47	104	28	64	20	29	11	9	4
1885 - -	213	43	117	26	127	34	75	23	38	15	16	7
5 years (1881-5) -	849	34	775	34	507	27	401	25	265	21	106	9
1886 - -	169	34	153	34	105	28	62	19	41	16	35	15
1887 - -	188	38	199	44	83	22	81	25	53	21	25	11
1888 - -	—	—	—	—	—	—	—	—	—	—	—	—
1889 - -	166	33	145	32	112	30	70	22	48	19	34	15
1890 - -	155	31	168	37	160	43	127	39	62	24	7	3
5 years (1886-90) -	—	—	—	—	—	—	—	—	—	—	—	—
10 years (1881-90) -	—	—	—	—	—	—	—	—	—	—	—	—

CHURCHSTOKE. Lat. 52° 31'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	127	30	197	41	140	28
1881	40	16	53	20	126	34	165	40	248	52	158	32
1882	41	17	50	19	132	36	135	32	244	51	155	31
1883	39	16	88	33	132	36	144	35	153	32	172	34
1884	24	10	46	17	104	28	121	29	224	47	176	35
1885	12	5	63	23	90	25	138	33	174	36	203	41
5 years (1881-5)	156	13	300	22	584	32	703	34	1,043	43	864	35
1886	50	20	56	21	83	23	146	35	133	27	132	26
1887	71	29	111	41	99	27	200	48	135	28	300	60
1888	65	27	50	18	80	22	88	21	217	45	138	28
1889	41	16	47	18	98	27	81	20	143	29	216	43
1890	56	23	—	—	108	30	139	33	189	39	125	25
5 years (1886-90)	283	23	—	—	468	26	654	32	817	34	911	37
10 years (1881-90)	439	18	—	—	1,052	29	1,357	33	1,860	39	1,775	36

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	174	35	147	32	114	31	71	22	65	25	39	17
1881	175	35	115	25	99	27	100	31	63	25	49	22
1882	163	33	164	36	118	32	66	20	54	21	20	9
1883	144	29	160	35	128	35	92	29	62	24	41	18
1884	152	30	211	46	142	38	93	29	41	16	23	10
1885	214	43	148	33	146	39	80	25	39	15	32	14
5 years (1881-5)	848	34	798	35	633	34	431	27	259	20	165	14
1886	198	40	176	39	117	31	50	16	48	19	68	30
1887	245	49	219	49	119	32	96	30	62	24	41	18
1888	100	20	180	40	125	33	122	38	28	11	49	22
1889	196	39	145	32	110	29	83	26	52	20	43	19
1890	162	32	150	33	145	39	106	33	57	22	9	4
5 years (1886-90)	901	36	870	39	616	33	457	28	247	20	210	18
10 years (1881-90)	1,749	35	1,668	37	1,249	33	888	28	506	20	375	16

GELDESTON. Lat. 52° 28'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	66	26	35	13	165	45	194	47	282	59	224	45
1882	34	14	57	21	173	47	171	41	290	61	188	38
1883	70	28	98	36	142	38	185	44	239	50	218	44
1884	43	17	69	24	108	29	145	35	235	49	218	44
1885	44	18	67	25	157	43	197	48	195	40	249	51
5 years (1881-5)	257	21	326	24	745	41	892	43	1,241	51	1,097	45
1886	63	25	52	19	79	22	158	38	205	43	197	40
1887	49	20	126	46	135	37	193	47	142	29	263	53
1888	65	26	33	12	68	19	131	32	243	50	178	36
1889	36	14	65	24	97	27	86	21	197	41	214	43
1890	61	24	92	34	117	32	174	42	263	54	169	34
5 years (1886-90)	274	22	368	27	496	27	742	36	1,050	44	1,021	41
10 years (1881-90)	531	21	694	25	1,241	34	1,634	40	2,291	48	2,118	43

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	171	38	156	42	77	24	87	34	52	22
1881	258	52	158	35	107	29	126	39	76	30	46	20
1882	234	47	189	42	140	38	98	30	96	37	37	16
1883	208	42	217	48	151	41	103	32	80	31	38	16
1884	193	39	229	50	168	45	102	32	51	20	23	10
1885	215	44	146	33	155	41	89	27	57	22	65	28
5 years (1881-5)	1,108	45	939	42	721	39	518	32	360	28	209	18
1886	214	43	209	47	167	45	117	36	72	28	76	32
1887	288	58	232	52	94	25	95	29	62	24	52	22
1888	118	24	157	35	158	42	131	40	40	16	56	24
1889	171	35	180	40	137	37	91	28	67	26	39	17
1890	167	34	200	45	199	53	161	50	45	18	32	14
5 years (1886-90)	958	39	978	44	755	40	595	37	286	22	255	22
10 years (1881-90)	2,066	42	1,917	43	1,476	39	1,113	34	646	25	464	20

CAMBRIDGE. Lat. 52° 13'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	152	36	205	43	159	32
1881	61	24	28	10	137	37	181	43	236	50	181	36
1882	35	14	47	17	153	41	182	44	263	55	143	29
1883	60	24	85	31	149	40	164	39	189	40	203	41
1884	32	13	65	23	110	30	111	27	231	49	190	38
1885	25	10	57	21	123	34	155	38	190	39	238	48
5 years (1881-5)	213	17	282	21	672	37	793	38	1,109	46	955	39
1886	59	24	48	18	86	24	156	38	168	35	207	42
1887	42	17	110	40	140	38	165	40	116	24	256	52
1888	61	24	52	18	78	21	117	28	209	43	133	27
1889	39	16	64	24	95	26	98	24	165	34	214	43
1890	58	23	74	27	110	30	149	36	231	48	152	31
5 years (1886-90)	259	21	348	25	509	28	685	33	889	37	962	39
10 years (1881-90)	472	19	630	23	1,181	32	1,478	36	1,998	41	1,917	39

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	180	36	149	33	151	41	76	24	89	35	45	19
1881	229	46	146	32	93	25	124	38	76	30	50	22
1882	217	43	153	34	137	37	86	27	88	34	34	15
1883	169	34	176	39	125	34	103	32	91	35	31	13
1884	162	32	229	50	154	42	105	33	41	16	24	10
1885	223	45	155	35	137	37	93	29	52	20	55	24
5 years (1881-5)	1,000	40	859	39	646	35	511	32	348	27	194	17
1886	213	43	188	42	162	43	82	25	63	25	61	26
1887	290	59	215	48	103	28	106	33	68	26	42	18
1888	107	22	143	32	139	37	125	39	38	15	56	24
1889	169	34	176	40	126	34	92	28	65	25	35	15
1890	171	35	185	42	175	47	140	43	59	23	5	2
5 years (1886-90)	950	38	907	41	705	38	545	34	293	23	199	17
10 years (1881-90)	1,950	39	1,766	40	1,351	36	1,056	33	641	25	393	17

ASPLEY GUISE. Lat. 52° 1'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	63	25	38	14	131	35	170	41	222	47	183	37
1882	40	16	47	18	143	39	157	38	246	52	135	27
1883	56	22	78	29	138	37	137	33	171	36	181	36
1884	29	12	60	21	97	26	102	24	215	45	147	29
1885	16	7	56	20	122	32	148	36	175	36	212	43
5 years (1881-5)	204	16	279	20	631	35	714	35	1,029	43	858	35
1886	55	22	46	17	79	22	142	35	156	32	193	39
1887	56	22	91	33	116	32	159	39	122	25	235	48
1888	50	20	40	14	73	20	93	23	217	45	110	22
1889	39	16	49	18	86	24	90	22	131	27	195	40
1890	57	23	71	26	110	30	137	33	215	45	119	24
5 years (1886-90)	257	20	297	22	464	25	621	30	841	35	852	35
10 years (1881-90)	461	18	576	21	1,095	30	1,335	32	1,870	39	1,710	35

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	224	45	137	30	100	27	123	38	74	29	54	23
1882	184	37	154	34	133	36	75	23	72	28	38	16
1883	136	27	177	39	122	33	83	26	88	34	24	10
1884	134	27	224	49	134	36	87	27	42	16	15	6
1885	238	48	149	33	131	35	88	27	47	18	55	23
5 years (1881-5)	916	37	841	38	620	33	456	28	323	25	186	16
1886	207	42	189	42	145	39	75	23	56	22	65	28
1887	268	54	223	50	100	27	98	30	60	23	38	16
1888	97	20	154	35	133	36	139	43	32	12	53	23
1889	154	31	172	38	116	31	83	26	56	22	46	20
1890	141	29	190	43	166	44	136	42	65	25	13	6
5 years (1886-90)	867	35	928	42	660	35	531	33	269	21	215	18
10 years (1881-90)	1,783	36	1,769	40	1,280	34	987	30	592	23	401	17

YEARS.		JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
1880	-	Hrs. 51	% 20	Hrs. 62	% 22	Hrs. 135	% 36	Hrs. 202	% 48	Hrs. 237	% 50	Hrs. 207	% 41
1881	-	Hrs. 124	% 51	Hrs. 72	% 27	Hrs. 127	% 34	Hrs. 162	% 39	Hrs. 287	% 60	Hrs. 161	% 32
1882	-	Hrs. 41	% 16	Hrs. 51	% 19	Hrs. 122	% 33	Hrs. 173	% 42	Hrs. 267	% 55	Hrs. 200	% 40
1883	-	Hrs. 38	% 15	Hrs. 49	% 18	Hrs. 178	% 48	Hrs. 198	% 48	Hrs. 232	% 49	Hrs. 219	% 44
1884	-	Hrs. 18	% 7	Hrs. 61	% 21	Hrs. 89	% 24	Hrs. 152	% 36	Hrs. 191	% 40	Hrs. 178	% 36
1885	-	Hrs. 50	% 20	Hrs. 62	% 23	Hrs. 136	% 37	Hrs. 166	% 40	Hrs. 206	% 43	Hrs. 220	% 45
5 years (1881-5) -		275	22	295	21	652	36	851	41	1,180	49	978	40
1886	-	Hrs. 54	% 22	Hrs. 63	% 23	Hrs. 93	% 26	Hrs. 132	% 32	Hrs. 166	% 34	Hrs. 178	% 36
1887	-	Hrs. 51	% 20	Hrs. 90	% 33	Hrs. 166	% 46	Hrs. 258	% 63	Hrs. 192	% 40	Hrs. 295	% 60
1888	-	Hrs. 68	% 27	Hrs. 92	% 32	Hrs. 150	% 41	Hrs. 136	% 33	Hrs. 233	% 48	Hrs. 166	% 34
1889	-	Hrs. 56	% 22	Hrs. 82	% 30	Hrs. 142	% 39	Hrs. 154	% 37	Hrs. 169	% 35	Hrs. 243	% 49
1890	-	Hrs. 53	% 21	Hrs. 116	% 40	Hrs. 123	% 34	Hrs. 164	% 40	Hrs. 157	% 33	Hrs. 118	% 24
5 years (1886-90)		282	22	437	32	674	37	844	41	917	38	1,000	41
10 years (1881-90)		557	22	732	27	1,326	36	1,695	41	2,097	44	1,978	40

YEARS.		JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
		Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	"	217	43	185	41	113	37	166	51	64	25	35	15
1881	"	122 ³	24	133	29	120 ⁵	34	92	29	66	26	64 ³	28
1882	"	154 ³	30	174	38	142	38	123	38	70	27	58 ⁵	26
1883	"	134	27	142	31	113	31	90	28	58	23	36	15
1884	"	151	30	134	29	120	32	94	29	72	28	48 ²	8
1885	"	169	34	209	47	118	32	96	30	42	16	41	18
5 years (1881-5) -		728	29	792	36	619	33	495	31	308	24	219	19
1886	"	159	32	118	26	112	30	105	32	66	26	58	25
1887	"	194	39	166	37	165	44	92	28	72	28	43	18
1888	"	148	30	186	42	154	41	92	28	42	16	51	22
1889	"	213	43	137	31	89	24	123	38	42	16	36	15
1890	"	133	27	214	48	83	22	80	25	71	28	44	19
5 years (1886-90)		847	34	821	37	603	32	492	30	293	23	232	20
10 years (1881-90)		1,575	32	1,613	36	1,222	33	987	30	601	23	451	19

[illegible][illegible]

OXFORD. Lat. 51° 46'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	157	42	142	34	204	43	135	27
1881 - -	50	20	47	17	142	38	154	37	232	49	189	38
1882 - -	35	14	41	15	138	37	174	42	259	54	150	30
1883 - -	61	24	87	32	158	43	166	40	173	36	196	39
1884 - -	30	12	62	22	103	28	104	25	201	42	164	33
1885 - -	16	6	64	23	122	34	159	39	178	37	230	47
5 years (1881-5) -	192	15	301	22	663	36	757	37	1,043	43	929	38
1886 - -	62	25	45	16	83	23	151	37	164	34	203	41
1887 - -	30	12	97	36	96	26	166	40	137	28	256	52
1888 - -	38	15	41	14	78	21	107	26	223	46	131	27
1889 - -	31	12	60	22	94	26	86	21	124	26	208	42
1890 - -	60	24	72	27	102	28	145	35	233	48	146	30
5 years (1886-90)	221	18	315	23	453	25	655	32	881	37	944	38
10 years (1881-90)	413	16	616	22	1,116	31	1,412	34	1,924	40	1,873	38

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	186	37	145	32	124	33	86	27	75	20	38	16
1881 - -	237	47	143	31	114	31	124	38	65	25	50	22
1882 - -	192	38	151	33	147	40	70	22	81	32	27	12
1883 - -	140	28	167	37	113	31	88	27	91	35	33	14
1884 - -	152	30	232	51	135	36	93	29	40	16	24	10
1885 - -	248	50	169	38	130	35	102	32	42	16	48	21
5 years (1881-5) -	969	39	862	39	639	34	477	29	319	25	182	16
1886 - -	214	43	197	44	151	40	73	23	51	20	73	31
1887 - -	266	54	244	55	126	34	116	36	51	20	46	20
1888 - -	103	21	154	35	142	38	121	37	31	12	33	14
1889 - -	180	36	179	40	121	32	92	28	45	17	35	15
1890 - -	160	32	190	43	160	43	136	42	57	22	5	2
5 years (1886-90)	923	37	964	43	700	37	538	33	235	18	192	16
10 years (1881-90)	1,892	38	1,826	41	1,339	36	1,015	31	554	22	374	16

CIRENCESTER. Lat. 51° 43'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	—	—	132	32	216	45	150	30
1881 - -	59	24	49	18	149	40	161	39	244	51	174	35
1882 - -	34	14	45	17	118	32	164	39	262	55	149	30
1883 - -	57	23	99	37	167	45	181	43	167	35	187	37
1884 - -	30	12	60	21	92	25	102	24	197	41	164	33
1885 - -	17	7	59	22	121	33	155	38	180	37	221	45
5 years (1881-5) -	197	16	312	23	647	36	763	37	1,050	44	895	36
1886 - -	58	23	54	20	80*	22*	151	37	161	33	186	38
1887 - -	42	17	102	37	100	27	182	44	167	35	295	60
1888 - -	61	24	64	23	64	18	100	24	223	46	144	29
1889 - -	40	16	74	27	104	29	93	23	139	29	206	42
1890 - -	47	19	74	27	107	29	133	32	229	47	148	30
5 years (1886-90)	248	20	368	27	455	25	659	32	919	38	979	40
10 years (1881-90)	445	18	680	25	1,102	30	1,422	35	1,969	41	1,874	38

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	168	34	152	33	106	29	82	25	76	30	42	18
1881 - -	230	46	133	29	126	34	121	38	51	20	53	23
1882 - -	160	32	159	35	132	36	66	20	83	32	34	15
1883 - -	149	30	182	40	106	29	72	22	70	27	30	13
1884 - -	127	25	220	48	116	31	100	31	39	15	13	6
1885 - -	248	50	169	38	111	30	105	32	45	18	48	21
5 years (1881-5) -	914	37	863	39	591	32	464	29	288	22	178	15
1886 - -	214	43	184	41	120	32	64	20	51	20	82	35
1887 - -	261	53	253	57	119	32	115	35	60	23	47	20
1888 - -	106	21	159	36	125	33	121	37	25	10	40	17
1889 - -	189	38	169	38	112	30	84	26	46	18	33	14
1890 - -	149	30	169	38	136	36	128	39	67	26	6	3
5 years (1886-90)	919	37	934	42	612	33	512	32	249	19	208	18
10 years (1881-90)	1,833	37	1,797	40	1,203	32	976	30	537	21	386	17

* The values for March 1886 are approximate only.

ST. ANN'S HEAD. Lat. 51° 41'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	91	32	121	33	180	43	247	52	183	37
1881 - -	92	37	83	31	129	35	163	39	296	62	237	47
1882 - -	35	14	60	22	105	28	174	42	282	59	242	48
1883 - -	65	26	74	27	184	50	233	56	215	45	234	47
1884 - -	20	8	41	14	110	32	177	42	205	43	216	43
1885 - -	31	12	73	27	139	38	194	47	216	45	236	48
5 years (1881-5) -	243	19	331	24	676	37	941	46	1,214	50	1,165	47
1886 - -	59	24	46	17	89	24	171	42	188	39	239	48
1887 - -	44	18	105	38	164	45	246	60	149	31	289	59
1888 - -	47	19	83	29	133	37	132	32	232	48	175	35
1889 - -	43	17	81	30	112	31	156	38	178	37	317	64
1890 - -	58	23	93	34	124	34	183	44	192	40	150	30
5 years (1886-90) -	251	20	408	30	622	34	888	43	939	39	1,170	47
10 years (1881-90) -	494	20	739	27	1,298	36	1,829	44	2,153	45	2,335	47

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	257	51	229	50	133	35	112	35	80	31	36	15
1881 - -	184	37	178	39	169	45	118	37	66	26	74	32
1882 - -	207	41	182	40	143	39	95	29	69	27	34	15
1883 - -	205	41	160	35	134	36	92	29	71	28	30	13
1884 - -	208	42	221	49	164	44	93	29	47	18	29	12
1885 - -	245	50	247	55	144	39	105	32	50	19	39	17
5 years (1881-5) -	1,049	42	988	44	754	40	503	31	303	24	206	18
1886 - -	212	43	157	35	111	30	82	25	55	21	82	35
1887 - -	257	52	267	60	150	40	89	27	84	33	50	21
1888 - -	138	28	183	41	165	44	113	35	33	13	42	18
1889 - -	209	42	192	43	114	30	103	32	34	13	44	19
1890 - -	156	32	226	51	131	35	103	32	84	32	38	16
5 years (1886-90) -	972	39	1,025	46	671	36	490	30	290	23	256	22
10 years (1881-90) -	2,021	41	2,013	45	1,425	38	993	31	593	23	462	20

BUNHILL ROW. Lat. 51° 32'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	—	—	—	—	—	—	—	—
1881 - -	20	8	25	9	90	24	119	29	215	45	199	40
1882 - -	6	2	7	3	67	18	110	26	215	45	133	27
1883 - -	18	7	29	10	90	24	104	25	162	34	149	30
1884 - -	10	4	24	8	50	14	72	17	167	35	120	25
1885 - -	0	0	22	8	57	16	133	32	153	32	202	41
5 years (1881-5) -	54	4	107	8	354	19	538	26	912	38	803	33
1886 - -	5	2	2	1	16	4	125	30	128	27	192	39
1887 - -	3	1	33	12	56	15	123	30	112	24	197	40
1888 - -	12	5	19	7	34	9	83	20	194	41	120	25
1889 - -	9	4	37	13	57	16	76	18	127	27	193	40
1890 - -	30	12	42	15	71	20	127	31	216	45	128	26
5 years (1886-90) -	59	5	133	10	234	13	534	26	777	32	830	34
10 years (1881-90) -	113	4	240	9	588	16	1,072	26	1,689	35	1,633	33

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	—	—	—	—	—	—	—	—
1881 - -	231	46	148	34	63	17	85	26	28	11	9	4
1882 - -	176	35	123	28	84	23	45	14	34	13	1	0
1883 - -	139	28	145	33	78	21	42	13	15	6	3	1
1884 - -	125	26	196	44	101	27	48	15	15	6	0	0
1885 - -	194	40	108	24	82	22	51	16	14	5	2	1
5 years (1881-5) -	865	35	720	32	408	22	271	17	106	8	15	1
1886 - -	182	37	158	36	116	31	53	16	17	7	9	4
1887 - -	222	45	178	40	67	18	62	19	24	9	6	3
1888 - -	90	18	140	32	116	31	80	25	15	6	8	3
1889 - -	132	27	159	36	109	29	49	15	16	6	1	0
1890 - -	134	27	164	37	132	35	90	28	23	9	0	0
5 years (1886-90) -	760	31	799	36	540	29	334	21	95	7	24	2
10 years (1881-90) -	1,625	33	1,519	34	948	25	605	19	201	8	39	2

WESTMINSTER. Lat. 51° 31'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	—	—	115	28	163	34	121	25
1881 - -	15	6	21	8	62	17	—	—	—	—	—	—
1882 - -	—	—	—	—	—	—	—	—	—	—	—	—
1883 - -	27	11	50	18	82	23	100	24	157	33	141	29
1884 - -	15	6	33	12	73	20	68	17	173	36	102	21
1885 - -	1	0	33	12	49	13	131	32	146	30	197	40
5 years (1881-5) -	—	—	—	—	—	—	—	—	—	—	—	—
1886 - -	25	10	12	4	47	13	122	30	143	30	193	40
1887 - -	15	6	40	15	52	14	125	30	109	23	207	42
1888 - -	13	5	16	6	29	8	78	19	201	42	125	26
1889 - -	9	4	33	12	51	14	72	18	125	26	178	36
1890 - -	39	15	26	9	63	17	100	24	180	38	107	22
5 years (1886-90)	101	8	127	9	242	13	497	24	758	31	810	33
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	153	31	110	25	96	26	43	13	32	12	0	0
1881 - -	—	—	—	—	—	—	—	—	—	—	—	—
1882 - -	—	—	—	—	—	—	—	—	—	—	—	—
1883 - -	143	29	150	34	108	29	60	19	41	16	5	2
1884 - -	116	23	185	41	109	29	61	19	15	6	2	1
1885 - -	181	37	116	26	89	24	59	18	15	6	6	3
5 years (1881-5) -	—	—	—	—	—	—	—	—	—	—	—	—
1886 - -	188	38	166	37	120	32	63	19	28	11	19	8
1887 - -	250	51	203	46	88	24	64	20	26	10	13	5
1888 - -	92	19	139	31	111	30	74	23	17	6	13	5
1889 - -	128	26	161	36	103	28	59	18	22	8	7	3
1890 - -	117	24	158	36	125	33	94	29	33	13	0	0
5 years (1886-90)	775	31	827	37	547	29	354	22	126	10	52	4
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

GREENWICH. Lat. 51° 28'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	42	16	53	19	141	38	133	32	193	41	133	27
1881 - -	32	12	26	9	116	30	126	30	202	42	186	37
1882 - -	16	6	36	13	128	35	151	36	238	50	121	24
1883 - -	34	13	49	18	18	32	133	32	178	37	163	33
1884 - -	17	7	46	16	86	23	88	21	184	39	134	27
1885 - -	17	7	38	14	106	28	160	39	172	36	212	43
5 years (1881-5) -	116	9	195	14	554	30	658	32	974	41	816	33
1886 - -	35	14	27	10	73	20	122	30	160	34	213	44
1887 - -	30	12	82	30	78	21	161	39	111	23	231	47
1888 - -	15	6	23	8	46	13	106	26	217	46	131	27
1889 - -	17	7	40	15	79	22	88	21	173	36	195	40
1890 - -	44	17	63	23	91	25	141	34	224	47	125	26
5 years (1886-90)	141	11	235	17	367	20	618	30	885	37	895	37
10 years (1881-90)	257	10	430	16	921	25	1,276	31	1,859	39	1,711	35

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	169	34	106	24	119	32	52	16	54	21	19	8
1881 - -	212	42	140	32	74	20	97	30	55	21	36	15
1882 - -	195	39	126	29	99	27	60	19	56	21	18	8
1883 - -	148	30	156	36	116	31	70	22	61	23	12	5
1884 - -	127	25	203	47	119	32	59	18	39	15	13	5
1885 - -	218	44	129	30	97	26	60	18	31	12	22	9
5 years (1881-5) -	900	37	754	34	505	27	346	21	242	18	101	8
1886 - -	192	39	166	37	132	35	63	19	29	11	16	7
1887 - -	277	57	208	47	97	26	67	21	37	14	22	9
1888 - -	96	20	146	33	123	33	103	32	30	11	32	13
1889 - -	139	28	170	38	126	34	77	24	32	12	20	8
1890 - -	121	25	153	34	153	41	97	30	41	16	2	1
5 years (1886-90)	825	34	843	38	631	34	407	25	169	13	92	8
10 years (1881-90)	1,725	35	1,597	36	1,136	30	753	23	411	16	193	8

KEW Lat. 51° 28'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	47	19	67	24	142	39	127	31	194	40	153	31
1881	33	13	27	10	111	31	138	32	227	46	214	43
1882	32	12	43	16	155	42	166	40	259	54	142	29
1883	46	18	72	26	142	39	156	37	206	43	186	38
1884	29	11	54	19	108	29	99	24	208	43	157	31
1885	16	6	54	19	107	29	162	38	200	41	232	47
5 years (1881-5)	156	12	250	18	623	34	716	35	1,097	46	931	38
1886	47	18	38	14	73	20	151	37	169	35	223	46
1887	37	14	68	25	98	27	171	42	138	29	245	50
1888	41	16	32	11	59	16	106	26	225	47	132	27
1889	24	9	53	19	84	23	92	22	148	31	200	41
1890	56	22	58	21	109	30	145	35	224	47	141	29
5 years (1886-90)	205	16	249	18	423	23	665	32	904	38	941	39
10 years (1881-90)	361	14	499	18	1,046	29	1,381	34	2,001	42	1,872	38

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	191	38	138	31	141	38	68	21	67	25	32	14
1881	251	51	160	36	95	25	110	34	63	24	43	17
1882	203	41	147	33	125	33	79	24	75	28	24	10
1883	168	35	180	40	129	34	86	26	81	30	32	13
1884	153	30	227	52	129	34	87	26	43	16	24	10
1885	244	49	160	37	125	33	93	29	39	14	49	20
5 years (1881-5)	1,019	42	874	39	603	32	455	28	301	23	172	14
1886	211	43	189	43	134	36	78	24	46	18	72	30
1887	281	57	241	54	119	32	108	33	44	17	43	18
1888	104	21	159	36	126	34	112	34	26	10	35	15
1889	147	30	169	38	133	36	84	26	42	16	31	13
1890	140	29	183	41	170	45	122	38	58	22	0	0
5 years (1886-90)	883	36	941	42	682	36	504	31	216	16	181	15
10 years (1881-90)	1,902	39	1,815	41	1,285	34	959	29	517	20	353	15

MARLBOROUGH. Lat. 51° 25'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	—	—	—	—	—	—	—	—	—	—	—	—
1882	29	11	49	18	163	44	167	40	256	54	159	32
1883	53	21	92	33	167	45	173	42	179	38	189	38
1884	27	11	56	20	86	23	102	25	199	42	154	32
1885	17	7	49	18	115	32	155	38	173	36	216	44
5 years (1881-5)	—	—	—	—	—	—	—	—	—	—	—	—
1886	—	—	—	—	—	—	—	—	—	—	—	—
1887	37	14	86	31	108	30	159	39	—	—	—	—
1888	46	18	39	14	58	16	79	19	200	42	128	26
1889	41	16	58	21	71	20	—	—	—	—	—	—
1890	43	17	69	25	94	26	126	31	217	45	131	27
5 years (1886-90)	—	—	—	—	—	—	—	—	—	—	—	—
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	246	49	154	35	119	32	133	41	62	24	51	21
1882	186	37	176	40	141	38	73	23	87	33	23	10
1883	157	31	184	42	122	33	91	28	67	25	30	13
1884	136	27	222	51	128	35	100	31	30	11	19	8
1885	224	46	172	39	117	31	103	32	30	11	47	20
5 years (1881-5)	949	39	908	41	627	34	500	31	276	21	170	14
1886	193	39	178	40	131	35	54	17	51	19	59	25
1887	238	49	244	55	106	28	93	29	46	18	41	17
1888	88	18	148	33	117	31	113	35	19	7	43	18
1889	161	33	151	34	102	27	80	25	39	15	39	16
1890	134	27	174	39	139	37	123	38	45	17	5	2
5 years (1886-90)	814	33	895	40	595	32	463	28	200	15	187	16
10 years (1881-90)	1,763	36	1,803	41	1,222	33	963	30	476	18	357	15

HARESTOCK. Lat. 51° 5'.

YEARS.		JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
		Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	—	—	—	—	—	—	—	—	—	—	—	—
1881	-	—	—	—	—	—	—	—	—	—	—	—	—
1882	-	32	12	59	21	161	43	197	47	258	54	171	34
1883	-	62	24	76	27	172	46	167	40	213	45	207	41
1884	-	51	12	55	19	100	27	113	27	219	46	173	35
1885	-	25	10	54	19	129	35	163	40	175	37	218	45
5 years (1881-5)		—	—	—	—	—	—	—	—	—	—	—	—
1886	-	56	22	50	18	105	29	157	38	167	35	202	41
1887	-	46	18	98	36	126	35	190	46	153	32	262	54
1888	-	58	23	59	21	70	19	109	27	224	47	137	28
1889	-	43	17	71	26	104	29	100	24	132	28	198	40
1890	-	51	20	98	36	122	34	159	39	240	50	143	29
5 years (1886-90)		254	20	376	27	527	29	715	35	916	38	942	39
10 years (1881-90)		—	—	—	—	—	—	—	—	—	—	—	—

YEARS.		JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
		Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	—	—	—	—	—	—	—	—	—	—	—	—
1881	-	—	—	—	—	—	—	—	—	—	—	—	—
1882	-	193	39	191	44	166	45	82	25	94	36	38	16
1883	-	160	32	201	46	126	34	95	29	75	29	36	15
1884	-	145	29	237	55	134	36	113	35	40	15	20	8
1885	-	233	48	193	44	122	33	102	31	39	15	52	22
5 years (1881-5)		—	—	—	—	—	—	—	—	—	—	—	—
1886	-	218	44	176	40	146	39	80	25	66	25	89	37
1887	-	274	56	249	56	135	36	122	37	57	22	49	21
1888	-	95	19	165	37	149	40	131	41	30	11	55	23
1889	-	155	32	183	41	131	35	83	25	47	18	46	19
1890	-	149	30	203	46	186	50	137	42	58	22	21	9
5 years (1886-90)		891	36	976	44	747	40	553	34	258	20	260	22
10 years (1881-90)		—	—	—	—	—	—	—	—	—	—	—	—

SOUTHAMPTON. Lat. 50° 55'.

YEARS.			JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
			Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	—	—	—	—	—	—	—	—	247	52	162	32
1881	-	-	62*	23*	55	20	148	40	142	34	250	53	199	40
1882	-	-	26*	10*	61	22	165	45	204	49	253	53	184	37
1883	-	-	60	23	75	27	180	49	189	45	217	46	214	43
1884	-	-	31	12	52	18	111	30	115?	28?	215	45	189	38
1885	-	-	19	7	52	19	133	37	179	44	187	39	213	44
5 years (1881-5) -			189	15	295	21	737	40	829	40	1,122	47	999	41
1886	-	-	61	24	55	20	95	26	175	43	178	37	221	45
1887	-	-	39	15	97	35	131	36	201	49	167	35	280	57
1888	-	-	59	23	65	23	73	20	127	31	240	50	154	32
1889	-	-	42	16	60	22	99	27	117	28	153	32	229	47
1890	-	-	65	25	98	36	127	35	177	43	246	51	159	32
5 years (1886-90)			266	21	375	27	525	29	797	39	984	41	1,043	43
10 years (1881-90)			455	18	670	24	1,262	35	1,626	40	2,106	44	2,042	42

YEARS.			JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
			Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	-	-	199	40	189	43	140	38	84	26	56*	21*	29*	12*
1881	-	-	269	54	172	40	148	40	145	45	60*	23*	54*	23*
1882	-	-	214	43	197	45	169	46	89	28	92	35	35	15
1883	-	-	179	36	201	46	127	34	101	31	69	26	41	17
1884	-	-	159	33	245	56	141	38	120	37	45	17	23	10
1885	-	-	255	52	198	45	128	34	105	32	41	16	52	22
5 years (1881-5) -			1,076	44	1,013	46	713	38	560	34	307	23	205	17
1886 - -			243	50	184	41	150	40	81	25	64	24	86	36
1887 " -			294	60	255	57	147	39	122	37	60	23	55	23
1888 " -			116	24	171	39	161	43	137	42	31	12	58	24
1889 " -			179	36	189	43	138	37	87	27	43	16	38	16
1890 " -			157	32	217	49	189	50	136	42	63	24	21	9
5 years (1886-90)			989	40	1,016	46	785	42	563	35	261	20	258	22
10 years (1881-90)			2,065	42	2,029	46	1,498	40	1,123	34	568	22	463	19

* The values for November and December 1880 and 1881, and for January 1881 and 1882, are approximate only.

GLYNDE, LEWES, SUSSEX. Lat. 50° 52'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	63	25	49	17	163	45	131	32	190	40	125	26
1881 - -	63	25	35	13	131	36	115	28	208	44	215	44
1882 - -	36	14	52	19	152	42	183	45	263	55	158	32
1883 - -	53	21	71	26	149	41	177	43	217	45	212	43
1884 - -	33	13	64	22	111	30	117	28	211	44	142	29
1885 - -	29	11	51	19	120	35	147	36	176	37	236	48
5 years (1881-5) -	214	17	273	20	672	37	739	36	1,075	45	963	39
1886 - -	53	21	47	17	94	26	134	33	178	37	101	39
1887 - -	36	14	83	30	128	35	186	45	152	32	227	41
1888 - -	41	16	38	13	48	13	101	25	215	45	135	28
1889 - -	36	14	54	20	81	22	111	27	164	34	214	44
1890 - -	48	19	96	35	117	32	154	37	227	48	131	27
5 years (1886-90)	214	17	318	23	468	26	686	33	936	39	898	37
10 years (1881-90)	428	17	591	21	1,140	31	1,425	35	2,011	42	1,861	38

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	184	38	163	37	131	35	66	20	72	27	33	14
1881 - -	216	44	153	34	104	28	106	33	51	19	50	21
1882 - -	212	43	171	39	154	41	88	27	82	31	31	13
1883 - -	186	38	191	43	119	32	86	26	76	29	28	12
1884 - -	141	29	247	56	119	32	89	27	40	15	16	7
1885 - -	229	47	192	43	108	29	83	25	40	15	54	23
5 years (1881-5) -	984	40	954	43	604	32	452	28	289	22	179	15
1886 - -	207	42	163	37	160	43	82	25	52	20	55	23
1887 - -	261	53	211	48	137	37	98	30	48	18	32	13
1888 - -	88	18	166	37	169	45	130	40	26	10	52	22
1889 - -	158	32	176	40	145	39	88	27	44	17	35	15
1890 - -	158	32	187	42	159	43	108	33	57	22	21	9
5 years (1886-90)	872	36	903	41	770	41	506	31	227	17	195	16
10 years (1881-90)	1,856	38	1,857	42	1,374	37	958	29	516	20	374	16

CULLOMPTON. Lat. 50° 51'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	—	—	—	—	—	—	—	—
1881 - -	—	—	—	—	—	—	—	—	—	—	—	—
1882 - -	28	11	54	19	145	39	165	39	239	50	171	34
1883 - -	44	17	79	28	178	48	174	42	155	33	169	34
1884 - -	15	6	42	15	98	26	120	29	218	46	194	39
1885 - -	21	8	46	17	112	31	143	35	159	33	188	39
5 years (1881-5) -	—	—	—	—	—	—	—	—	—	—	—	—
1886 - -	45	18	50	18	84	23	145	35	150	31	185	38
1887 - -	33	13	99	36	143	39	208	51	165	35	200	59
1888 - -	43	17	70	24	68	19	112	27	220	46	130	27
1889 - -	45	17	62	23	109	30	115	28	146	31	221	45
1890 - -	42	16	78	28	115	32	156	38	210	44	154	32
5 years (1886-90)	208	16	359	26	519	29	736	36	891	37	980	40
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880 - -	—	—	—	—	—	—	—	—	—	—	—	—
1881 - -	225	45	150	35	140	38	116	36	52	20	47	20
1882 - -	182	36	189	43	145	39	71	22	78	30	21	9
1883 - -	162	32	173	40	127	34	88	27	65	25	37	16
1884 - -	152	30	210	48	137	37	80	25	26	10	8	3
1885 - -	212	43	185	42	129	34	92	28	46	18	34	14
5 years (1881-5) -	933	38	907	41	678	36	447	27	267	20	147	12
1886 - -	203	41	143	32	117	31	64	20	37	14	60	25
1887 - -	245	50	263	59	134	36	100	31	55	21	54	23
1888 - -	94	19	165	37	143	38	110	34	25	10	33	14
1889 - -	173	35	161	36	119	32	71	22	32	12	37	15
1890 - -	123	25	199	45	148	40	134	41	64	24	8	4
5 years (1886-90)	838	34	931	42	661	35	479	29	213	16	192	16
10 years (1881-90)	1,771	36	1,838	41	1,339	36	926	28	480	18	339	14

ST. LEONARDS. Lat. 50° 51'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	—	—	—	—	—	—	—	—	—	—	—	—
1882	—	—	—	—	—	—	—	—	—	—	—	—
1883	62	24	86	31	177	48	196	47	249	52	249	50
1884	47	18	90	32	130	35	134	32	225	47	179	36
1885	35	14	70	25	157	43	191	46	213	45	267	55
5 years (1881-5)	—	—	—	—	—	—	—	—	—	—	—	—
1886	72	28	55	20	116	32	152	37	226	47	236	48
1887	69	27	113	41	151	41	214	52	169	35	264	54
1888	65	25	49	17	62	17	123	30	257	54	162	33
1889	50	20	66	24	99	27	132	32	200	42	265	54
1890	62	24	112	41	132	36	164	40	269	56	167	34
5 years (1886-90)	318	25	395	29	560	31	785	38	1,121	47	1,094	45
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	—	—	—	—	—	—	—	—	—	—	—	—
1882	—	—	170	39	120	32	103	32	101	38	43	18
1883	207	41	207	48	130	35	130	40	93	35	39	16
1884	202	40	267	61	139	38	108	33	65	25	27	11
1885	246	50	185	42	138	37	100	31	55	21	63	26
5 years (1881-5)	—	—	—	—	—	—	—	—	—	—	—	—
1886	248	51	186	42	159	43	112	34	65	25	87	36
1887	299	61	239	54	135	36	126	39	62	24	44	18
1888	117	24	177	40	185	49	155	48	36	14	83	35
1889	198	40	210	47	172	46	104	32	57	22	59	25
1890	193	39	194	44	199	53	134	41	71	27	49	20
5 years (1886-90)	1,055	43	1,006	45	850	45	631	39	291	22	322	27
10 years (1881-90)	—	—	—	—	—	—	—	—	—	—	—	—

SOUTHBOURNE. Lat. 50° 44'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	170	41	229	48	138	28
1881	53	21	56	20	136	37	145	35	252	53	198	40
1882	38	15	77	28	161	43	190	46	289	61	191	38
1883	58	23	90	32	169	46	167	40	216	45	216	43
1884	35	14	59	21	111	30	110	26	216	45	196	40
1885	30	12	54	20	127	35	177	43	179	38	196	40
5 years (1881-5)	214	16	336	24	704	39	789	38	1,152	48	997	41
1886	57	22	49	18	92	25	148	36	181	38	222	46
1887	51	20	102	37	105	29	168	41	169	35	280	57
1888	62	24	79	28	67	18	114	28	239	50	141	29
1889	57	22	62	23	84	23	109	27	151	32	220	45
1890	55	21	83	30	112	31	146	36	241	51	145	30
5 years (1886-90)	282	22	375	27	460	25	685	33	981	41	1,008	41
10 years (1881-90)	496	19	711	26	1,164	32	1,474	36	2,133	45	2,005	41

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	208	42	152	35	142	38	78	24	69	26	34	14
1881	271	54	176	40	137	37	137	42	74	28	61	26
1882	204	41	207	48	157	42	97	30	96	36	29	12
1883	193	39	214	49	110	30	95	29	78	30	41	17
1884	163	33	229	53	118	32	106	33	42	16	20	8
1885	241	49	196	44	130	35	105	32	38	15	51	21
5 years (1881-5)	1,072	44	1,022	46	652	35	540	33	328	25	202	17
1886	240	49	188	42	120	32	88	27	64	24	89	37
1887	291	59	270	61	133	36	126	39	65	25	62	26
1888	117	24	153	34	144	39	112	34	34	13	66	28
1889	183	37	167	38	104	28	70	21	41	16	44	19
1890	139	28	204	46	157	42	135	41	76	29	27	11
5 years (1886-90)	970	40	982	44	658	35	551	33	280	21	288	24
10 years (1881-90)	2,042	42	2,004	45	1,310	35	1,071	33	608	23	490	21

[illegible][illegible][illegible][illegible]

PLYMOUTH. Lat. 50° 22'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	—	—	—	—	—	—	141	34	270	57	198	42
1882	56	14	68	24	142	38	171	41	258	54	183	38
1883	48	18	73	26	177	48	199	48	170	36	193	41
1884	17	6	39	14	116	31	155	37	201	42	212	45
1885	29	11	49	18	139	38	172	42	162	34	204	42
5 years (1881-5)	—	—	—	—	—	—	838	41	1,061	45	990	41
1886	56	21	50	18	85	23	155	38	194	41	211	44
1887	52	20	119	43	183	50	229	56	197	42	316	65
1888	50	19	89	31	98	27	132	32	241	51	163	34
1889	52	20	78	28	104	29	161	39	172	36	207	43
1890	35	13	114	41	127	35	176	43	202	43	138	28
5 years (1886-90)	245	19	450	32	597	33	853	42	1,006	43	1,035	43
10 years (1881-90)	—	—	—	—	—	—	1,691	41	2,067	44	2,025	42

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	—	—	—	—	—	—
1881	238	50	165	38	153	41	148	46	50	19	61	25
1882	202	42	185	43	148	40	76	24	65	25	27	11
1883	162	34	167	38	134	36	98	30	69	26	46	19
1884	159	33	232	53	153	41	85	26	42	16	26	11
1885	236	49	216	49	135	36	96	29	41	15	50	21
5 years (1881-5)	997	41	965	44	723	39	503	31	267	20	210	17
1886	218	45	156	35	118	32	81	25	64	24	82	34
1887	251	52	264	60	160	43	114	35	92	35	67	28
1888	152	31	172	39	172	46	116	35	44	16	70	29
1889	187	39	179	40	139	37	87	27	34	13	54	21
1890	117	24	212	48	163	44	132	40	71	27	31	15
5 years (1886-90)	925	38	983	44	752	40	530	32	305	23	304	25
10 years (1881-90)	1,922	40	1,948	44	1,475	40	1,033	32	572	22	514	21

FALMOUTH. Lat. 50° 9'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	180	43	269	56	170	36
1881	63	24	71	26	147	38	117	28	287	59	256	54
1882	26	11	85	31	156	42	184	44	259	54	214	45
1883	55	21	83	30	186	50	196	47	169	35	208	44
1884	22	8	51	18	97	26	165	40	217	46	236	50
1885	40	15	47	17	136	37	184	45	187	40	205	42
5 years (1881-5)	209	16	338	24	716	39	846	41	1,110	47	1,117	46
1886	68	26	43	16	69	19	151	37	222	47	233	48
1887	53	20	90	32	152	42	225	55	198	42	329	68
1888	45	17	103	36	111	30	158	39	258	55	177	37
1889	48	18	82	30	108	30	180	44	185	39	229	47
1890	45	17	105	38	142	39	170	42	190	40	169	35
5 years (1885-90)	259	20	423	30	582	32	884	43	1,053	45	1,137	47
10 years (1881-90)	468	18	761	27	1,298	36	1,730	42	2,163	46	2,254	47

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	228	48	190	44	114	31	96	30	78	30	—	—
1881	238	50	191	44	191	52	148	46	84	32	65	27
1882	234	49	190	44	139	38	109	34	77	29	46	16
1883	177	37	179	41	133	36	98	30	83	32	49	20
1884	214	45	217	50	139	38	104	32	45	17	27	11
1885	219	45	235	53	138	37	109	33	45	17	61	25
5 years (1881-5)	1,082	45	1,014	46	740	40	568	35	334	25	242	20
1886	243	50	156	35	116	31	81	25	73	27	82	34
1887	281	58	206	67	151	40	134	41	95	36	72	30
1888	166	34	182	41	156	42	123	38	64	24	64	26
1889	202	42	204	46	138	37	110	34	40	15	61	25
1890	135	28	210	48	156	42	137	42	88	33	19	8
5 years (1886-90)	1,027	42	1,048	47	717	38	585	36	360	27	298	25
10 years (1881-90)	2,109	43	2,062	47	1,457	39	1,153	35	694	26	540	22

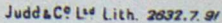
ST. AUBIN'S, JERSEY. Lat. 49° 11'.

