GREENWICH PHOTO-HELIOGRAPHIC RESULTS, 1906.

CATALOGUE OF RECURRENT GROUPS OF SUN SPOTS, 1874—1906.

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RESULTS OF MEASURES

MADE AT THE

ROYAL OBSERVATORY, GREENWICH,

UNDER THE DIRECTION OF

SIR W. H. M. CHRISTIE, K.C.B., M.A., D.Sc., F.R.S.,
ASTRONOMER ROYAL.

OF

PHOTOGRAPHS OF THE SUN

TAKEN AT

GREENWICH, IN INDIA, AND IN MAURITIUS,

IN THE YEAR

1906.

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ERRATA.

GREENWICH PHOTO-HELIOGRAPHIC RESULTS, 1906.

Measures of Positions and Areas of Sun Spots and Faculæ, 1906.

Page.	Column.	Line.	
26	Footnote.		Group 5849, *for* Return of Group 5821, *read* Return of Group 5820.
40	Footnote.		*Insert* Group 5877*. June 1. A very small faint spot.
43	2	*after* 14	*Insert* new line, as follows :—
			Distance from Centre 0·813.
			Position Angle from Sun's Axis 244·9.
			Heliographic Longitude 0·5.
			Heliographic Latitude −19·7.
			Area of Faculæ 896.
	2	22	Group 5882, *dele* entire line.
	2	31	Total Area of Whole Spots, *for* 669, *read* 632.
55	Footnote.		Group 5917, *for* July 12–20, *read* July 12–19.
58	Footnote.		Group 5924, *for f* Group 5924, *read* following Group 5923.
59	1	46, 47	Group 5917, *dele* the whole of both lines.
	2	41	Total Area of Whole Spots, *for* 1773, *read* 1696.
72	Footnote.		Group 5960, *for* Return of Group 5932, *read* Return of Group 5936. And also, *for* after September 7, *read* after September 9.
73	1	2–29	Sept. 3. *Increase* all longitudes on this day by 1°·0.
	2	5–24	Sept. 5. *Diminish* all longitudes on this day by 0°·4.
	2 to *74* 1	25 to 5	Sept. 6. *Increase* all longitudes on this day by 1°·0.
88	Footnote.		Group 6021, *for* November 24, *read* November 23.
90	2	14	Area of Umbra, *for* 5, *read* 8.
	2	14	Area of Whole Spot, *for* 47, *read* 83.
	2	22	Total Area of Umbræ, *for* 181, *read* 184.
	2	22	Total Area of Whole Spots, *for* 1010, *read* 1046.
95	1	7	Position Angle, *for* 295·2, *read* 305·2.
			Heliographic Longitude, *for* 324·6, *read* 322·5.
			Heliographic Latitude, *for* +9·3, *read* +13·2.

Ledgers of Sun Spots, 1906.

Page.	Group.	Date.	
112	5849	Description.	*For* Return of Group 5821, *read* Return of Group 5820.
118	5882	June 11.	*Dele* entire line.
	5882	Means.	Mean Area for Umbra, *for* 7, *read* 8.
			Mean Area for Whole Spot, *for* 55, *read* 57.
			Mean Longitude of Group, *for* 6·83, *read* 7·43.
			Mean Latitude of Group, *for* −17·60, *read* −17·19.

GREENWICH PHOTO-HELIOGRAPHIC RESULTS, 1906.

INTRODUCTION.

§ 1. *Measures of Positions and Areas of Sun Spots and Faculæ on Photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn and at the Kodaikánal Observatory in India, and at the Royal Alfred Observatory, Mauritius, in the year* 1906; *with the deduced Heliographic Longitudes and Latitudes.*

The photographs from which these measures were made were taken either at Greenwich; at Dehra Dûn, North-West Provinces, India; at the Kodaikánal Observatory, Southern India; or at the Royal Alfred Observatory, Mauritius.

The photographs of the Greenwich series were taken either with the Thompson or with the Dallmeyer Photoheliograph. The Thompson Photoheliograph, which was in regular use for the greater part of the year, is a photographic refractor of 9 inches aperture, presented to the Royal Observatory by Sir Henry Thompson, which has been fitted with an enlarging doublet by Ross, and with a camera and shutter for rapid exposure so as to take photographs of the Sun on a scale of about 7·5 inches to the solar diameter. The Dallmeyer,—which was substituted for the Thompson for a few days in 1906 November; when the latter was not available, whilst the 30-inch mirror, carried by the same equatorial mounting, was being re-silvered,—is an instrument used in the Transit of Venus expedition to New Zealand, which, as now adapted, gives a solar image of nearly 8 inches diameter on the photographic plate.

The photographs have been taken throughout the year on gelatine dry plates, "Lantern" plates supplied by R. W. Thomas and Co. being used, with hydroquinone development.

The photographs from Dehra Dûn, which have been forwarded by the Solar Physics Committee to fill the gaps in the Greenwich series, were taken under the superintendence of the Deputy Surveyor-General, Trigonometrical Survey of India;

the Kodaikánal photographs were taken under the superintendence of Professor C. Michie Smith, Director of that Observatory; and the Mauritius photographs were taken under the superintendence of Mr. T. F. Claxton, Director of the Royal Alfred Observatory, Mauritius. At each observatory the instrument employed was a Dallmeyer Photoheliograph giving an image of the Sun about 8 inches in diameter. The plates and development used have been much the same at each of the four collaborating observatories.

Photographs of the Sun were available for measurement in 1906 on 364 days, the only day in the year without record being 1906 December 28. For 155 of these days photographs taken at the observatory at Dehra Dûn, India, were measured and reduced, but during the preparation of the copy for press of the Ledger of Spot-Groups for 1906, it was found that the latitudes of spot-groups, as determined from the Dehra Dûn photographs, showed considerable discordances as compared with each other and with the latitudes derived from the Greenwich and Kodaikánal photographs. These discordances were found to be due to a disturbance of the adjustment of the Dehra Dûn photoheliograph. So far as possible, therefore, photographs taken at Kodaikánal or Mauritius were substituted for those taken at Dehra Dûn. For 8 days there were no photographs available except those taken at Dehra Dûn, and for these days the measures of position have not been used, but only the measures of areas. The photographs finally selected for measurement were supplied by the different observatories as under :—

Greenwich	181
Dehra Dûn	8
Kodaikánal	52
Mauritius	123
Total	364

The *first* column on each page contains the Greenwich civil time at which each photograph was taken, expressed by the day of the year and decimals of a day, reckoning from Greenwich mean midnight January 1d. 0h., and also by the day of the month (civil reckoning), which latter is placed opposite the total area of Spots and Faculæ for the day. The photographs taken at Greenwich are distinguished by the letter G, those taken at Dehra Dûn, in India, by the letter D, those taken at Kodaikánal Observatory, India, by the letter K, and those taken in Mauritius by the letter M.

The *second* column contains the initials of the two persons measuring the photograph; the initial on the left being that of the person who measured the photograph on the left of the centre of the measuring instrument, and that on the right being that of the person who measured on the right of the centre.

The following are the signatures of those persons who measured the photographs for the year 1906 :—

E. W. Maunder - - -	M	C. F. Lait - - -	CL
R. Fowler - - -	RF	F. A. Saville - - -	FS
A. H. Smith - - -	AS		

The *third* column gives the No. of the group, and the letter for the spot. The groups are numbered in order of their appearance.

The *next two* columns give the distance from the centre of the Sun in terms of the Sun's radius, and the position-angle from the Sun's axis, reckoned from the Sun's north pole in the direction *n*, *f*, *s*, *p*, both results being corrected for the effects of astronomical refraction.

The measures of the photographs were made with a large position-micrometer specially constructed by Messrs. Troughton and Simms for the measurement of photographs of the Sun up to 12 inches in diameter. In this micrometer the photograph is held with its film-side uppermost on three pillars fixed on a circular plate, which can be turned through a small angle, about a pivot in its circumference, by means of a screw and antagonistic spring acting at the opposite extremity of the diameter. The pivot of this plate is mounted on the circumference of another circular plate, which can be turned by screw-action about a pivot in its circumference, 90° distant from that of the upper plate, this pivot being mounted on a circular plate with position-circle which rotates about its centre. By this means small movements in two directions at right angles to each other can be readily given, and the photograph can be accurately centred with respect to the position-circle. When this has been done, a positive eyepiece, having at its focus a glass diaphragm ruled with cross-lines into squares, with sides of one-hundredth of an inch (for measurement of areas), is moved along a slide diametrically across the photograph, the diaphragm being nearly in contact with the photographic film, so that parallax is avoided. The distance of a spot or facula from the centre of the Sun is read off by means of a scale and vernier to 1-250th of an inch (corresponding to 0·001 of the Sun's radius for photographs having a solar diameter of 8 inches). The position-angle is read off on a large position-circle which rotates with the photographic plate. The photograph is illuminated by diffused light reflected from white paper placed at an angle of 45° between the photograph and the plate below.

The following is the process of measurement of a photograph :—By means of the screws attached to the circular plates carrying the pillars which hold the photograph,

the image of the Sun is centred as accurately as possible by rotation. The position-circle is then set to the readings 0°, 90°, 180°, and 270° in succession, and the scale readings taken for the two limbs. The scale being so adjusted that its zero coincides with the centre of rotation of the position-circle, the mean of the eight readings for the limb gives the mean radius of the Sun directly.

At the principal focus of the photoheliograph are two cross-spider-lines which serve to determine the zero of position-angles on the photograph.

The zero of position-angles for the Thompson Photoheliograph employed at Greenwich has been determined by the measurement of a plate which has been exposed to the Sun's rays twice, with an interval of about 100 seconds between the two exposures, the instrument being firmly clamped. Two images of the Sun, overlapping each other by about a fifth part of the Sun's diameter, were therefore produced upon the plate, and the exposures having been so given that the line joining the cusps passed approximately through the centre of the plate, the inclination of the wires of the photoheliograph to this line was measured with the position-micrometer, and a small correction for the inclination of the Sun's path was then applied. The following table gives the correction for zero of position for the mean of the two wires as thus determined :—

Thompson Photoheliograph.

Date, Greenwich Civil Time.			Correction for Zero.	Date, Greenwich Civil Time.			Correction for Zero.
		d h	° ′			d h	° ′
1905	December	19. 10	− 0. 17	1906	April	27. 13	+ 0. 9
1906	January	16. 12	0. 0		May	5. 12	− 0. 16
		19. 12	− 0. 18		June	20. 10	+ 0. 7
	February	5. 12	− 0. 8			20. 13	− 0. 6
		14. 11	− 0. 17·5		July	6. 11	− 0. 10
		24. 13	− 0. 8		August	10. 12	− 0. 11
	March	4. 13	− 0. 4			29. 12	− 0. 4
	April	5. 12	− 0. 18		September	27. 12	− 0. 14
		12. 11	+ 0. 1·5		October	1. 12	+ 0. 5
		25. 11	− 0. 12	1907	January	4. 12	− 0. 2

A correction of $-0^{\circ}\cdot1$ for zero of position has been applied to all photographs taken with the Thompson Photoheliograph throughout the year 1906.

The Thompson Photoheliograph was mounted on the tube of the 26-inch Thompson Photographic refractor throughout the year. It is not fitted with a position-circle, and the position-angle of the wires, which are approximately parallel and perpendicular to the circle of declination, cannot be altered.

The Dallmeyer Photoheliograph was mounted throughout the year on the equatorial stand belonging to it, which was erected on the terrace roof of the South Wing of the New Physical Observatory.

In the use at Greenwich of the Dallmeyer Photoheliograph the position-circle has usually been set to some convenient reading near that for zero, so that the wires are respectively very nearly parallel and perpendicular to the circle of declination, and a correction for zero of position of the photoheliograph for the mean of the two wires has been applied to the zero of the position-circle of the micrometer. The position-circle was set to the reading $354^{\circ}\cdot0$ throughout 1906.

The zero of the position-circle of the micrometer has been determined from the readings of the position-circle for the four extremities of the two wires. The resulting combined correction is applied to all position-circle readings for spots and faculæ, so as to give true position-angles.

In the use of the photoheliograph in Mauritius the zero of position during the year 1906 has been determined in the same way as at Greenwich, by the measurement of a plate which has been exposed to the sun's rays twice, with an interval of about 100 seconds between the two exposures. The following table gives the correction for zero of position for the mean of the two wires :—

Mauritius Photoheliograph.

Date, Greenwich Civil Time.			Correction for Zero.	Date, Greenwich Civil Time.			Correction for Zero.
		d h	°			d h	°
1906	February	13. 5	− 3.49	1906	August	29. 6	− 4.37
	March	25. 5	− 3.53		September	13. 5	− 3.46
	April	12. 5	− 3.31		November	6. 5	− 4. 3
	May	11. 5	− 3.32			26. 5	− 4.33
	June	27. 5	− 4. 6		December	15. 5	− 4.17
	August	16. 5	− 3.19	1907	January	5. 5	− 4.30

A correction of $-4^{\circ}\cdot0^{\circ}$ for zero of position has been applied to all photographs taken with the Mauritius photoheliograph in the year 1906.

The Director of the Kodaikánal Observatory has reported, for each of the photographs that he has supplied, the amount of the correction for zero of position of wires that it is necessary to apply.

The uncorrected distance from the Sun's centre for spots and faculæ is read off directly to 1-250th of an inch by means of a scale and vernier, the zero of the scale of the micrometer being adjusted to coincide with the centre of the instrument.

Two sets of measures of the Sun's limb and of spots and faculæ on each photograph have been taken, and the mean of the two sets adopted.

No correction has been applied to the photographs on account of distortion.

The correction for the effect of refraction has been thus found, the Sun's image being assumed to be sensibly an ellipse. The refraction being sensibly $c \tan z$ where $c = \sin 57''\cdot5 = \frac{1}{3600}$ nearly, and z is the apparent zenith-distance, we shall have—

$$\frac{\text{Vertical Diameter}}{\text{Horizontal Diameter}} = \frac{1 - c \sec^2 z}{1 - c} = 1 - c \tan^2 z;$$

and thus the effect of refraction will be to diminish any vertical ordinate y by the quantity $c \tan^2 z$. Resolving this along and perpendicular to the radius vector r, and putting v for the position-angle of the vertex, we have for δr and $\delta \theta$, the corrections to radius vector and position-angle for the effect of refraction—

$$\delta r = + c \,.\, \tan^2 z \times r \,.\, \cos^2 (\theta - v) = + c \,.\, \tan^2 z \times r \times \frac{1 + \cos 2 (\theta - v)}{2},$$

$$\delta \theta = - c \,.\, \tan^2 z \,.\, \sin (\theta - v) \,.\, \cos (\theta - v) = - c \,.\, \tan^2 z \, \frac{\sin 2 (\theta - v)}{2}.$$

The quantity δr thus found is the correction, on the supposition that a horizontal diameter of the Sun is taken as the scale. But, as the mean of two diameters at right angles has been used, the scale itself requires the correction $\delta \mathrm{R} = + c \,.\, \tan^2 z \times \mathrm{R} \times \frac{1}{2} \left\{ \frac{1 + \cos 2 (\theta_0 - v)}{2} + \frac{1 + \cos 2 (\theta_0 + 90^{\circ} - v)}{2} \right\} = + \frac{1}{2} c \, \mathrm{R} \,.\, \tan^2 z,$ where R is the Sun's mean radius and θ_0, $\theta_0 + 90^{\circ}$ the position-angles of the two diameters measured. Thus the final correction to r becomes—

$$\delta r = + c \,.\, \tan^2 z \times r \times \frac{\cos 2 (\theta - v)}{2}.$$

The quantities $c \tan^2 z$, $-\frac{\sin 2(\theta - v)}{2}$, and $\frac{\cos 2(\theta - v)}{2}$ have been tabulated for use as follows, $c \tan^2 z$ being expressed in circular measure and in arc for application to distances and position-angles respectively :—

$c \tan^2 z$.

z.	In Circular Measure.	In Arc.	z.	In Circular Measure.	In Arc.	z.	In Circular Measure.	In Arc.
°		′	°		′	°		′
80	·0089	31	70	·0021	7	60	·0008	3
79	·0073	25	69	·0019	6½	58	·0007	2
78	·0061	21	68	·0017	6	56	·0006	2
77	·0052	18	67	·0015	5½	54	·0005	2
76	·0045	15	66	·0014	5	52	·0005	2
75	·0039	13	65	·0013	4½	50	·0004	1
74	·0034	11½	64	·0012	4	45	·0003	1
73	·0030	10	63	·0011	4	40	·0002	1
72	·0026	9	62	·0010	3	30	·0001	0
71	·0023	8	61	·0009	3			

Factors for Refraction.