YEARS.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	—	—	—	—	—	—	181	43	283	59	161	34
1881	100	37	76	27	135	36	134	32	266	56	257	54
1882	41	15	113	41	163	44	213	51	273	57	203	43
1883	70	26	114	41	174	47	229	55	246	52	246	52
1884	50	19	86	29	168	45	176	42	266	56	258	54
1885	43	16	75	27	160	44	217	53	245	52	214	45
5 years (1881-5)	304	23	464	33	800	44	969	47	1,296	55	1,178	49
1886	69	26	72	26	128	35	175	43	207	44	259	54
1887	100	37	109	39	173	48	228	56	199	43	298	62
1888	79	29	37	13	103	28	164	40	286	61	189	39
1889	74	27	66	24	146	40	161	39	196	42	220	46
1890	55	20	123	44	141	39	179	44	247	53	193	40
5 years (1886-90)	377	28	407	29	691	38	907	44	1,135	49	1,159	48
10 years (1881-90)	681	25	871	31	1,491	41	1,876	46	2,431	52	2,337	49

YEARS.	JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.	
	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
1880	248	52	166	38	151	41	116	35	74	27	31	12
1881	284	60	233	54	181	49	161	48	76	28	76	30
1882	220	46	239	55	170	46	114	34	68	25	30	12
1883	230	48	241	55	137	37	102	31	66	24	32	13
1884	172	36	258	59	179	48	133	40	86	32	24	10
1885	289	60	266	60	163	44	110	33	45	17	59	24
5 years (1881-5)	1,195	50	1,237	56	830	45	620	38	341	25	221	18
1886	268	56	206	47	175	47	106	32	70	26	74	30
1887	290	60	300	68	160	43	123	37	80	30	66	27
1888	154	32	215	49	202	54	152	46	51	19	75	30
1889	233	49	211	48	196	53	114	35	47	17	60	24
1890	164	34	260	59	191	51	134	41	65	24	75	30
5 years (1886-90)	1,109	46	1,192	54	924	50	629	38	313	23	350	28
10 years (1881-90)	2,304	48	2,429	55	1,754	47	1,249	38	654	24	571	23

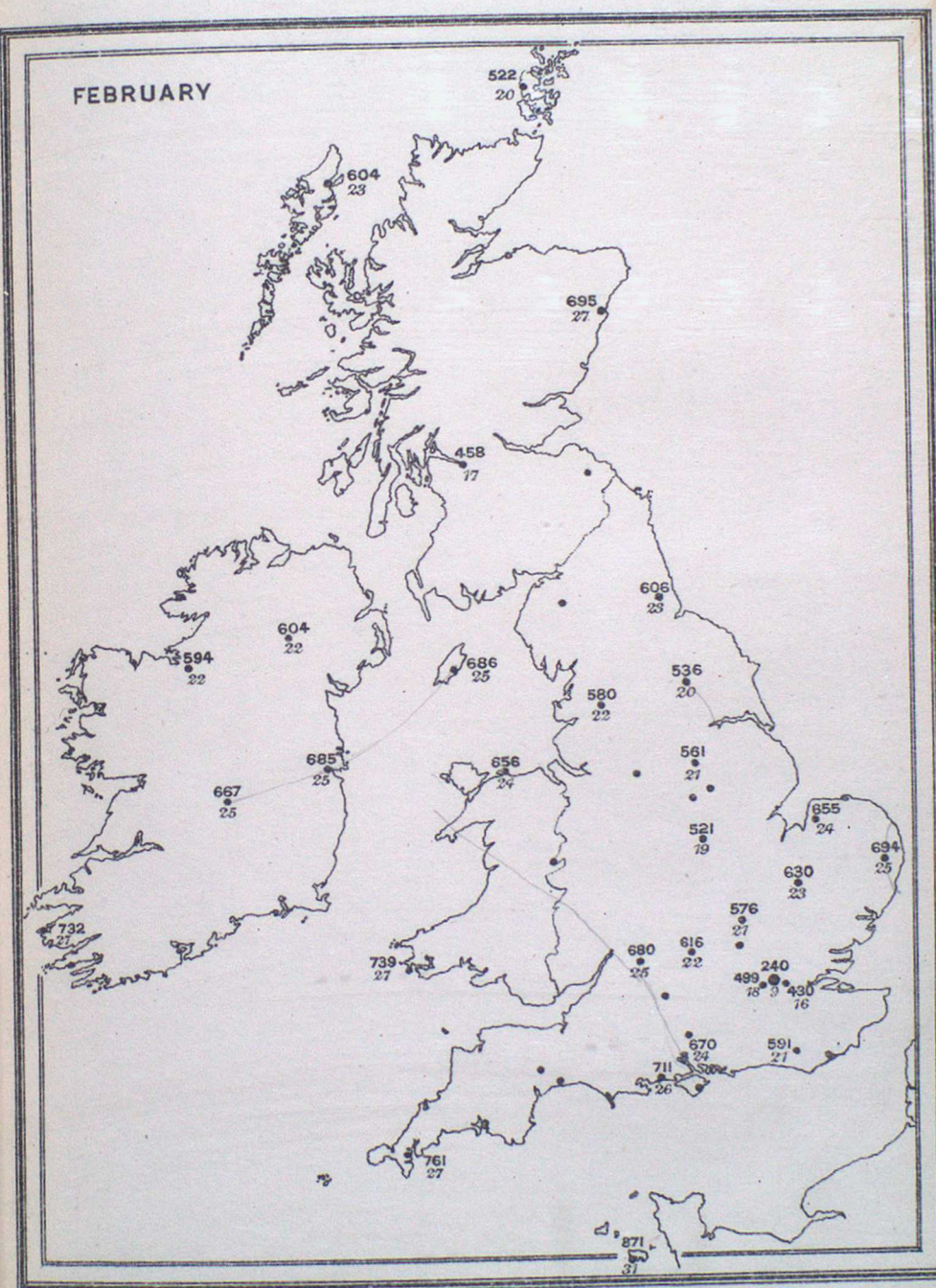
MAP OF
THE BRITISH ISLANDS,
SHEWING THE
STATIONS yielding the SUNSHINE RECORDS
Which are included in this Volume.





Number of hours, thus:- 502. Percentage, thus:- 20.

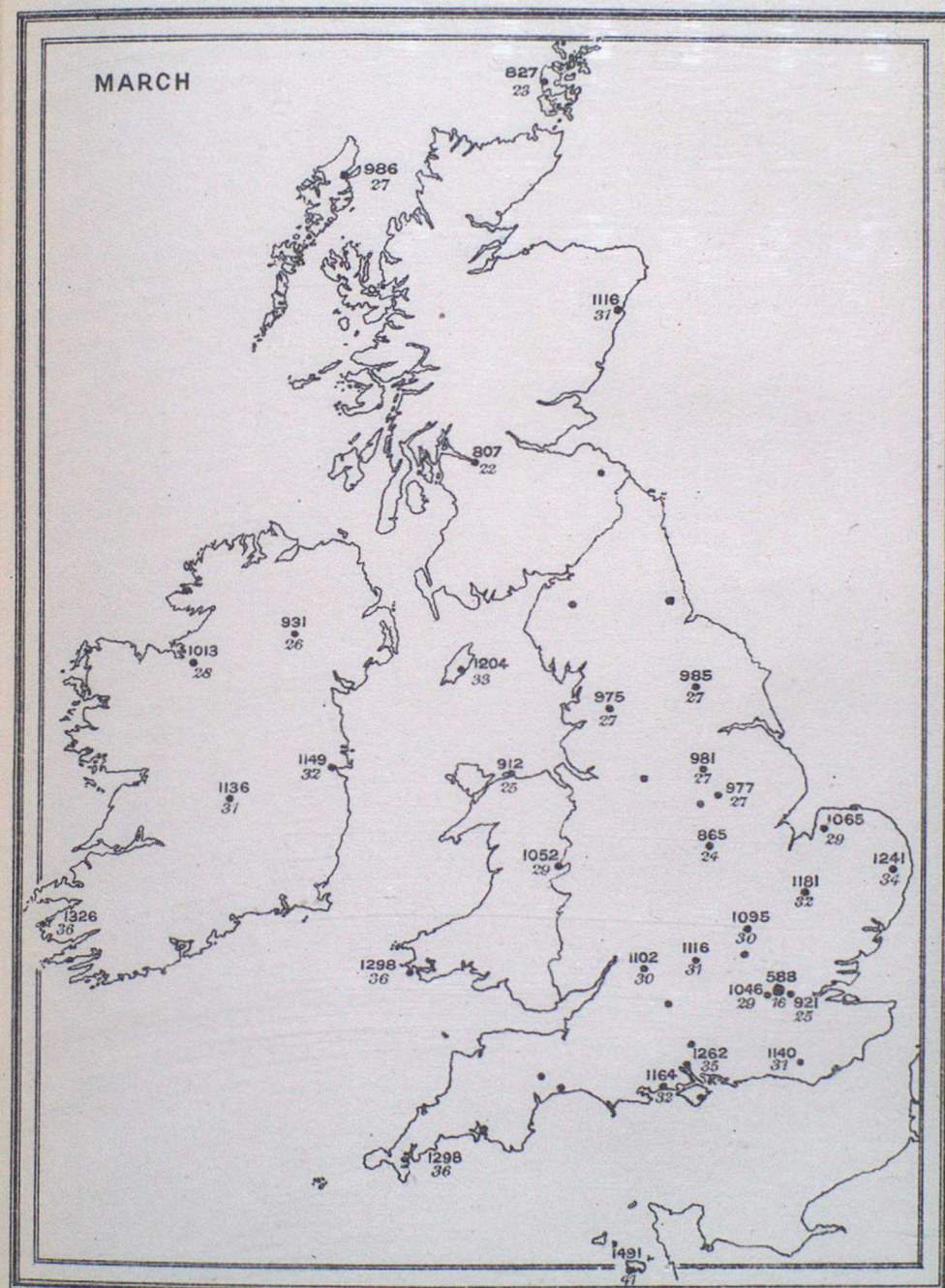
TEN-YEARLY RECORDS OF BRIGHT SUNSHINE,
1881-90.



Judd & Co. Ltd. Lith. 2632.7.91

Number of hours, thus:- 502. Percentage, thus:- 20.

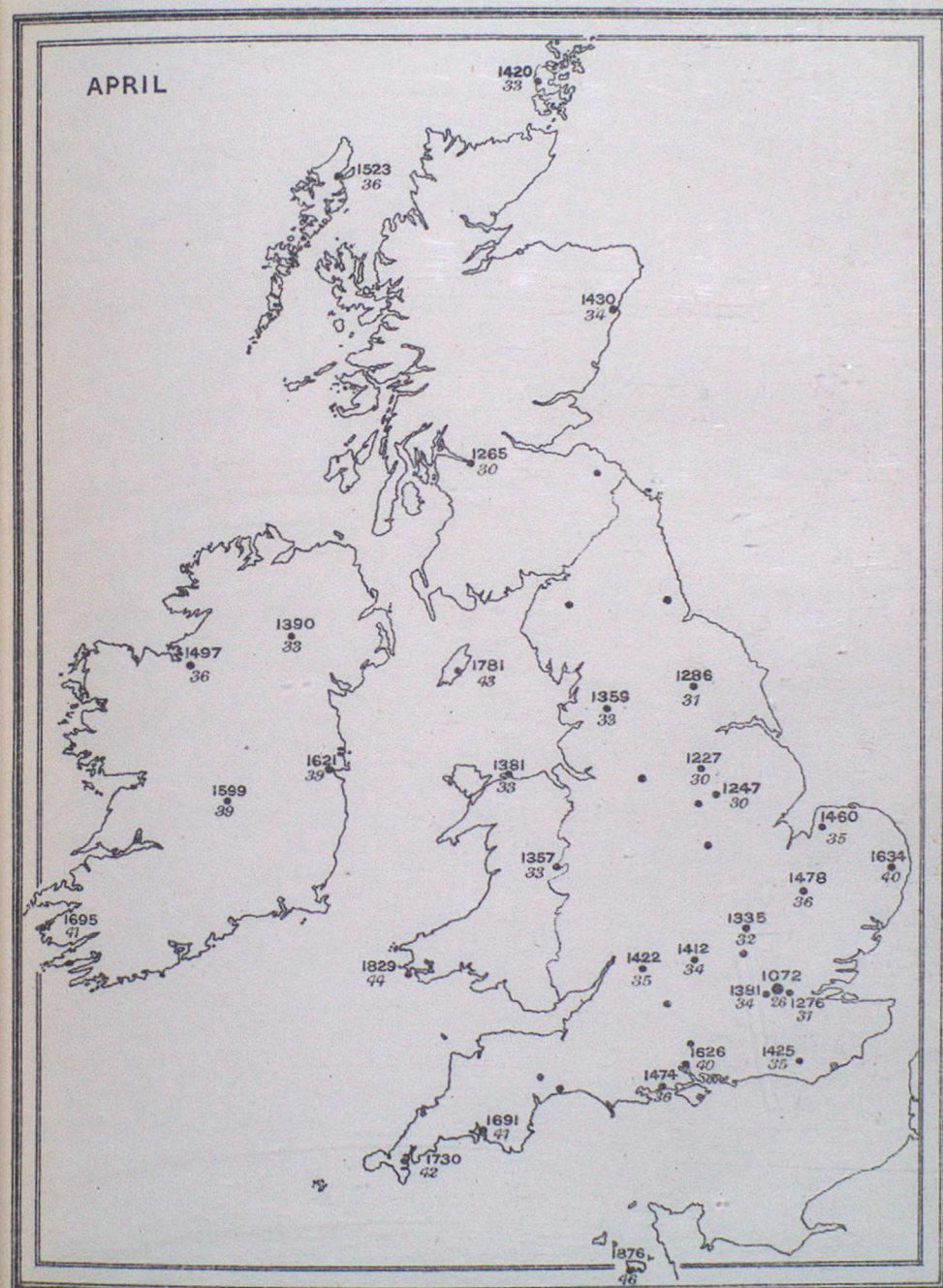
TEN-YEARLY RECORDS OF BRIGHT SUNSHINE,
1881-90.



Judd & Co. Ltd. Lith. 2632.7.91

Number of hours, thus:- 502. Percentage, thus:- 20.

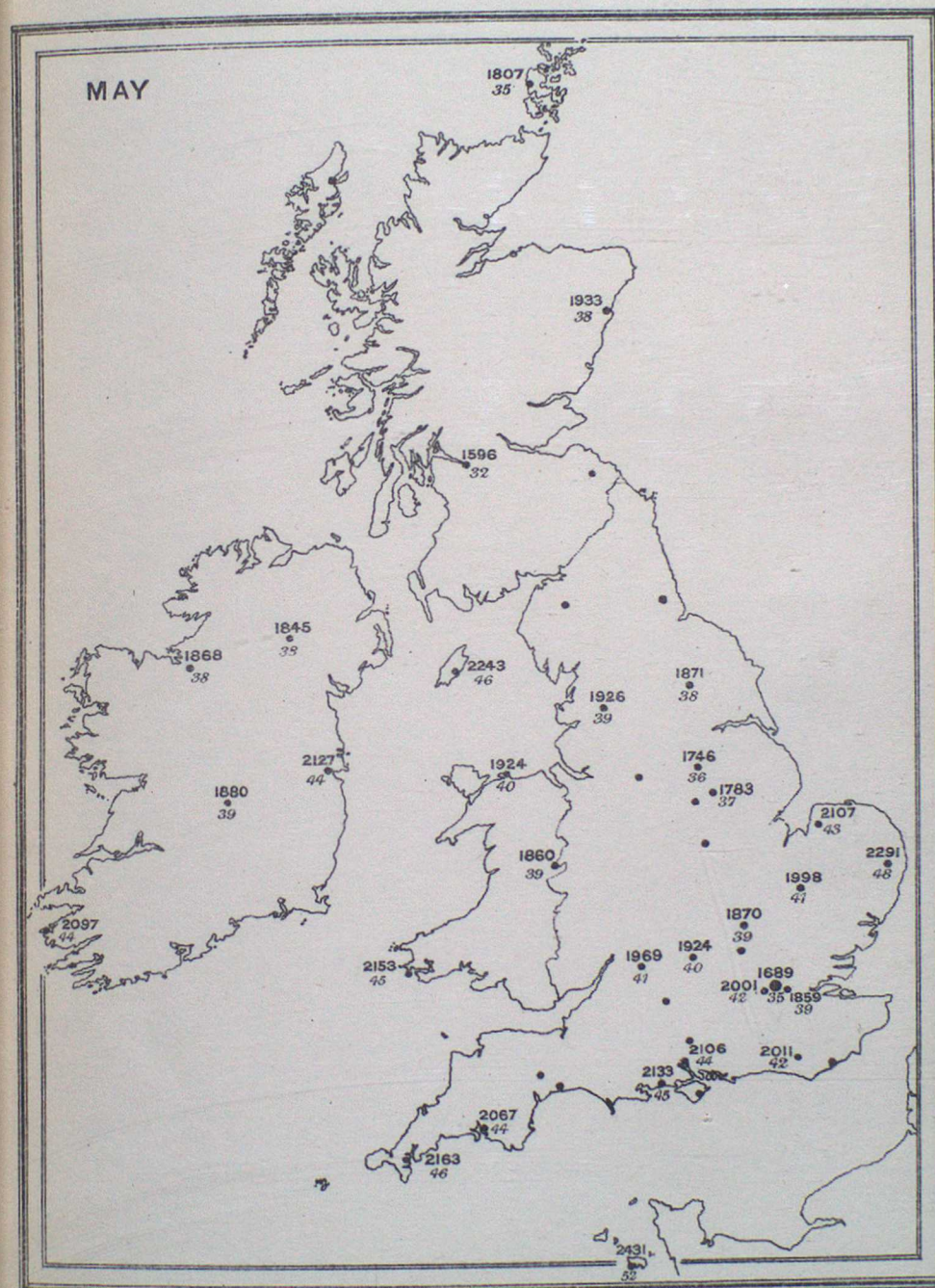
TEN-YEARLY RECORDS OF BRIGHT SUNSHINE,
1881-90.



Judd & Co. Ltd. Lith. 2632.7.91

Number of hours, thus:- 502. Percentage, thus:- 20.

TEN-YEARLY RECORDS OF BRIGHT SUNSHINE.
1881-90.



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Number of hours, thus: 502. Percentage, thus: 20.

TEN-YEARLY RECORDS OF BRIGHT SUNSHINE.
1881-90.



Judd & Co. Lith. 2632.7.91

Number of hours, thus:—502. Percentage, thus:—20.

TEN-YEARLY RECORDS OF BRIGHT SUNSHINE,
1881-90.



Judd & Co. Ltd. Lith. 2632.7.91

Number of hours, thus:- 502. Percentage, thus:- 20.

TEN-YEARLY RECORDS OF BRIGHT SUNSHINE.
1881-90.



Judd & Co. Lith. 2632.7.91

Number of hours, thus:- 502. Percentage, thus:- 20.

TEN-YEARLY RECORDS OF BRIGHT SUNSHINE,
1881-90.



Judd & Co. Ltd. Lith. 2692.7.91

Number of hours, thus: 502. Percentage, thus: 20.

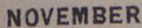
TEN-YEARLY RECORDS OF BRIGHT SUNSHINE.
1881-90.



Judd & Co. Ltd. Lith. 2632.7 91

Number of hours, thus: 502. Percentage, thus: 20.

1881-90.



Judd & Co. Ltd. Lith. 2632.7.9/

Number of hours, thus:- 502. Percentage, thus:- 20.

TEN-YEARLY RECORDS OF BRIGHT SUNSHINE,
1881-90.



Number of hours, thus:- 502. Percentage, thus:- 20.

Judd & Co. Ltd. Lith. 2632.7.91

Official, No. 56.

Pantagraph Room.

SUNSHINE RECORDS

OF THE

UNITED KINGDOM

FOR 1881.

REDUCED FROM THE ORIGINAL TRACES

From 31 Stations.

Published by the Authority of the Meteorological Council.



LONDON:

PRINTED FOR HER MAJESTY'S STATIONERY OFFICE.

AND SOLD BY

J. D. POTTER, 31 POULTRY;

AND

EDWARD STANFORD, CHARING CROSS.

1883.

Price Four Shillings.

WEEKLY TOTALS OF SUNSHINE, 1881.

DISTRICTS.	0. Scotland, N.		1. Scotland, E.		2. England, N.E.			3. England, E.			4. Midland Counties.					5. England, S.				6. Scotland, W.			7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.			DISTRICTS.
	STATIONS.																															
	Sandwich.	Stornoway.	Aberdeen.	Glenalmond.	Durham.	Kelstern.	York.	Cambridge.	Geddeston.	Hillington.	Churestoke.	Cirencester.	Leicester.	Oxford.	Workop.	Kew.	London, Bunhill Row.	St. Aubin's.	Southampton.	Cronkbourne.	Glasgow.	Silloth.	Llandudno.	Stonyhurst.	Falmouth.	St. Ann's Head.	Armagh.	Markree.	Dublin.	Parsonstown.	Valencia.	
Date.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Date.
January 1-7	15°0	9°2	25°2	22°5	12°6	17°8	17°4	16°3	18°2	15°8	9°6	15°1	9°1	15°5	15°8	5°8	9°8	25°3	16°7	18°5	8°0	10°7	14°2	13°6	2°1	16°0	16°8	15°8	11°2	18°1	16°8	January 1-7
" 8-14	2°7	4°5	11°0	10°1	9°1	9°0	9°7	9°6	12°3	6°(6°3)	5°6	13°4	4°0	11°0	8°1	8°5	1°9	23°4	9°8	16°5	1°4	8°5	14°0	21°2	14°6	24°9	8°5	11°5	14°2	15°0	36°5	" 8-14
" 15-21	11°2	15°2	25°9	6°9	16°5	7°1	4°0	23°5	17°8	11°4	5°9	18°3	4°4	13°6	9°3	12°7	2°9	22°9	15°6	22°0	7°0	19°8	10°9	17°9	17°4	23°9	14°6	19°6	11°5	12°4	29°9	" 15-21
" 22-28	12°1	9°4	16°9	18°7	6°3	7°1	1°5	3°5	8°0	6°5	11°2	3°8	0°4	3°3	0°1	0°0	0°0	20°8	9°4	4°8	0°0	9°8	20°0	8°2	18°9	19°8	7°4	11°5	12°9	17°5	30°7	" 22-28
Total -	41°0	38°3	79°0	58°2	44°5	41°0	32°6	52°9	56°3	40°0	32°3	50°6	17°9	43°4	33°9	27°0	14°6	92°4	51°5	61°8	16°4	48°8	59°1	60°9	53°0	84°6	47°3	58°4	49°8	63°0	113°9	Total.
January 29-Feb. 4	1°4	8°1	14°3	8°3	11°4	11°6	7°2	7°8	13°9	6°5	14°7	7°8	6°8	7°1	13°8	6°7	4°1	20°0	5°4	11°0	1°5	4°1	20°1	3°6	20°5	13°1	11°9	8°5	18°6	14°4	19°8	January 29-Feb. 4
February 5-11	6°4	12°5	10°9	15°6	10°8	6°3	9°4	11°6	6°9	7°8	16°0	15°4	10°4	10°6	10°8	17°2	12°3	18°6	18°3	18°5	19°5	18°9	10°8	14°1	20°6	16°3	18°9	17°6	25°1	21°6	24°2	February 5-11
" 12-18	8°0	0°5	6°0	5°6	1°6	6°6	6°6	7°0	16°7	8°7	8°6	13°4	12°1	11°1	5°9	6°6	3°2	24°4	17°1	8°3	7°0	7°8	16°4	6°9	7°8	15°0	3°6	0°3	2°8	2°4	5°3	" 12-18
" 19-25	9°8	19°7	6°0	24°8	16°8	3°0	6°6	2°4	0°5	1°3	14°6	9°3	4°0	2°5	6°3	0°1	0°2	0°0	5°9	24°8	13°2	20°7	15°4	18°0	11°5	32°4	10°0	9°8	17°3	11°8	16°1	" 19-25
Total -	25°6	40°8	37°2	54°3	40°6	27°5	20°8	28°8	38°0	24°3	53°9	45°9	33°3	40°3	36°8	30°6	19°8	63°0	46°7	62°6	41°2	51°5	62°7	42°6	60°4	76°8	44°4	36°2	63°8	50°2	65°4	Total.
Total of 8 weeks -	66°6	79°1	116°2	112°5	85°1	68°5	62°4	81°7	94°3	64°3	86°2	96°5	51°2	83°7	79°7	57°6	34°4	155°4	98°2	124°4	57°6	100°3	121°8	103°5	113°4	161°4	91°7	94°6	113°6	113°2	179°3	Total of 8 weeks.
Feb. 26-March 4	23°0	33°8	28°8	24°8	15°0	23°5	17°9	15°6	23°4	25°6	15°3	21°5	16°1	20°3	18°0	14°3	8°5	35°8	26°8	18°7	11°9	15°8	23°5	17°6	31°1	24°7	13°5	20°3	17°3	20°4	27°9	Feb. 26-March 4
March 5-11	13°9	14°7	15°5	12°3	19°2	20°1	11°5	26°5	27°0	21°8	18°8	15°9	19°5	19°5	19°6	17°6	13°2	11°7	9°5	11°4	5°9	4°5	11°7	5°3	10°6	7°0	8°2	13°6	14°5	12°2	20°4	March 5-11
" 12-18	16°7	12°0	35°3	32°6	25°0	41°2	23°9	32°1	46°9	42°8	31°0	32°4	27°9	28°8	23°0	20°5	14°1	51°5	32°9	24°2	19°5	22°9	18°0	18°2	31°9	24°4	16°5	18°1	17°6	20°7	24°6	" 12-18
" 19-25	8°5	12°0	29°3	21°0	23°5	23°6	26°7	21°9	33°3	23°2	26°1	33°8	19°4	29°0	16°5	21°9	19°2	22°6	33°7	24°2	22°4	19°6	10°3	18°8	32°1	30°1	25°9	33°7	32°5	29°9	22°1	" 19-25
Total -	62°1	72°5	108°9	90°7	82°7	108°4	80°0	96°1	130°6	113°4	91°2	103°6	82°9	97°6	77°1	74°3	55°0	121°6	102°9	78°5	59°7	62°8	63°5	59°9	105°7	86°2	64°1	85°7	81°9	83°2	95°0	Total.
Total of 12 weeks	128°7	151°6	225°1	203°2	167°8	176°9	142°4	177°8	224°9	177°7	177°4	200°1	134°1	181°3	147°8	131°9	89°4	277°0	201°1	202°9	117°3	163°1	185°3	163°4	219°1	247°6	155°8	180°3	195°5	196°4	274°3	Total of 12 weeks.
March 26-April 1	12°1	25°2	41°8	46 days (48°5)	42°7	45 days (34°0)	43°5	58°5	53°0	40°5	48°6	67°2	43°8	65°2	48°1	48°3	47°8	38°0	64°5	61°9	36°4	58°4	44°2	55°9	62°7	69°1	56°8	62°1	57°6	54°9	64°4	March 26-April 1
April 2-8	32°5	48°5	28°1	38°8	51°7	74°3	71°1	58°3	62°9	63°8	48°0	66°4	47°6	42°3	46°0	20°2	20°2	45°7	69°5	52°3	64°0	45°6	62°1	19°7	67°3	60°4	68°2	53°5	70°3	47°6	April 2-8	
" 9-15	34°1	43°4	19°9	18°9	20°6	22°8	33°0	22°8	19°7	16°6	16°8	13°9	22°5	22°3	16°4	41°1	24°6	17°7	28°2	29°9	19°8	19°3	17°8	15°1	13°8	21°0	15°3	25°3	32°0	" 9-15		
" 16-22	37°3	42°4	34°8	10°2	25°4	30°9	37°2	29°2	41°7	33°1	23°8	29°3	28°9	30°9	25°8	21°9	31°9	50°2	48°8	31°5	44°9	35°1	43°5	43°9	46°7	46°0	34°2	36°9	48°6	" 16-22		
Total -	116°0	150°5	124°6	110°6	141°2	186°5	194°3	150°8	172°0	180°7	132°4	174°8	147°2	145°8	136°0	121°2	166°7	190°3	165°7	183°8	154°5	172°4	143°7	195°4	177°7	197°3	160°6	187°4	192°6	Total.		
Total of 16 weeks	244°7	311°1	349°7	278°4	283°6	364°3	410°2	328°5	350°3	380°8	266°5	356°1	205°0	275°7	225°4	308°2	367°8	402°2	283°0	346°9	339°8	335°8	362°8	443°0	333°5	377°6	356°1	383°8	466°9	Total of 16 weeks.		
April 23-29	17°8	32°5	41°2	41°6	41°3	38°4	37°8	33°1	33°1	33°2	33°2	33°6	13°8	26°0	26°0	40°2	28°1	34°2	30°6	33°2	16°8	33°3	22°8	22°6	24°0	27°0	26°5	24°1	18°1	April 23-29		
" 30-May 6	23°5	44°6	21°2	14°4	22°8	24°6	33°8	26°5	33°1	28°1	20°7	31°0	21°5	33°0	28°9	34°5	32°5	44°2	24°9	23°1	40°5	20°3	34°5	39°9	29°3	30°4	33°2	35°4	48°4	" 30-May 6		
May 7-13	51°1	47°6	76°3	74°9	81°4	71°8	82°0	73°8	81°9	76°3	64°9	74°4	71°4	68°6	65°1	81°6	77°4	88°1	64°5	82°5	91°7	87°1	91°2	95°5	75°2	62°1	87°6	68°9	78°4	May 7-13		
" 14-20	20°2	16°1	25°3	30°7	26°4	29°7	37°7	27°4	42°2	39°5	30°4	33°0	27°4	33°0	31°5	57°0	38°1	35°8	30°0	25°6	33°5	30°0	54°0	50°0	38°9	41°1	52°3	48°7	47°6	" 14-20		
Total -	112°6	140°8	164°0	161°6	171°9	164°5	191°3	160°8	190°3	177°1	149°2	172°0	135°8	160°6	145°5	213°3	176°1	202°3	150°0	164°4	182°5	170°7	202°5	208°0	167°4	160°6	199°6	177°1	192°5	Total.		
Total of 20 weeks	357°3	451°9	513°7	440°0	455°5	528°8	610°5	489°3	540°6	557°9	415°7	528°1	428°9	436°3	370°9	611°5	543°9	604°5	433°0	511°3	522°3	506°5	565°3	651°0	500°9	538°2	555°7	560°9	659°4	Total of 20 weeks.		

^a To March 31st only; discontinued after this date.
^b Card for March 30th not received.

WEEKLY TOTALS OF SUNSHINE, 1881.

^c Sun powerful at times on 14th, but unable to penetrate frozen snow.
^d No sunshine recorded on 18th, probably owing to ice or frozen snow. Sun unclouded nearly all day.

WEEKLY TOTALS OF SUNSHINE, 1881—continued.

DISTRICTS.	0. Scotland, N.		1. Scotland, E.		2. England, N.E.			3. England, E.			4. Midland Counties.				
	Sandwich.	Stornoway.	Aberdeen.	Glenalmond.	Durham.	Kelstern.	York.	Cambridge.	Geddeston.	Hillington.	Churchstoke.	Cirencester.	Leicester.	Oxford.	
STATIONS.															
Date.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	
Brought forward, Total of 20 weeks	357'3	451'9	513'7		440'0		455'5	528'8	610'5	480'3	540'6	557'9	415'7	528'1	
May 21-27	89'8	79'6	79'3		78'9		80'2	65'6	84'6	82'0	60'8	68'9	62'4	66'8	
" 28-June 3	51'0	37'2	84'8		89'4		86'2	73'0	86'7	79'7	61'6	64'4	68'2	65'6	
June 4-10	50'5	48'8	56'1		37'6		43'1	36'7	55'7	48'9	28'1	36'4	27'2	44'7	
" 11-17	14'7	45'7	12'7		10'4		19'2	26'9	40'6	29'9	24'5	21'0	23'1	30'7	
Total -	206'0	211'3	232'9		216'3		228'7	202'2	267'6	240'5	175'0	190'7	180'9	207'8	
Total of 24 weeks	563'3	663'2	746'6		656'3		684'2	731'0	898'1	720'8	715'6	748'6	596'6	735'9	
June 18-24	10'1	22'3	38'2		36'6		40'8	51'1	53'0	49'0	43'4	47'0	46'3	46'5	
" 25-July 1	56'7	44'7	43'8		24'7		29'7	48'8	45'6	37'1	34'5	44'2	33'6	46'1	
July 2-8	16'0	10'4	16'7		26'3		26'5	46'2	56'9	46'2	24'4	43'8	34'7	48'0	
" 9-15	33'7	23'8	47'8		63'5		71'8	78'0	83'6	77'2	65'2	70'8	72'5	72'2	
Total -	116'5	101'2	146'5		151'1		168'8	224'1	239'1	209'5	167'5	205'8	187'1	212'8	
Total of 28 weeks	679'8	764'4	893'1		807'4		853'0	955'1	1117'2	939'3	883'1	954'4	783'7	948'7	
July 16-22	32'1	25'2	35'2		39'9		35'5	63'7	62'7	64'3	43'8	65'5	53'9	65'9	
" 23-29	34'8	38'7	30'7		36'2		31'8	28'9	40'4	31'7	33'9	41'0	29'7	41'9	
" 30-Aug. 5	45'2	34'8	42'8		54'4		49'3	41'1	41'4	42'0	38'6	37'2	45'7	41'0	
August 6-12	38'2	22'1	32'3		36'1		28'6	28'1	39'5	20'1	13'5	23'3	17'5	26'3	
Total -	150'3	120'8	141'0		166'6		145'2	161'8	184'0	158'1	129'8	167'0	146'8	175'1	
Total of 32 weeks	830'1	885'2	1034'1		974'0		998'2	1116'9	1301'2	1097'4	1012'9	1121'4	930'5	1123'8	
August 13-19	12'2	23'3	15'8		14'4		16'3	21'5	18'2	17'5	17'2	22'5	18'0	24'1	
" 20-26	43'8	51'8	29'8		20'6		21'5	36'5	41'6	31'5	31'2	30'9	25'2	36'4	
" 27-Sept. 2	29'4	29'2	37'0		19'8		21'9	22'6	22'0	21'3	24'1	31'8	15'8	21'6	
September 3-9	15'9	22'0	13'6		7'6		11'1	21'0	25'9	16'9	15'5	23'2	15'2	19'1	
Total -	101'3	126'3	96'2		62'4		70'8	101'6	107'7	87'2	88'0	108'4	74'2	101'2	
Total of 36 weeks	931'4	1011'5	1130'3		1036'4		1069'0	1218'5	1408'9	1184'6	1100'9	1229'8	1004'7	1225'0	
September 10-16	9'4	12'4	4'2		13'0		16'4	20'2	17'9	15'1	23'8	26'4	12'1	23'1	
" 17-23	14'0	20'1	4'4		9'4		16'0	18'8	26'6	25'9	16'9	25'8	17'3	23'7	
" 24-30	33'1	21'2	29'0		34'1		33'3	31'3	35'8	34'8	37'2	42'3	36'1	44'3	
October 1-7	33'3	34'0	15'3		19'1		25'3	34'5	40'3	33'1	29'2	37'3	30'6	38'8	
Total -	89'8	87'7	52'9		65'6		91'0	104'8	120'6	108'9	107'1	131'8	96'1	129'9	
Total of 40 weeks	1021'2	1099'2	1183'2		1102'0		1160'0	1323'3	1529'5	1293'5	1208'0	1361'6	1100'8	1354'9	

* Card for September 16th lost.

WEEKLY TOTALS OF SUNSHINE, 1881—continued.