$\theta - v$	$\theta - v$	$-\frac{\text{Sin } 2(\theta - v)}{2}$	$\frac{\text{Cos } 2(\theta - v)}{2}$	$\theta - v$	$\theta - v$	$-\frac{\text{Sin } 2(\theta - v)}{2}$	$\frac{\text{Cos } 2(\theta - v)}{2}$
°	°			°	°		
0	180	·00	+ ·50	90	270	·00	− ·50
5	185	− ·09	+ ·49	95	275	+ ·09	− ·49
10	190	− ·17	+ ·47	100	280	+ ·17	− ·47
15	195	− ·25	+ ·43	105	285	+ ·25	− ·43
20	200	− ·32	+ ·38	110	290	+ ·32	− ·38
25	205	− ·38	+ ·32	115	295	+ ·38	− ·32
30	210	− ·43	+ ·25	120	300	+ ·43	− ·25
35	215	− ·47	+ ·17	125	305	+ ·47	− ·17
40	220	− ·49	+ ·09	130	310	+ ·49	− ·09
45	225	− ·50	·00	135	315	+ ·50	·00
50	230	− ·49	− ·09	140	320	+ ·49	+ ·09
55	235	− ·47	− ·17	145	325	+ ·47	+ ·17
60	240	− ·43	− ·25	150	330	+ ·43	+ ·25
65	245	− ·38	− ·32	155	335	+ ·38	+ ·32
70	250	− ·32	− ·38	160	340	+ ·32	+ ·38
75	255	− ·25	− ·43	165	345	+ ·25	+ ·43
80	260	− ·17	− ·47	170	350	+ ·17	+ ·47
85	265	− ·09	− ·49	175	355	+ ·09	+ ·49
90	270	·00	− ·50	180	360	·00	+ ·50

The position-angle of the vertex v is readily taken from a globe.

The distance from centre in terms of the Sun's radius given in the *fourth* column is then readily found by dividing the measured distance r_0, as corrected for refraction,

by the measured mean radius of the Sun, R; and the position-angle from the Sun's axis given in the *fifth* column is obtained by applying to the position-angle (from the N. point) corrected for refraction the position-angle of the Sun's axis derived from the *Auxiliary Tables for determining the Angle of Position of the Sun's Axis, and the Latitude and Longitude of the Earth referred to the Sun's Equator*, by Warren De La Rue, F.R.S. This position-angle of the Sun's axis from the North point is also given (in brackets) in the *fifth* column.

The *sixth* and *seventh* columns give the heliographic longitude and latitude of the spot, which are thus computed.* Let r be the measured distance of a spot from the centre of the Sun's apparent disk, R the measured radius of the Sun on the photograph, (R) the tabular semidiameter of the Sun in arc, and ρ, ρ' the angular distances of a spot from the centre of the apparent disk as viewed from the Sun's centre and from the Earth respectively. Then we have—

$$\rho' = \frac{r}{R}(R); \text{ and } \sin(\rho + \rho') = \frac{r}{R},$$

$$\text{whence } \rho = \sin^{-1}\frac{r}{R} - \rho'.$$

Log. sin ρ and log. cos ρ, as computed from this formula, are given in *Tables for the Reduction of Solar Observations No.* 2, by Warren De La Rue, F.R.S. Then, if D, λ are the heliographic latitudes of the Earth and the spot respectively, referred to the Sun's equator, and L, l the heliographic longitudes reckoned from the ascending node of the Sun's equator on the ecliptic, and χ the position-angle from the Sun's axis, we have by the ordinary equations of spherical trigonometry—

$$\sin\lambda = \cos\rho \sin D + \sin\rho \cos D \cos\chi$$
$$\sin(L - l) = \sin\chi \sin\rho \sec\lambda.$$

The quantities L and D are derived from Warren De La Rue's *Auxiliary Tables* before referred to, in the computation of which the following formulæ have been used—

$$\tan L = \cos I \tan(\odot - N)$$
$$\sin D = \sin I \sin(\odot - N)$$

where I is the inclination of the Sun's equator to the ecliptic, N the longitude of the ascending node, and $\odot$ the longitude of the Sun.

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* "Researches on Solar Physics: Heliographical Positions and Areas of Sun Spots observed with the Kew Photoheliograph during the years 1862 and 1863," by W. De La Rue, B. Stewart, and B. Loewy. *Phil. Trans.*, 1869.

The position-angle χ is given by the formula—

$$\chi = P + G + H$$

where P is the position-angle from the north point of the Sun, and G and H two auxiliary angles given by the formulæ—

$$\tan G = \tan \omega \cos \odot$$
$$\tan H = \tan I \cos (\odot - N)$$

where ω is the obliquity of the ecliptic.

It will be seen that G is the inclination of two planes through the line joining the centres of the Earth and Sun passing through the poles of the Earth and of the ecliptic respectively, and that H is the inclination of two planes through the same line and the poles of the Sun and of the ecliptic. The values assumed for I, N, ω in the computation of the tables are $7^\circ.15'$, $74^\circ.27'$, and $23^\circ.27'\cdot5$ respectively.

The heliographic longitude of the spot is found from l, the heliographic longitude from node, by subtracting the reduction to the prime meridian, which is the longitude of the node at the epoch of the photograph, referred to the assumed prime meridian, the latter being the meridian which passed through the ascending node at mean noon, 1854 Jan. 1. The period of rotation assumed is 25·38 days.

The heliographic longitude and latitude of the centre of the Sun's disk at the time of the exposure of each photograph are also given (in brackets) in the *sixth* and *seventh* columns respectively. The longitude of the centre of the disk is found by subtracting the reduction to the prime meridian from L, the longitude of the centre from the node. The latitude of the centre is of course the same as D, the heliographic latitude of the Earth.

The measures of areas given in the *last three* columns were made with a glass diaphragm ruled into squares, with sides of one-hundredth of an inch, and placed as nearly as possible in contact with the photographic film. The integral number of squares and parts of a square contained in the area of a spot or facula was estimated by the observer, two independent sets of measures being made by two observers. The mean of the two sets of measures has been taken for each photograph. The factor for converting the areas, as measured in ten-thousandths of a square inch, into millionths of the Sun's visible hemisphere, allowing for the effect of foreshortening, has been inferred by means of a table of double entry, giving the equivalent of one square for different values of the Sun's radius, and for different distances of the spot or facula from the Sun's centre as measured by means of the position-micrometer.

The individual spots in a group have in many cases not been measured separately, but combined into a cluster of two or three small spots close together, the position of the centre of gravity and the aggregate area of the cluster being given.

§ 2. *Ledgers of Areas and Heliographic Positions of Groups of Sun Spots deduced from the measurement of the Solar photographs for each day in the year* 1906.

In these ledgers the daily results for each group are collected together from the measures of the individual spots and given in a condensed form. The first column gives, for each day on which the group was observed, the Greenwich civil time at which each photograph was taken, expressed by the day of the month (civil reckoning) and the decimals of a day reckoning from Greenwich mean midnight. The second and third columns give the sums, for each day, of the projected areas of all the umbræ and whole spots comprised in the group, the projected area being the area as it is measured upon the photograph, uncorrected for foreshortening, and expressed in millionths of the Sun's apparent disk. The fourth and fifth columns give the sums for each day of the areas of all the umbræ and whole spots comprised in the group, corrected for foreshortening, and expressed in millionths of the Sun's visible hemisphere. The sixth and seventh columns give the mean longitude and latitude of the group, found by multiplying the longitude and latitude of each separately measured component of the group by its area, and dividing the sum of the products by the sum of the areas. The last column gives the mean longitude of the group from the central meridian, and is found by subtracting the longitude of the centre of the disk from the mean longitude of the group. At the foot of these daily results for each group are given the mean areas of umbræ and whole spots and the mean longitude and latitude for the period of observation.

§ 3. *Total Areas of Sun Spots and Faculæ for each day, and Mean Areas and Mean Heliographic Latitude of Sun Spots and Faculæ for each Rotation of the Sun, and for the year* 1906.

This section requires no further explanation.

W. H. M. CHRISTIE.

Royal Observatory, Greenwich,
1909 *September.*

ROYAL OBSERVATORY, GREENWICH.

MEASURES OF POSITIONS AND AREAS

OF

SUN SPOTS AND FACULÆ

ON

PHOTOGRAPHS

TAKEN WITH THE

PHOTOHELIOGRAPHS

AT GREENWICH, IN INDIA, AND IN MAURITIUS,

WITH THE DEDUCED

HELIOGRAPHIC LONGITUDES AND LATITUDES.

1906.

MEASURES of POSITIONS and AREAS of SUN SPOTS and FACULÆ on PHOTOGRAPHS taken at the ROYAL OBSERVATORY, GREENWICH, at KODAIKÁNAL and at DEHRA DÛN in INDIA, and at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the Year 1906.

NOTE.—The Greenwich Civil Time at which the Photograph was taken is expressed by the Day of the Year and decimals of a day, reckoning from Midnight, January 1d 0h. For convenience of reference, the Month and Day of the Month (Civil Reckoning) are added.

The letter G. signifies that the photograph was taken at Greenwich; the letter K. that it was taken at Kodaikánal; the letter D. that it was taken at Dehra Dûn; the letter M. that it was taken in Mauritius; the time given is Greenwich Civil Time.

The position-angles are reckoned from the North Pole of the Sun's Axis in the direction N., E., S., W., N.

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column, it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c*, denoting respectively north, south, preceding, following, concentric.

The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

In the line immediately below the results for each day are given in brackets:—1. The Position Angle of the Sun's Axis (from the North point); 2. The Heliographic Longitude and Latitude of the Centre of the Disc; 3. The total areas for each day of Spots and Faculæ.

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
0·135	FS, AS		0·878	248·9	340·7	−20·0			646
			0·847	276·6	337·6	+ 3·9			204
			0·810	260·6	334·2	− 9·5			227
			0·701	244·3	322·4	−20·1			214
		5767	0·715	293·1	322·8	+13·9	0	8	
		5767	0·696	295·0	320·9	+14·7	0	15	143*c*
		5767	0·669	297·0	318·3	+15·1	0	7	
		5765	0·520	246·3	309·7	−14·9	0	13	
		5765	0·491	244·1	307·4	−15·2	4	23	
		5765	0·462	241·5	305·1	−15·6	0	15	
		5765	0·445	244·3	304·6	−14·0	0	4	
K.		5766	0·161	197·8	283·2	−12·0	0	6	
		5766*a*	0·111	196·1	282·1	− 9·3	60	302	
		5766	0·163	189·3	281·8	−12·4	2	6	
		5766	0·143	179·2	280·2	−11·4	0	5	
		5766	0·116	160·9	278·1	− 9·5	14	103	
		5766	0·109	175·4	275·2	− 9·4	23	139	
		5766*b*	0·172	104·2	270·7	− 5·6	24	154	
			0·690	91·0	236·8	− 3·1			143
			0·755	65·6	234·8	+15·9			536
			0·886	83·0	218·6	+ 4·7			212
			0·895	74·7	218·5	+12·1			385
			0·895	116·5	218·4	−25·0			924
Jan. 1				(+2·5)	(280·3)	(−3·2)	(127)	(800)	(3634)
1·279	FS, M		0·945	278·4	335·3	+ 6·9			149
			0·872	253·7	325·4	−15·8			960
		5767	0·866	288·6	322·9	+14·3	5	16	
		5767	0·837	293·7	318·6	+17·7	0	9	599*c*
M.		5767	0·801	293·8	314·9	+16·7	0	4	
		5765	0·731	251·5	311·1	−15·7	0	4	
		5765	0·693	251·9	308·0	−14·9	0	5	171*c*
		5765	0·673	250·3	306·2	−15·6	0	8	
		5766	0·362	245·8	284·8	−11·7	1	5	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
1·279	FS, M	5766*a*	0·315	250·1	282·6	− 9·3	53	279	
		5766	0·321	242·5	282·0	−11·7	0	2	
		5766*c*	0·270	245·2	279·5	− 9·7	27	272	
		5766	0·208	245·1	276·1	− 8·2	0	7	
		5766	0·140	245·3	272·5	− 6·6	0	3	
M.		5766*b*	0·112	247·5	271·1	− 5·8	9	53	
		5768	0·798	120·4	215·5	−25·9	0	5	564*f*
			0·742	127·5	222·9	−29·3			146
			0·722	70·3	221·4	+11·7			107
			0·836	77·4	209·8	+ 8·6			349
			0·957	77·0	193·4	+11·4			484
Jan. 2				(+2·0)	(265·2)	(−3·3)	(95)	(672)	(3529)
2·218	FS, M		0·941	250·1	322·8	−19·8			488
			0·863	295·5	308·6	+19·9			155
			0·812	276·5	306·6	+ 3·3			76
		5767	0·956	286·4	324·1	+14·6	0	4	
		5767	0·932	288·5	319·5	+15·9	0	5	328*c*
		5767	0·917	290·4	316·8	+17·2	0	3	
		5765	0·828	256·0	308·4	−13·4	0	4	389*c*
		5766*a*	0·505	257·1	282·7	− 9·4	63	285	
		5766*c*	0·457	255·5	279·4	− 9·6	17	236	
		5766	0·417	257·0	277·0	− 8·5	0	6	
M.		5766	0·350	252·9	272·6	− 9·1	0	5	
		5766*b*	0·322	261·1	271·5	− 6·1	3	19	
		5766	0·310	272·9	270·9	− 2·3	0	7	
		5766	0·287	267·1	269·5	− 4·1	0	3	
		5769	0·975	78·3	176·8	+10·6	11	72	153*c*
			0·717	124·9	211·9	−26·7			289
			0·749	73·9	206·2	+ 9·7			163
			0·904	73·2	190·2	+13·6			536
			0·952	115·3	181·3	−25·1			300
			0·953	99·2	180·4	− 9·8			192
Jan. 3				(+1·5)	(252·9)	(−3·4)	(94)	(649)	(3069)

Group 5765, 1905 December 24–1906 January 3. A few spots, mostly small and unstable, in an irregular stream. The group undergoes several changes, but generally consists chiefly of two clusters of small spots.

Group 5766, 1905 December 26–1906 January 6. A fine stream of the usual type. *a*, the leader, is a large regular spot; *b*, the last, a large composite spot. A large composite spot, *c*, has formed by January 2, immediately behind *a*.

Group 5767, 1905 December 29–1906 January 3. A few small unstable spots irregularly scattered. The group has become a straight stream by January 1.

Group 5768. 1906 January 2. A very small spot.