5. England, S.				6. Scotland, W.			7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.			DISTRICTS.	
Kew.	London, Bunnhill Row.	St. Aubin's.	Southampton.	Cronkbourne.	Glasgow.	Silloth.	Llandudno.	Stonyhurst.	Falmouth.	St. Ann's Head.	Armagh.	Markree.	Dublin.	Parsonstown.	Valencia.	STATIONS.	
Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Date.	
Brought forward, Total of 20 weeks.																	
436'3	370'9	611'5	543'9	604'5	433'0	511'3	522'3	506'5	565'3	651'0	500'9	538'2	555'7	560'9	659'4	May 21-27	
62'5	59'3	75'0	74'3	67'1	66'0	79'1	50'8	76'5	72'1	72'2	64'0	65'4	68'2	67'6	71'1	" 28-June 3	
71'6	72'5	64'2	68'5	80'4	69'8	90'6	74'9	88'7	74'0	84'4	61'0	64'6	71'2	66'2	68'7	June 4-10	
47'6	42'0	64'3	46'6	59'2	35'2	33'4	52'1	42'4	67'7	58'0	57'0	47'7	52'6	48'3	57'2	" 11-17	
33'3	23'2	34'6	16'9	33'8	27'2	26'5	29'4	20'2	46'2	48'7	15'5	18'5	17'6	18'4	19'4	Total.	
215'0	197'0	238'1	206'3	240'5	198'2	229'6	207'2	227'8	260'0	263'3	197'5	196'2	209'6	200'5	216'4	Total of 24 weeks.	
651'3	567'9	849'6	750'2	845'0	631'2	740'9	729'5	734'3	825'3	914'3	698'4	734'4	765'3	761'4	875'8	June 18-24	
53'3	49'6	61'1	53'8	49'4	32'3	45'5	46'5	43'9	58'2	52'2	30'7	13'8	23'2	25'7	39'4	" 25-July 1	
54'1	56'2	71'9	57'3	29'3	37'4	33'2	31'8	32'6	51'0	45'3	27'4	23'6	30'5	27'3	25'9	July 2-8	
49'9	44'4	63'3	57'9	11'6	9'7	9'1	31'3	15'0	51'4	27'6	8'9	11'5	14'4	17'3	20'2	" 9-15	
81'3	77'4	83'7	82'4	40'0	38'1	46'5	64'2	60'3	72'7	43'1	34'2	16'9	42'1	28'3	12'1	Total.	
238'6	227'6	280'0	251'4	130'3	117'5	134'3	173'8	151'8	233'3	168'2	101'2	65'8	110'2	98'6	97'6	Total of 28 weeks.	
889'9	795'5	1120'6	1001'6	975'3	748'7	875'2	903'3	886'1	1058'6	1082'5	799'6	800'2	875'5	860'0	973'4	July 16-22	
65'1	54'9	74'8	69'6	49'5	34'5	50'1	30'8	33'4	59'9	48'4	35'8	28'1	45'1	49'3	29'0	" 23-29	
42'6	37'8	45'4	45'4	32'2	23'4	20'4	28'2	28'2	44'6	50'4	26'4	32'7	41'3	48'2	43'5	" 30-Aug. 5	
33'5	30'9	58'8	32'7	33'0	34'0	41'5	42'0	41'8	40'9	32'5	39'6	50'0	44'2	38'8	34'0	August 6-12	
36'8	38'6	52'4	34'8	36'0	35'7	28'0	14'4	20'6	37'4	25'1	27'7	28'9	25'8	22'1	19'4	Total.	
178'0	162'2	231'4	182'5	150'7	127'6	140'0	115'4	124'0	182'8	156'4	129'5	139'7	156'4	158'4	125'9	Total of 32 weeks.	
1067'9	957'7	1361'0	1184'1	1126'0	876'3	1015'2	1018'7	1010'1	1241'4	1238'9	929'1	939'1	1031'9	1018'4	1099'3	August 13-19	
24'3	22'5	44'1	34'6	30'0	28'8	26'4	11'6	14'7	42'7	42'0	18'8	36'4	18'1	34'4	42'1	" 20-26	
39'3	34'6	48'2	40'1	11'0	24'7	24'6	20'3	19'7	36'2	49'5	25'1	26'4	24'7	30'3	21'1	" 27-Sept. 2	
29'4	22'7	42'4	42'3	57'0	34'2	29'3	25'3	39'8	57'4	50'7	49'4	55'7	51'5	50'5	42'1	September 3-9	
24'0	18'8	30'7	28'3	21'2	10'4	21'3	30'2	20'0	44'4	36'4	9'4	13'4	21'8	21'6	24'6	Total.	
117'6	98'6	165'4	145'3	119'2	98'1	101'6	87'4	103'2	180'7	178'6	102'7	131'9	116'1	136'8	129'9	Total of 36 weeks.	
1184'0	1056'3	1526'4	1320'4	1245'2	974'4	1116'8	1106'1	1113'3	1422'1	1417'5	1031'8	1071'8	1148'0	1155'2	1229'2	September 10-16	
22'2	12'1	43'2	35'0	24'6	24'2	27'9	20'5	16'9	49'9	46'9	17'0	25'1	17'1	21'1	35'1	" 17-23	
16'5	8'4	45'7	24'7	19'4	4'2	14'4	13'9	14'0	30'2	25'4	23'1	19'7	17'0	18'4	19'5	" 24-30	
30'2	22'5	50'6	46'6	27'0	17'1	31'9	33'7	34'3	46'9	41'1	19'2	20'0	30'2	19'4	32'1	October 1-7	
27'7	29'3	57'0	43'1	38'1	27'0	33'0	41'9	34'1	44'4	50'7	41'1	39'5	48'3	43'8	29'2	Total.	
96'6	72'3	106'5	149'4	109'1	72'5	107'2	110'0	100'2	171'4	164'1	100'4	104'3	112'6	102'7	115'9	Total of 40 weeks.	
1281'5	1128'6	1722'9	1478'8	1354'3	1046'0	1224'0	1216'1	1213'5	1593'5	1581'6	1132'2	1176'1	1260'6	1257'9	1345'1		

amount estimated from eye observations.

WEEKLY TOTALS OF SUNSHINE, 1881—continued.

DISTRICTS.	0. Scotland, N.		1. Scotland, E.		2. England, N.E.			3. England, E.			4. Midland Counties.				
	Sandwich.	Stornoway.	Aberdeen.	Glenalmond.	Durham.	Kelstern.	York.	Cambridge.	Geddeson.	Hillington.	Churchstoke.	Cirencester.	Leicester.	Oxford.	Workop.
STATIONS.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
Date.															
Brought forward, Total of 40 weeks	1021'2	1099'2	1183'2		1102'0		1160'0	1323'5	1529'5	1293'5	1208'0	1361'6	1100'8	1354'9	1121'7
October 8-14	11'9	15'4	29'7		31'4		19'9	11'1	20'3	10'8	12'7	6'8	16'0	15'2	18'3
" 15-21	18'1	27'5	16'9		30'7		34'3	46'4	41'4	32'4	45'0	50'9	38'5	49'5	40'2
" 22-28	5'1	17'3	10'8		3'9		5'6	15'2	15'0	9'4	3'0	11'0	6'9	9'9	8'5
" 29-Nov. 4	5'7	6'5	8'2		8'8		9'6	18'1	8'9	9'7	20'0	16'5	13'8	16'4	11'1
Total -	40'8	66'7	65'6		74'8		69'4	90'8	85'6	62'3	80'7	85'2	75'2	91'0	78'1
Total of 44 weeks	1062'0	1165'9	1248'8		1176'8		1229'4	1414'1	1615'1	1355'8	1288'7	1446'8	1176'0	1445'9	1199'8
November 5-11	10'9	5'8	14'0		12'1		8'0	13'7	18'7	8'3	7'8	7'2	10'5	7'8	16'1
" 12-18	3'2	4'2	11'3		13'7		10'0	22'8	25'3	13'2	20'5	12'6	17'4	22'1	13'8
" 19-25	9'3	5'4	13'5		13'2		12'3	17'0	12'8	6'9	15'5	10'7	21'7	17'4	18'8
" 26-Dec. 2	7'6	3'6	12'6		13'7		14'4	23'0	21'7	18'9	10'6	21'0	20'1	21'2	13'9
Total -	31'0	19'0	51'4		52'7		44'7	76'5	78'5	47'3	54'4	51'5	69'7	68'5	62'6
Total of 48 weeks	1093'0	1184'9	1300'2		1229'5		1274'1	1490'6	1693'6	1403'1	1343'1	1498'3	1245'7	1514'4	1262'4
December 3-9	5'8	8'6	11'9		12'1		3'6	13'4	16'7	10'9	16'1	14'7	14'6	14'9	10'5
" 10-16	14'8	11'6	10'9		7'5		2'3	6'7	6'9	6'2	5'5	7'3	5'8	2'6	10'9
" 17-23	5'4	4'9	17'6		20'7		14'2	22'3	16'8	11'6	13'7	24'8	15'5	23'6	8'2
" 24-30	1'4	2'2	14'8		10'4		5'6	5'8	3'2	7'4	11'1	4'8	8'7	6'6	13'8
Total -	27'4	27'3	55'2		50'7		25'7	48'2	43'6	36'1	46'4	51'6	44'6	47'7	43'4
Total of 52 weeks	1120'4	1212'2	1355'4		1280'2		1299'8	1538'8	1737'2	1439'2	1389'5	1549'9	1290'3	1562'1	1305'8
December 31	0'0	0'0	0'0		0'0		0'0	0'3	0'0	0'0	0'0	0'0	0'0	0'2	0'0
TOTAL OF YEAR -	1120'4	1212'2	1355'4		1280'2		1299'8	1539'1	1737'2	1439'2	1389'5	1549'9	1290'3	1562'3	1305'8

^a Amount for October 11th doubtful, card having shifted in instrument.
^b Amount for October 25th doubtful, card having shifted in instrument.
^c Values from November 15th—November 21st estimated.

WEEKLY TOTALS OF SUNSHINE, 1881—continued.

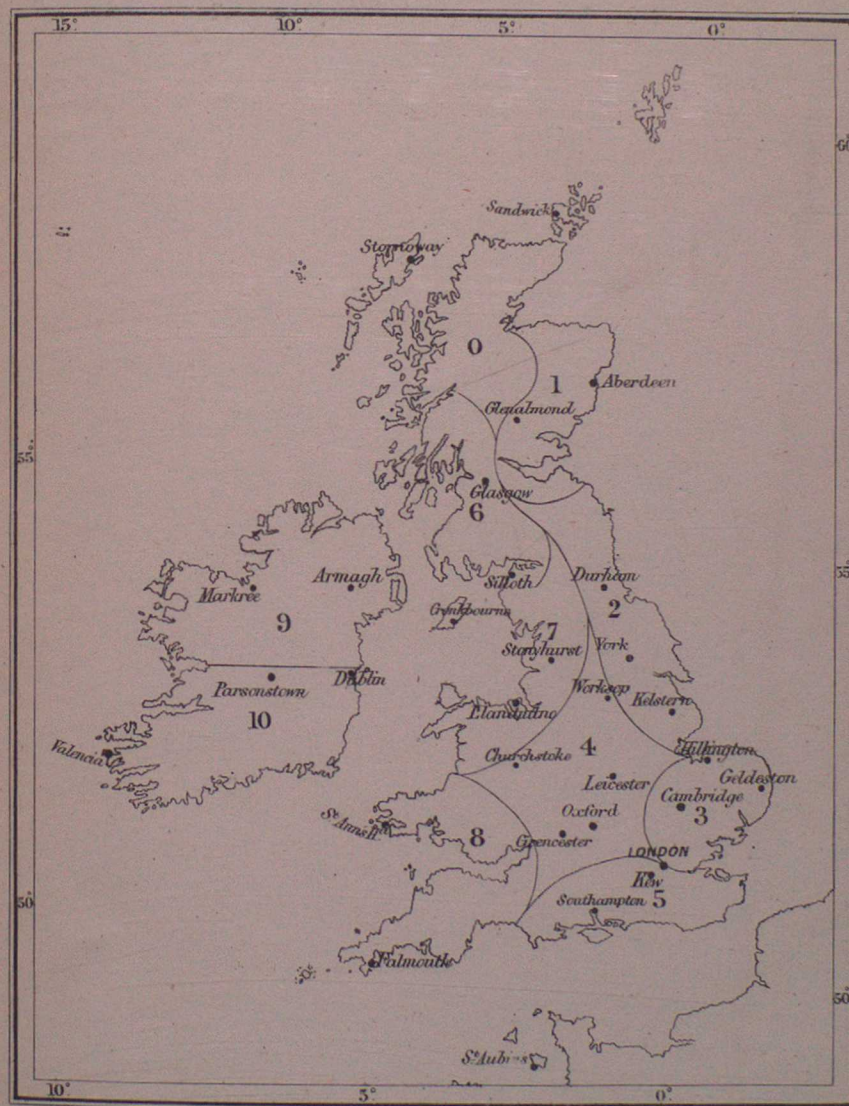
5. England, S.				6. Scotland, W.			7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.			DISTRICTS.	STATIONS.
Kew.	London, Bunhill Row.	St. Aubin's.	Southampton.	Cronkbourne.	Glasgow.	Silloth.	Llandudno.	Stonyhurst.	Falmouth.	St. Ann's Head.	Armagh.	Markree.	Dublin.	Parsonstown.	Valencia.		
Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Date.	
1281'5	1128'6	1722'9	1478'8	1354'3	1046'9	1224'0	1216'1	1213'5	1593'5	1581'6	1132'2	1176'1	1260'6	1257'9	1345'1	Brought forward, Total of 40 weeks.	
11'0	7'6	22'0	16'7	18'1	13'6	21'9	14'8	19'8	18'9	8'9	19'1	18'1	21'1	19'4	15'6	October 8-14	
48'1	28'8	44'3	48'4	30'6	25'8	35'8	42'8	47'7	43'6	25'7	36'4	24'2	37'8	21'8	14'4	" 15-21	
14'3	12'6	19'3	17'4	8'9	4'2	8'5	3'0	7'4	23'9	50'1	3'7	5'8	4'3	5'9	16'0	" 22-28	
11'5	6'9	23'6	20'4	13'0	5'1	22'4	26'8	11'9	29'3	29'4	32'9	32'0	28'5	30'9	33'0	" 29-Nov. 4	
84'9	55'9	109'2	102'9	70'6	48'7	88'6	87'4	86'8	115'7	114'1	92'1	80'1	91'7	78'0	79'0	Total.	
1366'4	1184'5	1832'1	1581'7	1424'9	1095'6	1312'6	1303'5	1300'3	1709'2	1695'7	1224'3	1256'2	1352'3	1335'9	1424'1	Total of 44 weeks.	
9'3	3'0	19'3	7'3	13'3	6'5	10'6	12'6	5'4	17'8	13'9	11'1	8'4	14'6	16'4	16'4	November 5-11	
20'4	8'8	26'2	14'9	10'7	7'9	4'9	13'8	5'0	16'5	11'3	16'7	14'3	22'4	18'5	12'8	" 12-18	
15'3	11'6	16'4	14'6	16'3	9'9	7'5	5'2	13'7	21'9	17'4	22'5	21'9	27'7	26'3	13'8	" 19-25	
16'8	6'0	21'6	18'0	15'3	5'0	7'7	7'5	7'5	24'8	18'6	14'6	9'7	20'0	16'6	7'6	" 26-Dec. 2	
61'8	29'4	83'5	54'8	55'6	29'3	30'7	39'1	31'6	81'0	61'2	64'9	54'3	84'7	77'8	50'6	Total.	
1428'2	1213'9	1915'6	1636'5	1480'5	1124'9	1343'3	1342'6	1331'9	1790'2	1756'9	1289'2	1310'5	1437'0	1413'7	1474'7	Total of 48 weeks.	
11'7	2'6	6'6	10'9	13'6	2'0	7'1	7'1	3'0	15'4	13'0	9'1	12'0	9'9	15'2	13'7	December 3-9	
2'5	0'0	11'0	6'7	21'7	3'6	14'7	4'2	7'4	(19'8)	24'2	16'8	28'3	7(11'7)	17'9	22'0	" 10-16	
26'7	6'2	23'7	19'3	20'4	2'4	7'8	0'7	3'4	(3'3)	18'1	18'6	9'4	17'9	15'8	15'1	" 17-23	
0'7	0'3	20'8	1'5	9'5	4'3	7'8	1'4	3'5	(16'4)	10'4	10'5	13'5	15'9	11'5	10'9	" 24-30	
41'6	9'1	62'1	38'4	65'2	12'3	37'4	13'4	17'3	54'9	65'7	55'0	65'2	55'4	60'4	61'7	Total.	
1469'8	1223'0	1977'7	1674'9	1545'7	1137'2	1380'7	1356'0	1349'2	1845'1	1822'6	1344'2	1373'7	1492'4	1474'1	1536'4	Total of 52 weeks.	
0'0	0'0	0'8	0'0	0'5	0'0	0'9	1'1	0'0	0'0	1'1	0'5	0'0	0'6	1'4	0'0	December 31	
1469'8	1223'0	1978'5	1674'9	1546'2	1137'2	1381'6	1357'1	1349'2	1845'1	1823'7	1344'7	1373'7	1493'0	1475'5	1536'4	Total of Year.	

^d From early part of December to end of month record doubtful, owing to improper adjustment for latitude.
^e Amount for December 3rd doubtful, card taken out of instrument by rooks.

The card supporter is described in the Report above quoted. The cards employed are of a light blue tint, and these, though they have been found to be the best for the purpose, are not charred when a slight film of cloud or even of haze obscures the sun.

Lastly, the mode of reproduction of the records requires some notice. These are not engraved directly from the cards, for the variations in shape between the solstitial and equinoctial cards would make it difficult to obtain a correct copy. The weekly tabulation diagrams have been employed in every case.

MAP SHOWING POSITIONS OF SUNSHINE RECORD STATIONS
IN 1881.



F. Dar. garfield, lith. London. 6076.

SUNSHINE RECORDS FOR 1881.

ABERDEEN.

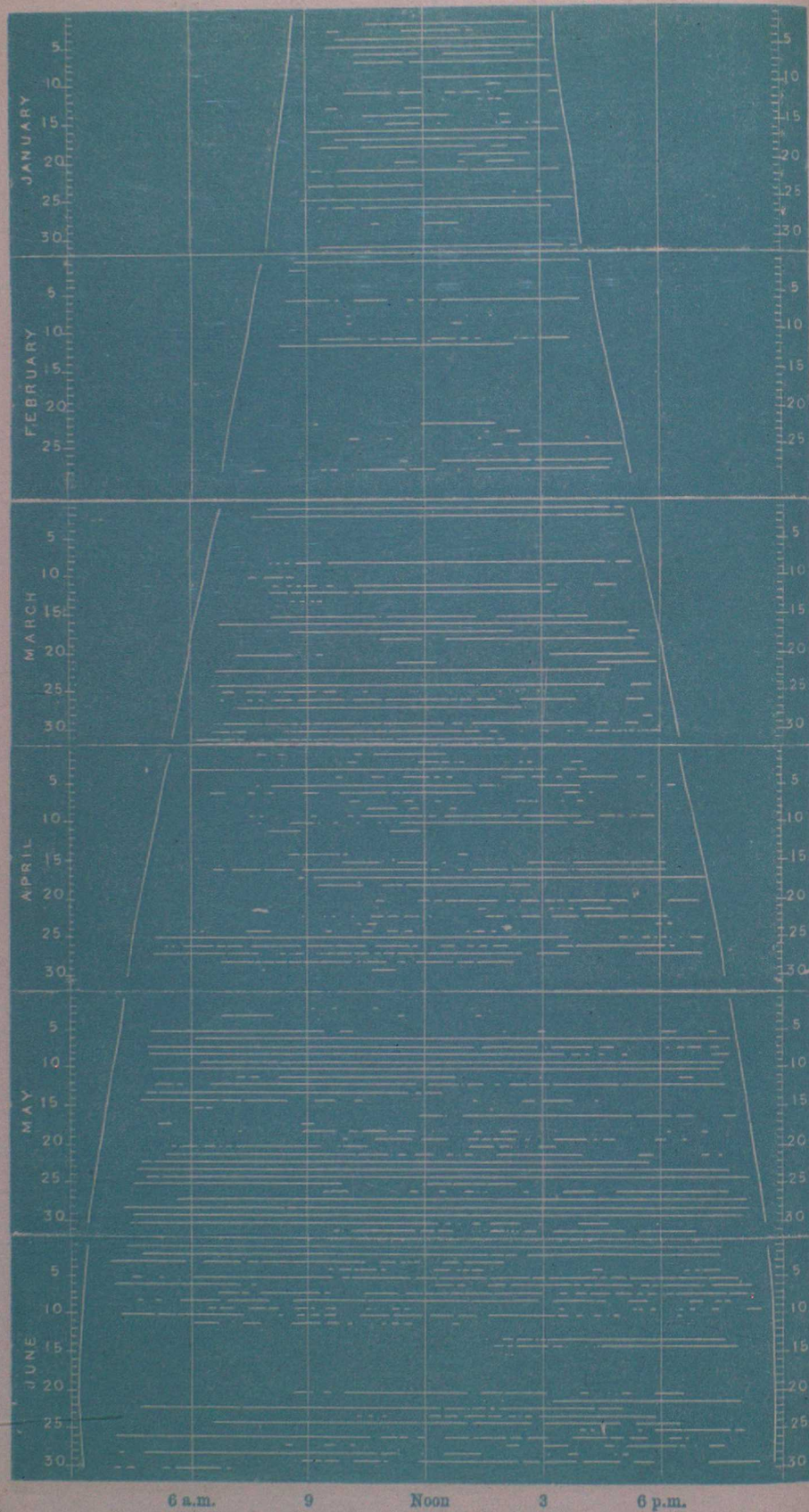
6 a.m.

9

Noon

3

6 p.m.



ABERDEEN.

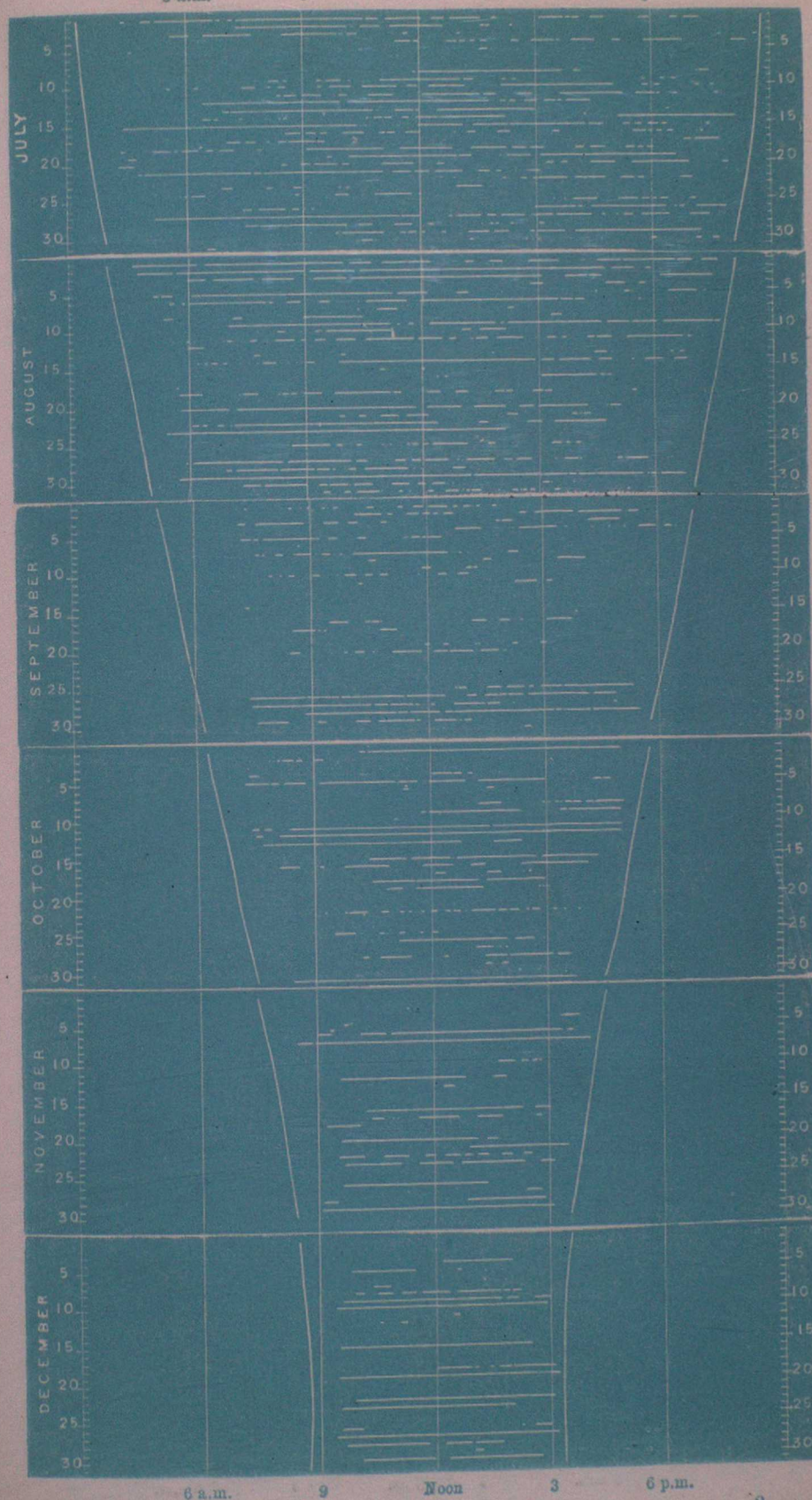
6 a.m.

9

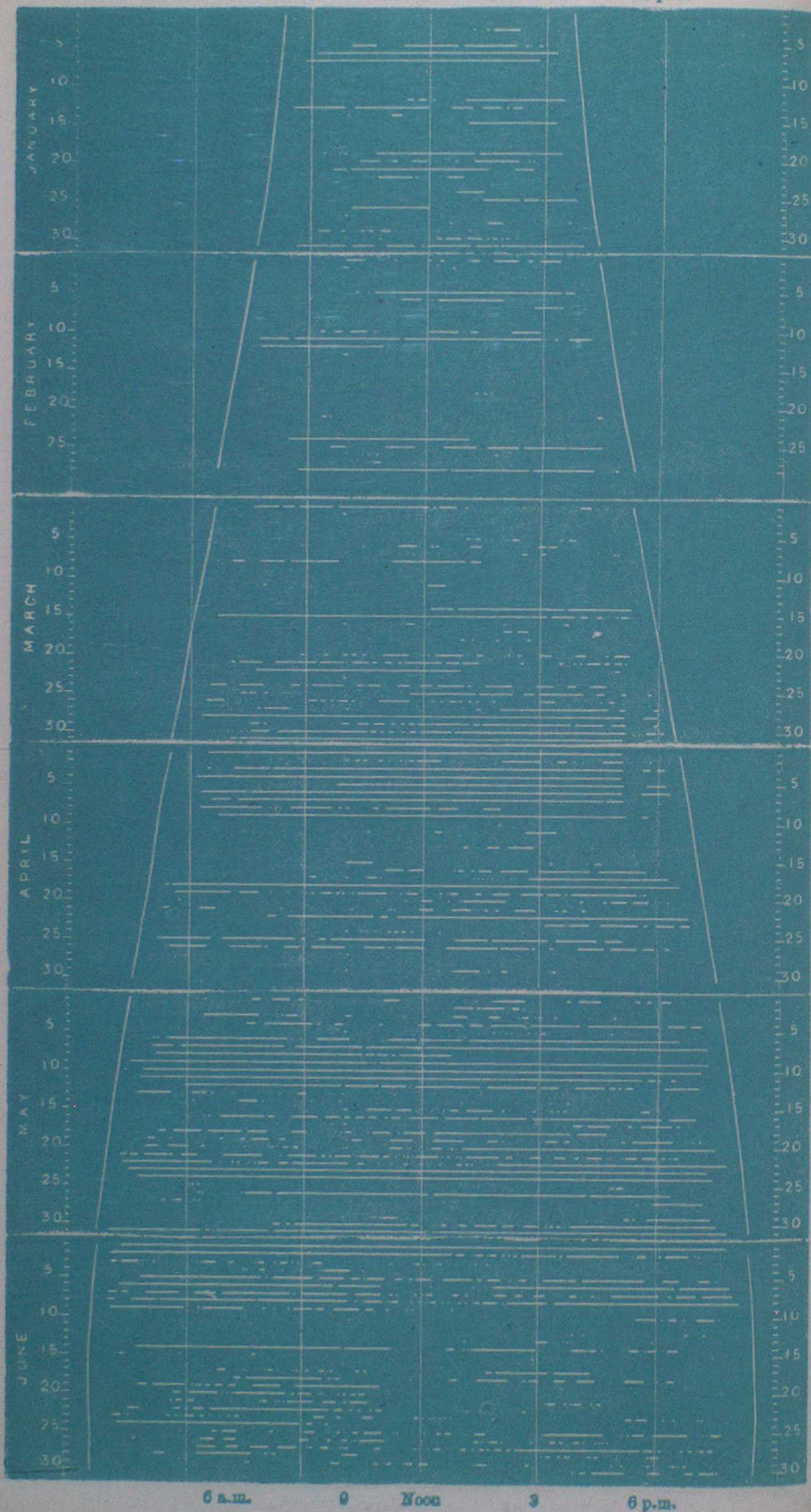
Noon

3

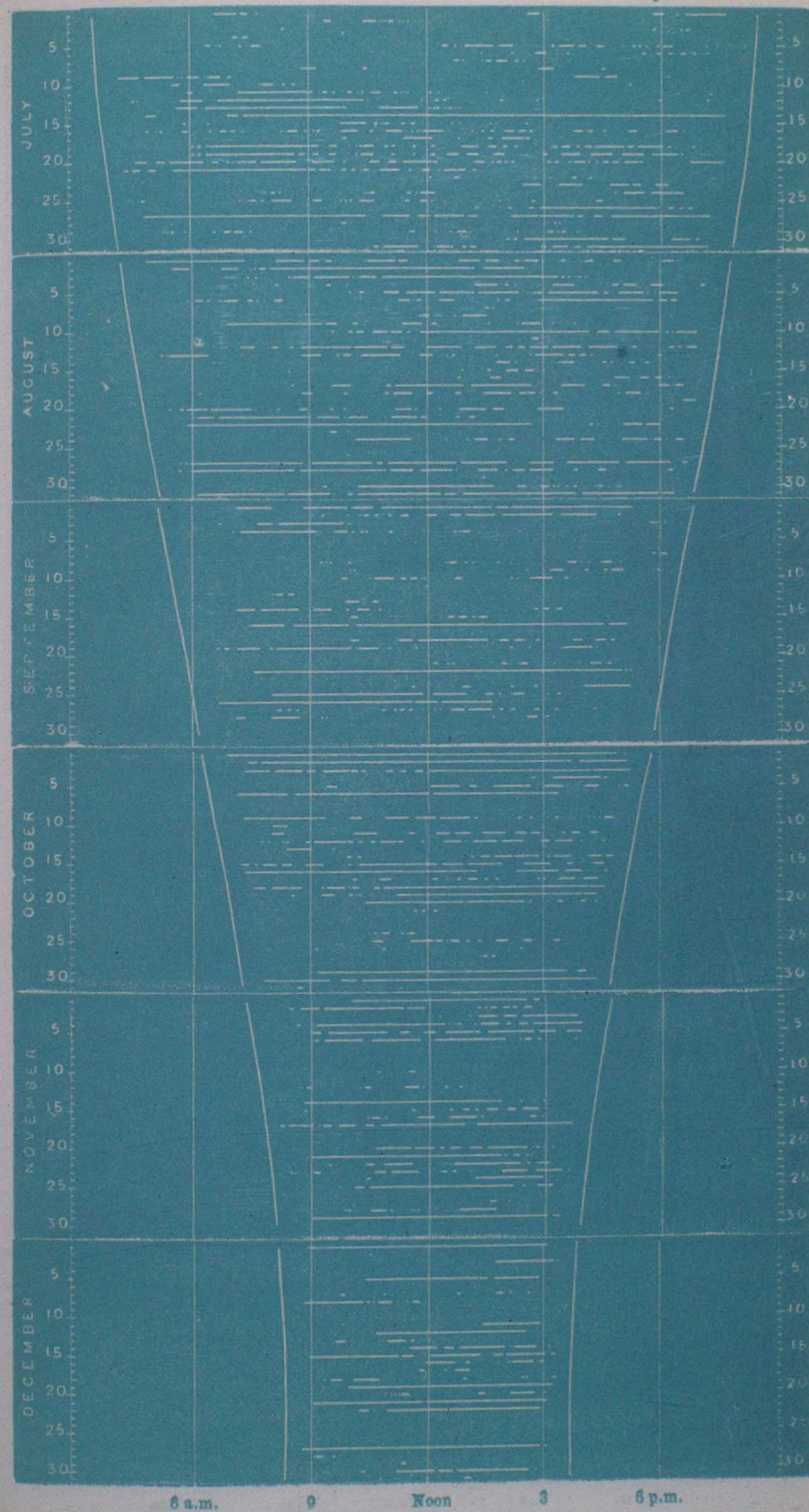
6 p.m.



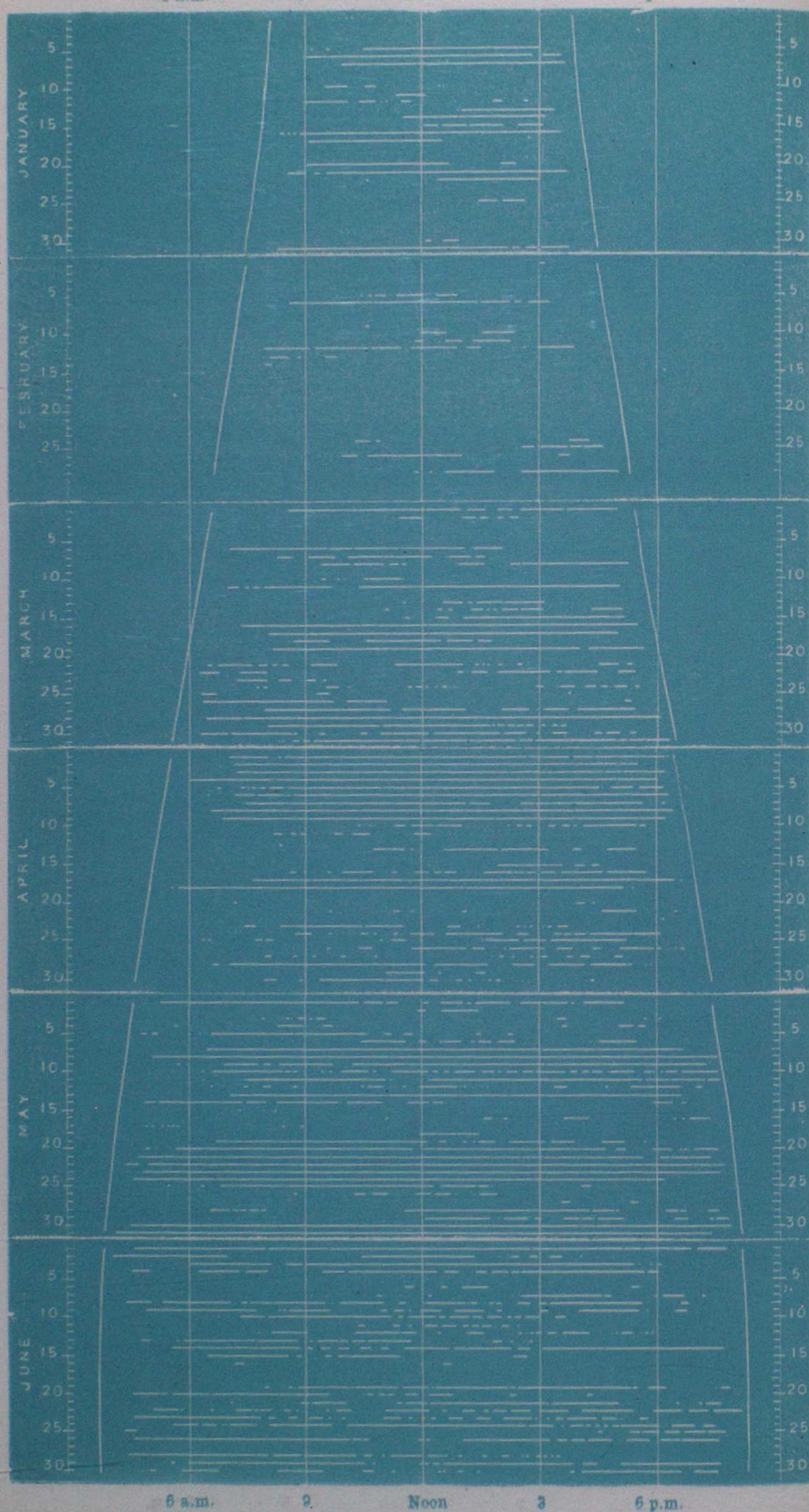
6 a.m. 9 Noon 3 6 p.m.



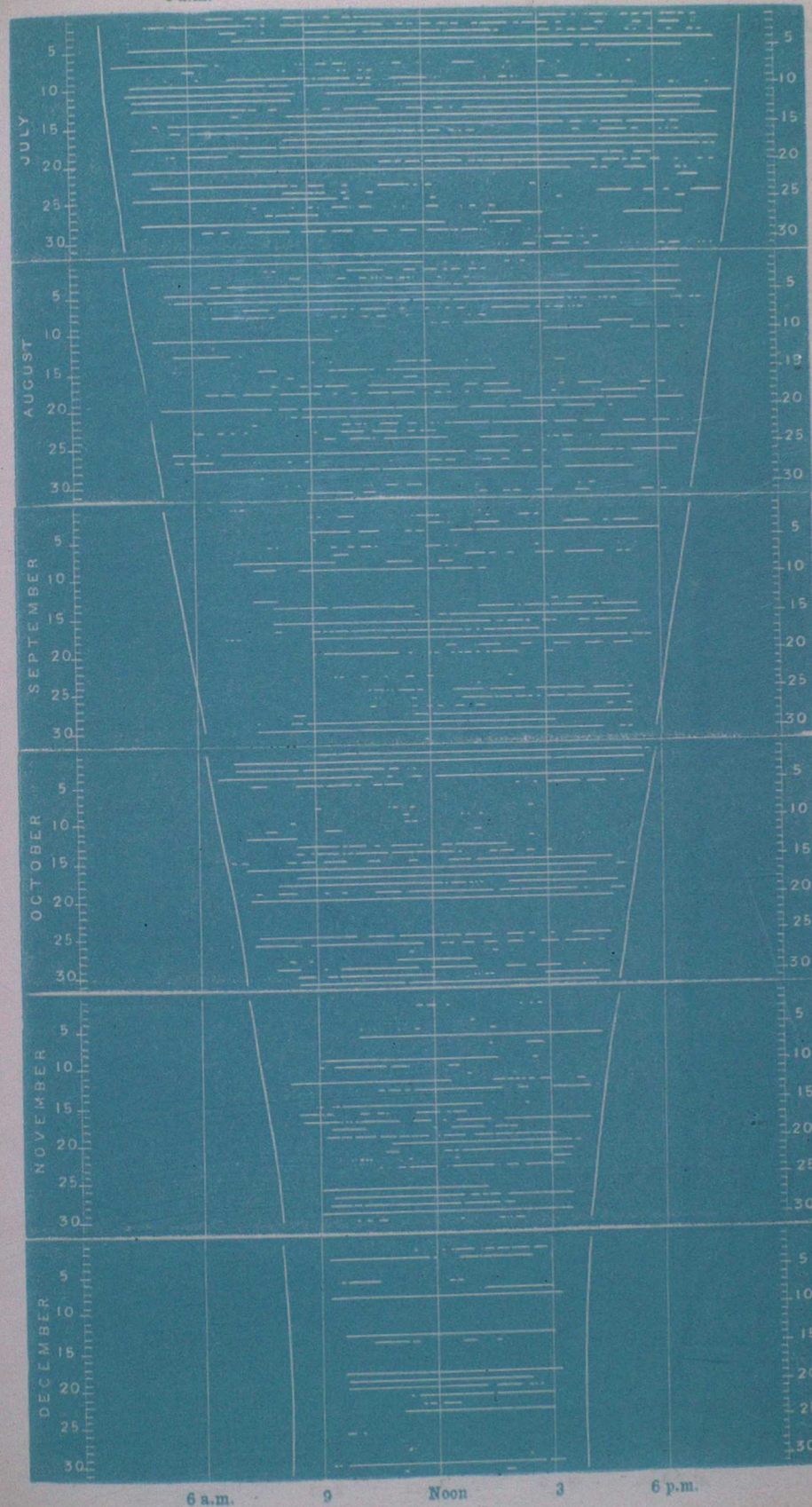
6 a.m. 9 Noon 3 6 p.m.



6 a.m. 9 Noon 3 6 p.m.



6 a.m. 9 Noon 3 6 p.m.



CHURCHSTOKE.

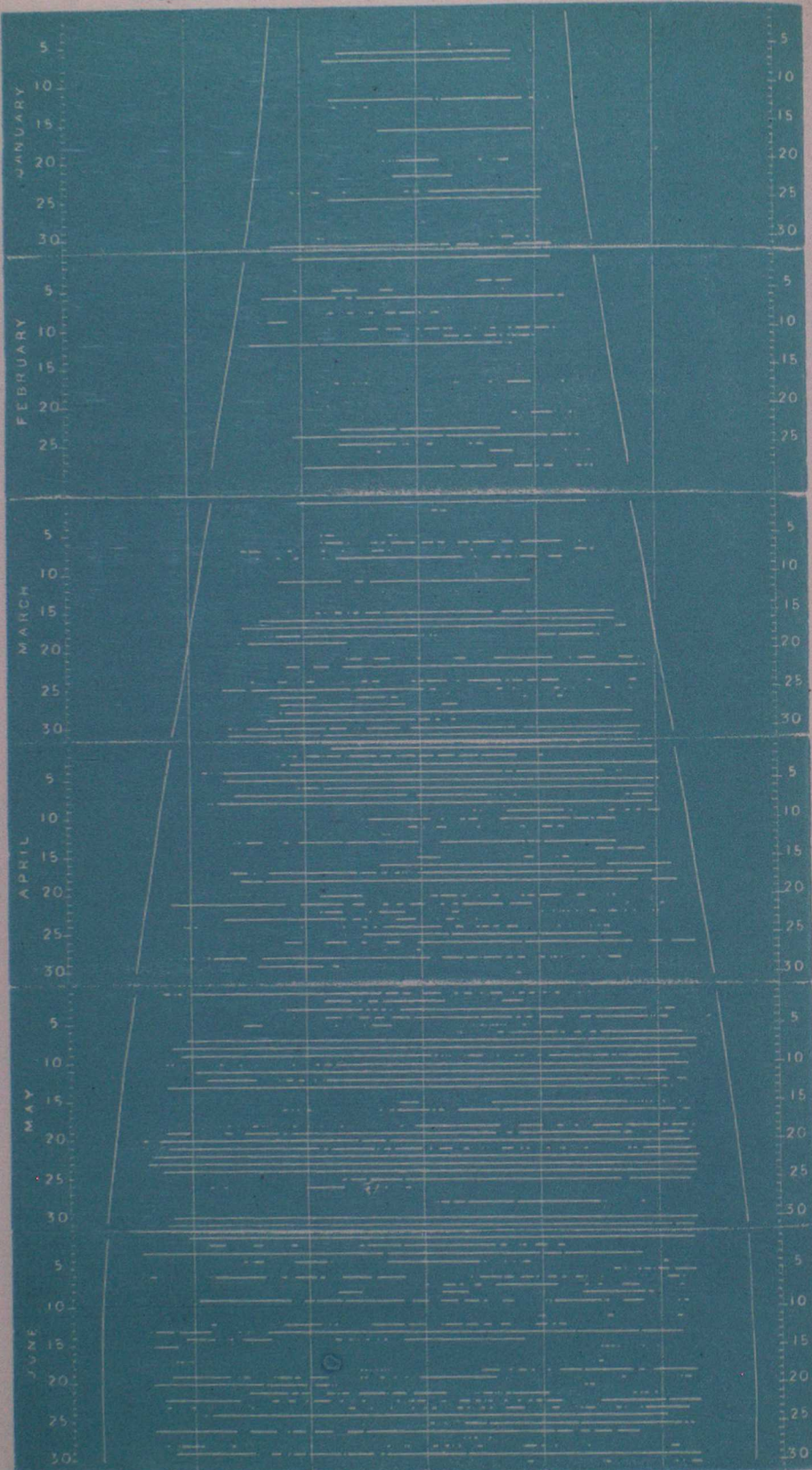
6 a.m.

9

Noon

3

6 p.m.



6 a.m.

9

Noon

3

6 p.m.

CHURCHSTOKE.

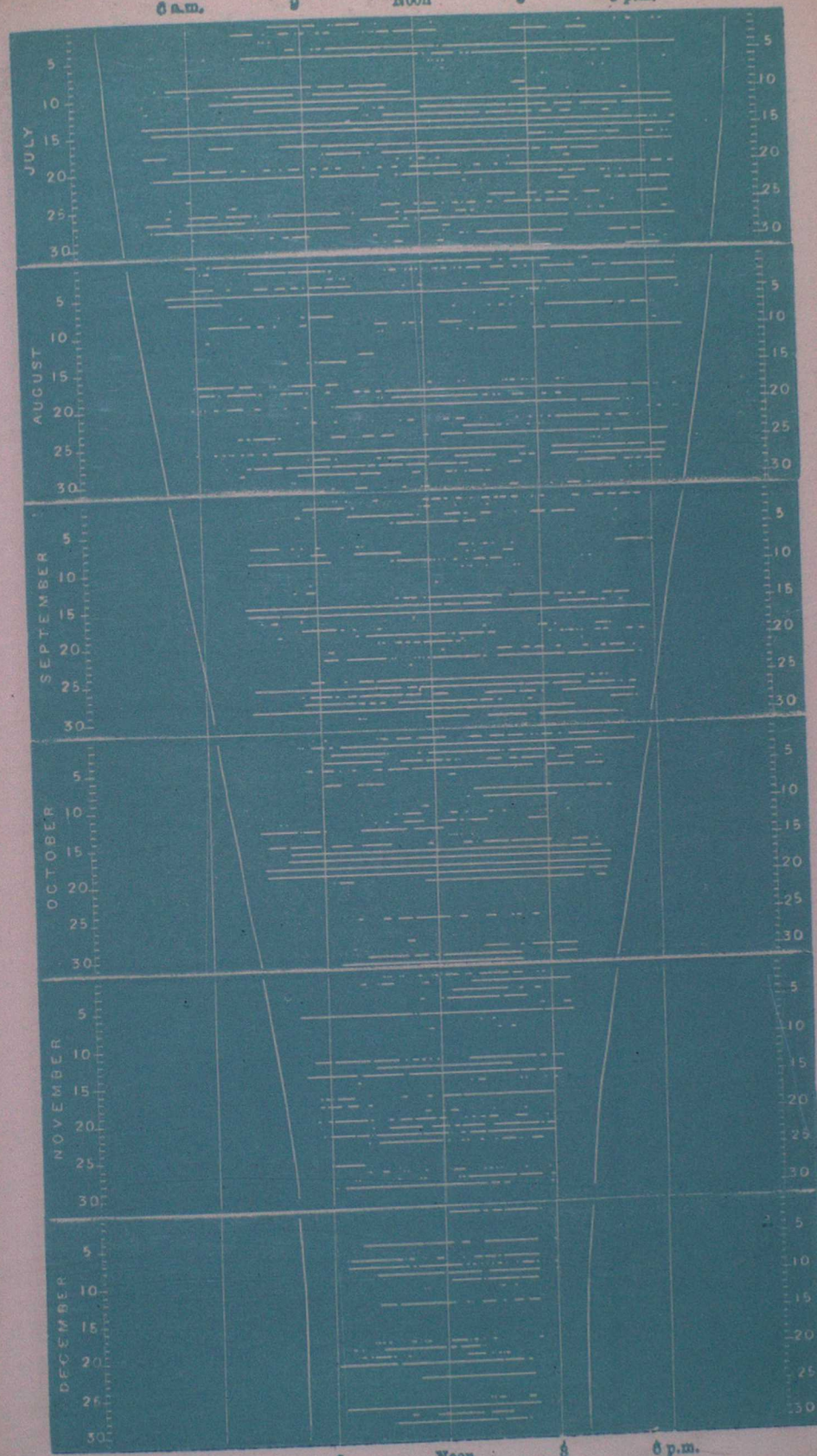
6 a.m.

9

Noon

3

6 p.m.



6 a.m.

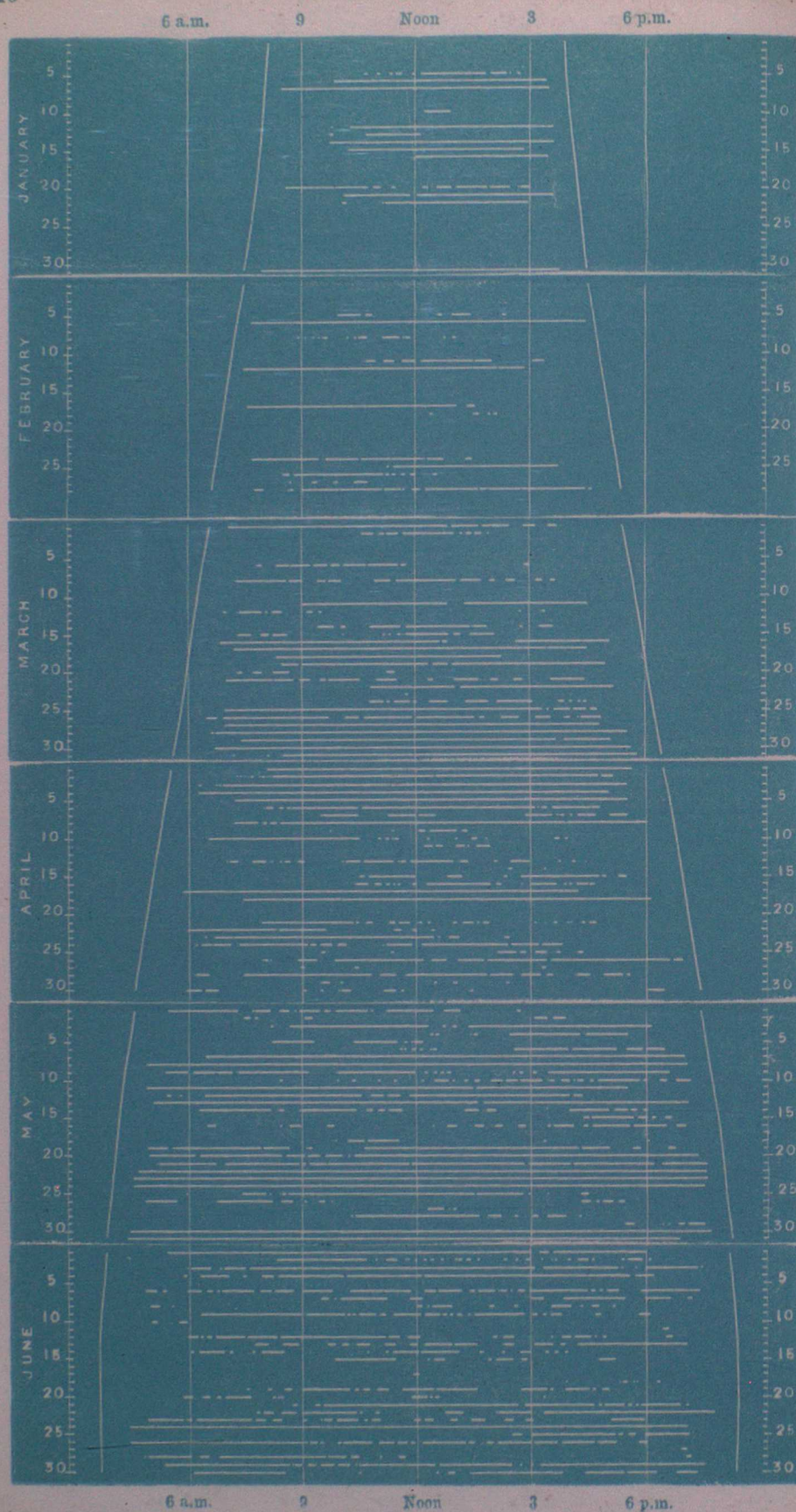
9

Noon

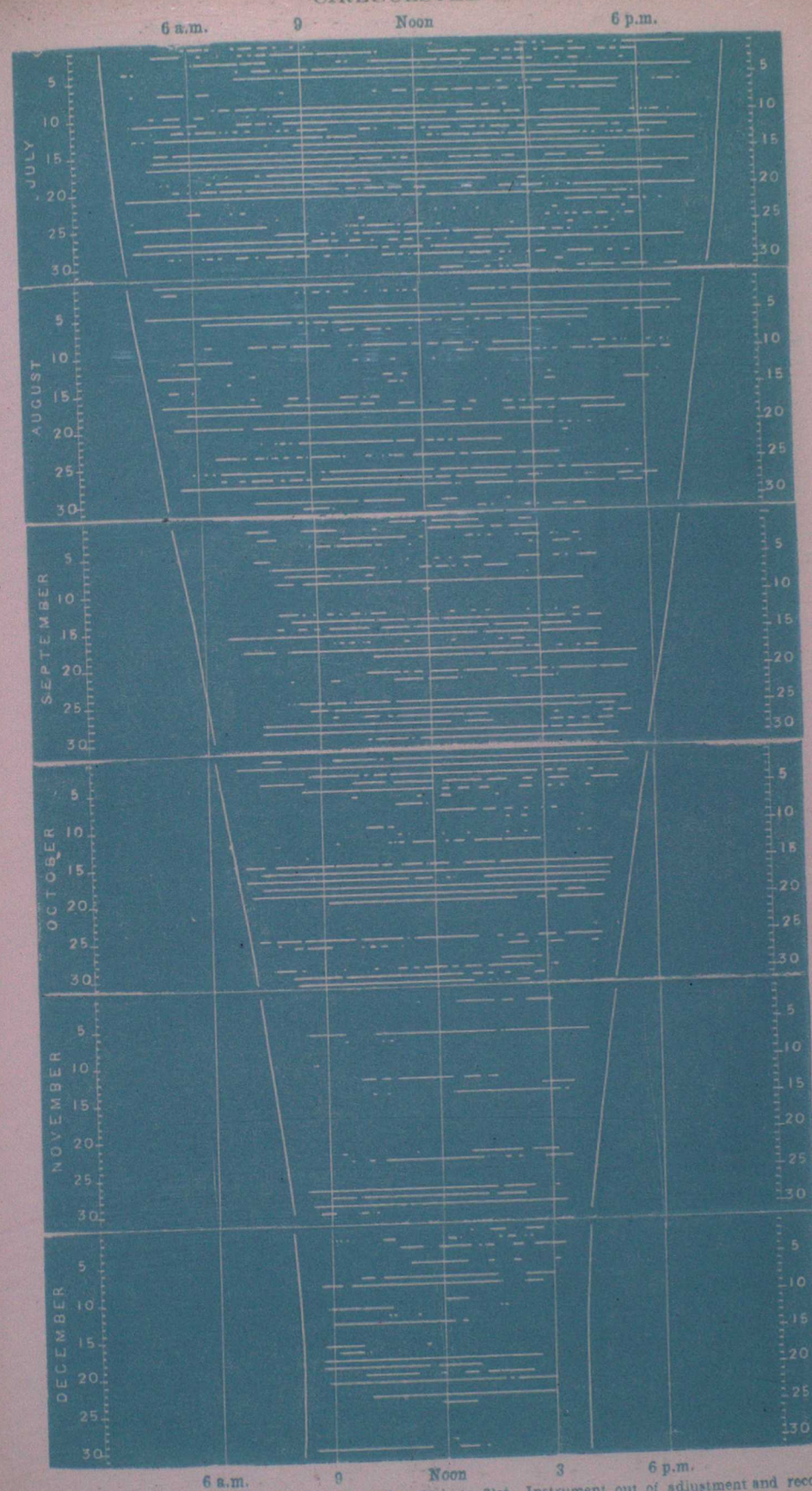
3

6 p.m.

CIRENCESTER.

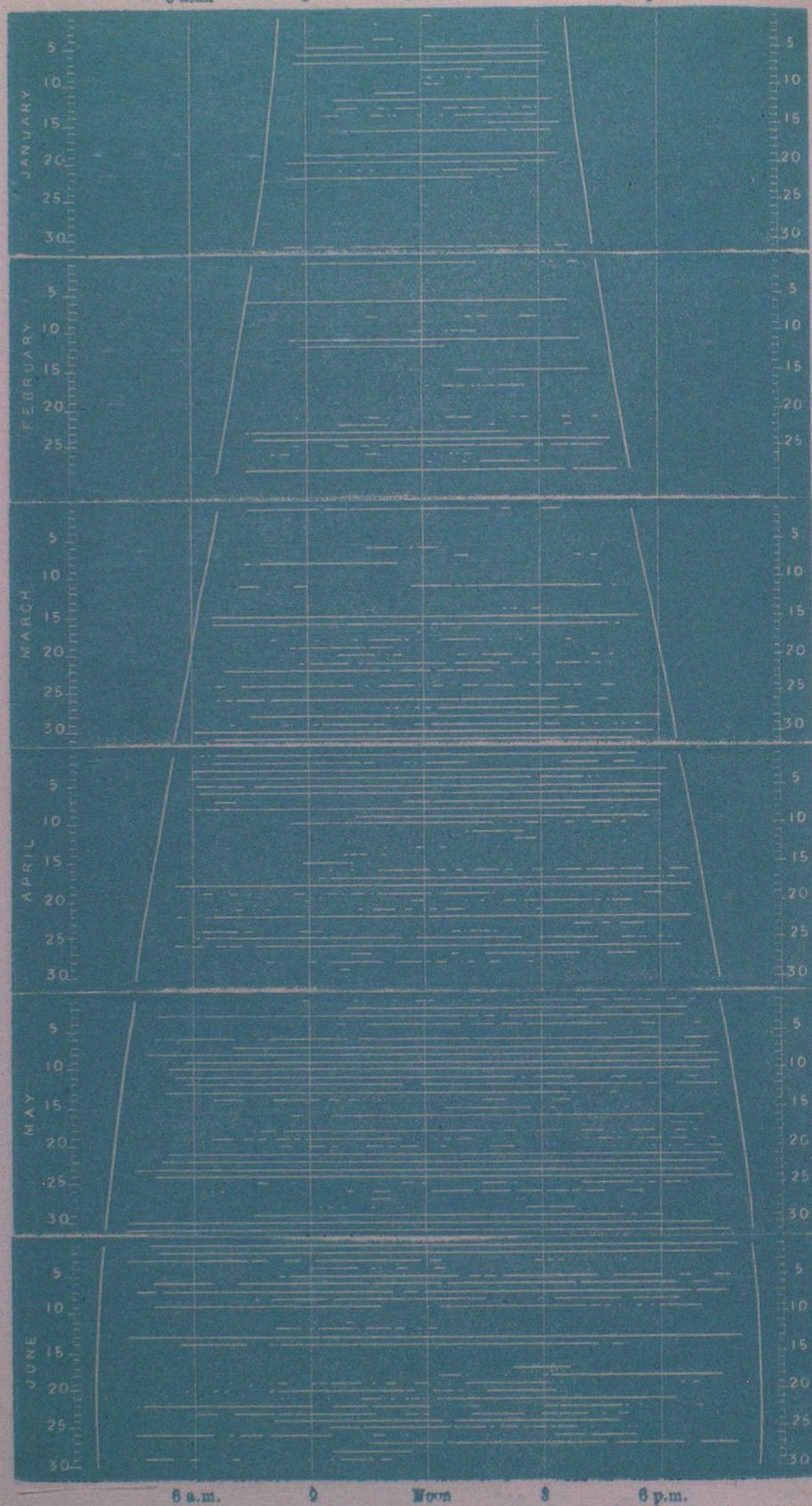


CIRENCESTER.

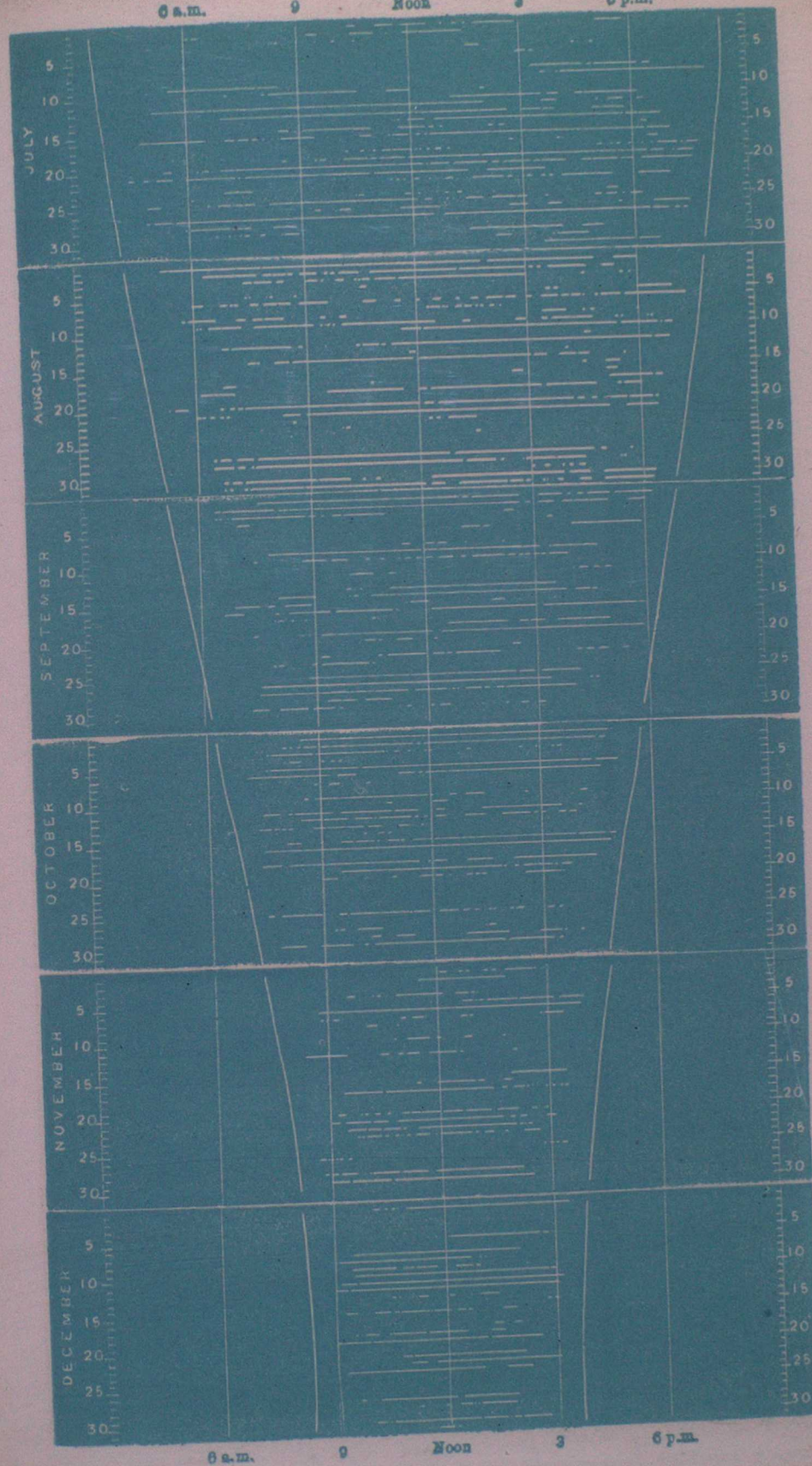


NOTES.—October 13th. Record lost. November 15th to 21st. Instrument out of adjustment and record untrustworthy; about 10 hours sunshine during the seven days.

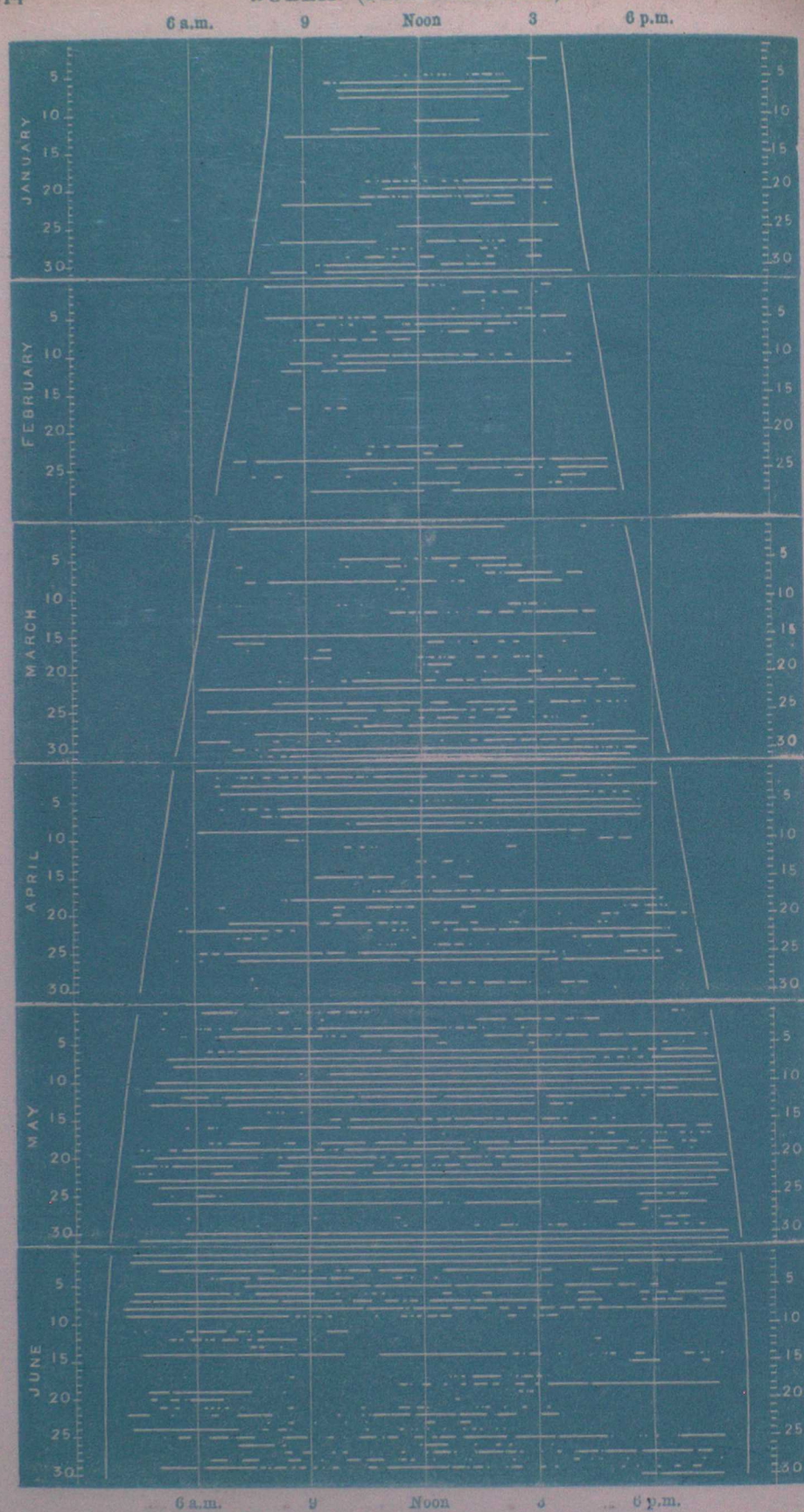
6 a.m. 9 Noon 3 6 p.m.



6 a.m. 9 Noon 3 6 p.m.

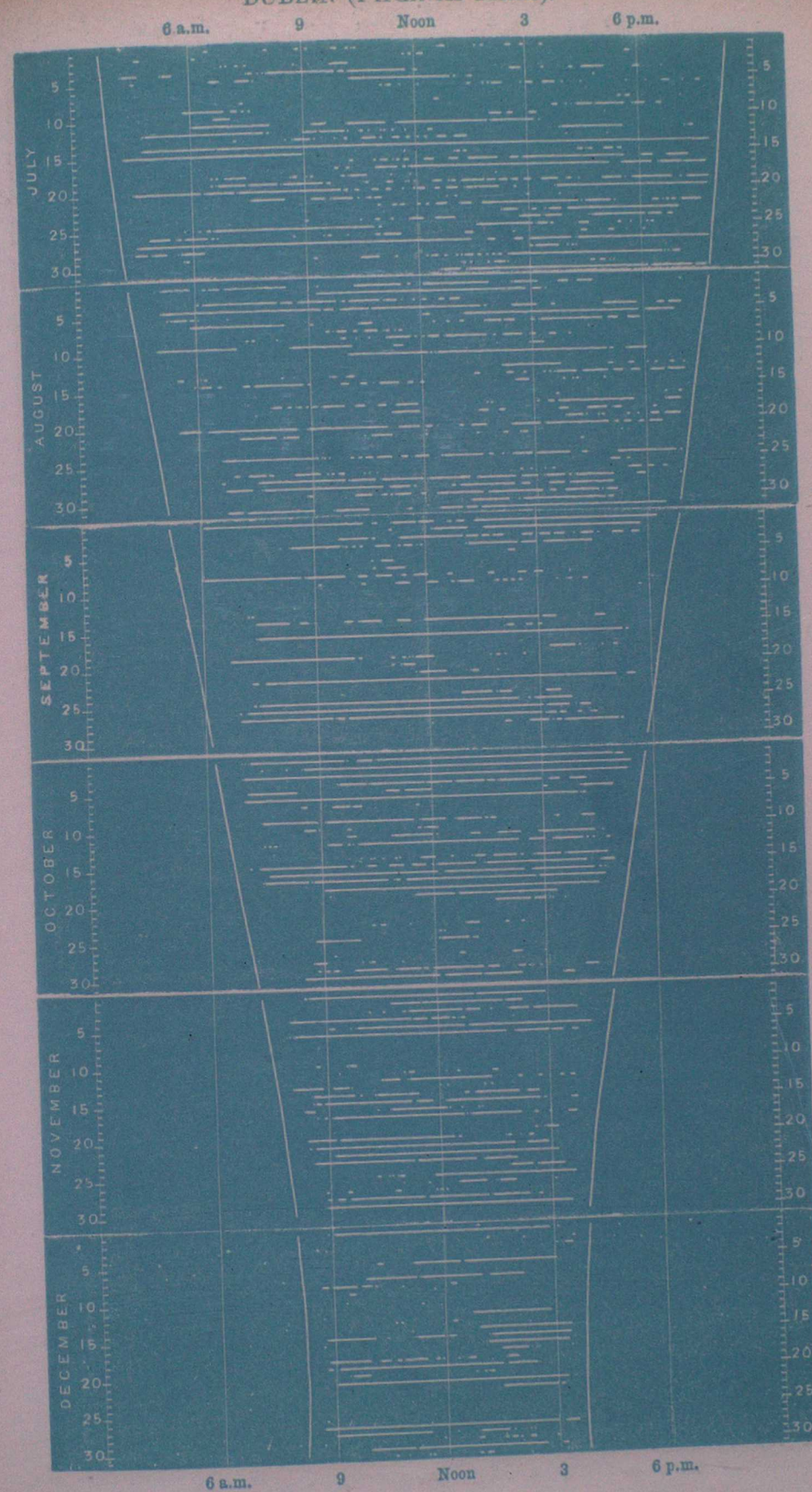


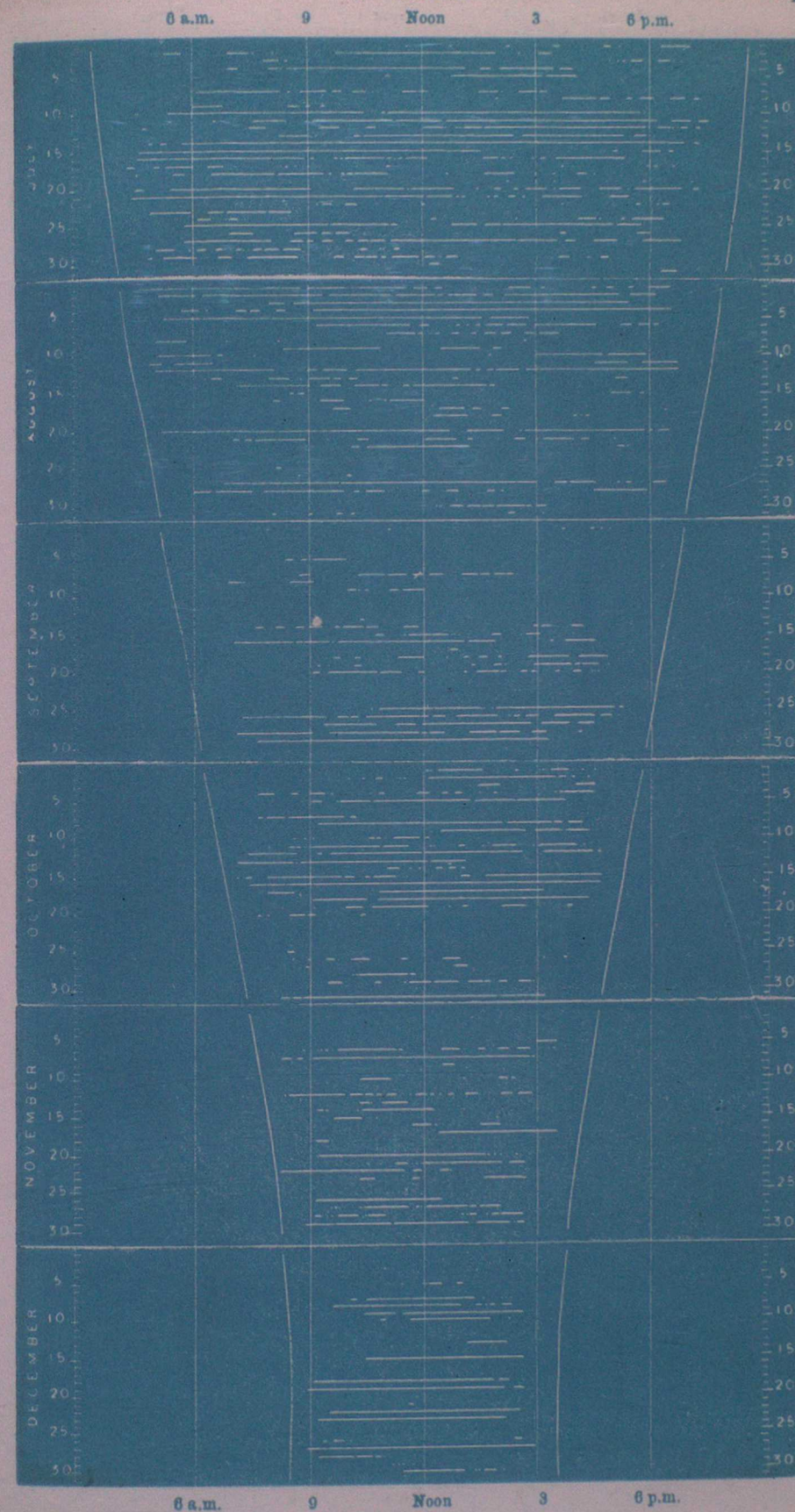
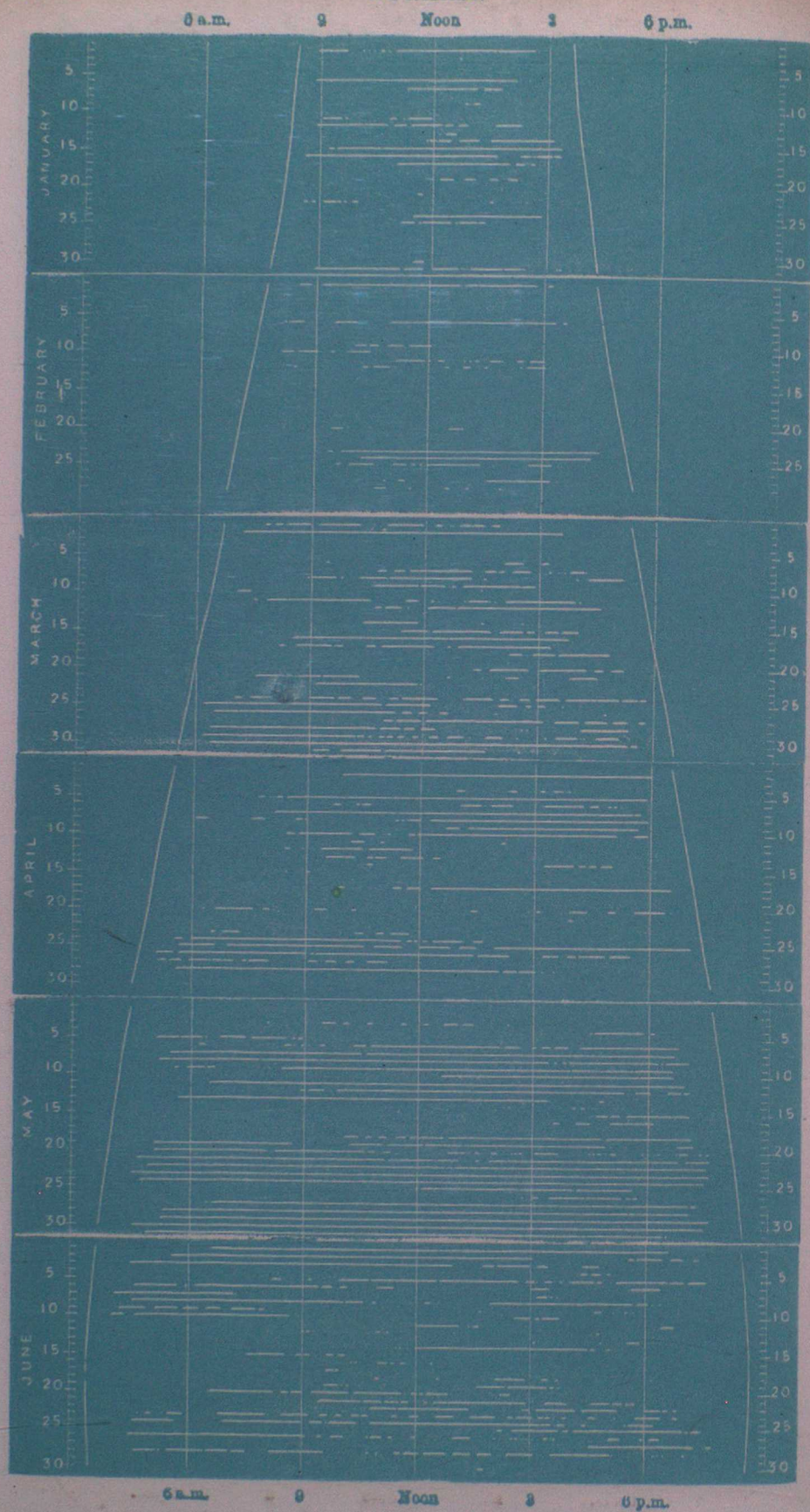
DUBLIN (PHOENIX PARK).



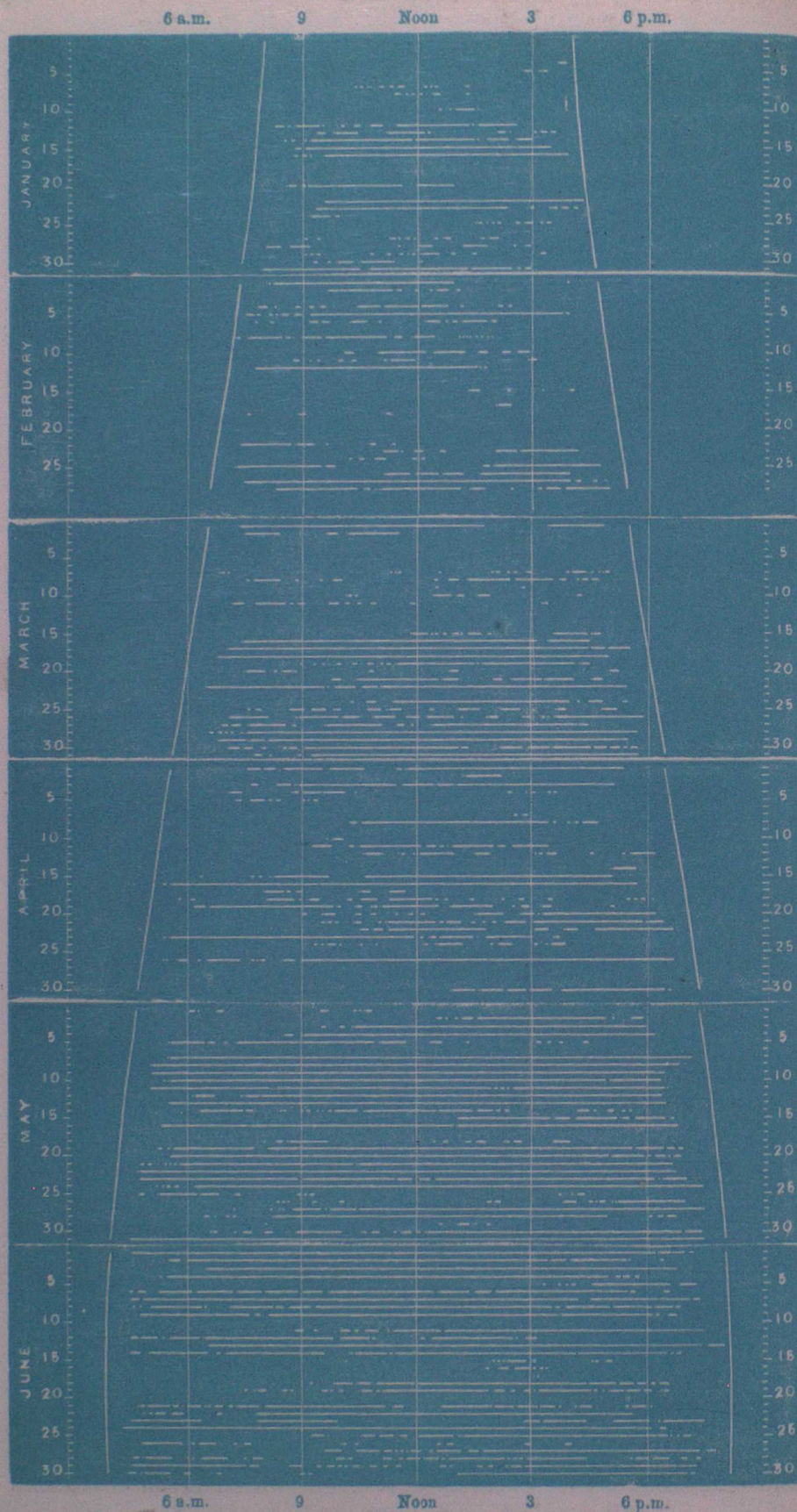
NOTES.—January 16th. No sunshine recorded owing to the lens being encrusted with frozen snow, but the sun was unclouded nearly all day.