Group 5769. January 3–9. A regular spot, slowly diminishing in size.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
3·473	CL, RF		0·966	245·8	311·4	−24·3			191
			0·965	291·1	308·7	+19·3			246
			0·939	257·3	306·3	−13·1			423
			0·853	281·0	293·8	+ 7·5			205
		5766*a*	0·721	260·6	282·3	− 9·2	41	286	
		5766	0·698	257·7	280·2	−11·1	0	25	
		5766	0·673	259·6	278·4	− 9·6	5	67	
		5766	0·615	260·6	274·1	− 8·5	0	3	
G.		5769	0·864	75·9	178·2	+10·3	21	76	65*c*
			0·765	68·8	189·3	+13·7			431
			0·854	117·7	179·9	−25·3			267
			0·895	101·9	173·0	−12·2			324
			0·950	59·3	169·3	+27·7			186
			0·939	76·4	168·0	+11·5			488
			0·931	91·2	168·0	− 2·4			115
Jan. 4				(+0·9)	(236·4)	(−3·5)	(67)	(457)	(2941)
4·196	FS, AS		0·966	256·8	302·1	−13·7			187
			0·930	289·4	292·8	+16·6			119
			0·819	245·5	280·1	−22·0			64
		5766*a*	0·830	260·4	282·8	−10·0	48	251	
		5766	0·812	257·5	280·8	−12·3	0	7	350*c*
		5766	0·798	261·8	279·6	− 8·7	0	3	
		5766	0·790	259·8	278·8	−10·3	3	13	
		5770	0·235	1·3	226·5	+ 9·9	0	2	
M.		5770	0·248	8·7	224·6	+10·6	0	7	
		5769	0·769	72·9	178·6	+10·7	11	65	84*c*
		5771	0·949	74·9	156·9	+13·1	0	6	662*p*
			0·808	61·1	177·9	+20·6			282
			0·827	119·9	173·7	−26·5			263
			0·826	103·0	171·4	−12·8			209
			0·952	56·2	160·2	+30·6			142
			0·949	110·7	155·3	−20·8			108
Jan. 5				(+0·5)	(226·8)	(−3·6)	(62)	(354)	(2470)
5·261	FS, CL		0·879	240·7	272·3	−27·3			195
			0·638	289·3	250·3	+ 9·2			102
		5766*a*	0·940	260·6	283·0	−10·1	20	188	607*f*
		5770	0·326	319·2	225·4	+10·6	0	17	
		5770	0·314	338·0	219·8	+13·2	1	5	
M.		5769	0·591	66·1	179·7	+10·7	9	61	
		5772	0·790	79·3	161·8	+ 6·1	2	22	106*c*
			0·674	127·3	176·1	−27·0			153
			0·834	66·9	159·8	+16·9			676
			0·894	54·1	156·7	+29·6			185
			0·879	112·5	152·3	−21·5			164
Jan. 6				(0·0)	(212·9)	(−3·7)	(32)	(293)	(2188)
1906.				°	°	°			
6·529	AS, RF		0·963	264·9	270·5	− 5·9			237
			0·858	265·0	255·1	− 6·2			61
			0·818	282·5	249·6	+ 8·0			294
			0·828	295·5	248·0	+18·6			121
		5770	0·602	294·3	230·0	+11·1	0	16	
G.		5770	0·548	296·4	225·9	+10·7	0	11	
		5769	0·358	48·9	180·3	+ 9·9	10	33	
		5772	0·600	75·3	160·6	+ 5·6	3	17	
			0·704	67·3	154·5	+12·9			167
			0·842	58·7	144·6	+23·5			322
Jan. 7				(−0·6)	(196·1)	(−3·8)	(13)	(77)	(1202)
7·151	CL, RF		0·916	273·9	253·8	+ 2·0			52
			0·912	237·6	251·6	−31·0			299
			0·917	305·5	247·5	+30·2			166
			0·822	295·9	239·0	+18·6			462
			0·728	237·0	230·6	−26·2			94
		5770	0·712	288·0	231·2	+ 9·9	0	7	487*c*
		5770	0·698	289·0	229·8	+10·2	0	2	
		5773	0·219	348·3	190·5	+ 8·5	0	6	
K.		5769	0·268	27·1	180·8	+ 9·9	8	34	
		5772	0·484	69·7	160·8	+ 6·2	2	6	
		5772	0·486	71·1	160·5	+ 5·5	0	1	
		5774	0·953	73·8	117·4	+14·1	0	4	
		5774	0·958	75·2	116·2	+13·0	0	17	175*c*
		5774	0·965	74·1	114·9	+14·2	0	17	
		5775*a*	0·997	80·4	103·4	+ 9·2	90	392	
			0·782	54·7	143·7	+24·0			292
			0·920	51·6	129·0	+32·8			238
Jan. 8				(−0·9)	(187·9)	(−3·9)	(100)	(486)	(2265)
8·216	FS, AS		0·928	259·3	242·2	−11·5			117
			0·928	239·5	240·8	−29·8			144
			0·896	294·1	233·8	+19·4			242
			0·732	238·9	217·6	−25·2			137
		5770	0·839	285·1	229·1	+10·3	3	8	348*n*
		5770	0·811	285·9	226·2	+10·3	0	5	
		5769	0·269	330·9	181·5	+ 9·5	2	9	
		5774	0·837	71·4	119·6	+13·1	4	21	
M.		5774	0·861	73·1	116·6	+12·3	4	19	260*c*
		5774	0·878	72·2	114·8	+13·5	7	26	
		5775*a*	0·942	79·6	104·6	+ 8·4	45	277	
		5775	0·959	79·5	101·6	+ 8·8	3	19	
		5775*b*	0·963	81·1	100·5	+ 7·4	16	126	617*c*
		5775	0·975	78·5	97·9	+10·3	13	87	
		5777	0·989	76·4	93·9	+12·8	0	29	
			0·927	97·8	105·8	− 8·8			234
Jan. 9				(−1·4)	(173·9)	(−4·1)	(97)	(626)	(2099)

Group 5770, January 5–10. A few small spots forming near the centre of the disc.
Group 5771, January 5. A very small spot.
Group 5772, January 6–8. Some small spots in a compact little cluster.
Group 5773, January 8. A very small spot.
Group 5774, January 8–16. A stream of small spots.
Group 5775, January 8–20. Return of Group 5747. A large regular spot, *a*, followed by a short train of spots, of which *b*, a composite spot, is the largest. *b* breaks up and *a* alone remains by January 18. The group lies *s f* Group 5774.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
9·482	CL, RF		0·811	240·2	208·8	−26·4			386
			0·834	222·4	205·0	−40·8			71
		5770	0·942	283·6	226·0	+11·3	7	18	441*nf*
		5774	0·638	64·4	121·2	+12·6	1	12	
		5774	0·688	67·0	116·9	+12·4	0	12	274*f*
		5774	0·721	67·4	114·3	+13·0	10	49	
		5775*a*	0·811	76·9	104·5	+ 8·1	64	288	
G.		5775	0·833	77·1	102·3	+ 8·3	0	4	
		5775*b*	0·836	78·7	101·7	+ 7·1	15	109	1077*c*
		5775	0·877	77·3	97·4	+ 9·1	8	38	
		5775	0·882	75·3	97·1	+10·9	0	48	
		5777	0·912	73·9	93·4	+12·8	0	11	
			0·793	96·6	104·8	− 7·8			185
			0·822	105·9	102·3	−15·4			75
			0·948	105·8	85·6	−16·3			298
Jan. 10				(−2·0)	(157·2)	(−4·2)	(105	(589)	(2807)
10·483	AS, RF		0·913	284·1	208·2	+11·0			221
			0·890	238·2	204·8	−30·1			358
			0·833	271·8	200·2	− 0·9			97
			0·749	288·0	190·2	+10·4			257
			0·701	304·3	181·8	+19·8			107
		5774	0·569	60·9	113·5	+12·3	3	24	
		5774	0·582	63·0	112·2	+11·6	0	8	
G.		5775*a*	0·660	72·8	104·6	+ 8·0	62	300	
		5775	0·700	71·4	101·9	+ 9·7	0	5	
		5775*b*	0·694	75·1	101·7	+ 7·1	24	122	
		5775	0·743	74·2	97·9	+ 8·7	6	37	593*c*
		5775	0·754	71·4	97·5	+11·0	0	13	
		5777	0·800	70·9	93·5	+12·4	0	14	
			0·874	107·6	83·4	−17·5			302
			0·951	77·5	73·4	+10·5			597
Jan. 11				(−2·5)	(144·0)	(−4·3)	(95)	(523)	(2532)
11·256	FS, AS		0·936	240·6	202·5	−29·0			207
			0·911	279·2	198·5	+ 6·5			136
			0·845	291·5	188·4	+15·5			414
		5776	0·551	301·5	162·6	+12·8	0	4	
		5774	0·445	50·0	113·6	+12·4	2	17	
		5775*a*	0·525	65·9	105·0	+ 8·5	59	297	
M.		5775*b*	0·571	68·5	101·5	+ 8·4	12	149	
		5775	0·622	68·7	98·1	+ 9·5	0	9	
		5775	0·644	65·6	97·2	+11·9	0	4	182*c*
		5777	0·688	65·9	94·0	+12·9	3	15	
		5778*a*	0·991	71·2	53·8	+17·9	0	71	
			0·769	109·4	84·5	−17·7			316
			0·793	69·8	84·3	+13·0			173
			0·863	100·6	74·2	−11·4			136
1906.				°	°	°			
11·256	FS, AS		0·908	75·2	70·5	+11·5			711
			0·953	62·6	65·8	+24·4			192
M.			0·936	90·2	64·7	− 1·7			179
Jan. 12				(−2·9)	(133·9)	(−4·4)	(76)	(566)	(2646)
12·515	CL, RF		0·969	281·4	191·7	+ 9·9			191
			0·887	280·9	178·5	+ 7·5			171
			0·875	255·8	178·3	−14·6			70
			0·903	294·0	178·0	+19·3			205
			0·856	240·0	174·1	−27·9			170
			0·691	312·4	151·1	+24·0			343
		5776	0·747	291·2	162·7	+12·6	0	11	264*c*
		5776	0·723	292·8	160·3	+13·0	5	11	
		5774	0·292	13·9	113·2	+11·9	3	9	
		5779	0·373	45·6	101·6	+10·7	1	13	
		5779	0·399	44·0	100·9	+12·3	0	8	
		5775*a*	0·307	44·7	104·8	+ 8·2	53	268	
		5775	0·299	53·8	103·3	+ 5·8	0	8	
G.		5775*b*	0·328	53·2	102·0	+ 7·0	15	77	
		5775	0·363	49·1	101·2	+ 9·4	0	2	
		5775	0·356	51·3	101·1	+ 8·5	6	18	
		5775	0·361	57·7	99·5	+ 6·8	1	11	
		5777	0·482	53·9	93·9	+12·3	0	11	
		5777	0·490	56·6	92·7	+11·6	5	25	
		5777	0·513	54·4	92·0	+13·3	0	3	
		5778*a*	0·921	68·8	53·3	+17·5	12	60	370*f*
			0·662	115·0	77·9	−19·7			76
			0·791	127·5	69·9	−31·8			46
			0·819	75·6	64·1	+ 9·1			581
			0·896	57·9	59·8	+26·1			324
			0·917	111·6	51·0	−21·6			82
Jan. 13				(−3·5)	(117·3)	(−4·5)	(101)	(535)	(2893)
13·499	AS, RF		0·978	280·2	181·1	+ 8·9			120
			0·915	257·2	170·7	−13·6			119
			0·901	239·3	167·1	−29·6			143
		5776	0·854	288·5	160·4	+13·1	0	13	856*c*
		5776	0·832	286·1	158·5	+10·6	0	4	
		5774	0·351	323·8	116·5	+11·9	0	14	
		5774	0·315	331·5	113·1	+11·5	11	41	
G.		5775*a*	0·223	358·1	104·7	+ 8·2	57	281	
		5775*b*	0·207	10·7	102·1	+ 7·1	12	35	
		5779	0·294	10·5	101·2	+12·1	0	17	
		5775	0·235	15·2	100·7	+ 8·5	0	2	
		5775	0·226	19·2	100·0	+ 7·7	0	6	
		5779	0·294	15·7	99·7	+11·8	0	5	
		5779	0·268	17·6	99·6	+10·2	0	17	
		5777*	0·251	37·6	95·5	+ 6·9	0	14	

Group 5777, January 9–16. A few small unstable spots in a cluster *nf* Group 5775.
Group 5776, January 12–15. A few very small spots.
Group 5778, January 12–18. Return of Group 5762. A small regular spot *a* with occasionally a small companion.
Group 5779, January 13–20. One or two small unstable spots *n* of Group 5775. It is not seen on January 15, 17 or 19.
Group 5777*, January 14–15. One or two small unstable spots *s* of Group 5777.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
13·499	AS, RF	5777*	0·265	46·1	93·3	+ 6·0	0	2	
		5777	0·342	34·1	93·0	+11·9	3	19	
		5777	0·329	39·1	92·2	+10·2	0	10	
G.		5778*a*	0·822	64·4	53·3	+17·9	6	28	556*nf*
			0·724	75·7	59·5	+ 7·0			239
			0·910	49·8	48·1	+33·4			88
Jan. 14				(− 3·9)	(104·3)	(− 4·6)	(89	(508)	(2121)
14·448	CL, RF		0·955	241·1	164·6	−29·0			142
			0·873	306·8	144·6	+28·7			295
		5776	0·941	286·0	160·0	+13·3	0	7	596*c*
		5774	0·504	303·8	117·1	+12·0	1	9	
		5774	0·482	305·7	115·4	+12·0	0	3	
		5774	0·448	307·9	113·0	+11·6	0	10	
		5775*a*	0·312	315·1	104·7	+ 8·1	50	278	
		5775*b*	0·270	316·2	102·7	+ 6·6	4	28	
		5775	0·276	320·9	102·0	+ 7·7	6	11	
		5775	0·271	326·4	100·6	+ 8·4	0	3	
G.		5777*	0·229	345·5	95·2	+ 8·1	0	3	
		5777*	0·241	348·0	94·8	+ 8·9	0	3	
		5777*	0·194	347·4	94·3	+ 6·2	0	5	
		5777	0·293	354·5	93·5	+12·2	0	2	
		5777	0·285	357·6	92·6	+11·8	0	25	
		5778	0·697	57·5	53·8	+18·3	0	4	} 498*f*
		5778*a*	0·699	58·8	53·2	+17·5	5	13	
			0·675	73·1	51·4	+ 7·7			155
			0·789	47·7	50·4	+28·5			213
			0·958	74·3	20·5	+13·6			195
			0·964	107·9	16·8	−18·5			141
Jan. 15				(− 4·4)	(91·9)	(− 4·7)	(66)	(404)	(2235)
15·490	AS, RF		0·944	288·1	146·4	+15·3			221
			0·884	306·3	132·3	+28·8			386
			0·622	306·5	109·6	+17·5			73
		5774	0·650	294·3	115·2	+11·7	0	6	} 70*c*
		5774	0·616	294·1	112·9	+10·6	0	6	
		5775*a*	0·496	295·6	104·8	+ 8·1	52	250	
		5775*b*	0·453	296·0	102·2	+ 7·0	6	19	
G.		5775	0·417	294·9	100·3	+ 5·6	0	21	
		5775	0·413	302·2	98·7	+ 8·2	0	4	
		5779	0·468	305·2	101·0	+11·2	0	11	
		5777	0·385	316·0	93·9	+11·4	0	1	
		5778*a*	0·550	47·0	53·2	+17·6	3	8	59*f*
			0·923	57·1	17·1	+27·8			146
			0·884	104·6	15·9	−15·1			530
			0·908	73·5	15·1	+12·8			417
Jan. 16				(− 4·9)	(78·1)	(− 4·8)	(61)	(326)	(1902)
1906.				°	°	°			
16·473	CL, RF		0·865	287·1	122·6	+12·1			259
			0·905	307·1	121·7	+30·4			139
		5780	0·873	258·5	126·0	−12·4	0	18	39*c*
		5775*a*	0·669	287·9	105·0	+ 8·1	49	268	
		5775*b*	0·636	287·5	102·6	+ 7·1	0	3	
G.		5778*a*	0·429	27·6	53·1	+17·5	0	7	
		5778	0·458	27·9	52·1	+19·0	1	12	
			0·813	111·1	11·5	−20·0			146
			0·911	75·4	1·4	+11·1			186
			0·954	102·7	352·1	−13·6			196
Jan. 17				(− 5·4)	(65·1)	(− 4·9)	(50)	(308)	(965)
17·468	FS, M		0·955	258·4	125·2	−12·6			90
			0·925	284·9	117·7	+11·8			193
			0·900	275·8	115·5	+ 3·0			235
			0·834	262·3	108·6	− 9·2			178
		5775*a*	0·819	283·2	105·4	+ 7·8	40	237	297*f*
		5779	0·787	286·2	101·8	+ 9·5	1	4	} 440*c*
		5779	0·765	288·3	99·5	+10·6	0	14	
		5778	0·409	352·5	55·2	+18·8	0	3	
M.		5778	0·415	358·5	52·7	+19·5	0	5	
		5778	0·443	1·3	51·4	+21·2	0	7	
		5781	0·787	73·7	2·2	+ 9·5	0	10	
			0·806	70·8	1·0	+12·2			248
			0·897	62·7	353·1	+21·7			210
			0·894	82·5	349·5	+ 4·4			131
			0·903	108·3	347·4	−18·7			431
			0·931	93·2	343·4	− 4·8			240
Jan. 18				(− 5·8)	(52·0)	(− 5·0)	(41)	(280)	(2693)
18·497	AS, RF		0·919	259·5	105·6	−11·7			178
			0·753	255·2	87·1	−14·5			222
		5775*a*	0·927	281·0	105·1	+ 8·2	51	323	1199*c*
			0·762	106·4	349·3	−15·8			219
G.			0·864	59·4	344·7	+23·1			280
			0·888	117·0	336·8	−26·2			196
			0·918	101·8	331·6	−12·9			410
			0·971	74·1	324·4	+14·1			489
Jan. 19				(− 6·3)	(38·5)	(− 5·1)	(51)	(323)	(3193)
19·118	AS, RF		0·889	253·7	93·2	−16·9			269
			0·909	299·6	90·1	+24·1			142
			0·773	278·9	80·0	+ 3·5			226
K.			0·771	248·1	79·7	−20·1			194
			0·705	293·8	71·5	+12·6			413
			0·613	318·7	56·2	+22·7			288
		5775*a*	0·966	279·8	104·2	+ 8·1	38	260	98*sf*

Group 5780, January 17. One or two small spots.
Group 5781, January 18. A small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
19·118	AS, RF	5779	0·953	284·7	100·7	+12·3	0	26	641*c*
		5784	0·392	305·2	49·1	+ 8·1	0	3	
		5784	0·370	304·0	48·2	+ 7·0	0	3	
		5782	0·731	64·5	347·5	+14·5	4	16	83*c*
		5783	0·931	74·4	323·8	+12·5	0	5	824*c*
		5783	0·953	74·1	320·1	+13·4	0	19	
			0·752	115·2	343·2	−22·2			255
K.			0·808	67·1	340·1	+15·0			84
			0·878	132·3	333·7	−39·1			92
			0·897	58·8	332·6	+25·0			100
			0·862	102·8	330·6	−13·7			398
			0·887	92·2	327·8	− 4·4			111
			0·933	112·4	321·2	−22·8			299
			0·969	104·9	314·0	−15·7			116
Jan. 20				(−6·7)	(30·3)	(−5·2)	(42)	(332)	(4633)
20·243	FS, M		0·914	249·6	81·7	−20·8			374
			0·885	285·8	75·6	+11·3			788
			0·818	307·2	61·8	+26·0			289
			0·698	284·0	58·2	+ 5·9			110
			0·726	299·5	56·7	+16·9			186
			0·643	313·1	45·7	+21·4			109
		5785*a*	0·690	101·3	332·0	−11·6	7	24	
		5785	0·704	103·2	331·0	−13·1	0	4	199*c*
M.		5785*b*	0·726	100·5	329·0	−11·3	5	24	
		5783	0·809	70·1	324·5	+12·6	1	18	
		5783	0·834	68·9	322·3	+14·3	2	12	747*c*
		5783	0·843	70·4	321·0	+13·4	5	46	
		5786*a*	0·874	82·3	315·5	+ 4·1	0	14	148*f*
		5787	0·958	99·2	301·7	−10·3	0	17	360*c*
			0·841	111·6	318·9	−20·9			410
			0·939	74·0	307·8	+13·0			198
Jan. 21				(−7·1)	(15·5)	(−5·3)	(20)	(159)	(3918)
21·267	FS, M		0·909	248·0	67·4	−22·2			199
			0·897	284·5	63·9	+10·5			641
			0·871	268·7	62·7	− 3·8			328
			0·828	301·6	51·6	+22·3			595
			0·803	318·4	41·3	+32·8			148
		5785*a*	0·487	103·7	333·4	−11·3	24	179	
M.		5785	0·494	101·2	332·7	−10·1	3	15	189*c*
		5785	0·542	104·5	329·8	−12·3	8	35	
		5785*b*	0·556	102·2	328·6	−11·2	23	177	
		5783	0·638	63·9	326·4	+12·0	2	10	
		5783	0·662	64·6	324·5	+12·3	11	77	
		5783	0·688	65·7	322·3	+12·4	4	36	247*c*
		5783	0·716	64·4	320·5	+14·0	4	26	
1906.				°	°	°			
21·267	FS, M	5786*a*	0·722	78·9	317·0	+ 4·3	4	13	96*c*
		5786	0·771	77·8	313·0	+ 5·9	0	5	
		5787*a*	0·823	99·3	306·6	−10·7	0	16	301*c*
		5787	0·867	98·0	301·8	− 9·6	1	6	
		5788*a*	0·970	96·3	285·9	− 7·4	14	84	318*c*
M.			0·679	97·7	319·3	− 9·1			80
			0·722	111·7	317·0	−19·2			305
			0·871	60·5	307·2	+22·4			358
			0·848	81·3	305·1	+ 4·5			130
Jan. 22				(−7·6)	(2·1)	(−5·3)	(98)	(679)	(3935)
22·118	CL, RF		0·977	246·3	69·5	−24·3			125
			0·927	271·8	58·5	− 0·4			131
			0·931	282·2	57·8	+ 9·3			377
			0·871	294·9	47·0	+18·5			550
			0·881	308·6	43·4	+30·1			406
		5789	0·411	251·5	14·2	−12·4	0	2	
		5789	0·391	249·3	12·7	−13·0	0	6	
		5785*a*	0·299	111·1	334·3	−11·4	41	294	
		5785	0·339	112·2	332·1	−12·5	2	7	
		5785	0·357	108·3	330·7	−11·5	1	12	
		5785	0·379	113·3	329·9	−13·7	0	3	
		5785	0·372	107·5	329·7	−11·4	13	51	
		5785*b*	0·399	109·0	328·2	−12·4	53	254	
		5785	0·417	112·1	327·4	−14·0	0	1	
		5783	0·495	55·3	326·4	+11·4	13	64	
		5783	0·539	59·4	322·7	+11·1	0	2	
		5783	0·559	59·5	321·5	+11·7	4	18	150*c*
K.		5783	0·581	57·7	320·6	+13·4	2	8	
		5783	0·595	59·4	319·2	+13·0	3	11	
		5786*a*	0·585	75·7	316·3	+ 3·9	3	15	
		5787*a*	0·686	101·0	307·6	−11·5	8	23	
		5787	0·719	100·2	304·8	−11·1	3	8	
		5787	0·729	98·9	304·0	−10·2	0	7	
		5787	0·737	95·4	303·2	− 7·7	0	1	254*c*
		5787	0·751	101·1	302·1	−11·9	0	4	
		5787	0·764	99·2	300·9	−10·5	0	7	
		5790*a*	0·818	67·0	299·7	+15·3	0	9	
		5790	0·826	68·2	298·6	+14·6	0	8	161*c*
		5790	0·849	69·9	295·8	+13·9	5	17	
		5790*b*	0·858	69·1	295·0	+14·8	14	34	
		5788*a*	0·903	96·5	286·0	− 8·2	15	86	582*c*
			0·705	54·3	313·4	+20·0			175
			0·858	54·6	299·6	+26·4			403
			0·832	124·9	297·6	−31·8			62
			0·961	114·7	276·3	−25·2			150
Jan. 23				(−8·0)	(350·8)	(−5·4)	(180)	(952)	(3526)

Group 5782, January 20. A small spot.
Group 5783, January 20–29. Return of Group 5767. A number of small spots in a long straggling stream. *a*, the leader, a small regular spot, alone remains after January 26.
Group 5784, January 20. A pair of very small spots.
Group 5785, January 21–30. A very fine stream, consisting chiefly of *a* and *b*, two very large composite spots of elliptical shape. The group develops very rapidly, and diminishes again nearly as fast.
Group 5786, January 21–24. A small spot, *a*, usually followed by a small companion.
Group 5787, January 21–29. A few small spots, in a short stream *f* Group 5785. The leader, *a*, is a small regular spot, and alone remains on January 26.
Group 5788, January 22–February 2. Return of Group 5766. A regular spot, *a*, slowly closing up after January 30. A few very small companions are seen on January 25.
Group 5789, January 23. Two very small spots.
Group 5790, January 23–February 1. A few spots in an irregular straggling stream. Two spots, *a* and *b*, are larger and more stable than the rest. The leader, *a*, has become a well-marked regular spot by January 28, whilst the rest of the group has disappeared by January 30.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
23·307	FS, M		0·964	281·3	48·4	+ 9·3			128
			0·947	297·5	41·7	+23·8			500
			0·909	242·3	40·1	−27·4			176
		5785	0·113	214·0	339·0	−10·9	0	4	
		5785*a*	0·095	188·1	336·1	−10·9	60	382	
		5785	0·110	163·9	333·5	−11·6	1	9	
		5785	0·115	152·5	332·2	−11·3	0	4	
		5785	0·179	147·9	329·7	−14·1	0	9	
		5785*b*	0·168	135·9	328·5	−12·4	33	401	
		5785	0·145	126·3	328·5	−10·4	2	11	
		5783*a*	0·311	14·9	330·6	+12·0	6	29	
		5783	0·323	23·7	327·7	+11·7	7	64	
		5783	0·353	29·3	325·2	+12·4	0	11	
		5783	0·374	33·7	323·1	+12·7	0	8	
		5783	0·391	37·1	321·4	+12·8	3	18	
M.		5783	0·413	37·9	320·2	+13·7	0	10	
		5786*a*	0·358	61·1	317·1	+ 4·7	1	3	
		5787*a*	0·456	103·9	308·6	−11·2	7	24	
		5787	0·484	101·3	306·6	−10·3	2	15	
		5787	0·541	99·6	302·7	− 9·8	0	7	
		5790*a*	0·675	58·4	298·6	+16·3	0	15	
		5790	0·682	61·4	297·2	+14·7	3	15	} 151*c*
		5790*b*	0·714	60·9	294·9	+16·2	11	58	
		5788*a*	0·755	94·8	286·2	− 7·3	17	96	403*f*
			0·828	81·1	280·4	+ 4·2			96
			0·900	58·5	277·5	+25·2			190
			0·875	113·0	274·7	−22·8			182
			0·914	123·9	270·8	−33·0			157
			0·903	94·2	270·6	− 6·2			170
			0·972	79·9	260·2	+ 8·4			247
Jan. 24				(−8·5)	(335·3)	(−5·5)	(153)	(1193)	(2400)
24·118	AS, RF		0·915	250·9	30·9	−19·7			92
			0·936	301·3	27·8	+26·6			160
			0·890	263·9	27·6	− 8·0			103
			0·853	310·0	13·1	+29·6			65
			0·754	247·4	12·3	−20·6			75
			0·747	293·5	9·1	+13·4			291
		5785	0·266	250·9	339·2	−10·4	0	4	
		5785*a*	0·227	244·8	336·5	−11·0	74	398	
K.		5785	0·190	246·6	334·6	− 9·9	0	2	
		5785	0·188	240·5	334·0	−10·9	3	13	
		5785	0·173	238·4	333·1	−10·7	0	2	
		5785	0·190	225·8	332·5	−13·1	0	2	
		5785	0·164	228·8	331·7	−11·7	4	26	
		5785*b*	0·138	206·7	328·1	−12·7	40	298	
		5785	0·158	194·1	326·8	−14·4	0	11	
		5783*a*	0·306	339·3	330·8	+11·0	6	41	
		5783	0·324	349·7	327·9	+13·0	0	3	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
24·118	AS, RF	5783	0·345	351·3	327·6	+14·3	0	12	
		5783	0·296	353·2	326·5	+11·4	5	57	
		5783	0·318	1·9	323·9	+12·8	0	5	
		5783	0·346	9·1	321·3	+14·3	0	13	
		5783	0·312	12·3	320·6	+12·1	3	11	
		5783	0·332	14·4	319·7	+13·1	1	7	
		5787*a*	0·290	113·1	308·8	−11·9	6	31	
		5787	0·304	107·3	307·4	−10·6	0	16	
		5787	0·379	105·0	302·7	−10·8	0	7	
		5790	0·524	48·0	300·8	+15·4	0	19	
		5790*a*	0·537	49·8	299·4	+15·2	8	42	
K.		5790*b*	0·577	53·5	295·9	+15·1	17	106	
		5788*a*	0·620	95·9	286·1	− 8·1	19	102	
		5788	0·647	95·7	284·1	− 8·0	0	3	} 128*c*
		5788	0·653	89·9	283·8	− 4·2	0	9	
		5788	0·655	93·9	283·5	− 6·8	0	5	
			0·821	119·0	271·1	−26·8			87
			0·868	59·0	270·6	+23·3			119
			0·823	96·7	269·0	− 8·7			165
			0·899	81·7	261·5	+ 5·0			135
			0·964	53·5	257·2	+33·0			92
			0·953	73·9	254·4	+13·5			258
Jan. 25				(−8·9)	(324·5)	(−5·6)	(186)	(1245)	(1770)
25·490	CL, AS		0·914	255·7	12·9	−15·4			229
			0·897	284·6	8·1	+10·4			245
			0·849	297·3	359·4	+19·5			133
		5792	0·833	248·3	2·3	−21·2	0	20	330*p*
		5785*a*	0·514	258·3	337·1	−10·9	52	389	
		5785	0·479	257·2	334·7	−11·1	1	7	
		5785	0·464	259·5	333·9	− 9·9	0	13	
		5785	0·456	256·3	333·1	−11·3	0	5	
		5785	0·421	253·1	330·6	−12·2	5	51	
		5785	0·397	252·9	329·1	−12·0	0	5	
		5785*b*	0·378	250·0	327·7	−12·7	25	202	
		5783*a*	0·506	303·1	331·9	+10·9	5	32	
G.		5783	0·482	306·8	329·5	+11·5	0	9	
		5783	0·460	308·7	327·8	+11·4	3	22	
		5783	0·454	312·0	326·5	+12·3	0	41	
		5783	0·418	306·4	326·2	+ 9·0	0	5	
		5783	0·410	315·8	323·3	+11·6	0	6	
		5783	0·428	322·9	321·8	+14·4	0	14	
		5783	0·374	324·7	319·1	+12·1	0	7	
		5787*a*	0·118	205·3	309·3	−11·9	7	36	
		5790*a*	0·373	10·8	302·3	+15·7	22	66	
		5790	0·390	24·8	296·7	+15·0	2	16	
		5790	0·418	27·6	294·8	+16·1	2	21	
		5788*a*	0·336	97·0	286·8	− 7·8	14	102	

Group 5791, January 26–February 6. A group of striking appearance, consisting of three principal spots, *a*, *b*, and *c*, with a number of smaller attendants, not drawn out into a stream of the usual form, but scattered over a wide area.
Group 5792, January 26. A small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
25·490	CL, AS	5791*a*	0·953	68·6	237·5	+18·3	13	93	
		5791*b*	0·960	71·7	235·3	+15·8	44	243	
		5791	0·967	70·2	234·1	+17·5	9	140	656*c*
		5791*c*	0·981	69·5	230·5	+18·8	29	387	
G.		5791	0·986	71·8	228·6	+16·8	3	106	
			0·823	47·4	262·3	+29·8			70
			0·804	71·1	255·7	+11·5			158
			0·866	113·0	246·9	−22·7			328
			0·937	87·0	237·3	+ 0·8			64
Jan. 26				(−9·5)	(306·4)	(−5·7)	(236)	(2038)	(2213)
26·543	CL, RF		0·925	249·4	0·6	−21·2			74
			0·905	261·7	357·8	−10·0			192
			0·926	288·5	357·6	+14·7			371
			0·793	251·6	344·7	−18·1			284
			0·865	306·2	344·1	+27·1			225
		5785*a*	0·696	260·7	336·8	−10·7	40	363	
		5785	0·662	262·2	334·1	− 9·5	5	46	110*c*
		5785	0·657	259·9	333·6	−11·0	2	14	
		5785	0·615	259·0	330·4	−11·3	0	13	
		5785*b*	0·573	256·4	327·2	−12·6	15	198	
		5783*a*	0·674	293·5	331·5	+11·1	6	23	237*c*
		5787*a*	0·300	249·5	309·2	−11·6	5	21	
		5787	0·225	250·3	305·0	−10·0	0	2	
G.		5793	0·199	224·6	300·8	−13·8	0	12	
		5790*a*	0·393	334·0	302·8	+14·9	16	123	
		5790	0·362	340·4	299·8	+14·1	0	13	
		5790	0·378	355·4	294·4	+16·2	0	14	
		5788*a*	0·108	105·1	286·6	− 7·4	13	103	
		5791*a*	0·866	64·4	237·2	+18·7	12	111	
		5791*b*	0·873	68·4	235·4	+15·6	32	256	
		5791	0·893	66·4	233·4	+18·0	10	155	
		5791*c*	0·919	66·4	229·8	+19·0	47	276	904*c*
		5791	0·927	69·0	228·0	+17·0	0	57	
		5791	0·944	69·8	225·0	+16·9	0	14	
			0·732	64·7	249·8	+14·0			175
			0·896	127·6	231·5	−36·0			108
			0·915	113·4	226·3	−23·7			167
Jan. 27				(−9·9)	(292·6)	(−5·8)	(203)	(1814)	(2847)
27·122	CL, AS		0·938	284·7	352·6	+11·6			184
K.			0·912	253·7	351·2	−17·2			288
			0·849	240·9	341·7	−27·7			178
			0·696	245·3	327·5	−21·2			138
1906.				°	°	°			
27·122	CL, AS	5785*a*	0·782	261·1	336·6	−10·6	29	251	
		5785	0·765	262·4	335·1	− 9·5	2	5	
		5785	0·748	261·7	333·5	−10·0	9	72	
		5785	0·707	260·3	330·0	−11·0	0	6	540*c*
		5785	0·684	257·6	328·0	−12·7	8	53	
		5785*b*	0·670	258·2	327·0	−12·2	18	107	
		5783	0·759	290·4	331·3	+11·3	3	14	
		5783	0·704	295·0	325·7	+12·9	0	8	412*c*
		5783	0·670	301·2	321·4	+15·6	0	9	
		5787*a*	0·421	255·6	309·5	−11·3	7	15	
		5790*a*	0·463	319·1	303·2	+14·9	20	128	
		5790	0·417	324·7	299·3	+14·2	0	2	
		5790	0·434	329·7	298·1	+16·3	0	8	
		5790	0·409	336·6	294·7	+16·3	0	2	
		5788*a*	0·040	223·0	286·6	− 7·5	13	86	
K.		5791	0·796	63·5	237·1	+16·9	0	14	
		5791*a*	0·802	61·9	237·0	+18·3	16	111	
		5791	0·815	63·8	235·2	+17·4	0	12	
		5791*b*	0·808	66·1	235·2	+15·4	35	267	
		5791	0·824	64·8	234·0	+16·9	11	56	
		5791	0·831	63·3	233·7	+18·3	6	48	768*c*
		5791	0·825	65·9	233·6	+16·1	0	7	
		5791	0·842	64·8	232·2	+17·5	0	29	
		5791*c*	0·865	64·5	229·7	+18·6	30	248	
		5791	0·876	67·3	227·7	+16·7	0	41	
		5791	0·891	66·1	226·1	+18·2	0	82	
			0·917	131·8	221·4	−40·4			259
			0·935	113·2	215·4	−23·7			277
			0·954	77·7	214·1	+ 9·9			212
			0·960	100·3	210·6	−11·6			192
Jan. 28				(−10·1)	(285·0)	(−5·8)	(207)	(1681)	(3448)
28·495	AS, RF		0·976	253·0	345·4	−17·9			120
			0·951	245·4	339·5	−25·2			154
			0·957	276·9	339·1	+ 4·8			87
			0·818	243·7	320·6	−24·8			296
			0·769	274·0	316·8	− 0·8			150
		5785*a*	0·929	261·0	335·6	−10·5	44	418	
		5785	0·893	260·5	330·5	−11·1	0	5	655*c*
		5785*b*	0·872	258·8	327·9	−12·7	13	139	
G.		5783*a*	0·919	285·1	331·5	+11·4	0	11	759*f*
		5787*a*	0·683	259·5	310·0	−11·4	1	12	117*c*
		5790*a*	0·676	299·9	304·1	+15·0	16	98	
		5790	0·661	300·5	302·9	+14·9	0	9	
		5790	0·630	302·3	300·2	+14·7	0	9	
		5790	0·621	306·1	298·3	+16·4	0	10	161*c*
		5790	0·621	309·0	297·2	+17·8	0	6	
		5790	0·592	304·0	297·2	+14·2	0	1	
		5790	0·571	310·4	293·7	+16·4	0	8	