DUBLIN (PHOENIX PARK).

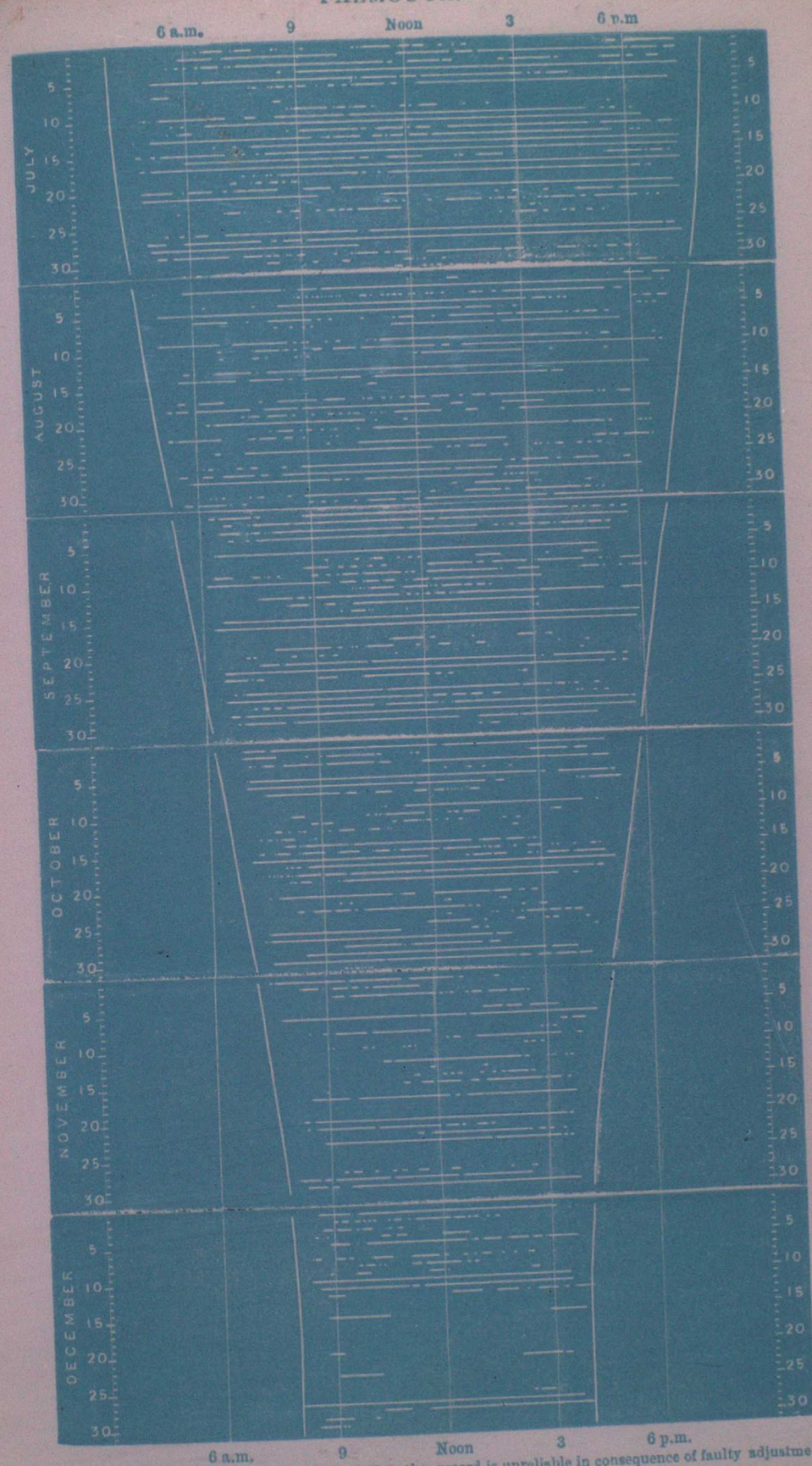




FALMOUTH.

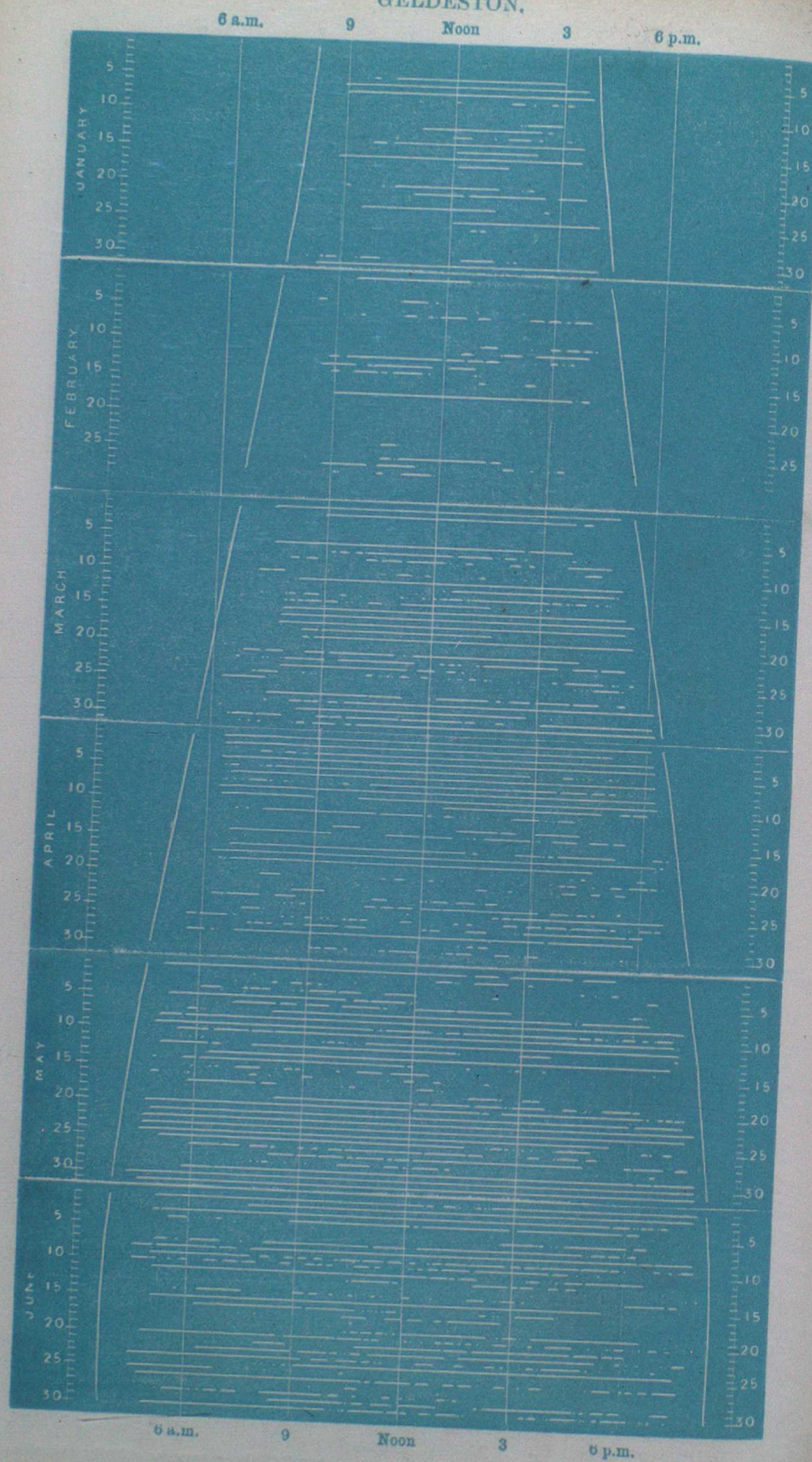


FALMOUTH.

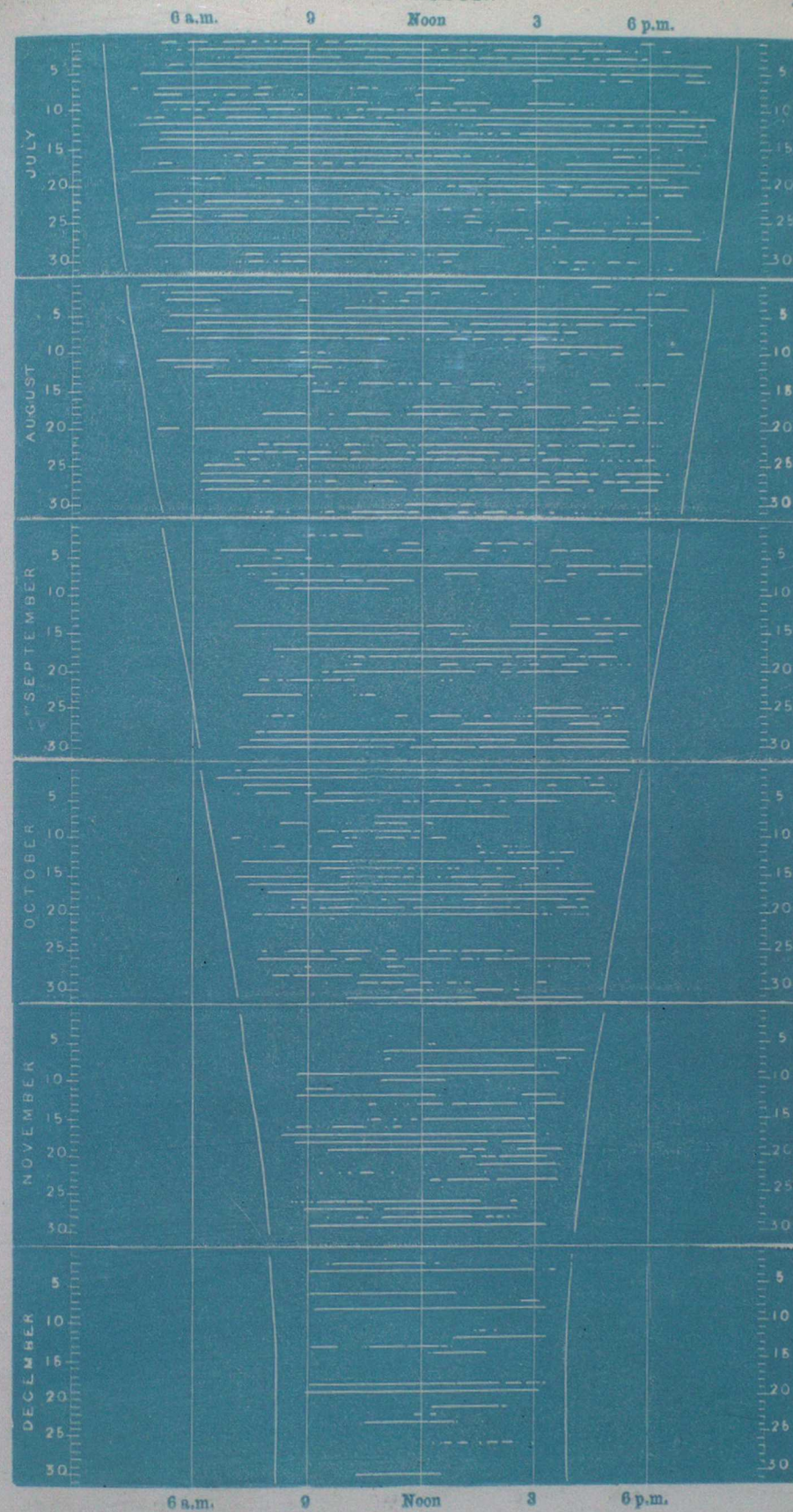


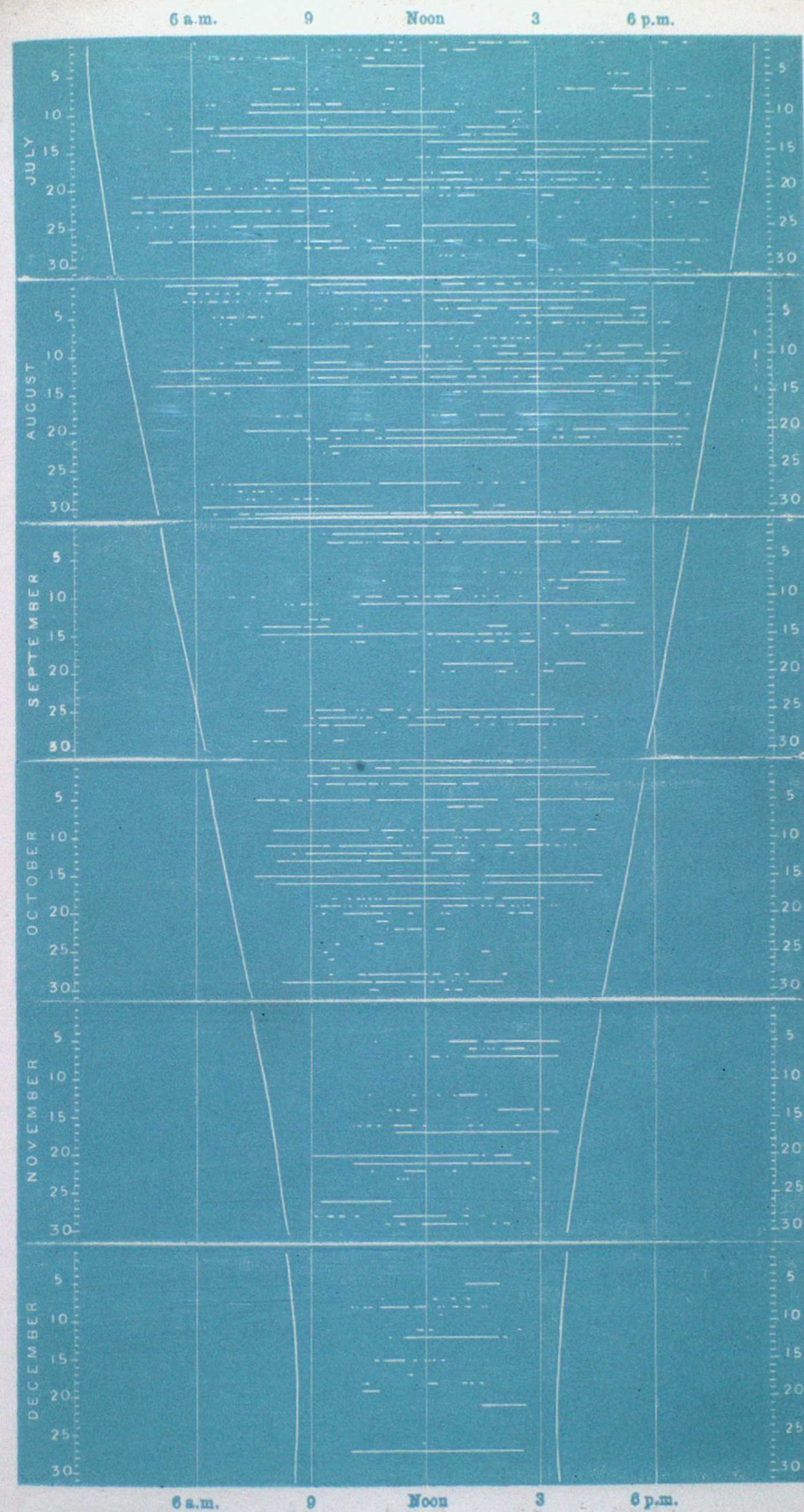
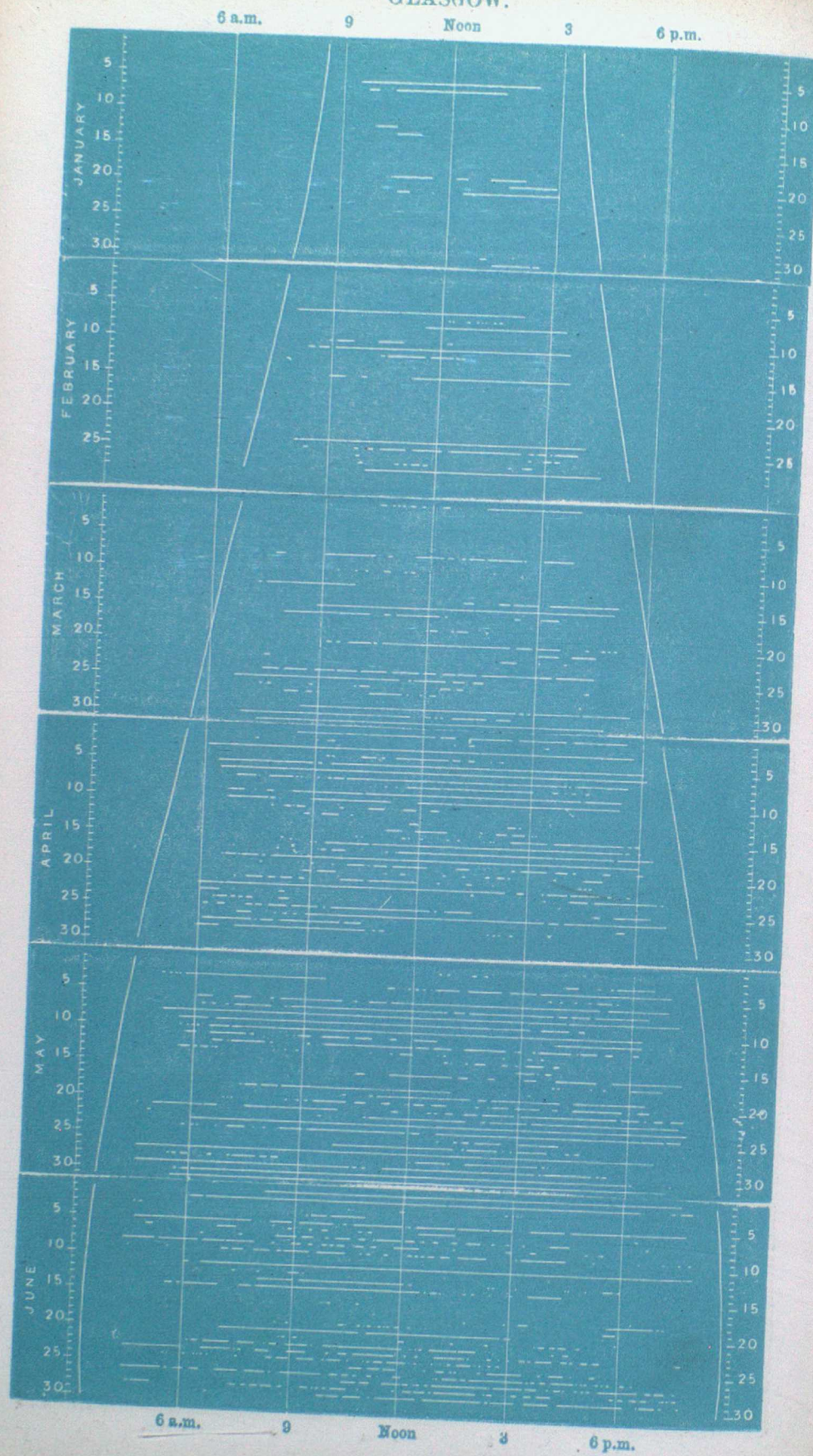
NOTE.—From (about) December 11th to 31st the record is unreliable in consequence of faulty adjustment of the instrument.

GELDESTON.



GELDESTON.





HILLINGTON.

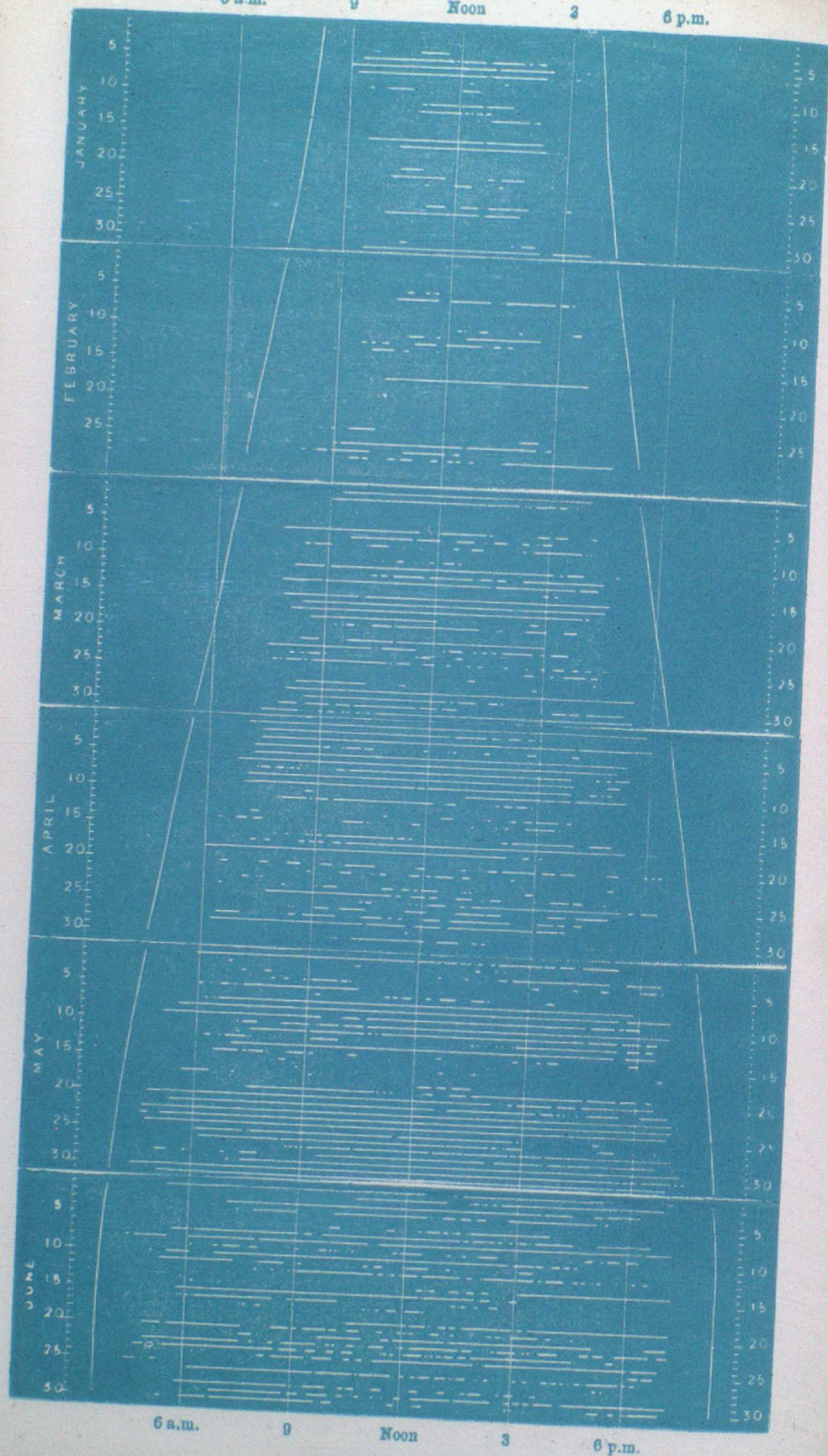
6 a.m.

9

Noon

3

6 p.m.



HILLINGTON.

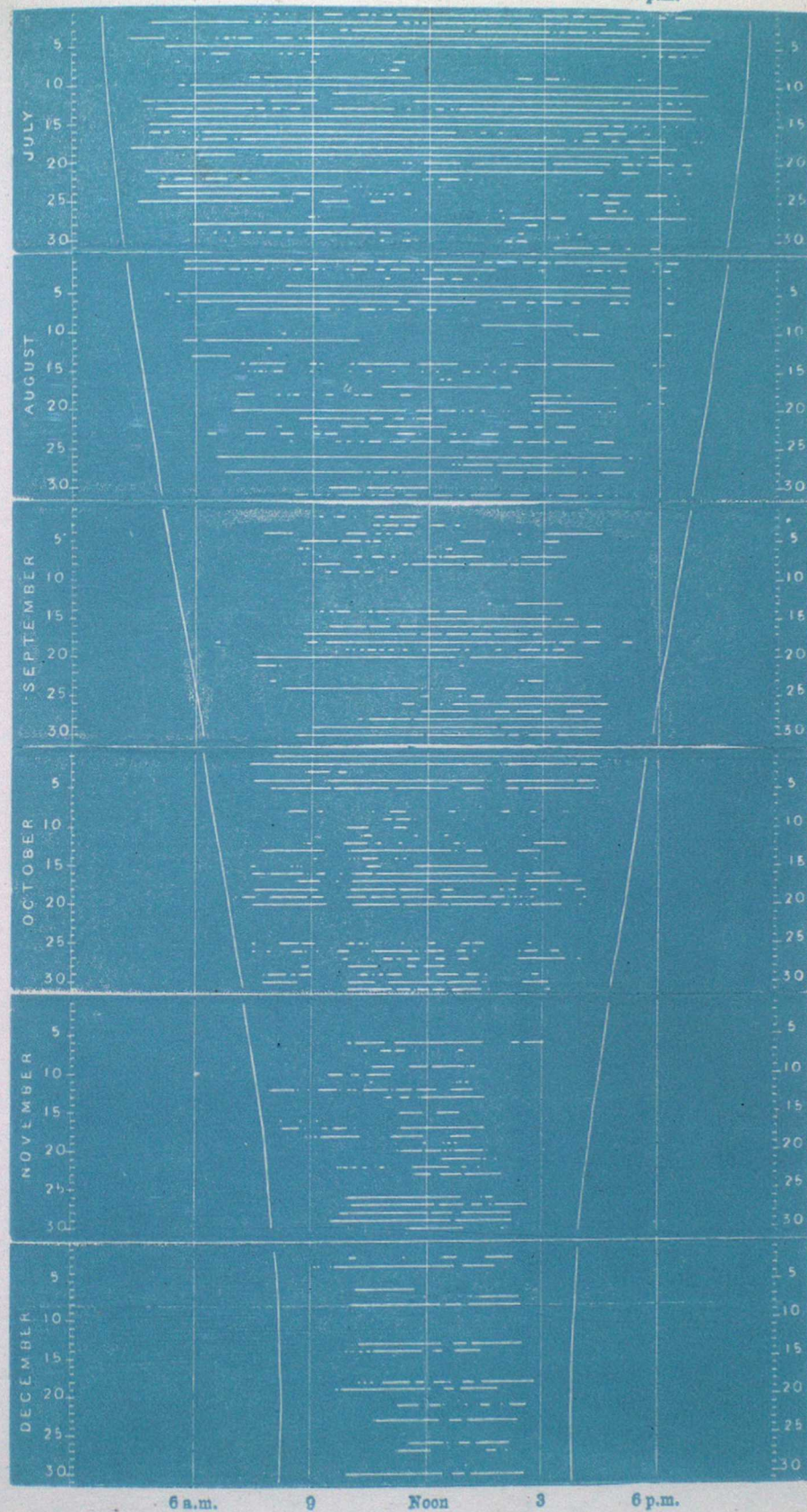
6 a.m.

9

Noon

3

6 p.m.



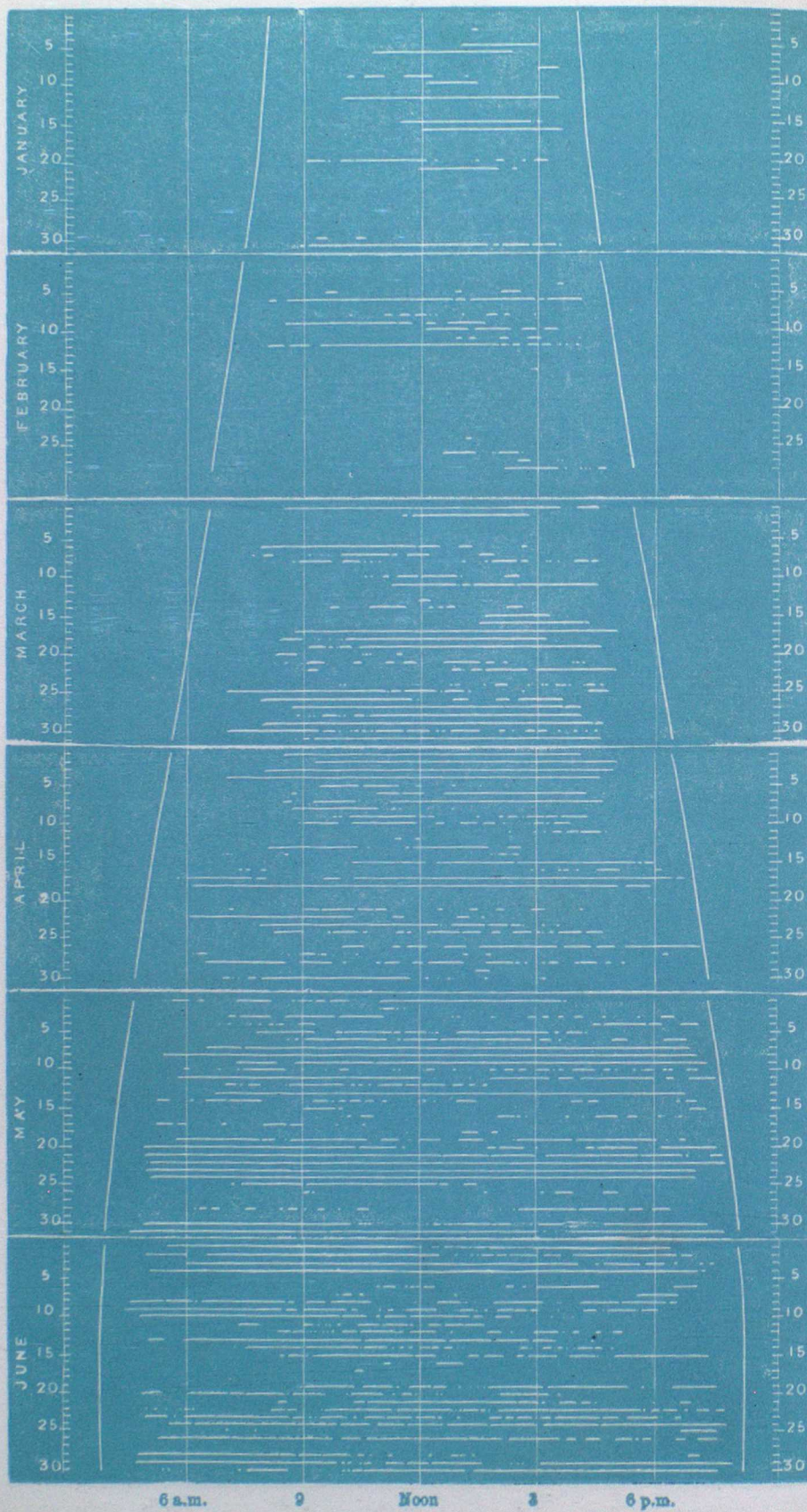
6 a.m.

9

Noon

3

6 p.m.



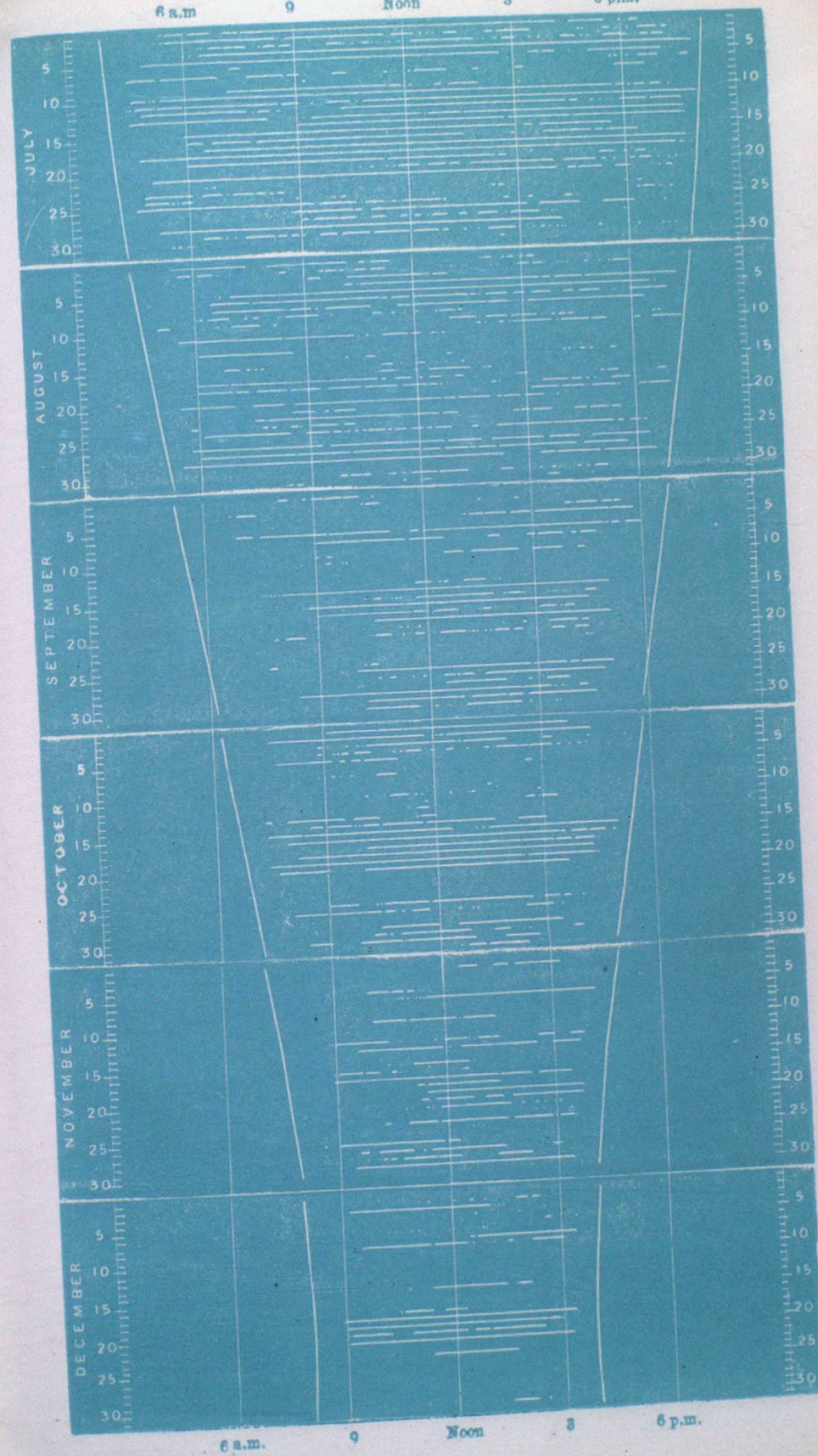
6 a.m.

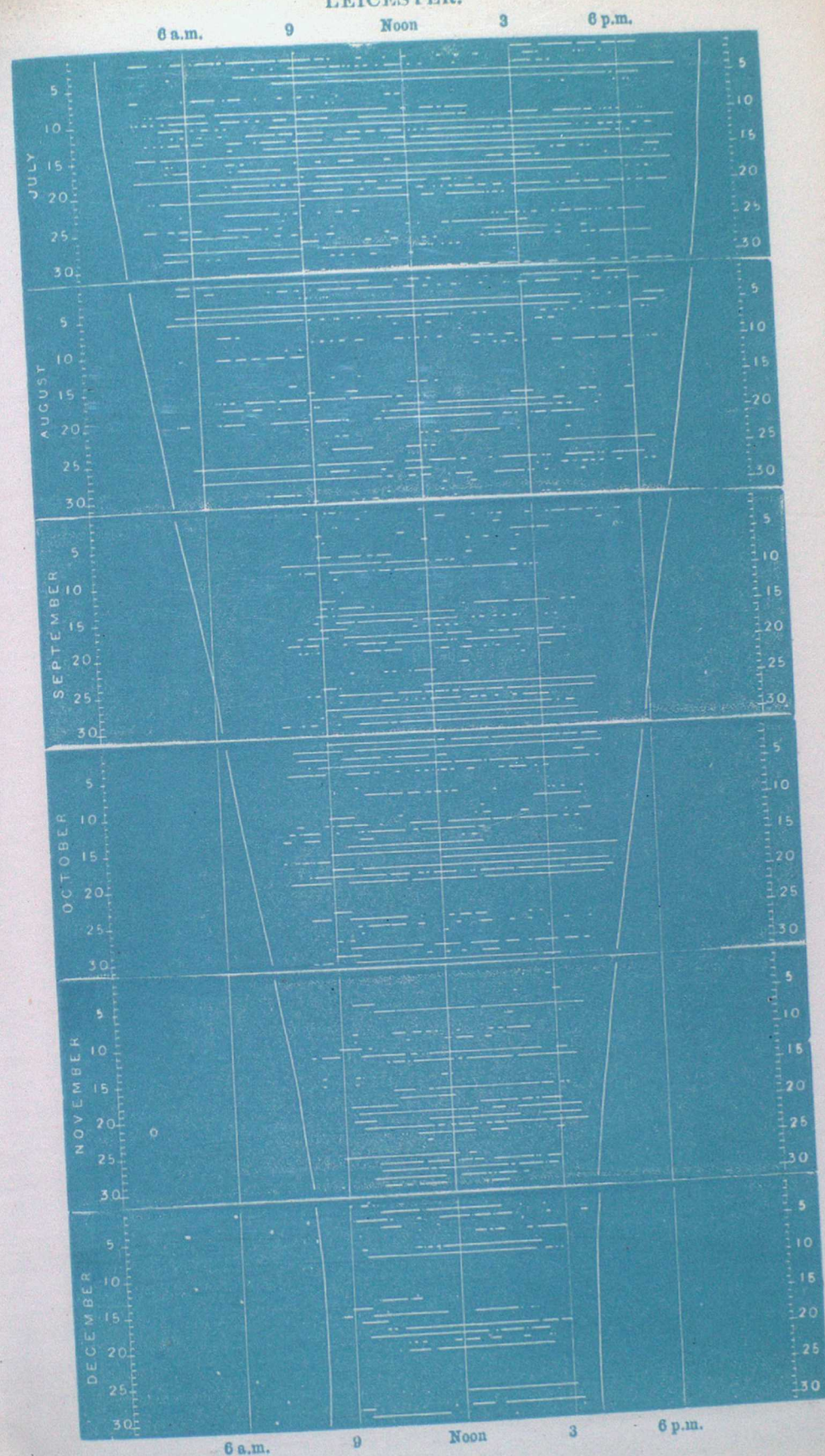
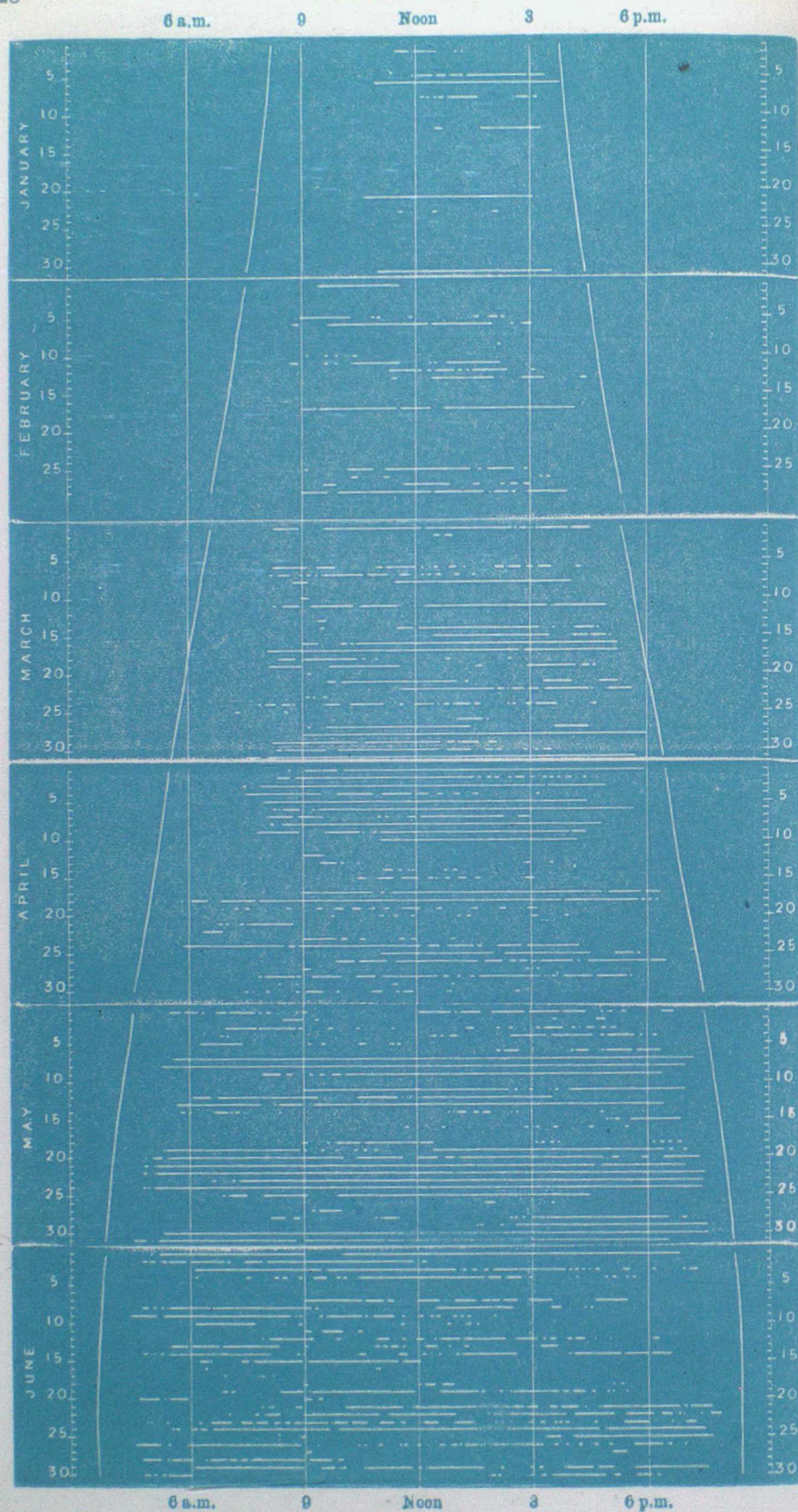
9

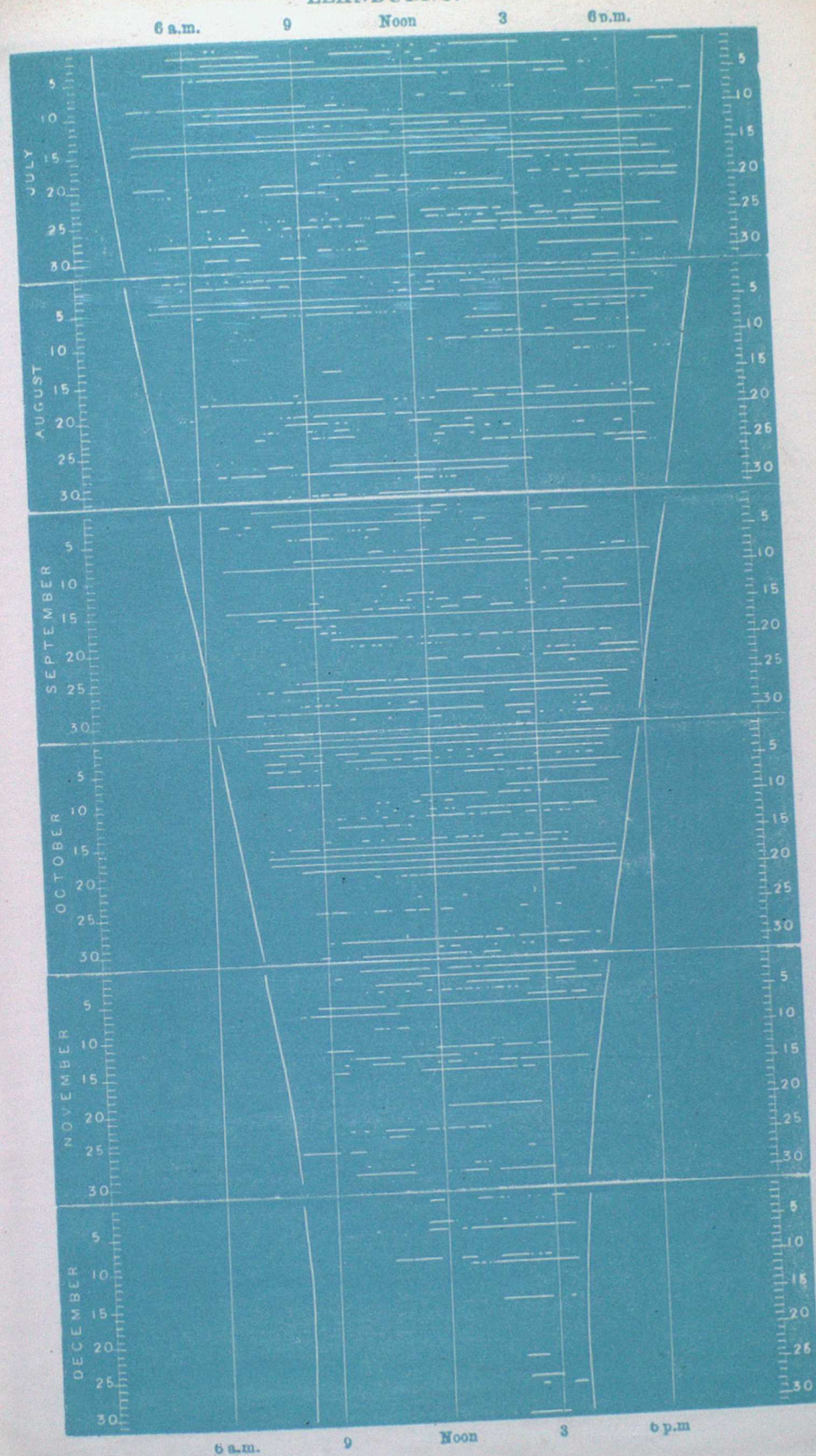
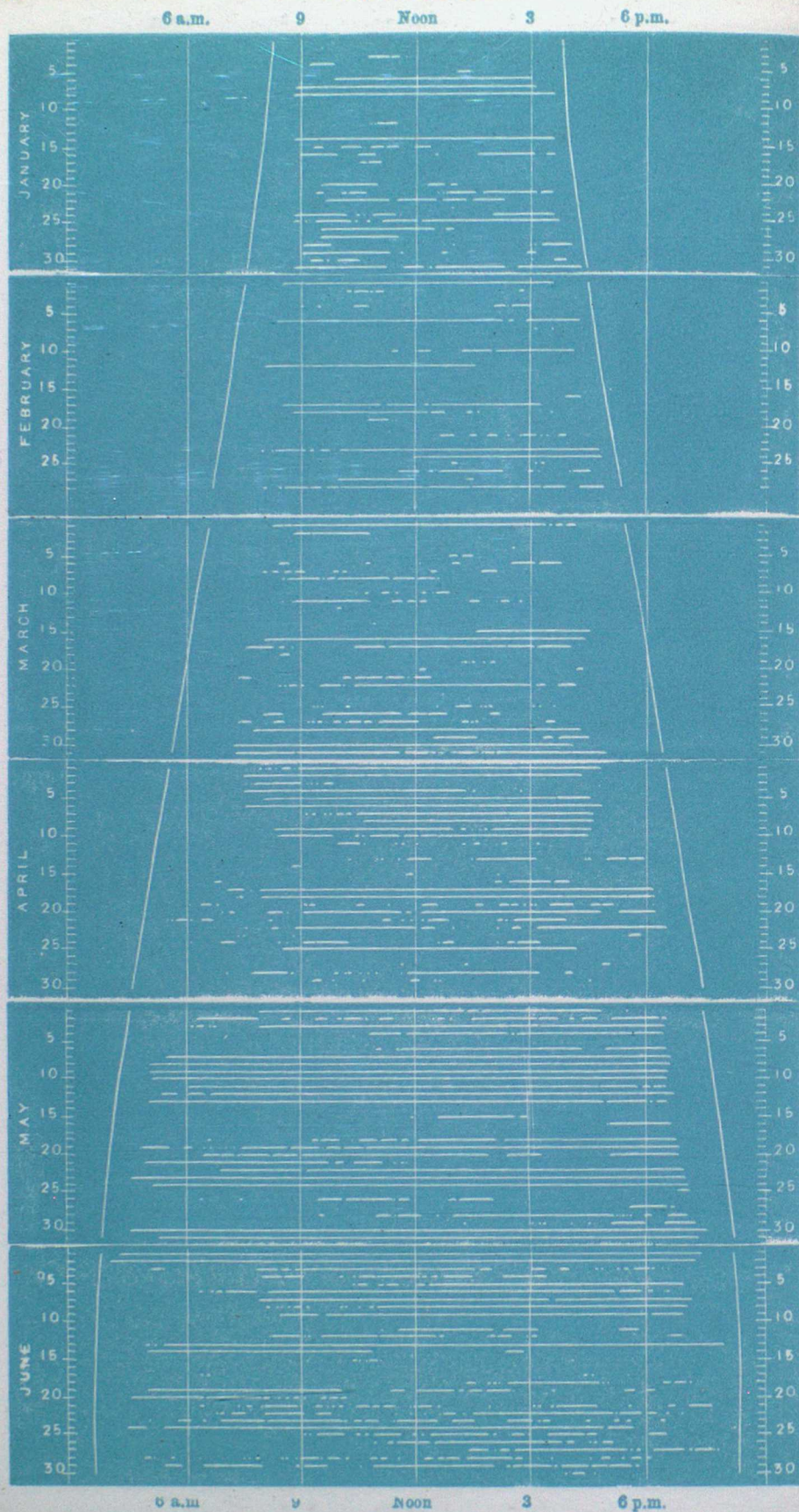
Noon

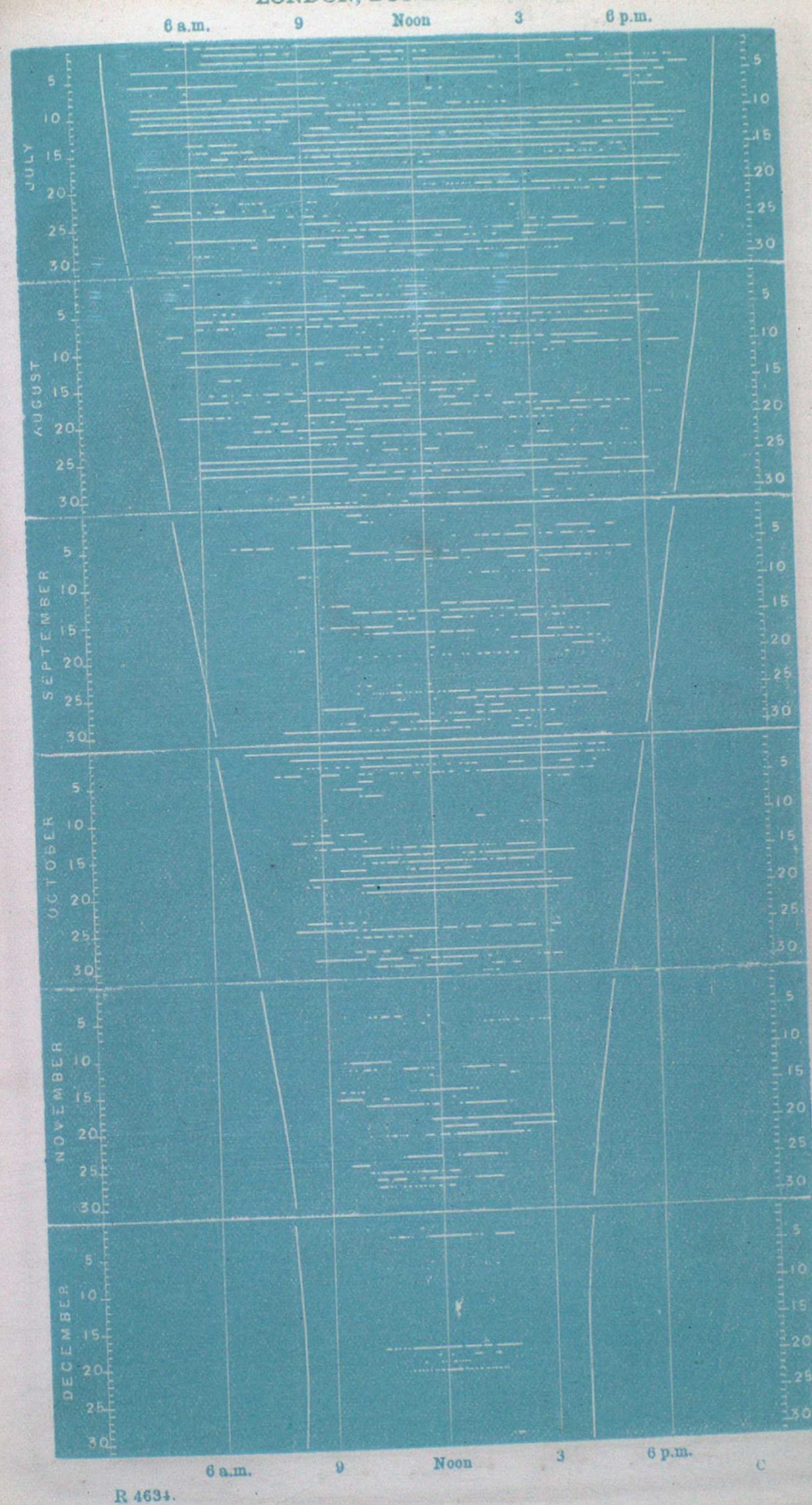
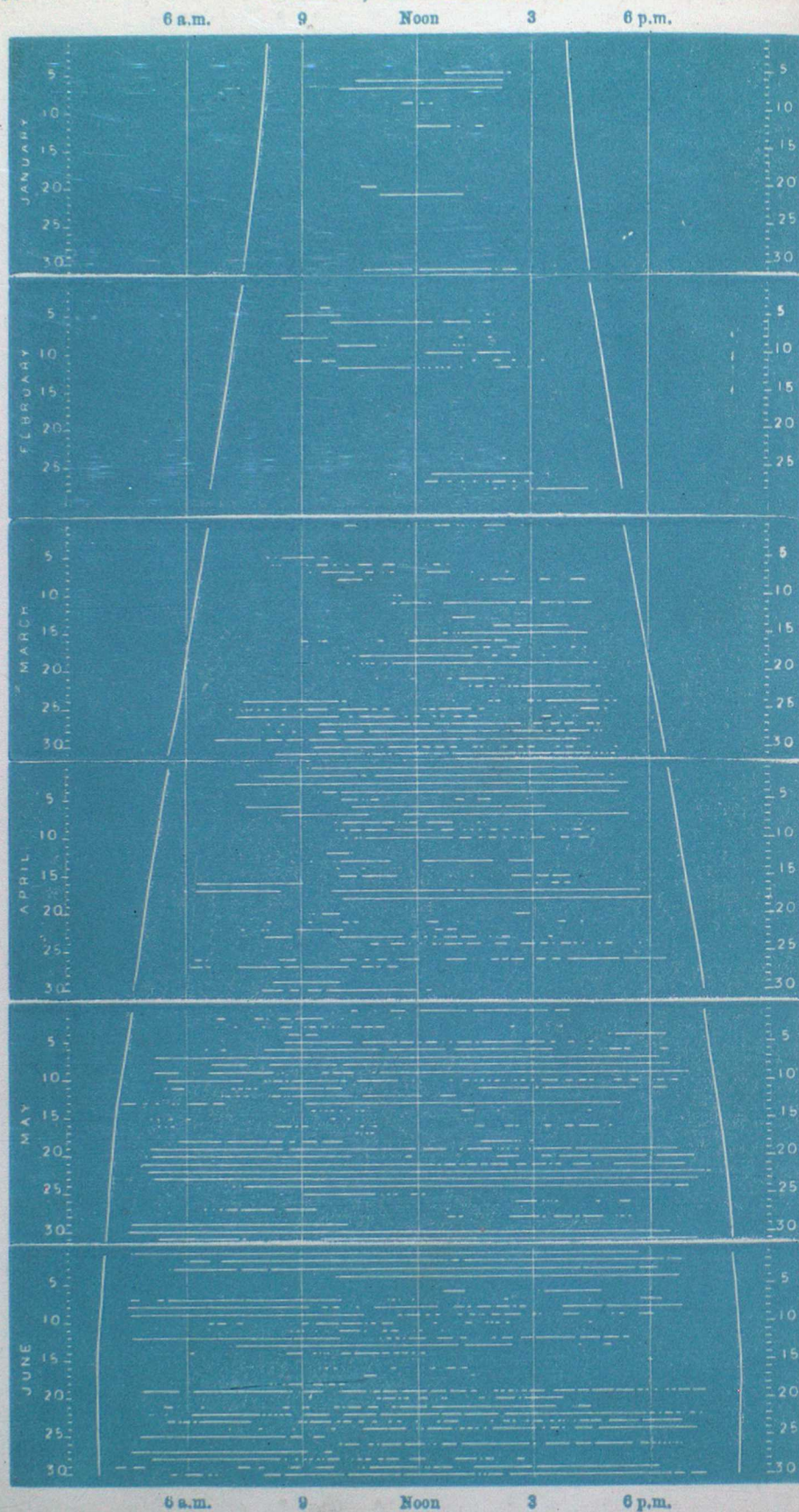
3

6 p.m.

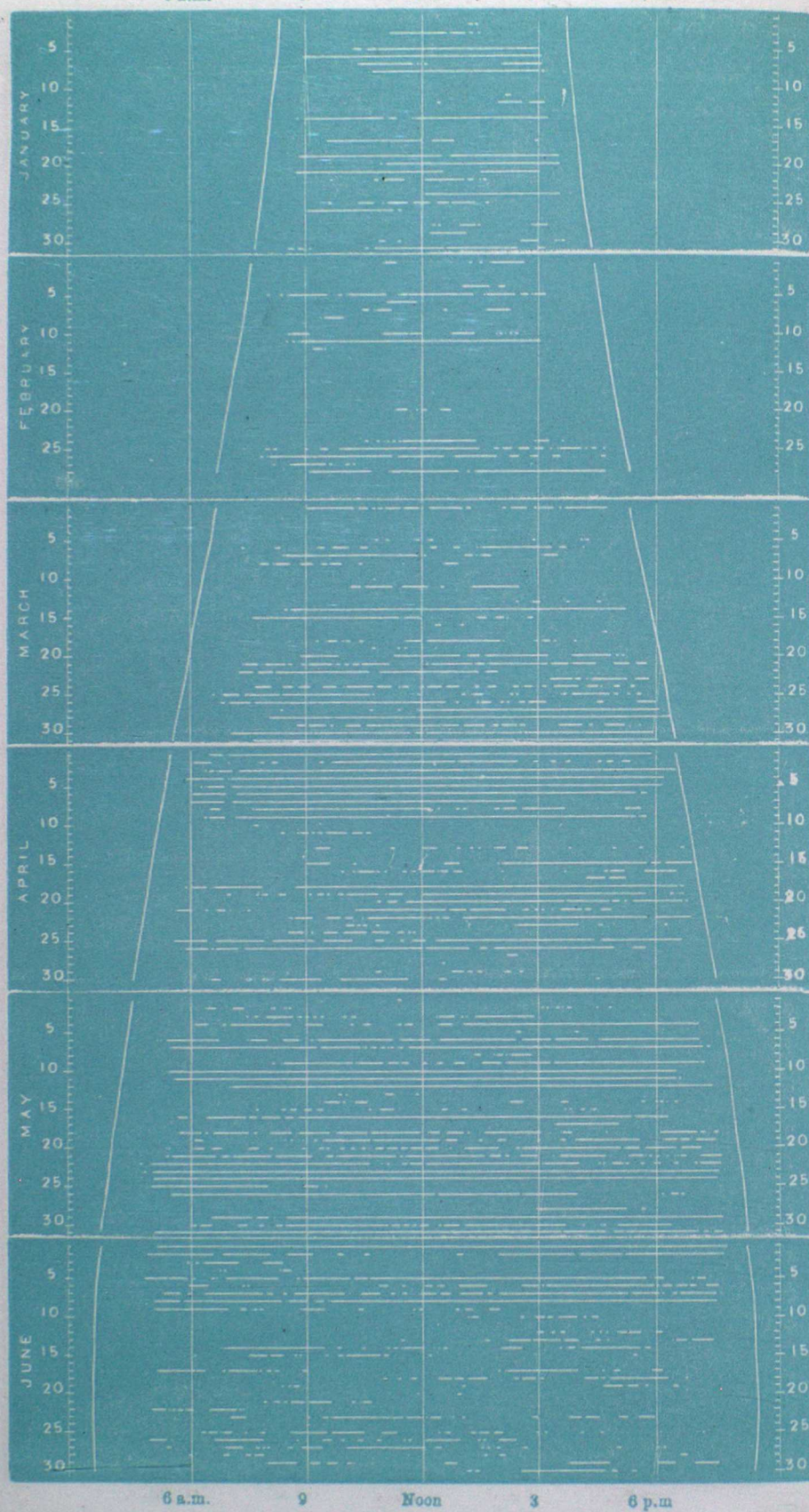




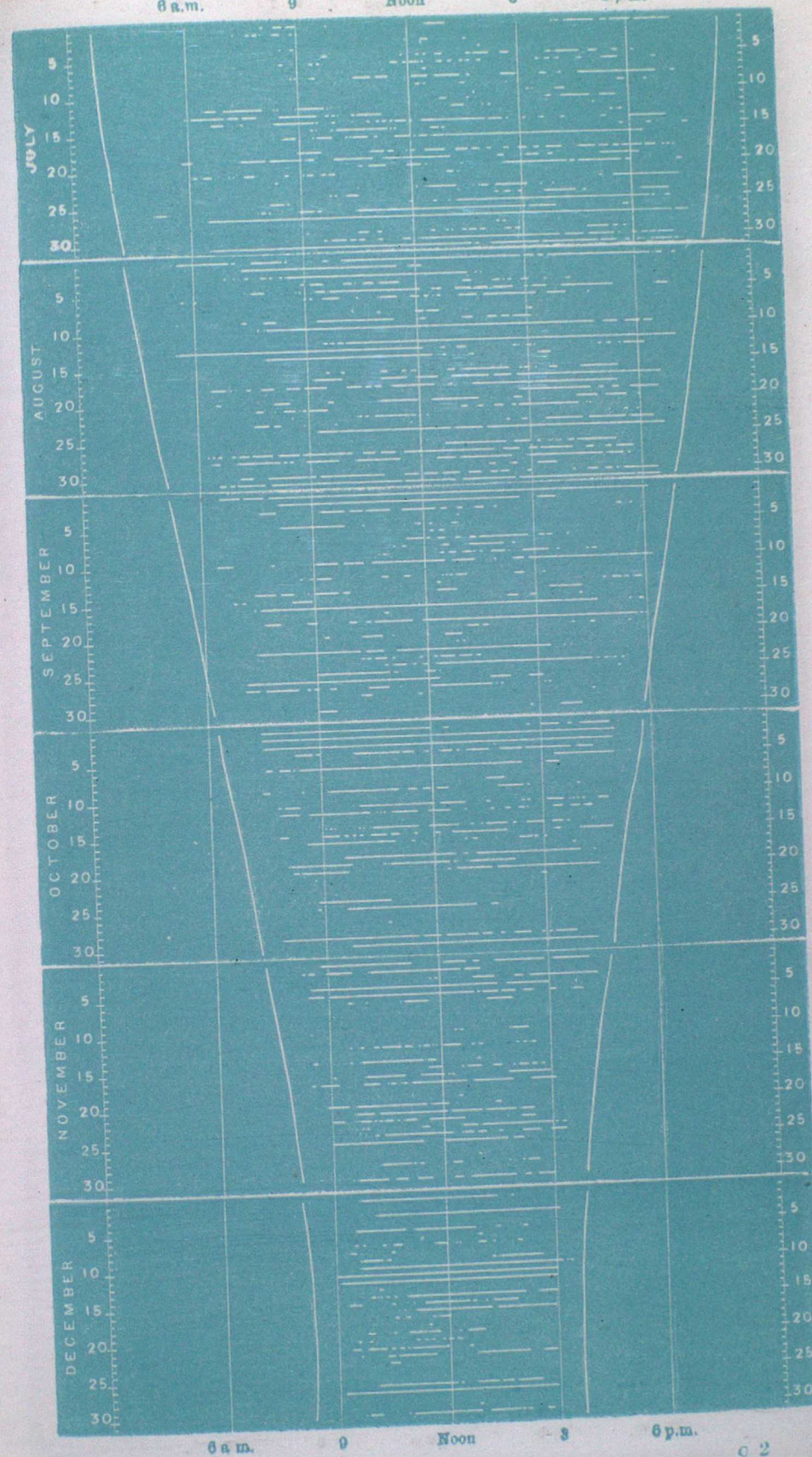


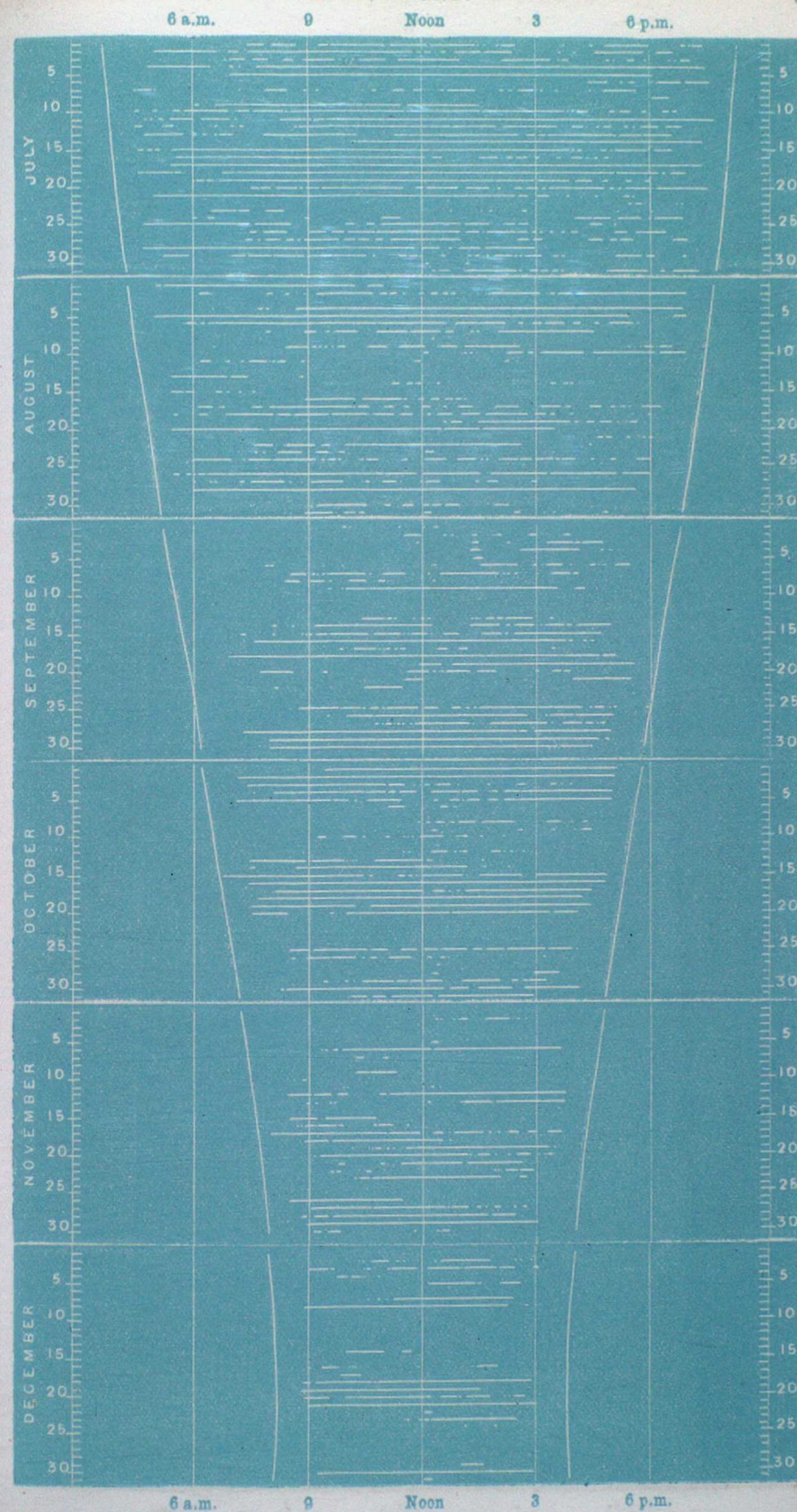
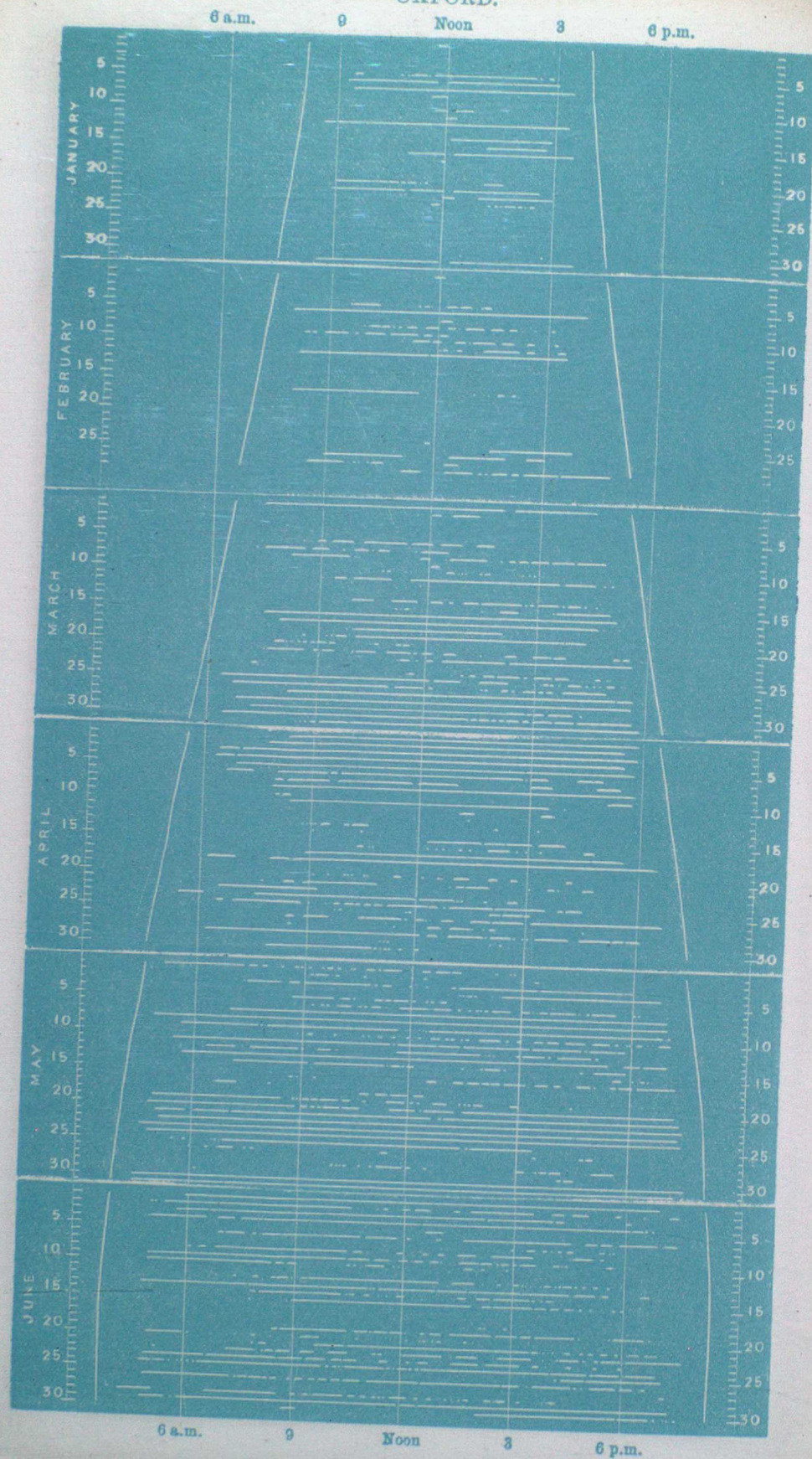


6 a.m. 9 Noon 3 6 p.m.

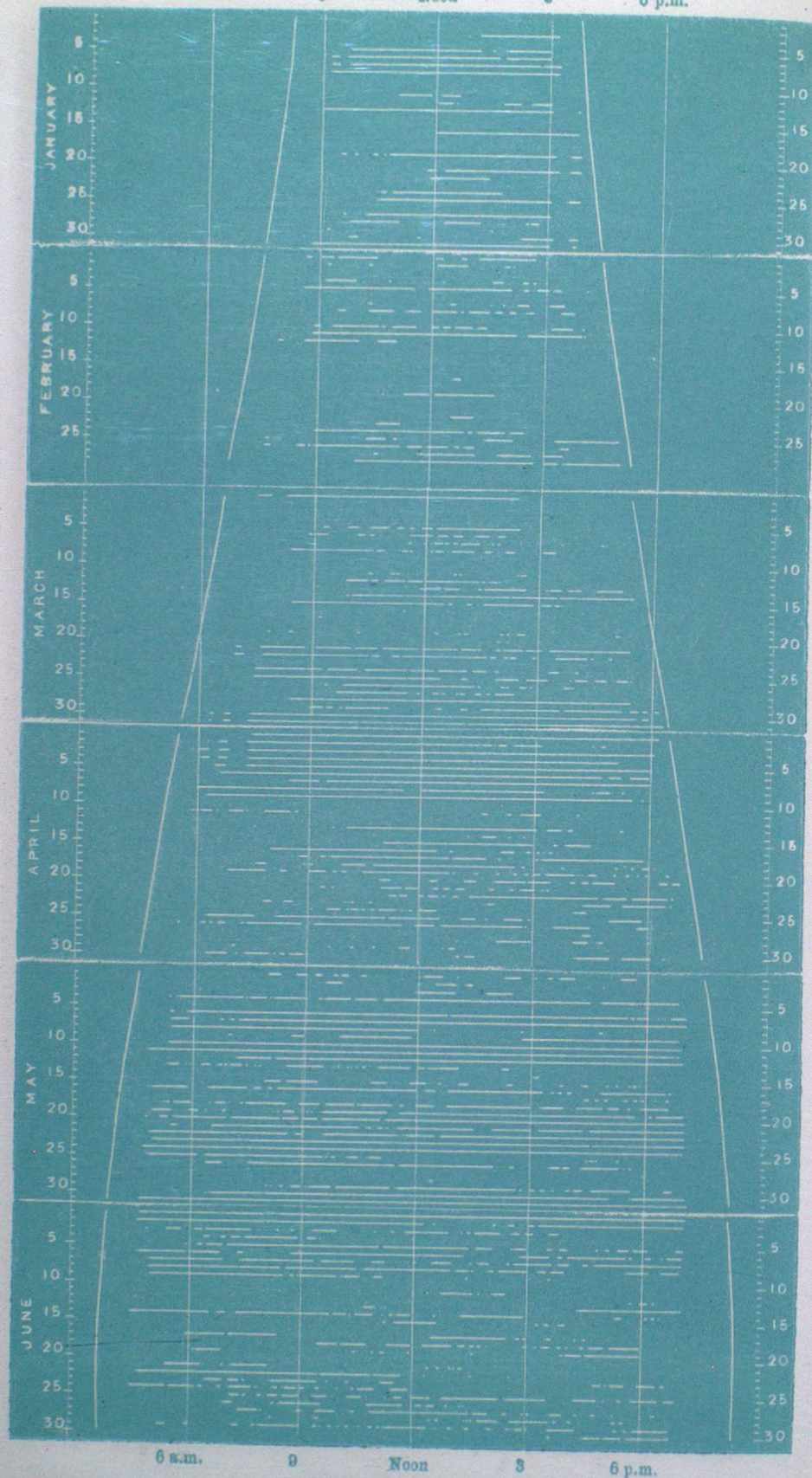


6 a.m. 9 Noon 3 6 p.m.

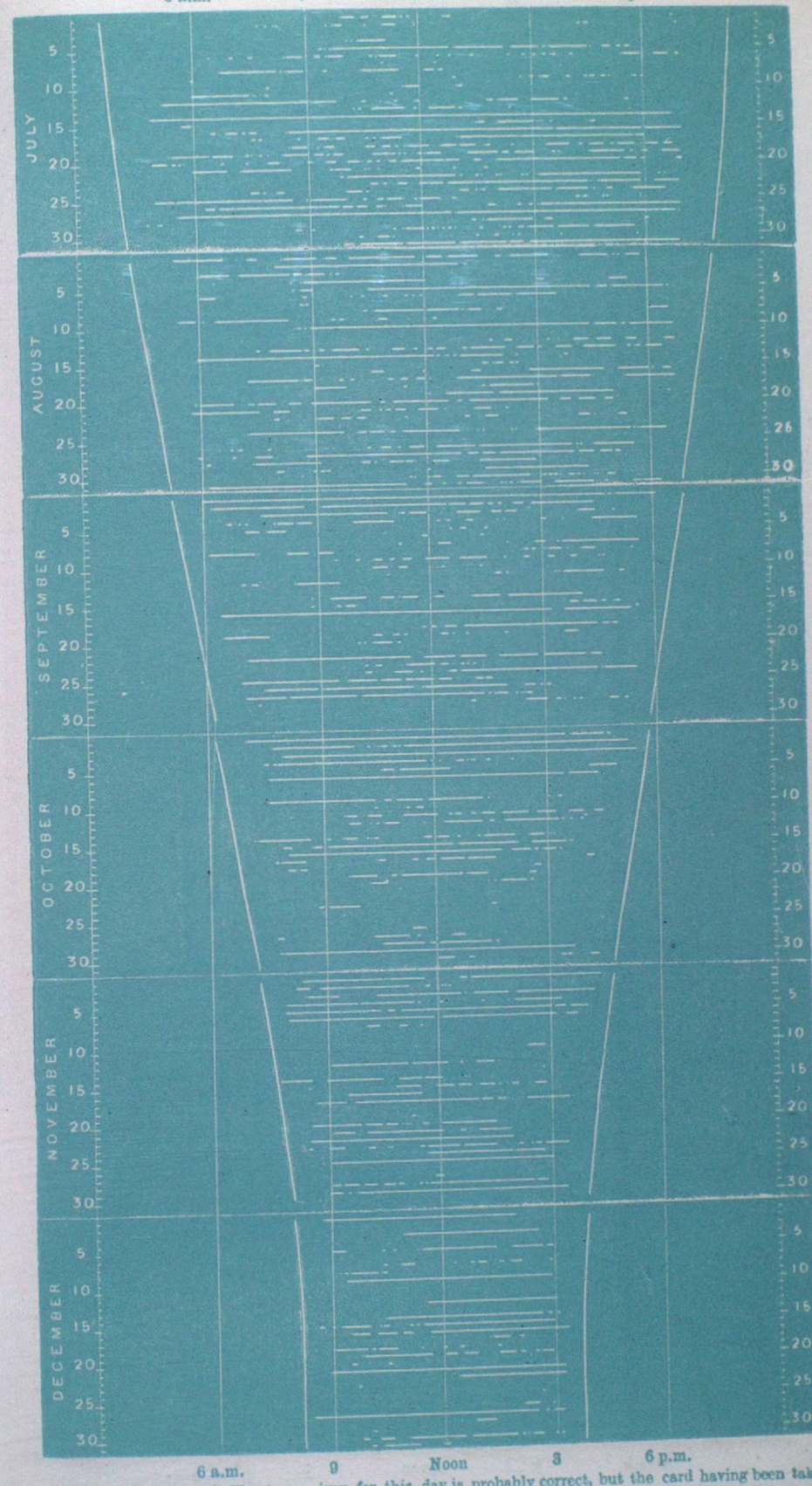




6 a.m. 9 Noon 3 6 p.m.



6 a.m. 9 Noon 3 6 p.m.



Notes.—December 3rd. The trace given for this day is probably correct, but the card having been taken from the instrument by rooks, the original record is lost.

SANDWICK, ORKNEY.