Group 5793, January 27. A small faint spot, *sf* Group 5787.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
28·495	AS, RF	5788*a*	0·341	265·0	286·8	− 7·3	16	96	
		5791*a*	0·617	49·5	237·4	+18·4	22	104	
		5791	0·602	51·9	237·4	+16·6	0	3	
		5791*b*	0·617	55·1	235·3	+15·6	51	249	
		5791	0·649	50·8	234·8	+19·2	0	2	
		5791	0·638	53·0	234·7	+17·6	9	84	572*c*
		5791	0·655	54·7	233·0	+17·3	0	18	
		5791*c*	0·700	55·0	229·7	+18·9	45	225	
		5791	0·697	58·9	228·5	+16·5	3	24	
G.		5791	0·733	65·5	223·8	+13·4	0	9	
			0·857	48·6	218·7	+30·6			115
			0·919	39·0	216·0	+41·9			278
			0·863	116·1	208·0	−25·4			390
			0·909	61·4	207·0	+22·9			169
			0·934	56·1	205·0	+28·7			86
			0·888	98·6	203·9	−10·4			196
			0·947	74·9	197·8	+12·3			323
Jan. 29				(−10·8)	(266·9)	(−5·9)	(220)	(1540)	(4628)
29·449	CL, RF		0·928	290·0	319·3	+16·0			587
			0·893	272·3	317·3	− 0·7			195
			0·874	245·7	314·9	−24·1			452
			0·929	319·5	307·9	+41·5			98
			0·760	259·9	304·0	−11·6			296
			0·807	310·9	297·7	+27·5			144
		5785*a*	0·986	260·3	335·5	−10·6	33	259	
		5785	0·965	260·0	329·9	−11·2	0	128	444*c*
		5785*b*	0·955	259·2	327·8	−12·1	9	95	
		5790*a*	0·817	293·3	305·2	+15·1	14	70	248*f*
		5788*a*	0·545	266·3	287·5	− 7·1	12	105	57*c*
		5791	0·464	33·3	239·0	+16·9	0	1	
		5791*a*	0·485	32·3	238·6	+18·3	11	75	
		5791	0·433	40·1	237·8	+13·6	0	4	
G.		5791	0·453	40·7	236·7	+14·3	0	7	
		5791	0·504	37·2	235·8	+18·0	3	13	
		5791*b*	0·485	40·1	235·5	+16·0	47	335	
		5791	0·509	40·9	234·1	+16·9	1	9	
		5791	0·514	41·2	233·7	+17·1	2	19	
		5791*c*	0·565	43·2	230·4	+18·8	29	217	
		5791	0·558	48·3	228·8	+16·3	0	12	
		5791	0·553	51·7	227·9	+14·6	3	28	
		5791	0·614	51·7	224·3	+17·1	0	4	
			0·765	123·6	207·7	−29·2			255
			0·768	99·9	204·1	−11·4			154
			0·890	74·1	193·8	+11·2			358
			0·922	92·5	187·1	− 4·7			72
			0·929	108·5	185·6	−19·4			68
Jan. 30				(−11·2)	(254·4)	(−6·0)	(164)	(1381)	(3428)
1906.				°	°	°			
30·290	FS, M		0·964	250·1	318·9	−20·8			348
			0·973	288·6	317·2	+16·5			389
			0·883	258·5	305·7	−13·0			345
		5790*a*	0·910	289·7	305·7	+15·1	14	42	398*f*
		5788*a*	0·703	266·5	288·1	− 6·9	14	78	116*s*
		5794*a*	0·343	319·7	256·2	+ 9·2	3	12	
		5794	0·337	329·0	253·4	+10·7	2	8	
		5795	0·490	13·8	236·1	+22·2	0	5	
		5791*a*	0·433	10·4	238·6	+19·0	15	65	
		5791*b*	0·413	18·8	235·3	+16·9	42	267	
M.		5791	0·384	25·0	233·7	+14·3	2	6	
		5791	0·438	22·0	233·4	+17·8	0	4	
		5791	0·449	25·8	231·5	+17·8	0	4	
		5791	0·404	29·6	231·4	+14·6	0	1	
		5791*c*	0·483	26·6	230·1	+19·6	42	186	
		5791	0·453	33·3	228·3	+16·3	3	9	
		5791	0·479	35·6	226·4	+17·1	1	5	
		5791	0·466	37·6	226·2	+15·8	2	14	
			0·777	70·4	195·3	+11·0			211
			0·908	71·5	180·9	+14·0			396
			0·935	91·9	174·0	− 4·0			138
Jan. 31				(−11·5)	(243·3)	(−6·1)	(140)	(706)	(2341)
31·309	FS, M		0·948	257·0	302·0	−14·3			169
		5790*a*	0·978	286·7	305·4	+14·9	7	21	426*nf*
		5788*a*	0·848	265·9	288·0	− 6·7	12	90	270*s*
		5794*a*	0·516	296·5	257·5	+ 7·9	10	44	
		5794	0·483	304·6	253·5	+10·3	5	16	
		5795	0·489	346·9	236·7	+22·3	0	10	
		5791*a*	0·444	340·6	238·7	+18·7	9	53	
		5791	0·418	342·7	237·3	+17·4	3	27	
		5791	0·381	341·2	237·1	+15·0	0	12	
		5791*b*	0·393	346·0	235·5	+16·3	56	255	
		5791	0·441	347·9	235·4	+19·4	0	6	
M.		5791	0·412	349·9	234·1	+17·8	0	6	
		5791	0·355	348·7	233·9	+14·3	0	2	
		5791	0·394	354·6	232·0	+16·9	1	4	
		5791*c*	0·431	359·8	229·9	+19·3	33	189	
		5791	0·368	4·5	228·1	+15·3	3	10	
		5791	0·450	7·0	226·5	+20·3	0	6	
		5791	0·398	8·8	226·2	+16·9	2	16	
		5791	0·374	10·4	225·8	+15·4	2	7	
			0·817	57·3	182·1	+22·1			119
			0·923	71·0	165·4	+14·9			368
			0·921	121·6	163·2	−31·4			188
Feb. 1				(−11·9)	(229·8)	(−6·1)	(143)	(774)	(1540)

Group 5794, January 31–February 4. A small spot, *a*, followed by one or two distant attendants. The group lies *sp* Group 5791.
Group 5795, January 31–February 1. A cluster of very small spots, *n* of Group 5791.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
32·412	FS, M		0·860	243·6	273·9	−25·7			134
		5788*a*	0·955	264·6	288·5	− 7·0	12	31	245*f*
		5794*a*	0·705	285·5	258·3	+ 6·3	11	60	329*c*
		5794	0·658	293·5	253·1	+10·3	0	3	
		5791*a*	0·558	316·4	239·2	+18·1	9	47	
		5791	0·529	314·2	238·5	+15·9	6	21	
		5791	0·490	311·5	237·5	+13·2	0	3	
		5791	0·497	314·0	237·0	+14·4	0	9	
		5791	0·546	320·7	236·8	+19·2	0	6	
		5791*b*	0·498	317·2	235·9	+15·6	43	192	
M.		5791	0·504	320·8	234·8	+17·1	2	15	
		5791	0·456	318·0	233·6	+13·9	0	3	
		5791	0·483	324·4	232·4	+17·1	2	12	
		5791*c*	0·485	330·2	230·1	+18·8	28	150	
		5791	0·418	326·5	229·1	+14·3	0	2	
		5791	0·420	332·9	226·8	+15·8	1	18	
		5796	0·352	263·0	236·0	− 8·2	0	4	
			0·722	64·7	173·4	+13·4			128
			0·893	63·9	157·0	+20·0			403
			0·972	104·1	138·1	−15·1			186
Feb. 2				(−12·4)	(215·4)	(−6·2)	(114)	(576)	(1425)
33·138	FS, AS		0·937	263·9	275·7	− 8·0			381
			0·905	246·0	270·7	−24·3			220
			0·911	294·7	266·9	+19·4			167
			0·932	305·1	266·8	+29·5			176
			0·803	235·1	256·1	−31·4			133
			0·730	298·5	247·4	+15·7			394
		5794*a*	0·804	282·7	257·7	+ 6·3	14	90	311*c*
		5791*a*	0·647	308·1	238·1	+18·1	4	37	
		5791	0·626	306·1	237·5	+16·2	0	8	
		5791	0·613	306·8	236·4	+16·1	5	29	
		5791	0·597	304·1	236·3	+14·1	0	11	
		5791*b*	0·589	307·5	234·7	+15·4	29	138	
K.		5791	0·595	308·9	234·5	+16·4	0	11	
		5791	0·590	311·0	233·5	+17·1	2	20	
		5791	0·557	305·9	233·3	+13·4	0	2	305*c*
		5791	0·571	312·5	231·8	+17·0	4	50	
		5791*c*	0·559	318·2	228·9	+18·8	19	126	
		5791	0·499	314·6	227·3	+14·6	0	7	
		5791	0·516	317·7	226·9	+16·5	0	5	
		5791	0·503	317·4	226·4	+15·8	0	35	
		5791	0·477	318·4	224·9	+14·9	0	10	
			0·782	56·8	161·5	+20·8			413
			0·917	46·4	151·1	+35·7			309
			0·917	62·7	144·6	+21·9			358
			0·893	104·3	142·1	−15·6			363
			0·960	78·6	133·7	+ 9·1			263
Feb. 3				(−12·7)	(205·8)	(−6·3)	(77)	(579)	(3793)
1906.				°	°	°			
34·494	AS, RF		0·947	254·6	259·9	−16·6			67
			0·898	238·9	251·0	−30·6			193
			0·914	289·4	250·8	+14·8			306
		5794*a*	0·951	278·6	258·7	+ 6·1	5	56	162*c*
		5791*a*	0·825	297·4	238·2	+18·3	4	16	
		5791	0·806	293·5	237·6	+14·7	0	6	
		5791	0·814	297·9	237·0	+18·3	0	8	
		5791	0·804	295·4	236·8	+16·0	0	15	
		5791	0·792	293·2	236·3	+14·0	0	30	496*c*
		5791*b*	0·784	295·6	234·9	+15·4	10	66	
G.		5791	0·803	302·2	234·4	+20·9	0	9	
		5791	0·761	299·6	231·7	+17·5	0	7	
		5791*c*	0·741	303·1	228·8	+19·0	23	104	
		5797	0·563	109·5	154·5	−16·2	0	10	
		5798*a*	0·993	80·7	105·9	+ 8·4	54	278	353*p*
			0·763	119·3	140·2	−26·2			74
			0·767	104·4	137·8	−15·1			317
			0·887	57·1	132·7	+25·2			239
			0·899	72·6	126·6	+12·6			271
			0·912	87·8	122·4	− 0·7			151
Feb. 4				(−13·2)	(187·9)	(−6·4)	(96)	(605)	(2629)
35·546	CL, RF		0·980	285·3	250·4	+13·6			240
			0·884	313·5	224·1	+33·4			121
		5791	0·914	288·9	237·1	+14·4	5	65	
		5791*b*	0·903	290·9	235·1	+15·7	0	54	807*c*
		5791*c*	0·867	296·1	229·2	+18·8	10	54	
		5791	0·860	297·3	228·1	+19·5	0	9	
		5796	0·873	264·9	235·2	− 7·6	0	31	
G.		5798*a*	0·932	78·2	107·0	+ 8·5	31	186	572*c*
		5800	0·944	95·8	103·0	− 7·6	0	13	237*c*
		5800	0·946	95·2	102·7	− 7·0	0	19	
			0·894	53·3	119·5	+28·7			321
			0·902	66·8	113·8	+17·7			229
			0·964	107·1	98·6	−18·1			112
Feb. 5				(−13·6)	(174·1)	(−6·4)	(46)	(431)	(2639)
36·214	FS, M		0·921	280·1	231·0	+ 6·7			88
		5791*b*	0·955	288·5	235·1	+15·5	0	16	1113*c*
		5791*c*	0·929	292·9	229·6	+18·5	12	58	
		5799	0·645	234·2	201·2	−27·3	0	3	
		5799*a*	0·620	233·4	199·1	−27·0	3	9	
		5799*	0·533	110·6	134·1	−16·3	1	3	
M.		5798*a*	0·865	75·7	107·4	+ 9·0	27	167	711*c*
		5800	0·878	94·9	103·6	− 7·4	0	12	272*c*
		5800	0·904	97·2	100·2	− 9·2	0	5	
			0·735	41·5	131·9	+28·0			153
			0·884	51·7	112·7	+29·4			252
			0·942	110·2	94·1	−21·2			233
Feb. 6				(−13·9)	(165·3)	(−6·4)	(43)	(273)	(2822)

Group 5796, February 2–5. A small spot, not seen on February 3 or 4.
Group 5797, February 4. A small spot.
Group 5798, February 4–15. Return of Group 5775. Third and last appearance. A large regular spot, *a*. A number of small spots have broken out by February 8 on all sides of *a*, but principally on the south, where they form by February 9 an unstable stream, the largest and most stable member of which, *b*, is immediately south of *a*. A small spot, *c*, has formed to the rear of *a* by February 11.
Group 5800, February 5–7. Two or three small spots.
Group 5799, February 6. A small regular spot, *a*, with a very small companion.
Group 5799*, February 6. Two very small faint spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
37·508	AS, RF		0·982	290·3	224·1	+18·4			368
			0·943	279·8	217·4	+ 7·0			136
			0·818	283·7	201·3	+ 7·3			138
			0·777	297·2	194·1	+16·3			180
		5791*	0·899	278·9	211·1	+ 5·1	0	19	
		5798*a*	0·694	70·1	107·0	+ 8·8	26	169	473*n*
G.		5800	0·695	94·2	104·0	− 7·6	0	12	254*c*
			0·831	74·1	94·3	+ 9·4			398
			0·884	110·4	85·8	−21·1			352
			0·934	92·8	79·0	− 5·0			253
			0·950	74·8	78·7	+12·2			397
Feb. 7				(−14·4)	(148·2)	(− 6·5)	(26)	(200)	(2949)
38·128	CL, RF		0·967	249·2	216·6	−21·8			52
			0·965	279·7	213·5	+ 7·5			116
			0·895	259·2	204·1	−12·6			144
			0·940	307·9	201·2	+32·2			45
			0·876	238·8	200·2	−30·4			231
			0·861	282·5	197·8	+ 7·3			98
			0·816	294·9	190·2	+15·9			214
		5798	0·594	53·1	110·7	+15·1	0	8	
		5798	0·602	55·6	109·4	+14·2	0	4	
		5798	0·576	69·4	107·4	+ 6·2	0	2	
		5798*a*	0·593	65·5	107·2	+ 8·6	28	154	
		5798	0·596	68·9	106·2	+ 6·9	0	3	
K.		5798	0·631	60·8	105·9	+12·5	0	3	
		5798	0·626	62·7	105·7	+11·2	0	5	
		5798*	0·676	48·9	107·2	+20·8	0	2	} 53*c*
		5798*	0·691	48·0	106·6	+22·0	0	3	
			0·722	109·5	94·4	−18·6			29
			0·778	67·1	92·9	+13·1			314
			0·779	102·6	88·7	−13·9			99
			0·944	43·6	82·3	+39·8			150
			0·882	112·5	78·0	−23·0			158
			0·907	72·8	77·7	+12·6			482
			0·955	98·8	66·7	−10·4			174
			0·981	82·4	62·3	+ 6·1			113
Feb. 8				(−14·7)	(140·1)	(− 6·6)	(28)	(184)	(2472)
39·438	FS, M		0·977	254·4	201·7	−16·6			250
			0·951	240·3	195·4	−30·2			269
			0·930	270·2	191·1	− 2·3			93
			0·931	289·5	188·1	+15·4			375
M.			0·848	261·9	181·1	−10·3			167
			0·764	288·4	169·9	+ 9·5			107
		5798	0·335	41·5	109·9	+ 8·1	5	24	
		5798*b*	0·359	49·0	107·0	+ 7·3	15	63	
		5798*a*	0·385	45·0	106·8	+ 9·4	27	165	
1906.				°	°	°			
39·438	FS, M		0·774	67·7	75·8	+12·6			279
			0·818	96·6	67·6	− 9·2			128
M.			0·927	63·9	59·8	+21·1			144
			0·933	78·1	55·6	+ 8·6			530
Feb. 9				(−15·2)	(122·8)	(− 6·6)	(47)	(252)	(2342)
40·201	FS, M		0·899	287·5	173·9	+12·5			235
		5798	0·251	4·4	111·6	+ 7·7	0	14	
		5798	0·250	10·7	110·0	+ 7·5	2	11	
		5798	0·255	15·4	108·8	+ 7·5	2	11	
		5798*a*	0·293	18·7	107·3	+ 9·3	17	113	
M.		5798*b*	0·263	23·7	106·6	+ 7·2	6	61	
		5798	0·310	26·3	104·7	+ 9·5	0	3	
			0·704	79·0	69·1	+ 2·9			98
			0·863	59·3	59·6	+22·2			171
			0·871	77·9	53·8	+ 7·1			710
			0·945	65·3	46·3	+20·7			165
Feb. 10				(−15·5)	(112·7)	(− 6·7)	(27)	(213)	(1379)
41·462	CL, RF		0·957	281·7	167·6	+ 9·1			155
			0·876	298·8	151·4	+21·2			364
			0·894	312·4	148·0	+33·0			20
			0·876	320·2	141·1	+37·6			88
			0·743	312·2	133·3	+24·6			139
		5798	0·346	311·0	111·4	+ 6·6	1	10	
		5798	0·348	315·1	110·5	+ 7·8	0	2	
		5798	0·331	317·2	109·3	+ 7·5	0	15	
		5798*a*	0·326	325·7	106·9	+ 9·0	19	125	
G.		5798	0·353	329·8	106·6	+11·1	0	5	
		5798*b*	0·293	324·5	106·0	+ 7·1	6	51	
		5798	0·353	332·7	105·7	+11·6	0	5	
		5798*c*	0·297	330·9	104·6	+ 8·4	1	14	
		5801	0·387	341·3	103·5	+14·7	0	7	
		5801	0·404	343·2	103·1	+16·0	0	4	
			0·716	71·7	53·0	+ 8·1			139
			0·879	57·9	41·8	+24·0			250
			0·868	109·4	35·8	−20·1			57
			0·913	70·8	33·4	+14·5			56
Feb. 11				(−15·9)	(96·2)	(− 6·7)	(27)	(238)	(1268)
42·391	FS, M		0·925	286·0	149·1	+12·0			130
			0·938	295·4	148·9	+21·0			134
M.			0·867	305·5	135·6	+26·1			187
		5798*a*	0·475	303·0	107·6	+ 8·8	17	86	
		5798*b*	0·454	300·0	107·1	+ 7·0	2	31	

Group 5791*, February 7. A small spot, *s*f Group 5791, and seen only when close to the west limb.
Group 5798*, February 8. Two very small spots, *n* of Group 5798.
Group 5801, February 11–15. One or two small unstable spots, *n* of Group 5798. The group is not seen on February 13.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
42·391	FS, M	5798*c*	0·434	304·2	105·0	+ 7·8	0	4	
		5801	0·522	317·1	105·5	+16·2	0	8	
M.			0·904	51·3	28·9	+30·7			253
			0·940	71·5	16·8	+14·9			144
Feb. 12				(−16·3)	(83·9)	(− 6·7)	(19)	(129)	(848)
43·474	AS, RF		0·934	300·9	132·1	+25·6			150
			0·844	253·4	127·5	−17·7			148
			0·854	283·7	126·3	+ 8·0			164
			0·892	313·5	120·5	+33·7			75
			0·734	303·7	109·6	+18·8			235
			0·621	253·7	107·6	−15·4			94
		5798†	0·955	291·7	138·5	+18·3	0	65	138*c*
G.		5798*b*	0·644	290·1	107·0	+ 7·4	0	19	
		5798*a*	0·645	292·6	106·5	+ 8·9	11	64	216*c*
		5798*c*	0·627	292·0	105·4	+ 8·1	0	18	
			0·908	63·8	9·5	+20·3			163
			0·892	76·3	8·5	+ 8·9			151
			0·899	108·9	5·0	−20·0			246
			0·965	99·1	354·0	−10·6			128
Feb. 13				(−16·6)	(69·6)	(− 6·8)	(11)	(166)	(1908)
44·475	CL, RF		0·936	256·6	126·6	−14·9			157
			0·958	301·9	123·2	+27·9			102
			0·931	291·1	121·3	+16·8			56
		5798†	0·994	291·0	137·0	+19·9	0	55	96*c*
		5798*b*	0·801	285·0	107·5	+ 7·7	0	8	
G.		5798*a*	0·797	286·9	106·8	+ 9·1	7	44	
		5798*c*	0·782	285·7	105·7	+ 7·8	0	5	411*c*
		5801	0·795	292·1	105·3	+13·0	0	13	
		5801	0·777	290·9	104·0	+11·5	0	4	
		5802*a*	0·971	99·1	339·6	−10·4	30	181	339*sf*
			0·969	73·8	343·3	+13·8			127
Feb. 14				(−17·0)	(56·4)	(− 6·8)	(37)	(310)	(1288)
45·122	CL, RF		0·968	284·6	121·2	+12·2			98
			0·932	276·1	115·9	+ 3·1			143
			0·864	261·2	108·3	−11·1			296
			0·770	292·1	94·7	+12·1			277
K.		5798*b*	0·880	282·0	107·9	+ 7·1	2	12	508*c*
		5798*a*	0·872	283·8	106·7	+ 8·5	5	27	
		5801	0·874	288·3	105·9	+12·3	0	19	
		5801	0·867	287·9	105·2	+11·8	0	4	
		5801	0·851	287·3	103·6	+10·8	0	3	
		5800*	0·541	128·1	20·0	−25·5	0	8	
1906.				°	°	°			
45·122	CL, RF	5800*	0·551	129·1	19·6	−26·4	0	7	
		5800*	0·557	126·8	18·5	−25·5	0	15	
		5800*	0·553	124·7	18·2	−24·3	0	9	
		5801*	0·727	114·3	2·4	−22·3	1	41	137*c*
		5802	0·867	101·6	347·4	−13·5	0	4	
		5802	0·877	101·2	346·2	−13·1	0	2	366*f*
		5802	0·891	101·3	344·4	−13·2	0	2	
		5802*a*	0·927	98·0	339·5	−10·0	21	158	
K.			0·793	58·9	2·2	+19·3			558
			0·823	108·8	352·5	−19·4			184
			0·830	96·2	351·6	− 9·0			129
			0·882	79·5	347·5	+ 5·9			84
			0·950	70·6	339·4	+16·0			245
			0·936	86·5	339·1	+ 0·8			197
			0·933	117·2	338·4	−27·9			55
Feb. 15				(−17·2)	(48·0)	(− 6·9)	(29)	(311)	(3277)
46·126	AS, RF		0·976	258·9	113·0	−12·3			113
			0·955	284·6	105·2	+11·7			500
			0·938	275·9	103·6	+ 3·1			136
			0·917	261·3	101·8	−10·7			125
			0·949	296·4	101·4	+22·4			157
			0·874	286·8	93·0	+11·0			294
			0·851	247·8	93·0	−22·5			190
			0·762	294·1	80·1	+13·3			146
K.		5802*	0·685	108·3	351·9	−17·5	0	10	
		5802*	0·722	108·9	348·9	−18·3	0	8	
		5802*a*	0·820	97·5	339·2	−10·1	30	137	616*f*
			0·833	117·2	339·1	−26·4			113
			0·933	67·4	329·9	+18·1			452
			0·919	81·5	329·1	+ 5·0			126
			0·946	114·9	322·8	−25·7			214
Feb. 16				(−17·6)	(34·7)	(− 6·9)	(30)	(155)	(3182)
47·125	CL, RF		0·964	283·8	94·0	+11·3			342
			0·874	251·8	82·8	−19·3			87
			0·884	292·1	79·6	+15·8			218
			0·864	284·1	79·2	+ 8·4			54
		5802*a*	0·671	98·2	339·2	−10·7	25	149	226*f*
K.		5803*a*	0·980	75·3	305·3	+12·8	15	173	78*c*
			0·832	93·5	325·0	− 6·8			116
			0·866	117·0	321·9	−26·8			244
			0·958	99·2	307·4	−10·8			129
			0·979	66·6	307·2	+21·2			205
			0·986	64·9	305·4	+23·2			790
Feb. 17				(−17·9)	(21·5)	(− 7·0)	(40)	(322)	(2489)

Group 5798†, February 13–14. A cluster of small spots, *np* Group 5798 ; first seen close to the west limb.
Group 5802, February 14–26. Return of Group 5785. A large regular spot, *a*, frequently with a number of very small companions.
Group 5800*, February 15. A few very faint, small markings.
Group 5801*, February 15. A number of small, very faint markings in a compact cluster.
Group 5802*, February 16. A number of small, very faint markings in a compact cluster.
Group 5803, February 17–28. A large regular spot, *a*, followed by a short train of small spots. Only *a* remains after February 24.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
48·097	AS, RF		0·951	237·6	81·6	−32·9			144
			0·913	246·0	75·2	−24·7			140
			0·922	287·9	73·1	+13·5			474
			0·878	277·4	69·2	+ 3·1			114
			0·847	304·4	58·6	+24·2			131
			0·788	298·5	55·1	+17·3			178
			0·742	286·6	54·4	+ 7·4			410
			0·582	301·3	39·2	+11·6			129
		5802*a*	0·493	98·8	339·2	−10·4	34	162	
		5804	0·719	91·4	322·7	− 5·9	0	4	87*c*
K.		5804	0·732	92·7	321·6	− 6·7	1	13	
		5803*a*	0·910	71·9	306·3	+13·3	23	179	
		5803	0·934	72·8	302·6	+13·3	0	11	
		5806*a*	0·963	70·2	297·8	+16·9	22	142	596*c*
		5806	0·963	71·9	297·4	+15·3	10	44	
			0·661	107·3	327·8	−16·6			174
			0·802	61·4	321·2	+17·9			426
			0·783	119·0	318·8	−26·9			336
			0·845	103·5	310·7	−15·1			233
			0·861	86·9	309·7	− 0·9			235
			0·923	114·1	300·8	−24·9			142
			0·972	95·2	292·0	− 6·6			167
Feb. 18				(−18·2)	(8·8)	(−7·0)	(90)	(555)	(4116)
49·383	AS, M		0·910	270·4	57·2	− 2·6			95
			0·908	283·8	54·9	+ 9·4			282
			0·903	297·7	50·7	+21·3			92
			0·798	310·9	33·9	+26·3			98
		5805	0·105	272·2	357·8	− 6·7	1	12	
		5802*a*	0·232	106·8	338·8	−10·7	31	143	
		5803*a*	0·744	65·8	307·9	+12·7	22	146	
		5803	0·802	66·8	302·6	+13·9	0	17	
M.		5806	0·843	64·4	299·3	+17·2	1	15	
		5806	0·838	66·2	299·2	+15·6	0	7	744*c*
		5806*a*	0·861	65·4	297·0	+17·1	19	85	
		5806	0·858	67·0	296·9	+15·6	5	30	
			0·733	102·0	304·5	−13·6			102
			0·783	116·8	301·4	−25·2			95
			0·862	54·0	301·0	+26·1			146
			0·904	94·9	286·8	− 7·4			219
			0·949	118·4	279·3	−29·1			124
Feb. 19				(−18·6)	(351·8)	(−7·0)	(79)	(455)	(1997)
50·455	AS, RF		0·946	281·5	47·0	+ 8·4			305
			0·912	298·3	37·7	+22·2			277
G.			0·844	311·1	24·1	+28·8			170
		5805	0·362	269·2	359·0	− 6·9	2	6	
		5805	0·349	261·3	358·1	− 9·7	0	9	
1906.				°	°	°			
50·455	AS, RF	5805	0·344	270·2	357·9	− 6·6	0	13	
		5805	0·323	270·7	356·6	− 6·5	0	6	
		5802*a*	0·066	192·5	338·5	−10·8	26	144	
		5807	0·510	103·3	307·2	−12·8	0	9	
		5803	0·533	57·4	311·1	+10·3	0	7	
		5803*a*	0·575	54·9	308·9	+13·1	28	171	
		5803	0·599	57·0	306·8	+13·0	1	22	
		5803	0·631	56·5	304·9	+14·4	0	1	
		5803	0·630	60·1	303·8	+12·4	1	9	
		5803	0·624	61·7	303·8	+11·3	0	3	
		5803	0·667	60·3	301·3	+13·6	4	22	647*c*
G.		5806	0·693	62·2	298·8	+13·4	0	6	
		5806	0·712	59·1	298·4	+16·0	7	48	
		5806	0·706	61·6	298·0	+14·1	0	5	
		5806	0·722	60·7	297·1	+15·3	0	2	
		5806*a*	0·739	59·4	296·2	+16·8	16	100	
		5806	0·733	64·9	294·9	+13·0	0	8	
			0·789	43·6	299·2	+29·3			121
			0·823	99·1	281·9	−11·6			231
			0·884	120·1	276·1	−29·8			281
			0·960	77·6	265·9	+ 9·8			231
Feb. 20				(−19·0)	(337·7)	(−7·1)	(85)	(591)	(2263)
51·506	CL, RF		0·937	275·3	32·7	+ 2·4			122
			0·880	250·7	26·0	−20·3			88
			0·900	287·0	25·3	+12·0			183
			0·903	303·1	20·8	+25·7			379
			0·894	316·9	13·0	+36·2			165
		5802*a*	0·262	254·3	338·7	−10·9	24	123	
		5802	0·251	265·7	338·5	− 8·0	0	3	
		5807	0·295	112·7	307·7	−13·3	5	12	
		5807	0·320	110·8	306·1	−13·3	0	12	
		5803	0·440	30·0	310·8	+15·4	0	4	
		5803	0·429	31·7	310·5	+14·4	0	2	
		5803*a*	0·423	35·2	309·5	+13·3	30	274	
		5803	0·440	39·9	307·1	+12·9	0	1	
G.		5803	0·459	39·2	306·6	+14·0	1	12	
		5803	0·460	45·0	304·5	+12·3	3	6	
		5803	0·478	43·2	304·3	+13·6	0	2	
		5803	0·500	46·9	302·0	+13·4	0	12	
		5806	0·570	45·6	298·8	+17·0	4	35	
		5806	0·547	49·7	298·5	+14·3	0	10	
		5806*a*	0·572	48·4	297·6	+15·9	8	67	
		5806	0·583	47·1	297·5	+16·9	2	7	
		5806	0·624	48·9	294·4	+18·0	0	2	
		5806	0·664	48·2	292·2	+20·2	0	2	
			0·764	124·3	277·1	−30·4			155
			0·894	78·7	262·1	+ 6·7			394
			0·921	117·2	256·3	−27·8			182
Feb. 21				(−19·3)	(323·9)	(−7·1)	(77)	(586)	(1668)