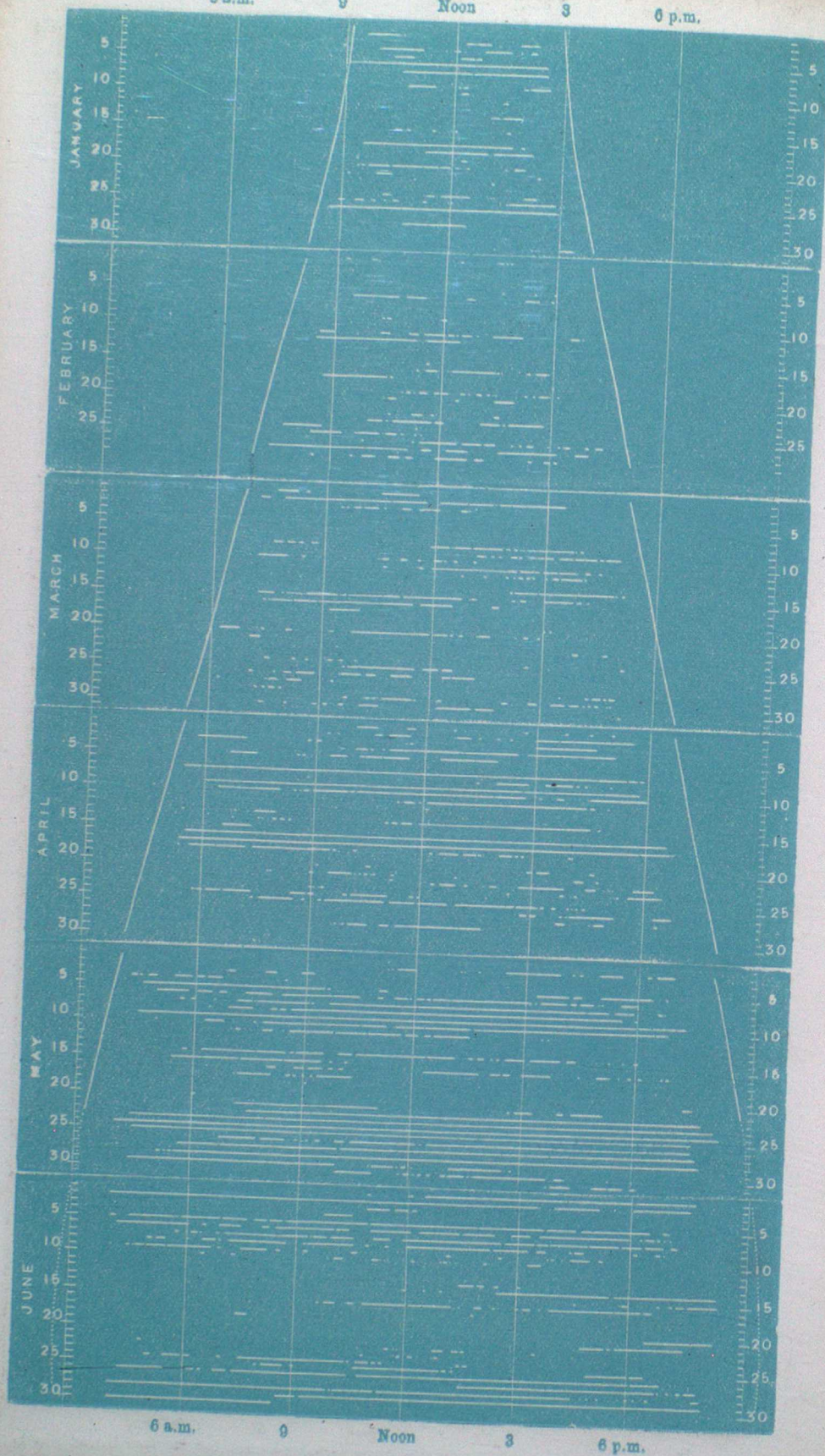
6 a.m.

9

Noon

3

6 p.m.



SANDWICK, ORKNEY.

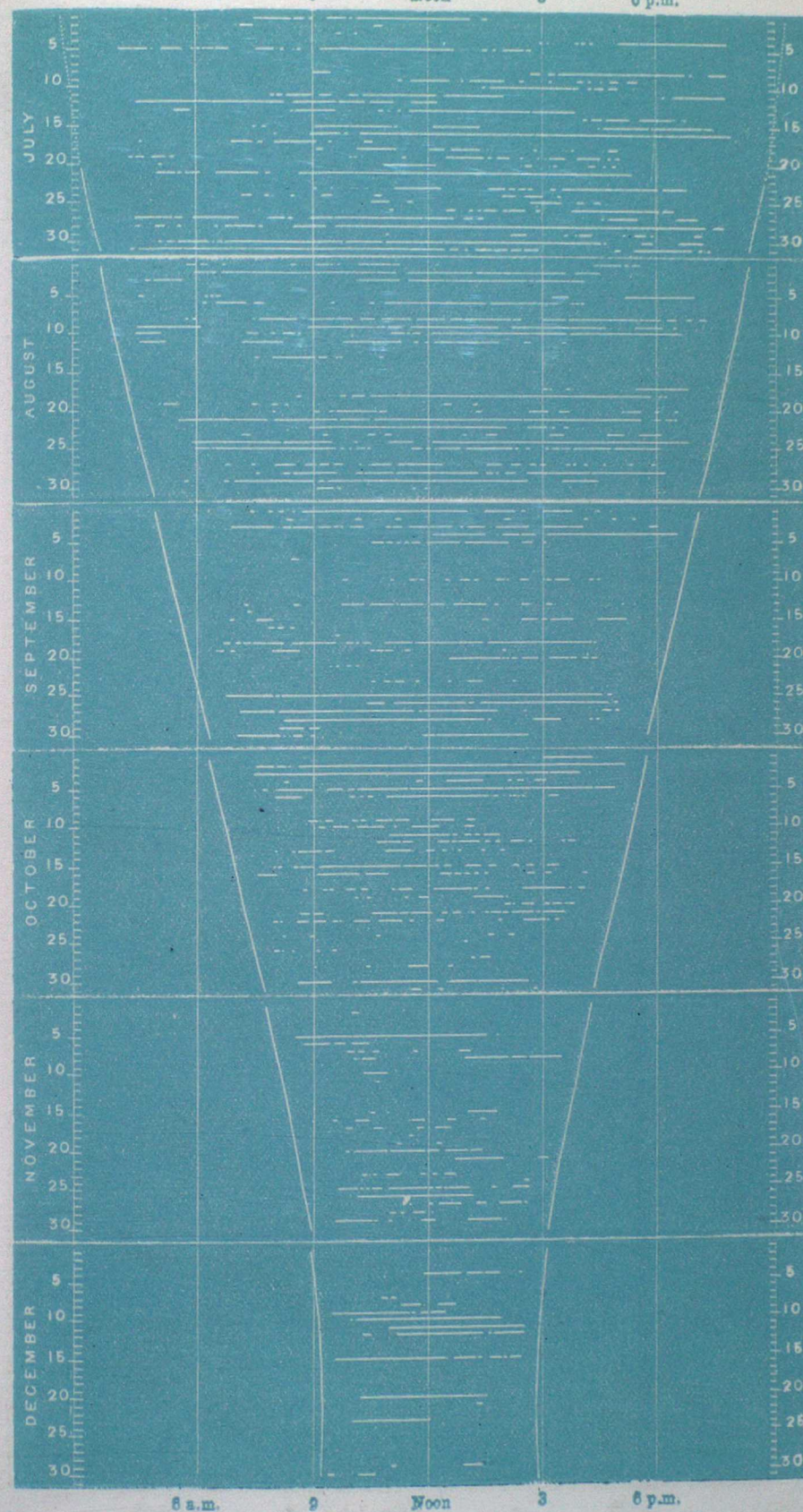
6 a.m.

9

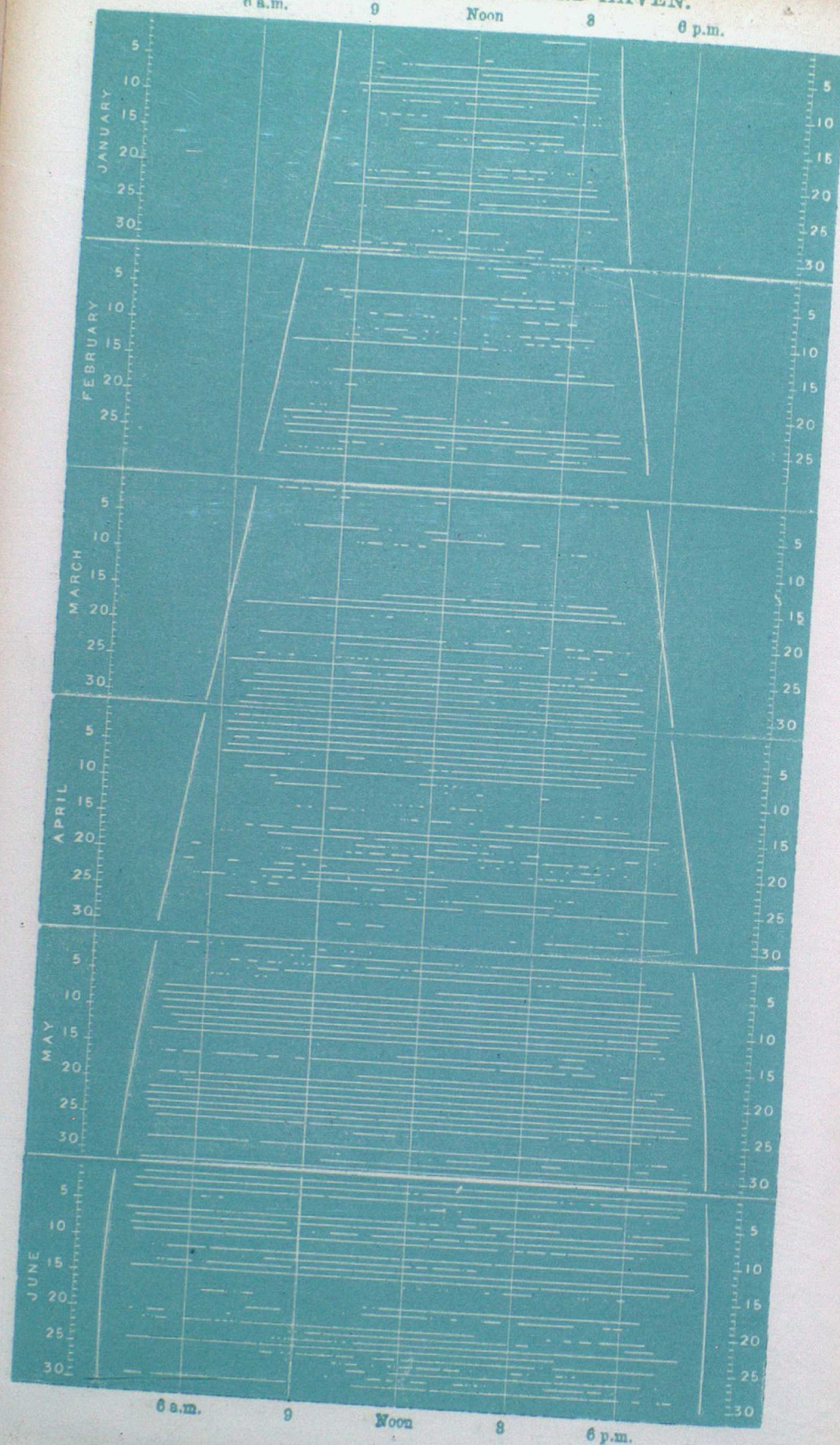
Noon

3

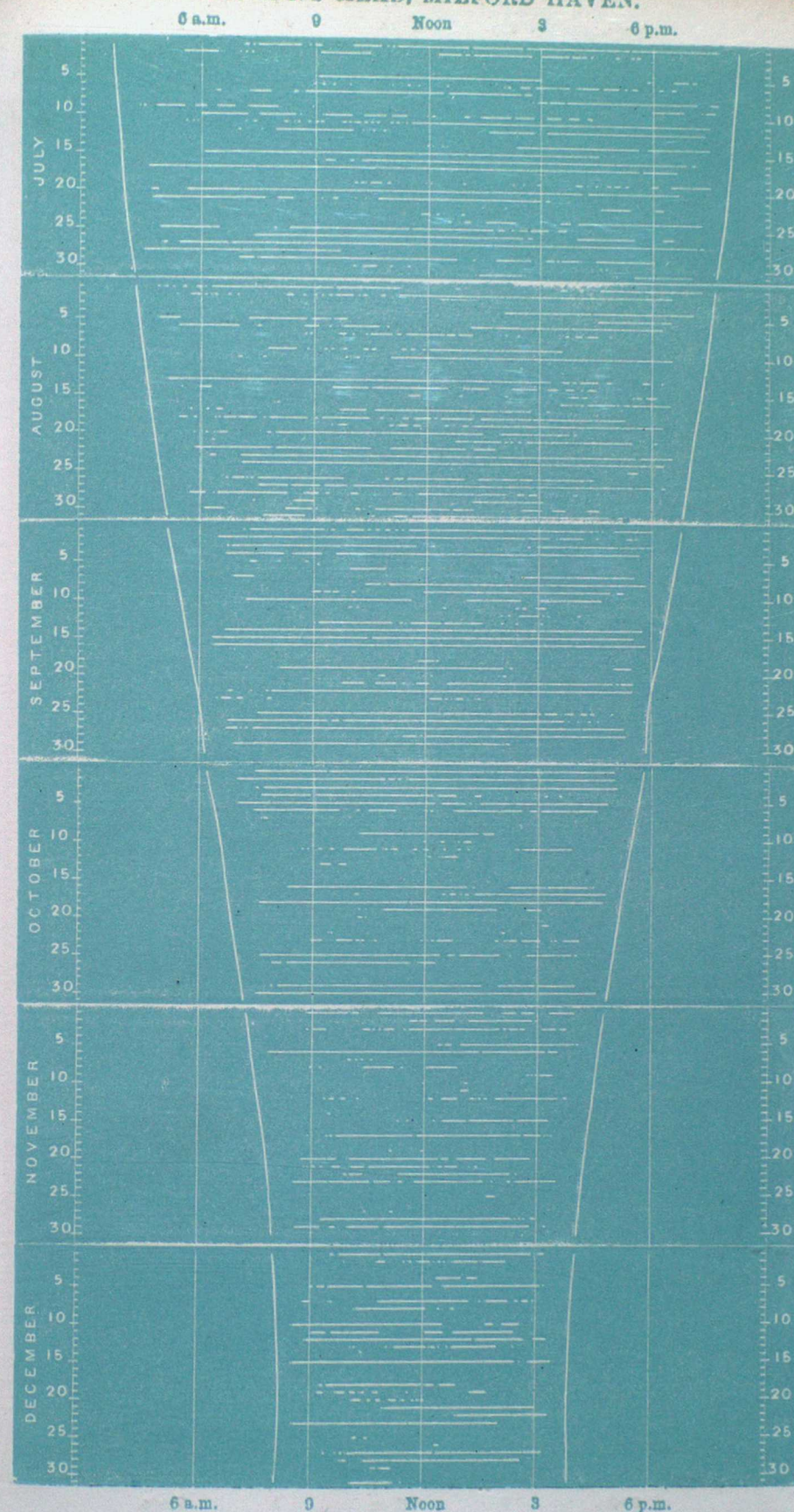
6 p.m.



ST. ANN'S HEAD, MILFORD HAVEN.

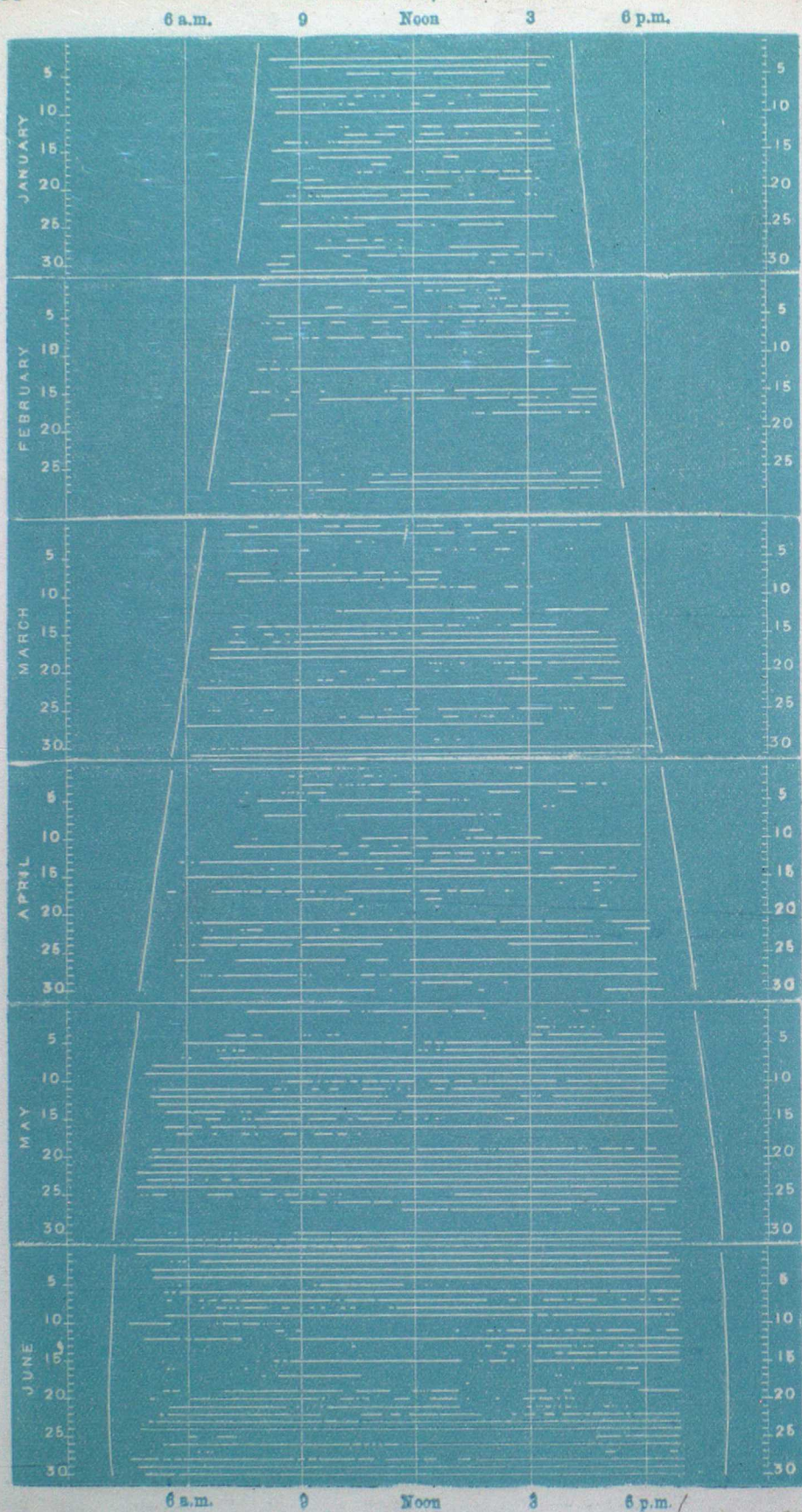


ST. ANN'S HEAD, MILFORD HAVEN.



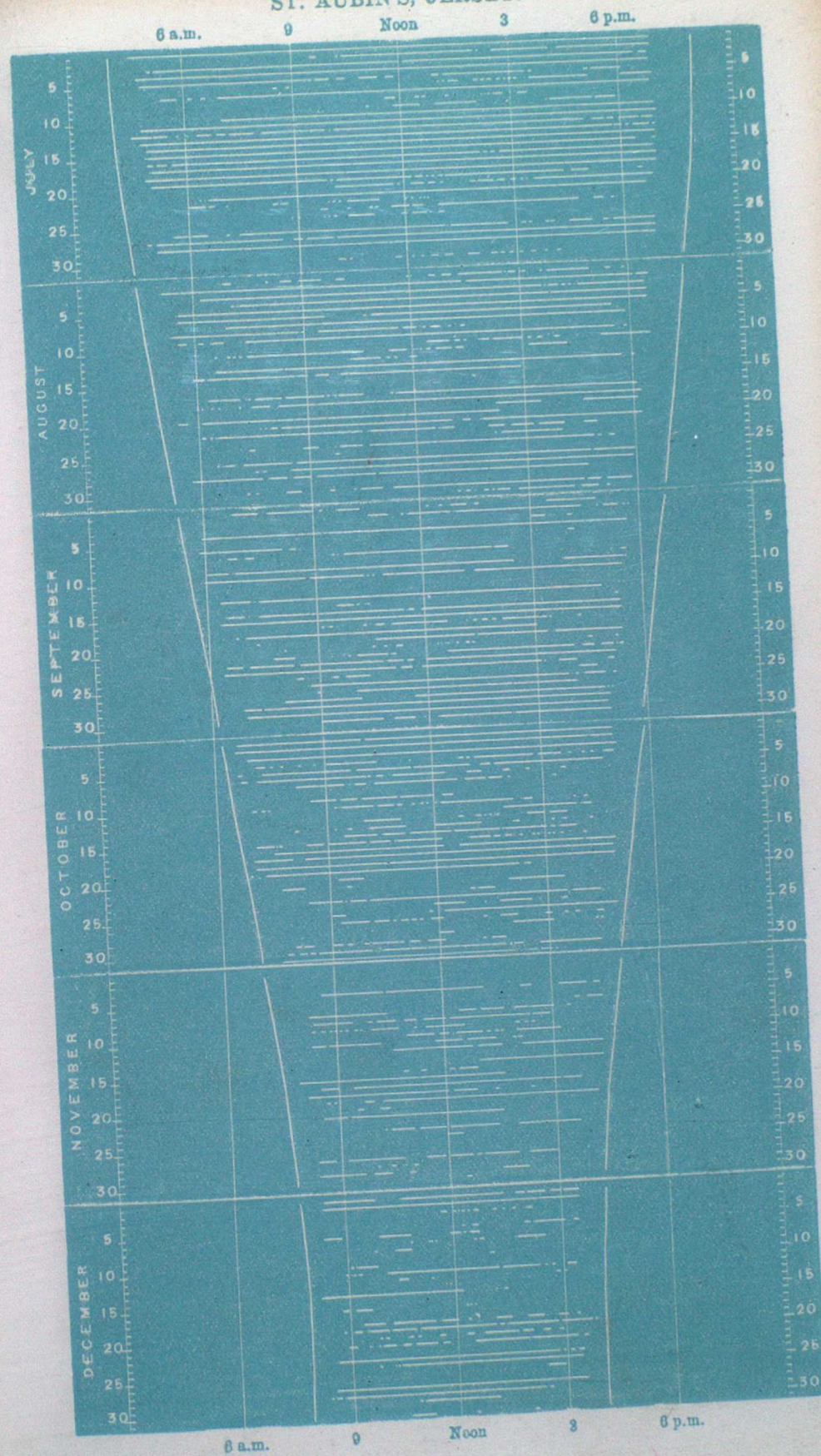
NOTES.—October 15th. Globe displaced by wind. Estimated sunshine two hours.

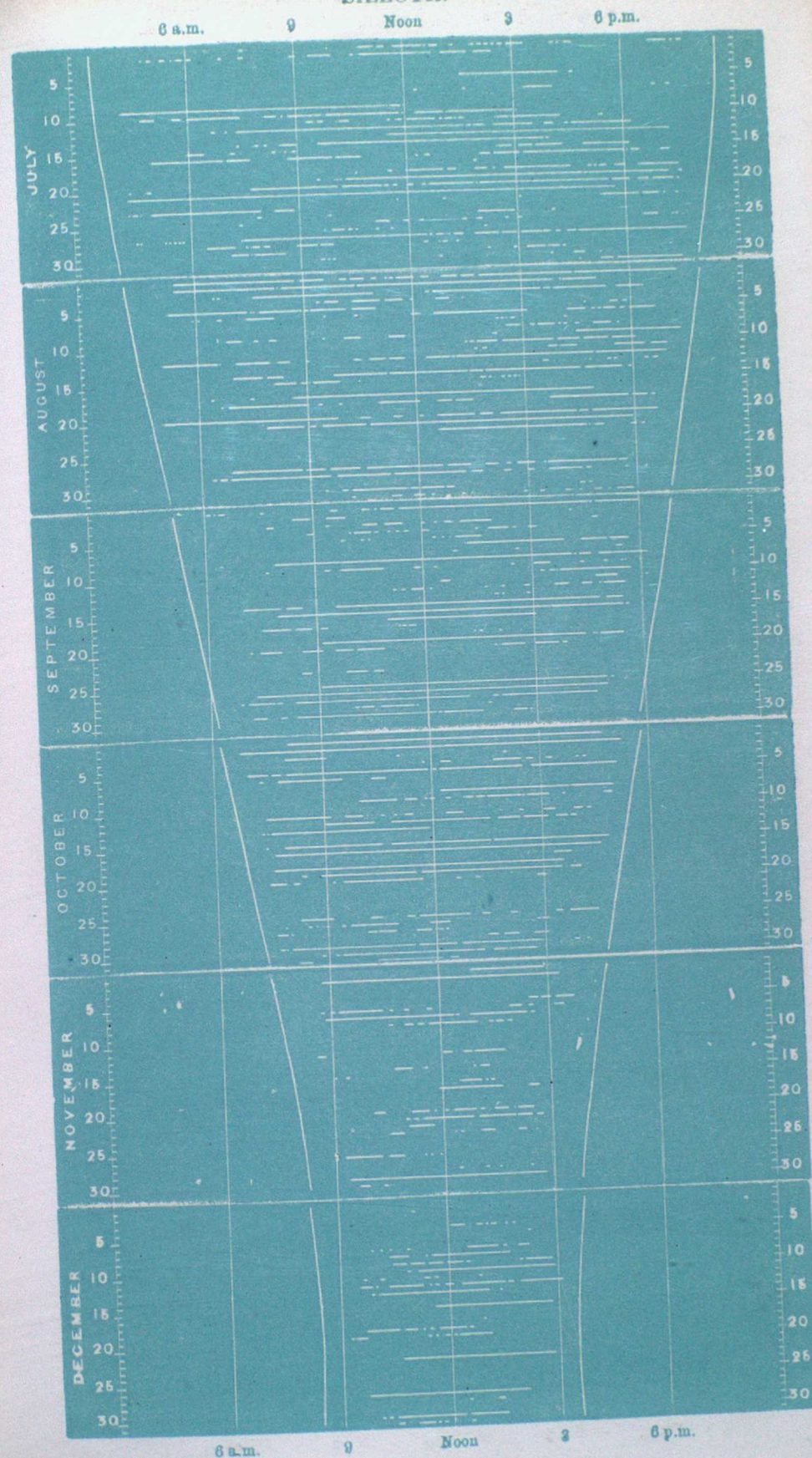
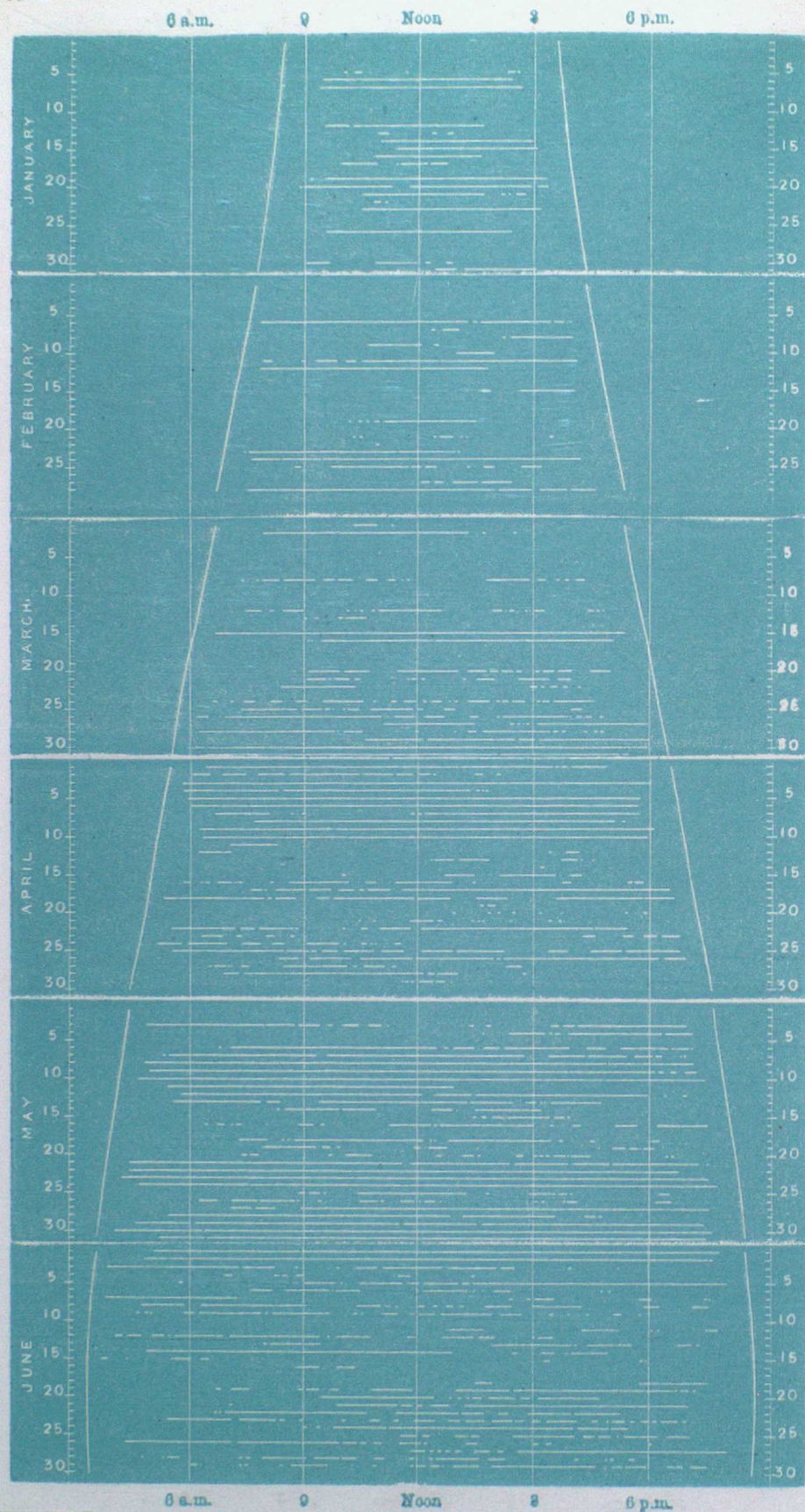
ST. AUBIN'S, JERSEY.

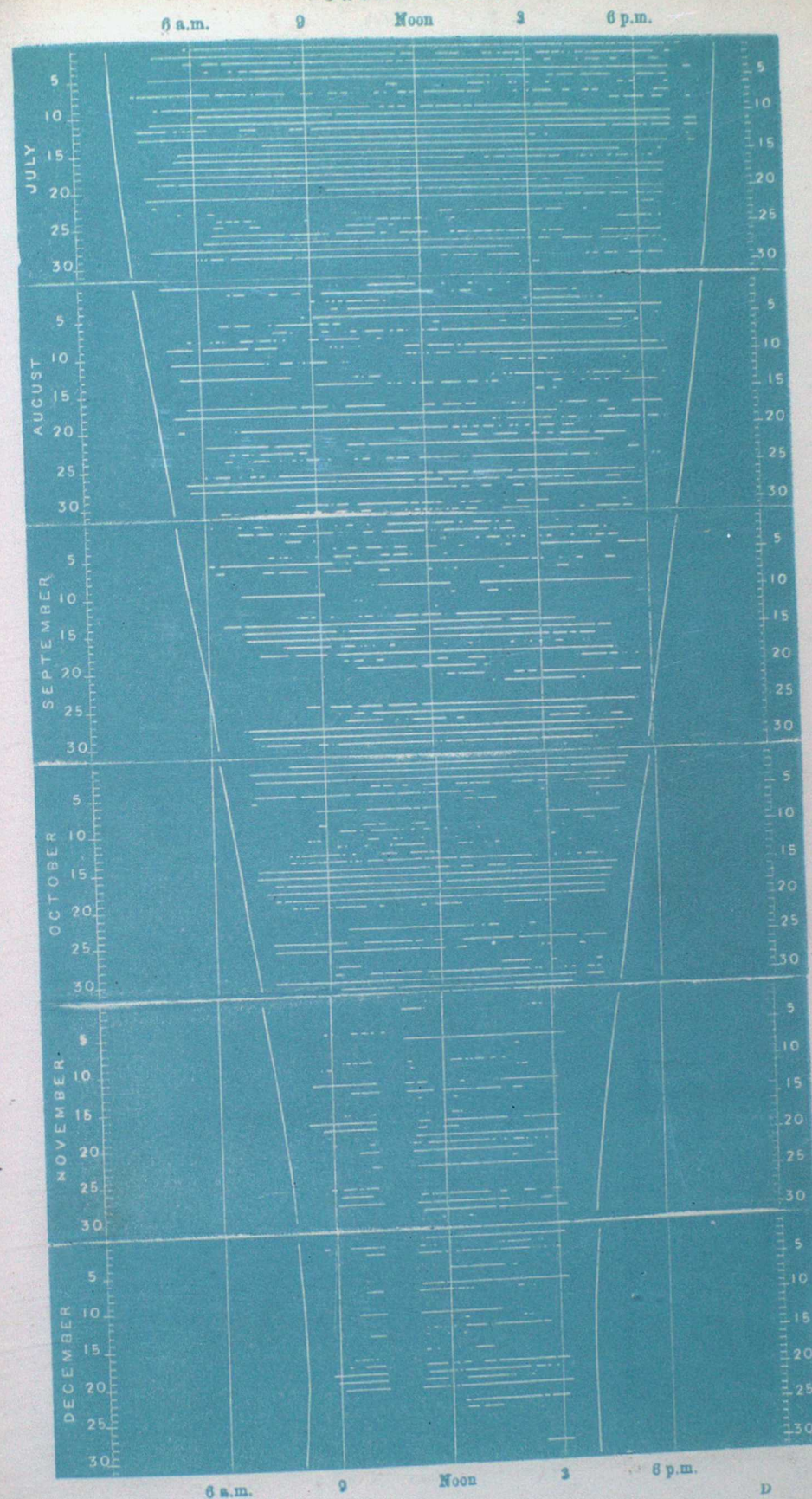
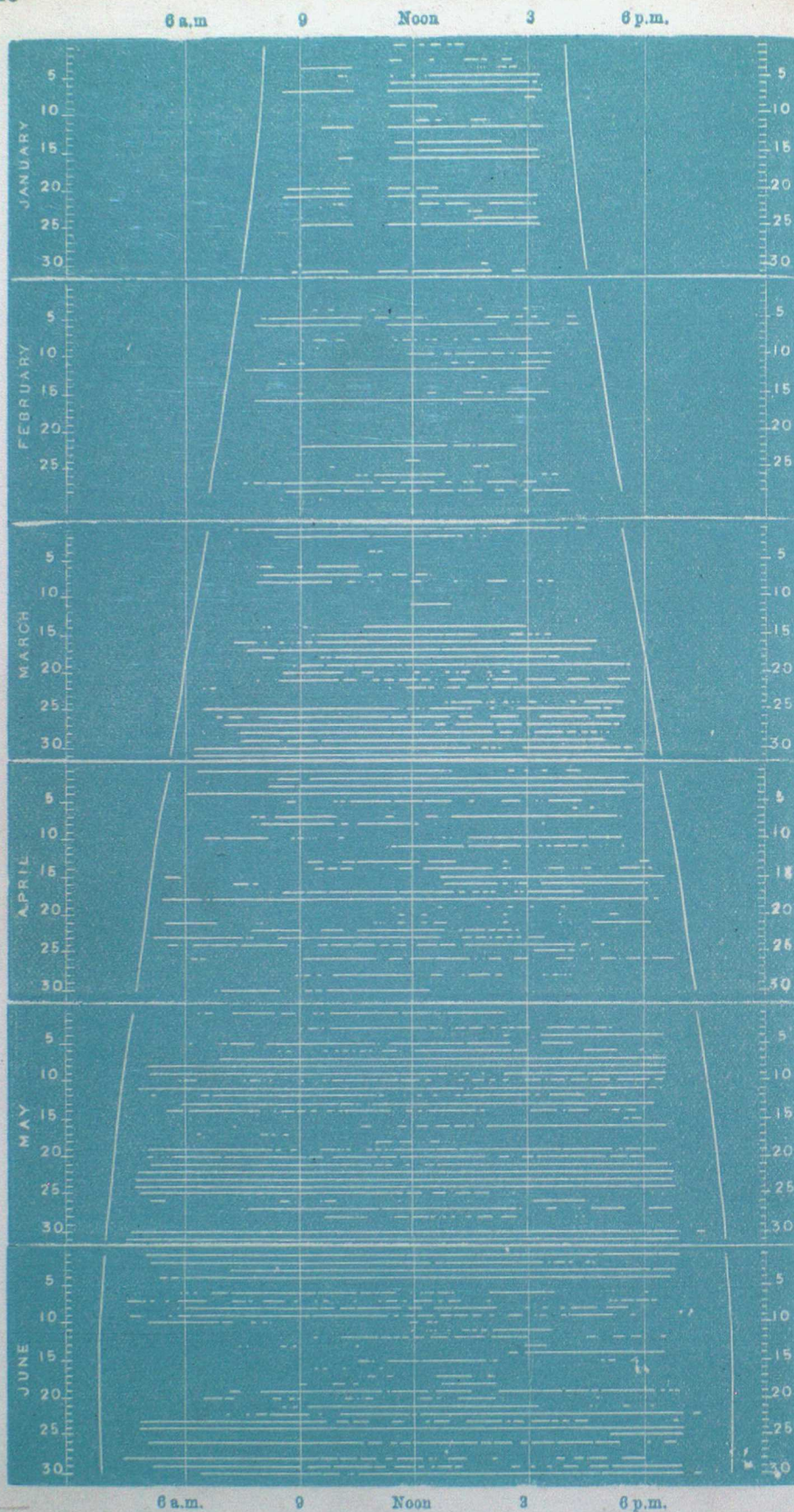


cut off by
Hobbs

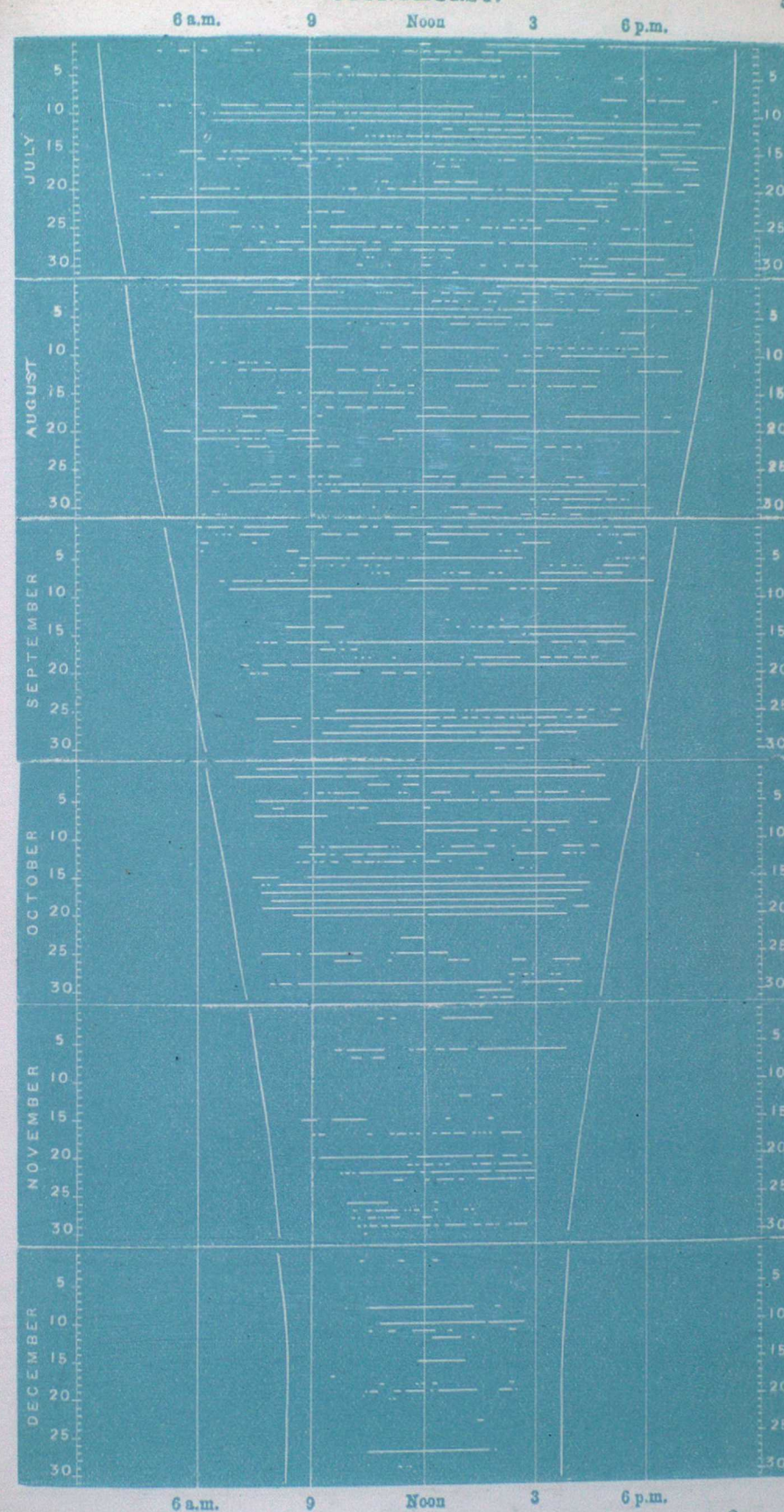
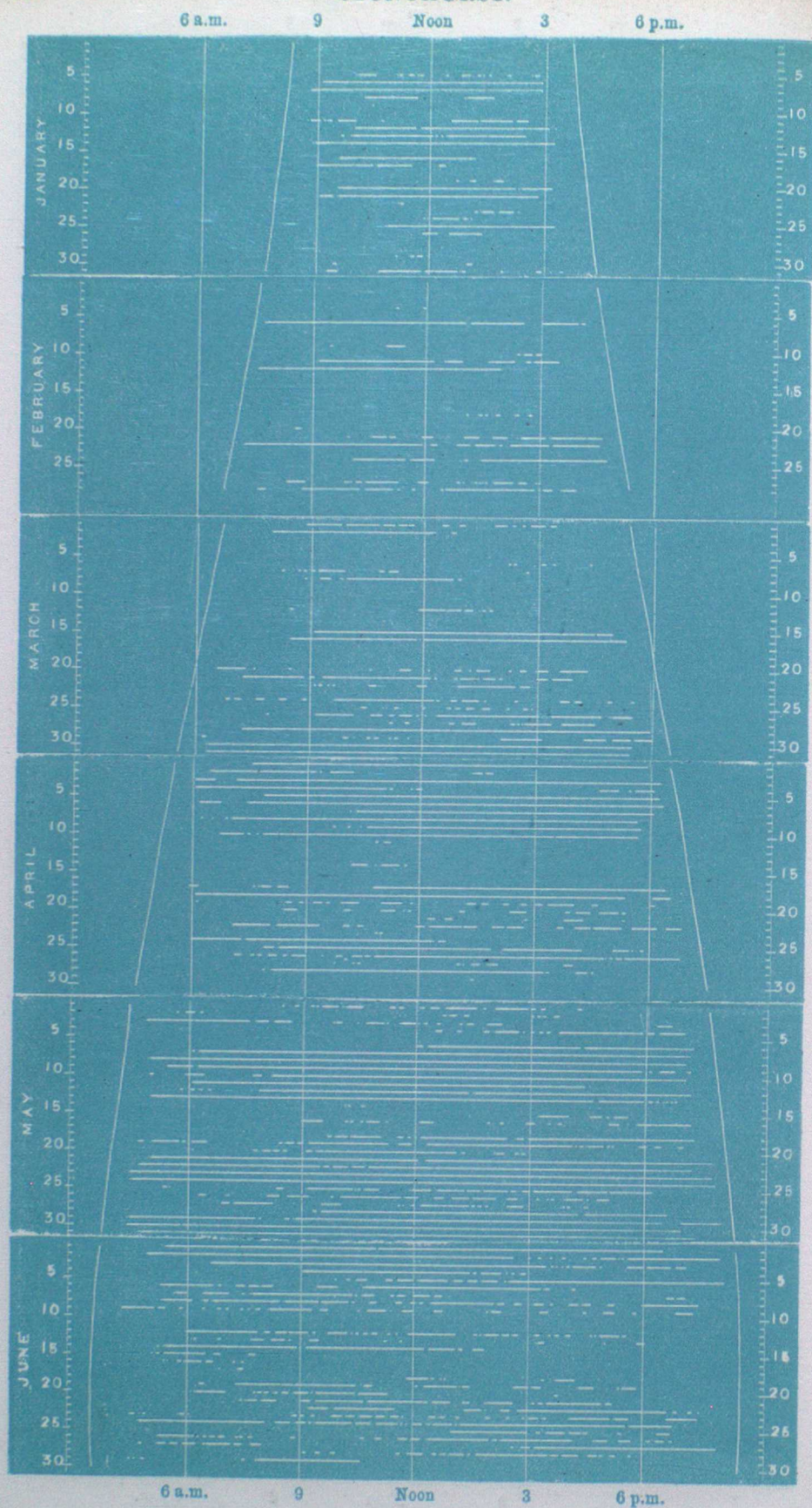
ST. AUBIN'S, JERSEY.



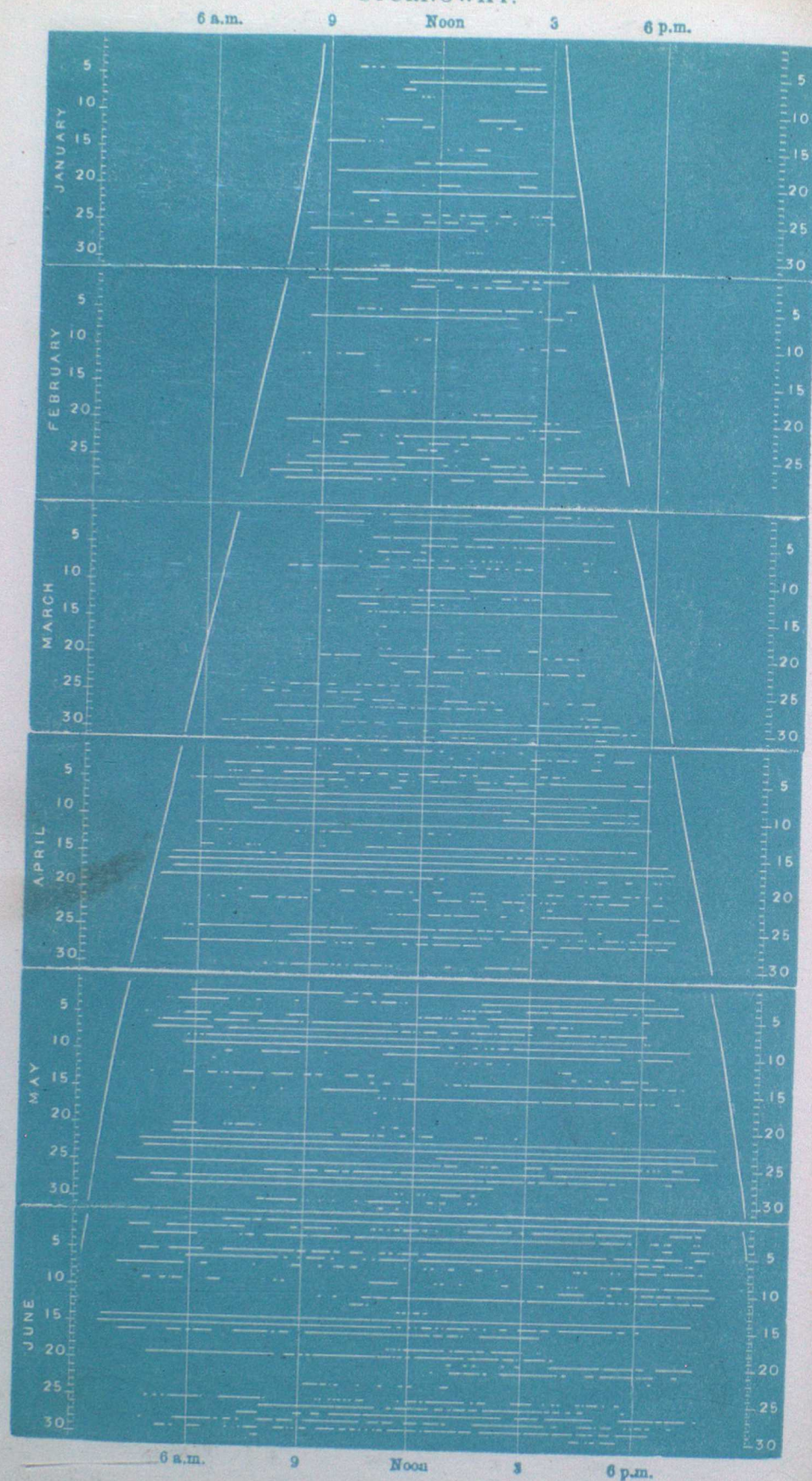




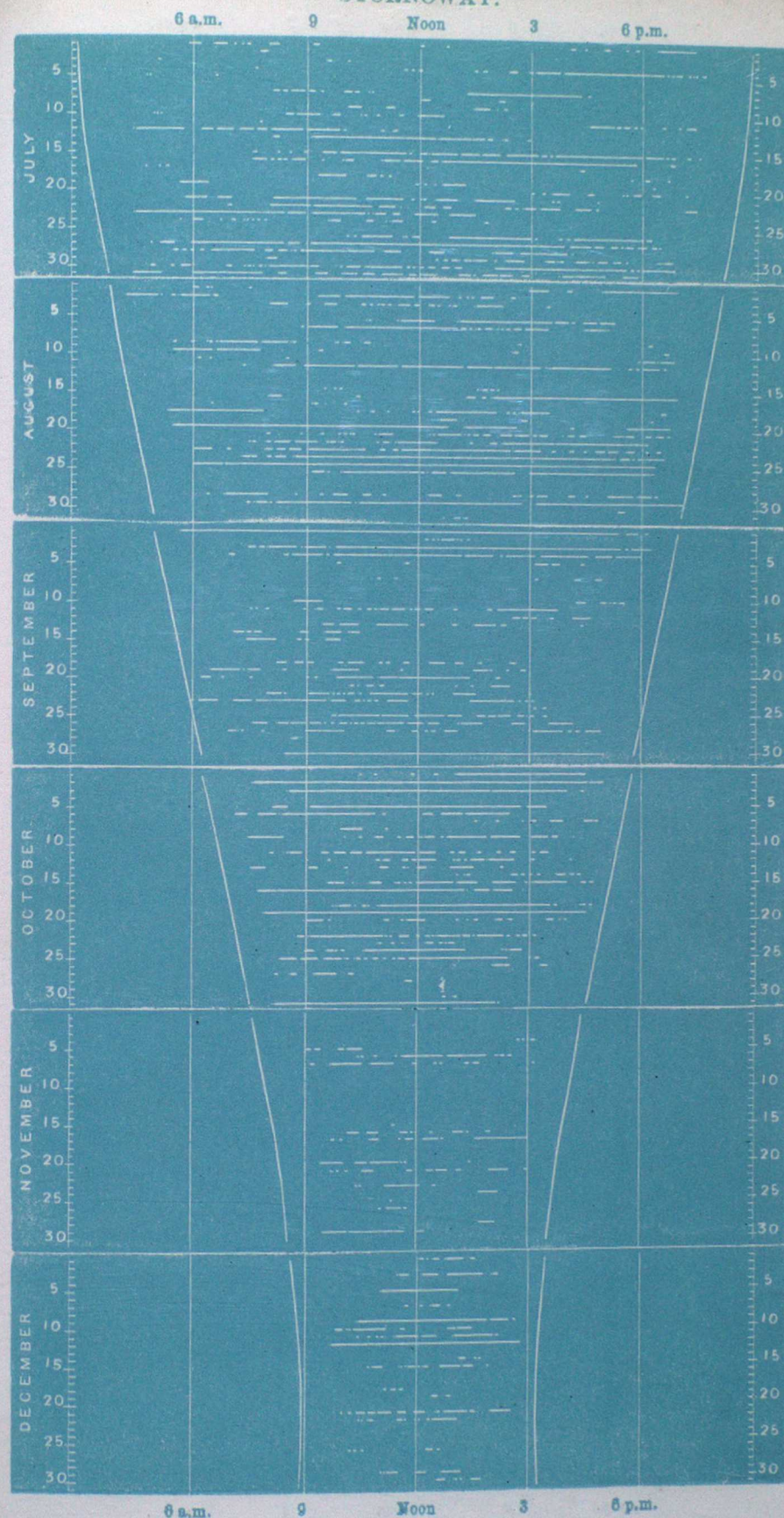
Price indicated by a Cherry after June 17th.



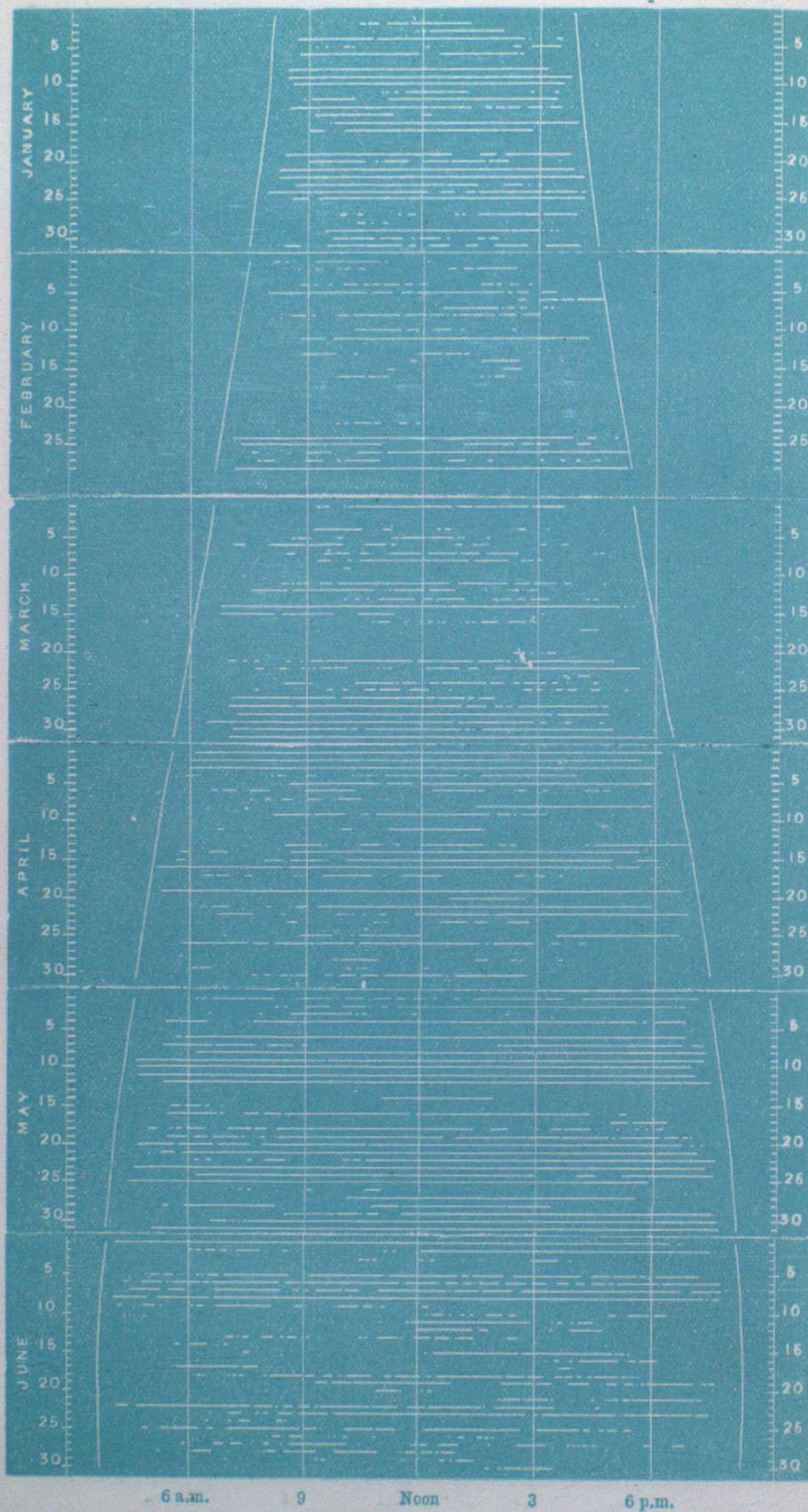
STORNOWAY.



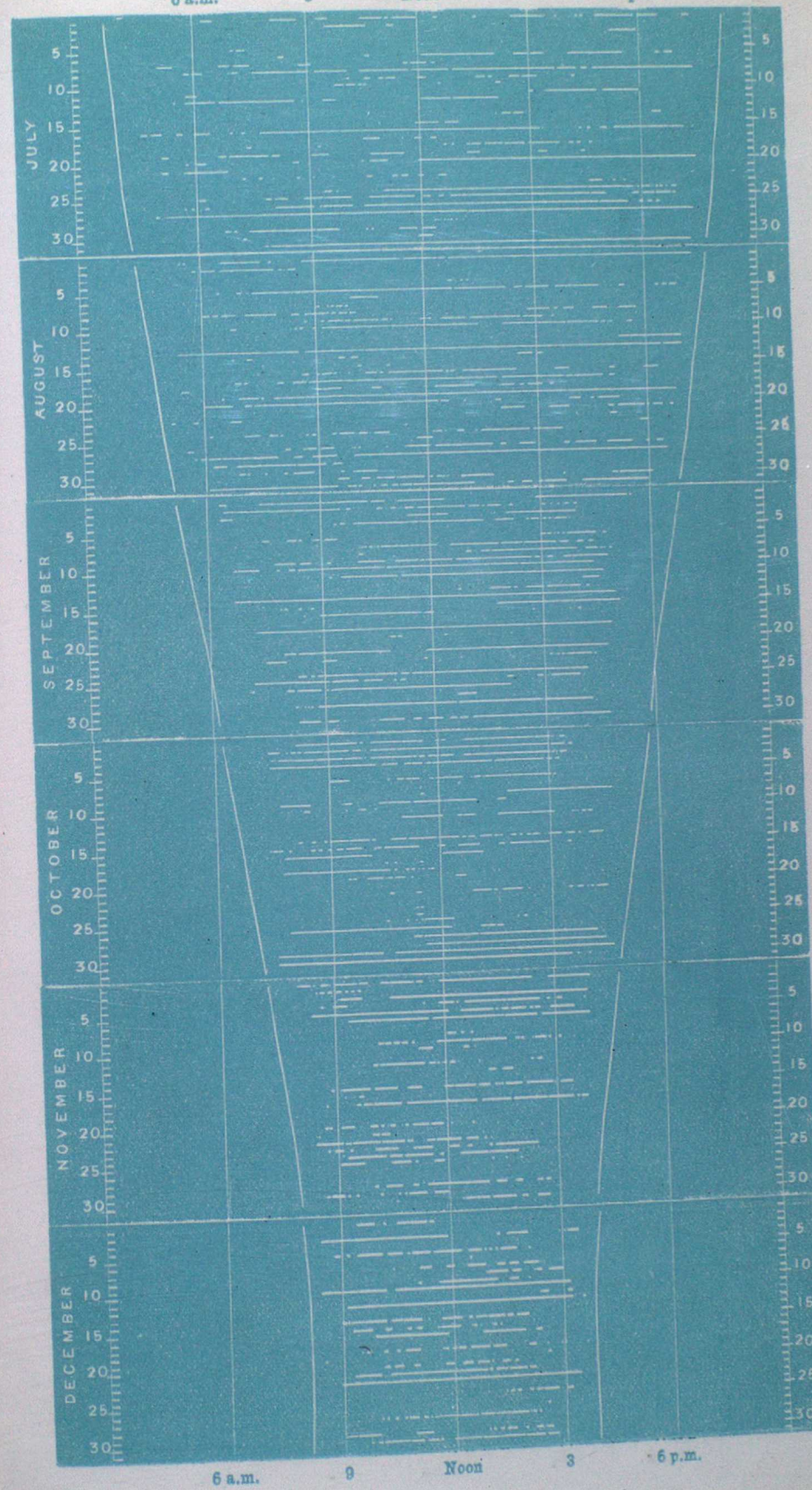
STORNOWAY.



6 a.m. 9 Noon 3 6 p.m.

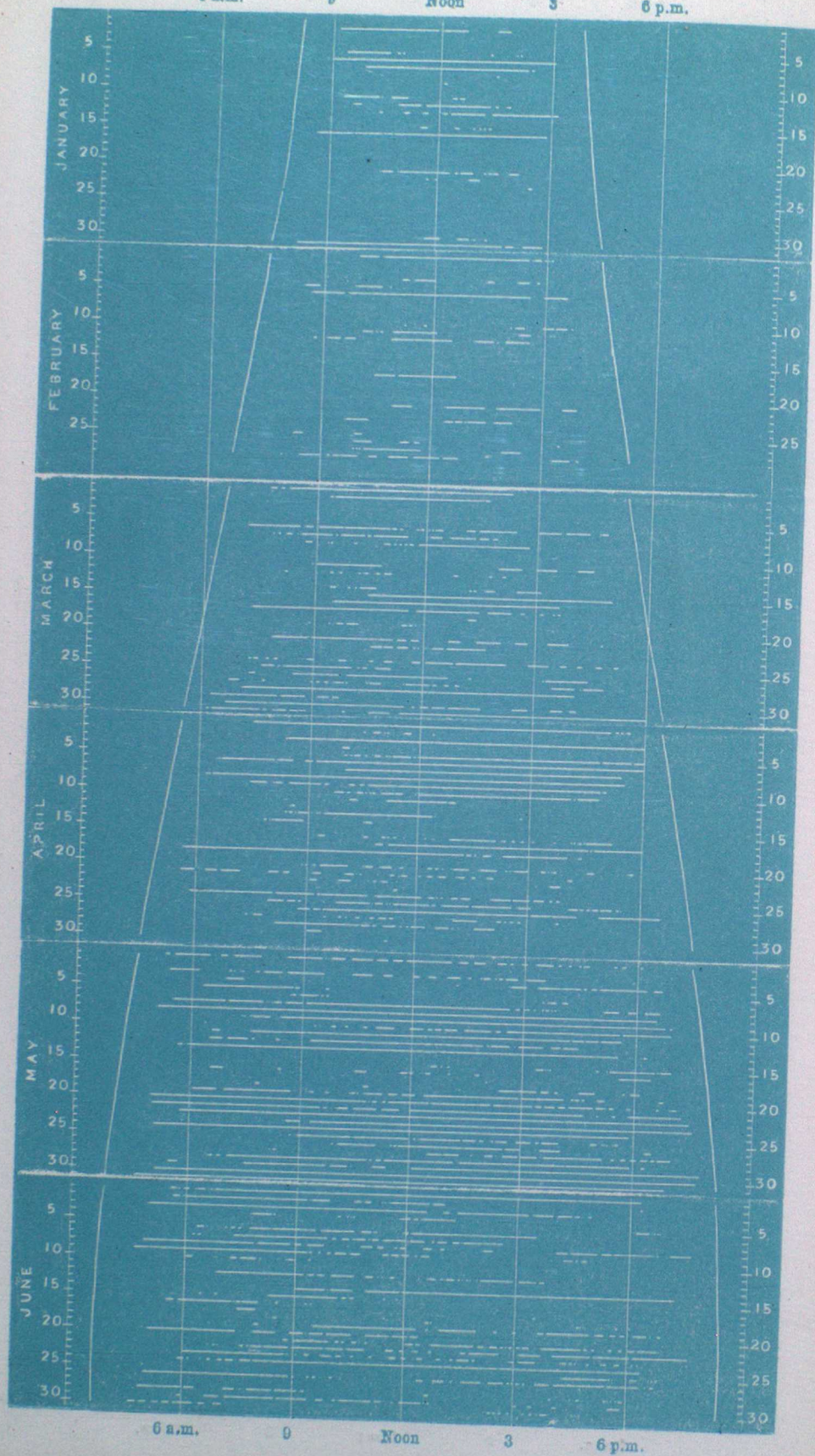


6 a.m. 9 Noon 3 6 p.m.



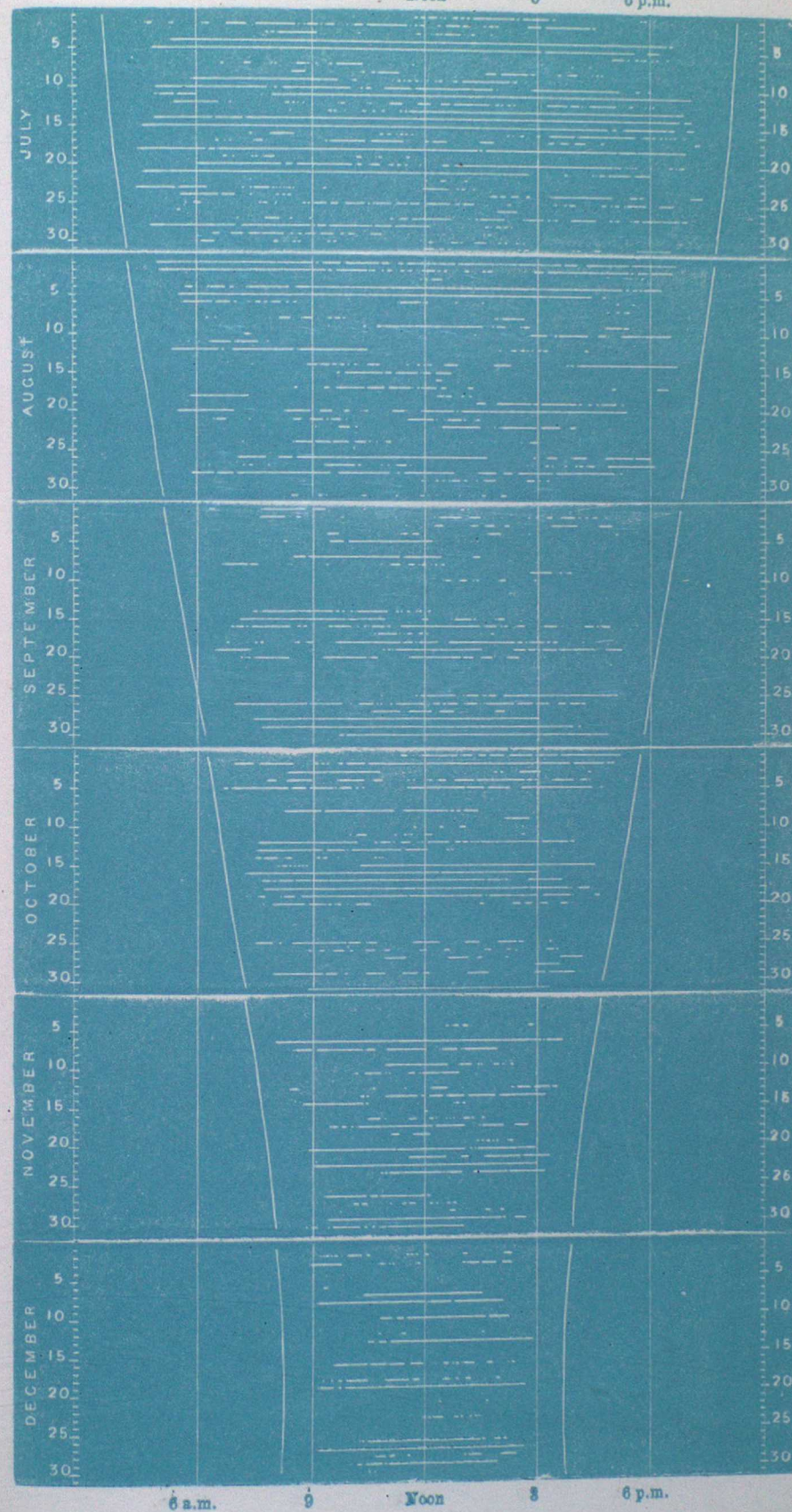
WORKSOP.

6 a.m. 9 Noon 3 6 p.m.



WORKSOP.

6 a.m. 9 Noon 3 6 p.m.



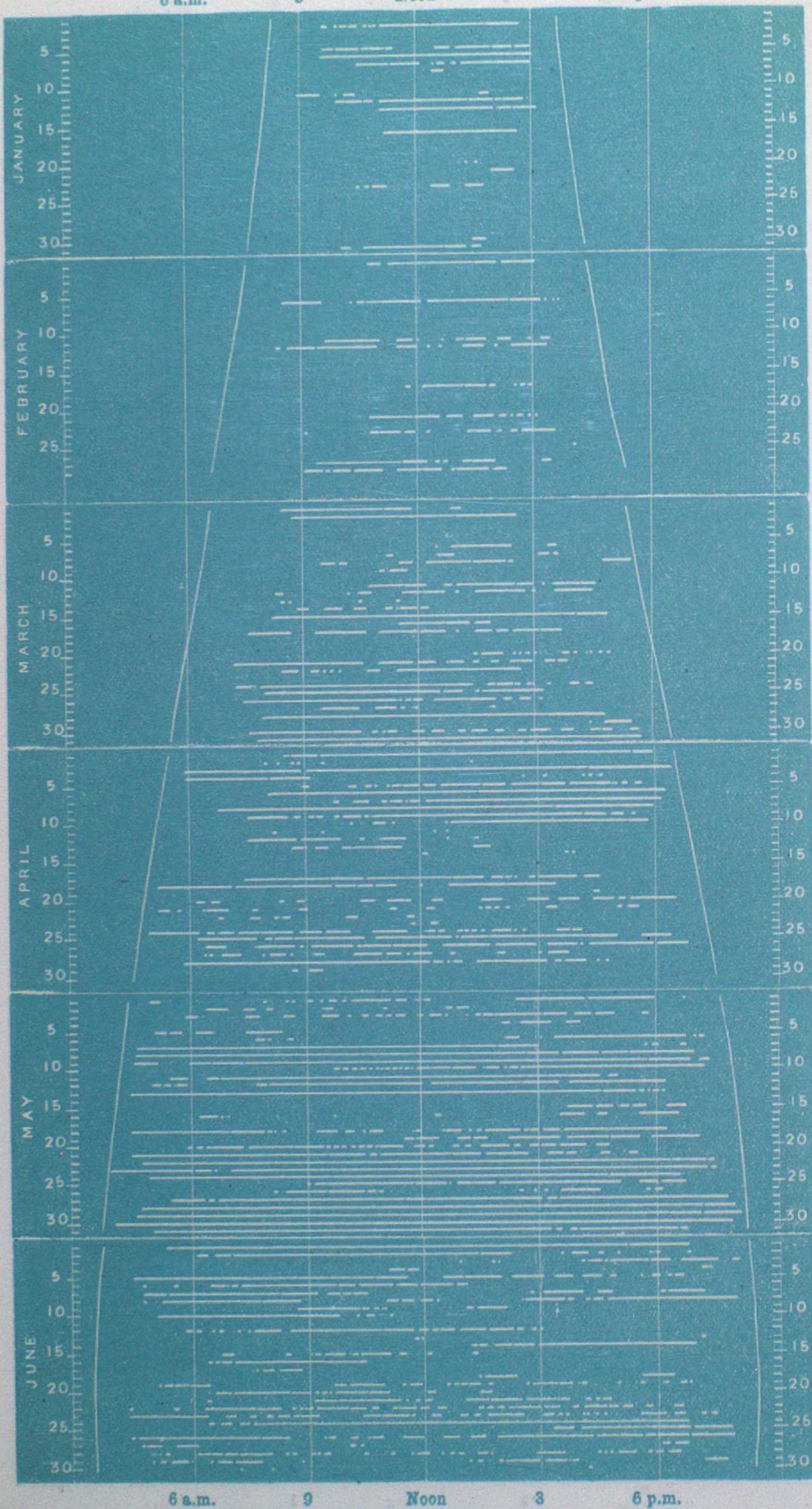
6 a.m.

9

Noon

3

6 p.m.



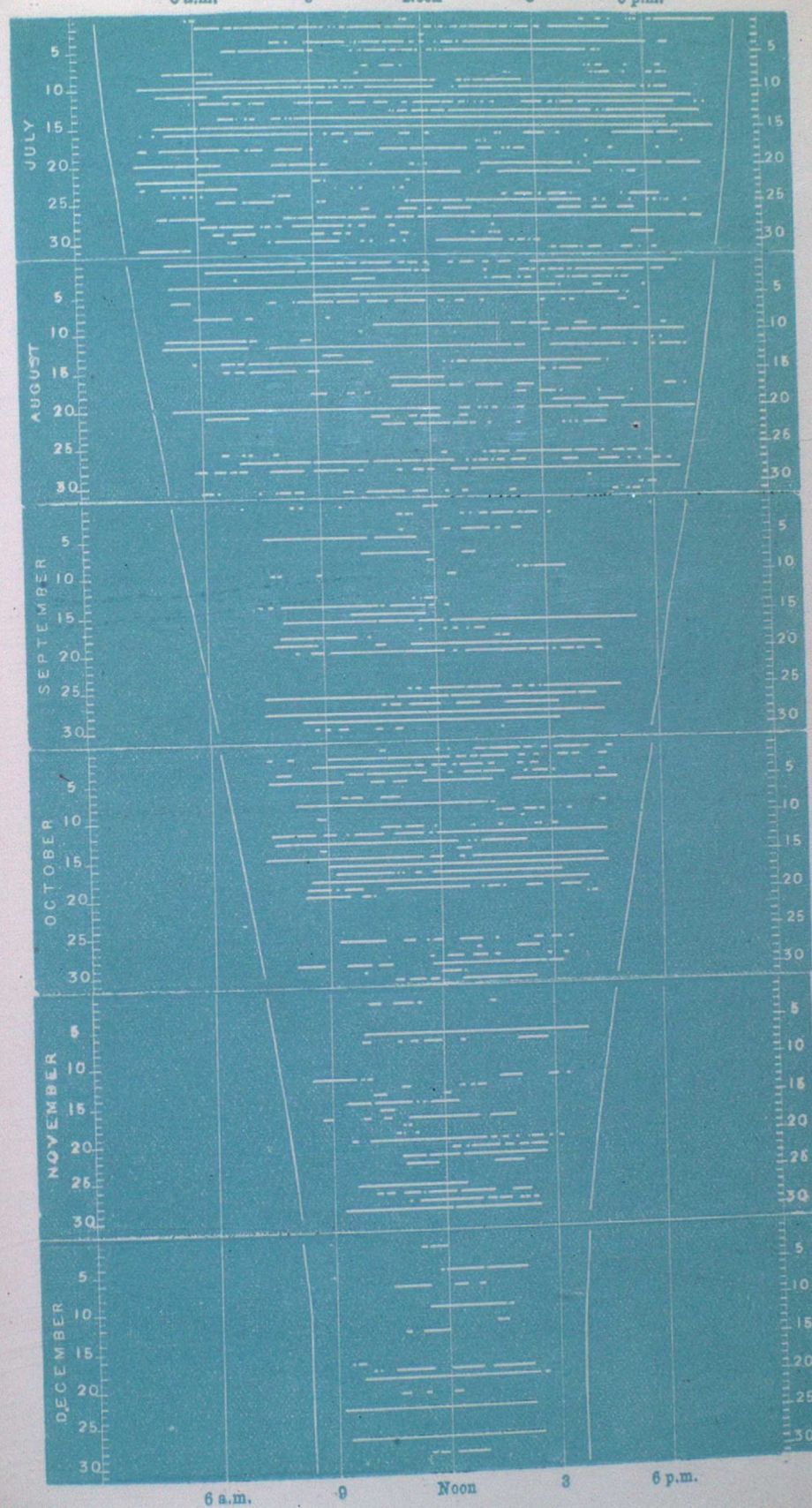
6 a.m.

9

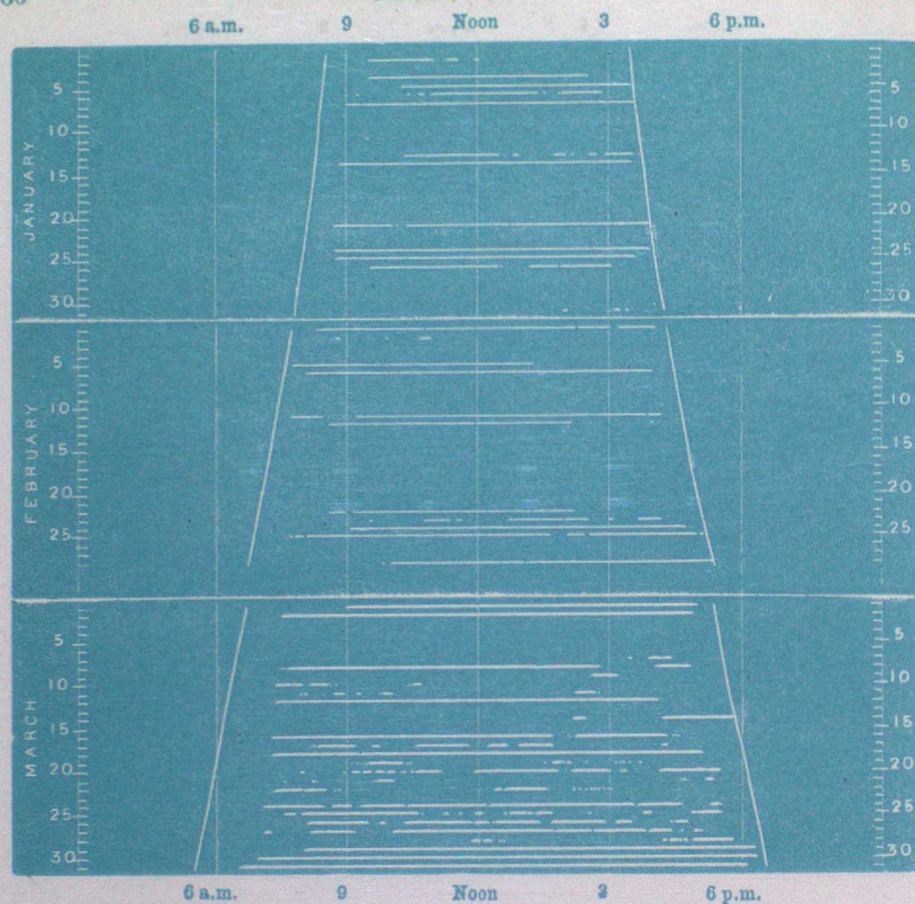
Noon

3

6 p.m.

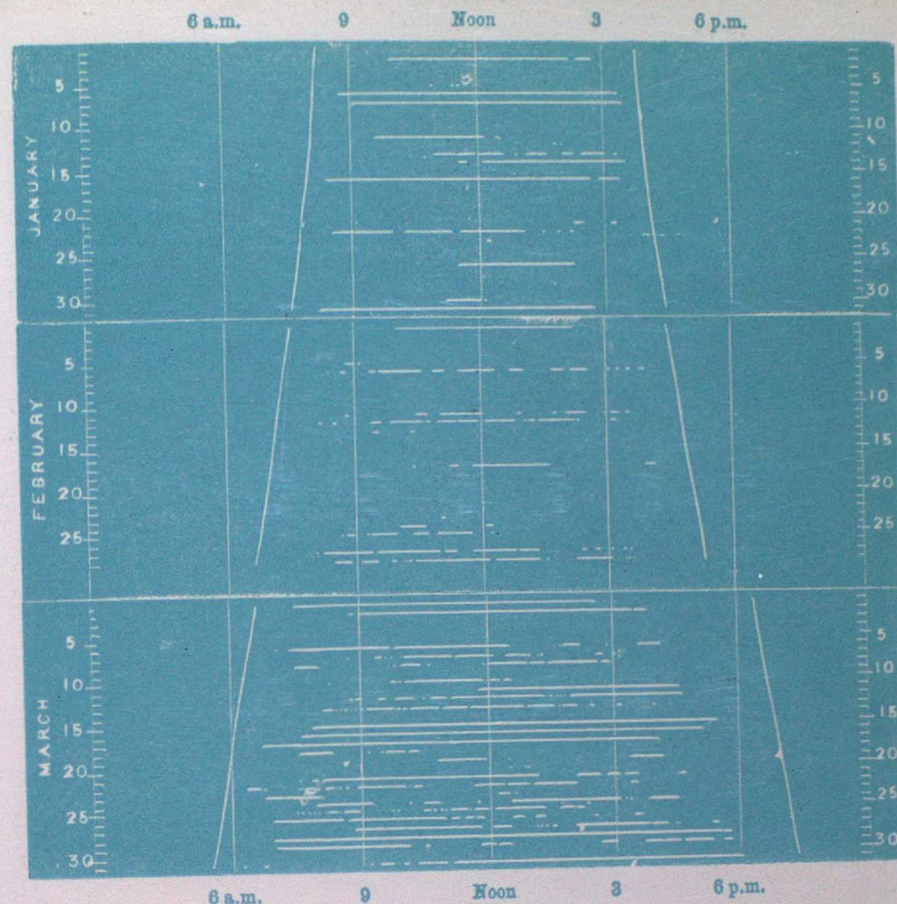


GLENALMOND.



NOTES.—The record was discontinued after the 31st March on the death of the observer, the Rev. W. P. Robinson D.D.

KELSTERN.



NOTES.—No record received for March 30th. The record was discontinued after March 31st owing to the removal from the neighbourhood of the observer.