Group 5804, February 18. Two small spots.
Group 5806, February 18–28. With Group 5803, a return of Group 5790. A regular spot, *a*, with a short irregular stream close to it on the *s* side, making up, with Group 5803, a very long straggling stream. Most of the smaller spots are very unstable and the group changes in appearance rapidly.
Group 5805, February 19–20. A few very small spots.
Group 5807, February 20–27. A number of small unstable spots in a scattered group, which changes quickly.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
52·133	CL, RF		0·939	285·7	23·0	+12·1			160
			0·944	304·8	18·5	+29·6			106
			0·822	286·4	8·4	+ 9·2			150
			0·852	298·7	8·1	+19·9			162
			0·907	315·6	7·2	+36·1			189
			0·721	241·9	0·0	−25·0			116
		5802*a*	0·393	258·4	338·6	−11·1	26	120	
		5802	0·302	248·7	332·3	−13·1	0	8	
		5802	0·193	228·9	324·2	−14·3	0	5	
		5807	0·169	131·8	308·2	−13·5	8	19	
		5807	0·183	130·1	307·3	−13·8	0	1	
		5807	0·195	126·0	306·3	−13·6	0	11	
		5807	0·206	122·3	305·3	−13·3	3	12	
		5807	0·216	123·5	305·0	−13·8	0	3	
		5803	0·380	11·3	311·2	+14·7	0	4	
		5803*a*	0·361	15·2	310·0	+13·3	37	238	
		5803	0·417	16·6	308·5	+16·5	0	4	
		5803	0·396	21·1	307·2	+14·6	0	3	
		5803	0·372	26·3	305·9	+12·4	0	1	
		5803	0·453	21·8	305·5	+17·8	0	7	
		5803	0·376	28·3	305·1	+12·3	2	6	
		5803	0·418	32·3	302·4	+13·7	3	17	
		5806	0·482	31·7	300·3	+17·3	0	5	
		5806	0·454	37·8	299·0	+14·2	2	25	
		5806	0·444	39·3	298·9	+13·3	0	1	
		5806	0·491	34·4	298·8	+17·0	4	20	
		5806	0·506	33·3	298·7	+18·1	0	4	
		5806	0·507	36·0	297·5	+17·4	0	5	
K.		5806	0·468	42·0	296·9	+13·6	0	1	
		5806	0·532	35·3	296·7	+18·9	0	4	
		5806*a*	0·511	38·2	296·4	+16·9	13	63	
		5806	0·532	39·6	294·9	+17·5	0	12	
		5806	0·544	41·3	293·6	+17·5	0	7	
		5806	0·559	41·6	292·7	+18·1	0	6	
		5806	0·574	40·7	292·3	+19·2	0	5	
		5807*	0·806	76·3	263·8	+ 6·6	0	5	160*c*
			0·629	99·3	276·5	−11·4			132
			0·718	127·6	274·0	−31·3			79
			0·828	67·7	263·6	+14·0			98
			0·799	100·5	262·2	−12·7			79
			0·816	85·3	261·4	− 0·4			35
			0·844	109·6	257·9	−20·3			102
			0·873	123·6	256·1	−32·6			163
			0·888	80·0	254·3	+ 5·5			54
			0·926	63·2	253·1	+21·5			158
			0·966	71·1	243·5	+16·4			266
			0·962	82·0	242·6	+ 5·7			63
eb. 22				(−19·5)	(315·6)	(−7·1)	(98)	(622)	(2272)

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
53·398	CL, AS		0·861	264·1	358·7	− 8·7			156
			0·849	293·1	352·8	+15·3			150
			0·801	250·4	352·1	−19·9			182
		5802*a*	0·643	260·7	339·1	−11·4	20	115	52*c*
		5807	0·215	236·5	309·5	−13·8	0	11	
		5807	0·177	224·8	306·3	−14·3	2	15	
		5807	0·136	224·3	304·5	−12·6	4	15	
		5803*a*	0·396	330·4	310·4	+13·1	36	247	
		5803	0·393	336·0	308·3	+14·0	0	2	
M.		5803	0·371	339·3	306·6	+13·2	0	7	
		5803	0·373	343·9	305·0	+13·8	4	12	
		5803	0·360	348·7	303·0	+13·6	0	3	
		5806	0·386	357·4	299·9	+15·5	2	31	
		5806*a*	0·410	4·3	297·1	+16·9	8	27	
			0·774	126·5	251·6	−32·4			148
			0·920	65·3	236·7	+19·4			690
			0·946	77·0	229·8	+ 9·8			235
			0·969	124·6	221·7	−35·2			129
Feb. 23				(−19·9)	(298·9)	(−7·1)	(76)	(485)	(1742)
54·480	CL, RF		0·915	252·0	351·8	−19·3			204
			0·880	290·0	343·0	+13·8			216
			0·718	304·1	323·4	+18·1			173
			0·629	320·6	310·3	+22·5			44
		5802*a*	0·810	261·7	339·3	−11·0	16	129	238*f*
		5808	0·868	303·2	337·3	+24·0	5	18	} 121*c*
		5808	0·840	306·0	333·2	+24·9	0	6	
		5808*	0·745	325·2	314·6	+31·4	3	13	44*c*
		5807	0·433	252·8	309·9	−13·9	0	12	
		5807	0·389	250·7	306·9	−14·1	5	24	
		5807	0·366	254·7	305·9	−12·3	0	1	
		5807	0·368	248·4	305·4	−14·6	0	2	
		5807	0·345	253·0	304·5	−12·6	0	5	
G.		5807	0·354	247·1	304·4	−14·7	6	16	
		5803*a*	0·543	309·2	310·4	+13·6	42	257	
		5803	0·503	312·0	307·3	+13·0	0	9	
		5803	0·495	315·9	305·5	+14·0	0	8	
		5803	0·451	325·7	300·0	+14·9	0	8	
		5806	0·460	329·3	298·9	+16·3	0	18	
		5806*a*	0·458	333·2	297·2	+17·0	0	6	
		5809*	0·190	187·6	286·3	−18·0	0	1	
		5809*	0·239	169·9	282·2	−20·8	0	4	
			0·785	57·3	240·3	+20·0			194
			0·820	74·0	232·1	+ 8·8			200
			0·808	89·3	231·0	− 3·7			68
			0·902	62·9	225·9	+20·6			409
			0·916	128·3	219·6	−37·8			184
Feb. 24				(−20·2)	(284·8)	(−7·2)	(77)	(537)	(2095)

Group 5807*, February 22. A very small faint spot.
Group 5808, February 24. A small spot with a very small companion.
Group 5808*, February 24. A small spot with a very small companion, *nf* Group 5808.
Group 5809*, February 24. Two very small spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
55·655	CL, RF		0·888	238·7	331·4	−31·0			112
			0·915	292·8	331·3	+17·5			691
			0·738	235·1	313·6	−30·2			149
		5802*a*	0·930	260·8	338·4	−11·2	13	111	748*c*
		5807	0·609	256·5	306·7	−14·0	12	101	
		5807	0·563	255·5	303·3	−14·1	0	4	
		5807	0·564	253·3	303·2	−15·3	7	41	
		5803*a*	0·711	297·2	309·7	+13·5	37	272	140*c*
G.		5806	0·605	308·4	298·7	+15·7	3	29	219*c*
			0·727	44·3	235·2	+25·4			200
			0·805	61·4	221·5	+17·8			704
			0·805	129·9	219·8	−35·9			179
			0·851	116·4	211·3	−26·2			142
			0·880	101·9	207·0	−13·9			192
			0·943	74·2	201·3	+12·3			281
			0·974	122·0	190·3	−32·8			67
Feb. 25				(−20·5)	(269·3)	(−7·2)	(72)	(558)	(3824)
56·200	CL, AS		0·920	294·3	324·4	+19·0			302
			0·880	241·3	323·4	−28·6			177
		5802*a*	0·970	259·9	339·0	−11·6	14	91	375*f*
		5807	0·725	257·0	308·7	−14·4	10	50	
		5807	0·709	258·2	307·4	−13·4	0	3	
		5807	0·707	256·9	307·2	−14·3	0	7	166*c*
M.		5807	0·696	260·5	306·5	−11·8	0	2	
		5807	0·666	254·8	303·8	−15·5	5	17	
		5803*a*	0·793	293·4	310·4	+13·6	36	220	174*n*
		5806	0·694	301·6	299·8	+15·6	3	16	
			0·847	129·1	207·3	−36·6			140
			0·937	69·9	196·0	+16·0			269
			0·913	113·7	195·6	−24·5			170
Feb. 26				(−20·6)	(262·1)	(−7·2)	(68)	(406)	(1773)
57·439	CL, RF		0·973	290·3	318·9	+17·8			163
			0·916	242·8	312·5	−27·8			219
			0·707	268·1	290·9	− 6·5			81
		5807	0·892	257·6	309·5	−14·3	0	6	369*f*
		5803*a*	0·922	288·1	309·9	+13·6	25	211	
		5806	0·848	294·1	299·2	+16·0	0	4	605*c*
		5809	0·615	277·0	283·2	− 1·5	0	5	
G.		5809	0·599	267·5	282·6	− 7·3	0	2	
		5809	0·576	268·4	281·0	− 6·9	0	7	
		5812	0·843	74·9	190·5	+ 8·6	0	5	105*c*
		5812	0·852	73·6	189·8	+ 9·9	0	3	
			0·866	63·0	191·2	+19·0			481
			0·893	90·9	182·4	− 4·1			202
			0·908	112·2	179·8	−23·2			69
			0·945	76·3	176·9	+10·4			212
Feb. 27				(−21·0)	(245·7)	(−7·2)	(25)	(243)	(2506)
1906.				°	°	°			
58·383	AS, CL		0·951	256·2	306·3	−15·3			335
			0·950	242·2	306·2	−28·6			205
			0·854	261·8	292·4	−10·8			71
			0·911	304·8	290·7	+27·6			72
		5803*a*	0·981	284·8	309·8	+12·9	30	196	574*c*
		5806	0·938	291·3	299·2	+17·1	0	4	
		5809	0·783	265·7	285·1	− 7·8	0	9	118*c*
M.		5809	0·750	266·8	282·1	− 7·1	0	9	
		5810	0·564	305·8	261·2	+12·8	5	26	
		5810	0·553	309·4	259·3	+14·0	5	30	
		5812	0·699	68·0	192·3	+ 9·8	1	15	101*s*
		5812	0·756	67·9	187·8	+11·5	0	8	
		5813	0·937	74·3	166·3	+12·0	0	10	269*c*
			0·906	59·4	175·0	+23·8			128
Feb. 28				(−21·3)	(233·3)	(−7·2)	(41)	(307)	(1873)
59·198	AS, CL		0·983	254·9	303·5	−16·2			199
			0·967	288·6	294·7	+15·9			356
			0·952	299·8	288·7	+25·5			194
		5809	0·899	265·7	286·9	− 7·0	0	12	274*c*
		5809	0·854	265·7	281·5	− 7·4	0	7	
		5810	0·705	297·5	262·5	+13·5	8	36	
M.		5810	0·670	301·9	258·5	+14·9	9	80	
		5812	0·566	59·9	192·9	+10·2	2	10	
		5812	0·593	65·7	189·6	+ 8·1	0	3	
			0·819	54·1	176·3	+23·8			157
			0·873	72·2	164·7	+11·7			162
			0·951	63·7	155·6	+22·3			256
Mar. 1				(−21·4)	(222·6)	(−7·2)	(19)	(148)	(1598)
60·122	FS, AS		0·928	254·3	279·4	−17·2			121
			0·863	263·2	270·5	− 9·5			119
			0·632	311·0	240·4	+18·3			181
		5809	0·971	264·6	287·0	− 7·0	0	21	
		5809	0·948	264·5	282·3	− 7·5	0	14	360*c*
		5809	0·941	265·4	281·0	− 6·8	0	80	
		5810	0·845	290·9	264·4	+13·4	7	45	
		5810	0·827	292·0	262·3	+13·7	0	11	458*c*
K.		5810	0·790	295·4	257·9	+15·0	8	89	
		5813*	0·495	326·2	227·1	+17·3	0	5	
		5815	0·948	102·9	138·0	−14·5	0	9	352*f*
		5815*a*	0·957	102·0	136·3	−13·6	17	107	
		5815	0·971	97·5	133·5	− 9·1	0	8	182*np*
			0·739	44·4	175·4	+25·9			276
			0·863	58·2	157·9	+22·7			376
			0·942	66·8	144·3	+19·0			566
Mar. 2				(−21·7)	(210·4)	(−7·2)	(32)	(389)	(2991)

Group 5809, February 27–March 2. A few small spots in a small cluster.
Group 5812, February 27–March 1. A few very small spots.
Group 5810, February 28–March 4. A few small spots in a short stream.
Group 5813, February 28. A few very small spots.
Group 5813*, March 2. A number of very small faint spots in a straggling stream.
Group 5815, March 2–10. A regular spot, *a*, accompanied by a short train of small spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
61·483	CL, RF		0·896	311·0	245·1	+31·8			181
		5810	0·969	284·7	265·9	+12·3	11	48	
		5810	0·948	285·5	261·4	+12·2	0	17	
		5810	0·935	286·4	259·1	+12·6	6	16	330c
		5810	0·930	289·2	257·7	+14·9	0	36	
		5811*	0·728	302·8	232·3	+17·7	0	2	359c
		5811	0·634	290·8	229·0	+ 7·3	0	13	
G.		5815	0·808	100·3	138·2	−12·6	0	17	
		5815a	0·810	102·2	138·0	−14·1	19	104	
		5815	0·837	100·8	135·2	−13·0	0	4	650c
		5815	0·855	100·4	133·2	−12·6	0	13	
		5815	0·871	100·7	131·4	−12·8	0	16	
			0·747	41·8	158·3	+27·9			82
			0·839	59·7	142·0	+20·5			536
			0·927	75·9	126·7	+10·2			114
Mar. 3				(−22·0)	(192·5)	(−7·2)	(36)	(286)	(2252)
62·510	CL, RF		0·913	292·2	240·9	+16·9			203
			0·797	285·6	229·6	+ 7·8			133
			0·852	300·4	230·9	+21·2			545
		5810	0·990	285·8	258·4	+14·4	0	150	294c
G.		5815a	0·653	103·9	138·3	−14·5	15	106	292f
		5815	0·706	100·8	133·9	−12·7	3	17	
			0·789	54·6	135·2	+22·0			421
			0·882	76·0	119·3	+ 8·7			522
Mar. 4				(−22·3)	(179·0)	(−7·2)	(18)	(273)	(2410)
63·289	CL, AS		0·970	290·5	241·1	+17·8			253
			0·905	283·3	231·5	+ 8·7			157
			0·899	299·2	226·5	+22·2			329
		5814	0·535	33·2	150·7	+19·5	0	12	
		5814	0·569	35·7	148·0	+20·6	0	3	
M.		5814	0·610	38·6	144·6	+21·7	0	11	
		5815a	0·508	107·6	138·7	−15·2	14	98	
		5815	0·562	102·3	134·6	−12·9	0	12	
		5815	0·574	105·7	133·9	−15·0	0	2	
			0·686	100·7	125·2	−12·7			72
			0·917	70·4	105·6	+14·7			336
Mar. 5				(−22·5)	(168·7)	(−7·3)	(14)	(138)	(1147)
64·462	CL, RF		0·954	282·5	223·8	+ 9·6			437
			0·933	262·1	222·7	−10·0			111
			0·958	297·7	221·0	+23·8			554
G.			0·893	234·5	215·3	−34·8			127
		5814	0·452	6·1	150·3	+19·3	0	11	
		5814	0·442	9·1	149·0	+18·5	0	7	
		5814	0·473	10·1	148·1	+20·4	0	3	
1906.				°	°	°			
64·462	CL, RF	5814	0·483	13·7	146·2	+20·7	0	4	
		5815a	0·275	119·5	138·9	−14·9	13	71	
		5815	0·320	113·4	135·6	−14·3	0	21	
		5815	0·315	109·9	135·6	−13·1	0	9	
		5816a	0·986	83·8	73·8	+ 4·8	61	444	177c
G.			0·814	67·8	102·6	+13·3			493
			0·862	116·3	93·9	−26·3			181
			0·931	102·4	83·8	−14·2			203
			0·945	130·7	82·5	−40·7			140
			0·965	73·0	81·2	+14·3			313
Mar. 6				(−22·8)	(153·2)	(−7·3)	(74)	(570)	(2736)
65·607	AS, RF		0·879	287·5	196·8	+11·6			298
			0·822	304·2	185·5	+22·6			382
			0·615	317·9	164·2	+20·6			189
		5814	0·494	335·5	150·7	+19·5	3	10	
		5814	0·493	338·8	149·1	+20·1	1	8	
		5814	0·484	342·8	146·9	+20·3	3	17	
		5815*	0·057	273·7	141·5	− 7·1	1	5	
G.		5815a	0·135	189·2	139·5	−15·0	10	34	
		5816a	0·910	81·4	73·9	+ 4·7	47	345	815c
			0·787	143·0	96·7	−44·5			126
			0·726	64·0	96·3	+13·1			167
			0·791	78·6	87·4	+ 4·4			42
			0·848	104·9	79·7	−16·5			400
			0·867	124·0	79·4	−33·0			150
			0·895	67·0	79·0	+16·8			411
Mar. 7				(−23·0)	(138·2)	(−7·3)	(65)	(419)	(2980)
66·118	AS, RF		0·964	283·4	203·9	+10·8			112
			0·896	238·0	194·5	−31·8			119
			0·907	285·7	194·0	+11·0			119
			0·859	293·7	186·2	+16·1			137
			0·809	301·6	178·5	+20·3			249
			0·745	280·7	178·4	+ 3·1			302
		5814	0·549	325·0	150·9	+19·9	1	4	
		5814	0·587	330·9	149·5	+23·9	0	2	
		5814	0·537	327·3	149·3	+20·0	2	11	
K.		5814	0·564	331·1	148·5	+22·6	0	2	
		5814	0·517	332·2	146·2	+20·2	3	12	
		5814	0·527	333·7	145·8	+21·1	0	5	
		5814	0·544	335·2	145·6	+22·5	0	10	
		5815a	0·186	223·8	139·0	−14·9	9	34	
		5815	0·139	213·7	135·9	−13·8	0	4	
		5815	0·156	195·9	133·9	−15·8	0	10	
		5817	0·597	38·5	108·0	+21·2	0	5	
		5817	0·588	41·2	107·2	+19·6	0	14	
		5817	0·619	42·0	105·2	+20·9	0	4	

Group 5811, March 3. A few very faint small spots.
Group 5811*, March 3. A very small faint spot, *n* of Group 5811.
Group 5814, March 5–9. A few small unstable spots in an irregular stream.
Group 5816, March 6–18. A large regular spot, *a*, with occasionally some small companions.
Group 5815*, March 7. A very small spot, *n* Group 5815.
Group 5817, March 8–16. A few small spots rapidly developing into a compact stream. The leader, *a*, on March 10 and the succeeding days is a large regular spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
66·118	AS, RF	5818	0·751	90·0	82·7	− 4·8	0	9	151*c*
		5816*a*	0·857	80·2	73·7	+ 4·6	59	337	781*f*
		5816	0·857	84·4	73·1	+ 1·1	0	15	
			0·708	57·9	92·8	+16·5			122
			0·824	68·5	79·6	+13·2			338
K.			0·798	115·4	79·2	−24·5			84
			0·811	102·3	76·8	−14·2			120
			0·879	113·7	69·7	−24·2			105
			0·916	117·9	64·7	−28·4			25
			0·952	64·2	64·1	+21·9			172
Mar. 8				(−23·1)	(131·4)	(−7·2)	(74)	(478)	(2936)
67·221	AS, RF		0·974	281·2	192·1	+ 9·2			141
			0·892	276·8	179·1	+ 2·8			231
		5814	0·687	308·5	151·5	+19·4	0	4	
		5814	0·672	312·3	148·9	+20·8	0	4	324*c*
		5814	0·637	314·7	145·7	+20·3	1	8	
		5815*a*	0·399	248·4	139·4	−15·1	2	9	
		5815	0·343	241·8	135·2	−16·2	0	1	
		5817	0·507	20·7	105·9	+21·2	6	22	
		5817	0·505	23·5	104·5	+20·5	9	19	71*c*
		5817	0·529	24·7	103·2	+21·6	0	2	
		5817	0·513	26·0	103·1	+20·4	5	32	
		5818	0·490	89·9	87·5	− 6·2	0	7	
M.		5818	0·507	88·9	86·4	− 5·6	0	13	
		5818	0·541	90·4	84·1	− 6·3	8	23	
		5818	0·539	94·1	84·1	− 8·3	0	17	
		5816*a*	0·707	76·1	73·6	+ 4·6	57	327	544*c*
			0·390	66·3	96·1	+ 2·3			72
			0·727	59·8	76·2	+16·0			204
			0·797	48·0	75·4	+26·9			58
			0·785	93·2	65·0	− 7·0			89
			0·892	63·2	59·2	+20·0			110
			0·885	73·3	57·4	+11·1			80
			0·943	77·6	48·3	+ 9·2			60
			0·957	71·1	47·0	+15·7			111
Mar. 9				(−23·4)	(116·9)	(−7·2)	(88)	(488)	(2095)
68·115	CL, RF		0·882	287·5	164·1	+11·7			234
			0·783	307·0	147·7	+22·8			551
			0·712	236·2	147·4	−28·7			94
		5815	0·570	251·0	139·2	−16·6	0	2	
		5815*a*	0·561	253·8	138·9	−15·0	0	10	
K.		5815	0·563	252·4	138·8	−15·8	0	6	
		5815	0·543	253·7	137·6	−14·9	0	1	
		5815	0·543	250·8	137·3	−16·3	0	4	
		5817*a*	0·474	358·4	105·9	+20·9	23	90	
		5817	0·464	0·0	105·1	+20·3	3	8	
1906.				°	°	°			
68·115	CL, RF	5817	0·408	1·0	104·7	+16·8	0	2	
		5817	0·456	1·0	104·6	+19·8	1	5	
		5817	0·463	4·3	103·0	+20·2	21	92	
		5817	0·474	7·7	101·2	+20·7	3	13	
		5817	0·567	7·9	100·1	+26·9	0	25	
		5818*a*	0·318	86·1	86·6	− 5·6	16	66	
		5818	0·333	84·0	85·8	− 4·8	0	1	
		5818	0·341	89·7	85·1	− 6·7	6	11	
		5818	0·360	86·8	84·0	− 5·6	0	3	
		5818	0·363	84·3	83·9	− 4·7	2	5	
		5818	0·381	86·9	82·7	− 5·5	14	66	
		5816	0·514	71·0	76·1	+ 3·3	0	3	
		5816	0·527	72·7	75·0	+ 2·8	0	3	
		5816	0·546	66·7	74·9	+ 6·2	0	10	
		5816*a*	0·549	70·3	74·0	+ 4·5	50	296	376*f*
K.		5816*	0·609	53·8	74·7	+14·9	0	13	
		5816*	0·614	55·6	73·7	+14·1	1	4	
		5816*	0·614	57·4	73·1	+13·2	0	7	
		5816*	0·615	59·6	72·4	+12·1	0	4	
		5816†	0·791	74·9	55·0	+ 7·3	0	14	
		5816†	0·804	75·8	53·5	+ 6·9	0	5	258*c*
		5816†	0·815	74·4	52·8	+ 8·3	0	5	
			0·759	136·2	63·0	−38·6			109
			0·786	65·6	57·7	+14·1			98
			0·877	54·4	52·5	+26·4			42
			0·849	86·9	47·3	− 1·3			166
			0·910	66·7	44·0	+17·7			133
			0·962	50·2	40·6	+35·1			37
			0·963	58·2	37·3	+28·0			111
			0·965	93·9	30·0	− 5·6			123
Mar. 10				(−23·5)	(105·1)	(−7·2)	(140)	(774)	(2332)
69·118	CL, AS		0·944	289·7	159·1	+15·9			167
			0·847	269·3	149·7	− 4·4			232
			0·901	305·7	147·4	+27·8			139
			0·829	301·2	141·0	+20·8			441
			0·711	253·8	137·0	−16·5			400
		5819	0·652	311·8	122·7	+19·6	0	5	47*c*
		5817*a*	0·516	333·1	106·2	+20·3	21	181	
		5817	0·495	338·5	102·9	+20·3	18	128	
K.		5817	0·496	341·9	101·3	+20·9	0	5	
		5818*a*	0·070	72·3	88·0	− 6·0	18	103	
		5818	0·091	75·5	86·7	− 5·9	1	5	
		5818	0·142	87·3	83·6	− 6·7	0	4	
		5818	0·155	80·2	83·0	− 5·6	10	38	
		5816	0·343	61·2	74·4	+ 2·6	0	3	
		5816*a*	0·363	56·2	74·3	+ 4·7	49	292	
		5816	0·452	62·3	68·2	+ 5·5	0	10	
			0·770	51·3	51·1	+23·3			221

Group 5818, March 8–17. A few small spots in a short irregular stream. The stream develops quickly, and the leader, *a*, becomes a regular spot. The following part of the group soon disappears, and *a* remains alone on March 12. A very small companion is sometimes seen near it later.
Group 5816*, March 10. Four very small spots, *n* of Group 5816.
Group 5816†, March 10. Three very small spots, *f* Group 5816.
Group 5819. March 11. A very small spot. *p* Group 5817.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
69·118	CL, AS		0·721	69·8	48·7	+ 9·2			343
			0·922	53·4	33·5	+29·7			312
K.			0·889	67·6	33·2	+16·1			219
			0·919	93·0	24·8	− 5·6			159
Mar. 11				(−23·7)	(91·8)	(−7·2)	(117)	(774)	(2680)
70·607	AS, CL		0·843	255·9	130·1	−15·7			407
			0·879	303·4	126·0	+24·8			627
			0·680	290·8	112·0	+ 8·5			86
			0·855	324·8	111·3	+38·8			167
		5817*a*	0·686	308·8	106·6	+19·5	24	171	385*c*
		5817	0·650	312·9	102·5	+20·0	15	129	
G.		5817	0·655	316·3	101·3	+21·9	0	9	
		5818*a*	0·286	272·3	88·8	− 6·3	12	118	
		5816	0·198	341·5	75·8	+ 3·6	5	15	
		5816*a*	0·216	349·2	74·5	+ 5·1	22	218	
			0·813	85·4	18·3	− 0·5			525
			0·880	66·9	14·9	+16·4			387
			0·947	105·3	359·9	−16·8			481
Mar. 12				(−24·0)	(72·2)	(−7·2)	(78)	(660)	(3065)
71·111	AS, RF		0·966	253·8	141·9	−17·5			655
			0·965	291·3	136·7	+18·3			265
			0·807	269·7	133·2	−29·5			137
			0·921	269·9	132·6	− 2·9			142
			0·907	257·3	131·4	−14·5			430
			0·933	301·5	127·6	+25·9			195
			0·875	282·0	124·9	+ 6·8			146
			0·851	314·6	110·8	+31·7			154
			0·756	295·4	110·1	+13·8			333
		5817*a*	0·752	303·0	107·2	+18·7	32	169	352*c*
		5817	0·717	306·2	103·3	+19·3	31	164	
		5817	0·708	309·4	101·3	+20·8	0	6	
		5818*a*	0·402	269·6	89·4	− 6·8	14	78	
		5818	0·365	266·4	87·1	− 8·1	0	5	
K.		5818	0·327	271·6	84·7	− 6·3	0	6	
		5816	0·262	314·0	76·4	+ 3·4	0	7	
		5816*a*	0·265	321·3	75·1	+ 4·8	30	197	
			0·799	66·2	16·9	+14·0			218
			0·896	48·6	13·3	+32·1			227
			0·876	80·8	5·7	+ 4·5			94
			0·910	63·2	5·5	+20·7			133
			0·902	76·3	3·3	+ 9·1			82
			0·898	109·8	1·1	−20·9			137
			0·908	91·5	0·3	− 4·4			156
			0·922	102·0	357·7	−13·8			182
			0·945	82·7	355·7	+ 4·4			139
			0·970	74·9	352·1	+12·7			235
Mar. 13				(−24·1)	(65·6)	(−7·2)	(107)	(632)	(4412)
1906.				°	°	°			
72·186	CL, RF		0·970	257·5	128·4	−13·8			103
			0·947	273·3	122·1	+ 0·8			93
			0·954	302·7	116·9	+28·2			125
			0·910	286·7	114·2	+12·0			312
			0·884	260·3	114·1	−11·9			48
		5819*	0·990	262·0	134·0	− 8·9	14	41	141*c*
		5819*	0·987	263·2	132·7	− 7·9	0	31	
		5817	0·879	294·3	108·3	+17·4	0	13	
		5817*a*	0·878	296·5	107·5	+19·2	29	229	
		5817	0·859	296·2	105·4	+18·1	0	14	245*c*
		5817	0·856	300·5	103·6	+21·4	0	12	
M.		5817	0·842	300·0	102·3	+20·4	23	157	
		5818	0·646	269·9	91·7	− 5·6	0	2	59*c*
		5818*a*	0·633	268·3	90·8	− 6·7	12	57	
		5816	0·473	291·9	77·4	+ 3·6	1	6	
		5816	0·480	298·0	76·5	+ 6·5	0	2	
		5816*a*	0·456	295·9	75·6	+ 4·9	27	161	
		5820	0·505	3·8	49·3	+23·0	0	3	
		5820	0·512	7·8	47·1	+23·2	1	6	
		5820*	0·945	100·2	339·7	−12·0	0	6	163*c*
			0·928	70·5	346·6	+15·1			260
			0·901	111·2	346·5	−22·2			104
Mar. 14				(−24·3)	(51·4)	(−7·2)	(107)	(740)	(1653)
73·228	CL, AS		0·958	284·4	108·8	+11·6			182
			0·899	260·1	102·4	−12·0			103
			0·751	299·4	80·6	+16·5			204
		5817*a*	0·964	292·1	108·3	+19·0	54	315	
		5817	0·961	290·0	108·2	+16·9	0	13	
		5817	0·958	293·7	106·8	+20·3	0	26	379*c*
		5817	0·940	292·7	103·5	+18·4	0	10	
		5817	0·948	299·3	103·3	+24·9	0	11	
		5817	0·936	295·2	102·3	+20·6	14	175	
		5818*a*	0·803	267·7	91·3	− 6·1	9	47	209*c*
M.		5816	0·670	284·4	78·1	+ 4·2	0	1	
		5816*a*	0·657	286·8	76·7	+ 5·5	28	173	
		5820*a*	0·542	336·7	51·1	+22·8	8	61	
		5820	0·553	342·0	48·5	+24·7	0	4	
		5820	0·532	345·1	46·3	+23·8	8	44	
		5820*	0·839	99·2	340·2	−11·6	0	4	280*sf*
		5821*	0·948	96·7	325·7	− 8·6	0	9	120*c*
			0·865	67·5	341·9	+15·4			299
			0·833	115·7	341·8	−25·3			190
			0·862	92·6	338·0	− 5·9			89
Mar. 15				(−24·4)	(37·7)	(−7·1)	(121)	(893)	(2055)

Group 5819*, March 14. A pair of spots suddenly appearing close to the west limb.
Group 5820, March 14–19. A straight stream developing suddenly and declining as quickly. The leader, *a*, is the largest and most stable member of the group.
Group 5820*, March 14–15. A very small spot.
Group 5821*, March 15–18. A few very small unstable spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
74·118	FS, CL		0·942	288·0	93·3	+14·3			225
			0·836	265·0	82·9	− 8·1			147
			0·819	290·5	77·5	+12·3			159
			0·815	300·2	74·1	+19·5			149
			0·682	292·5	65·5	+ 9·6			90
			0·752	309·1	65·0	+22·8			96
			0·890	331·7	63·2	+46·0			155
		5817*a*	0·995	289·9	107·2	+18·9	24	272	332*c*
		5817	0·980	292·6	100·6	+20·4	12	105	
		5818*a*	0·902	266·8	90·6	− 6·0	9	28	98*c*
		5816*a*	0·788	282·4	76·3	+ 5·2	25	159	99*c*
K.		5820*a*	0·628	319·4	52·0	+22·1	14	61	108*c*
		5820	0·612	321·7	50·0	+22·2	1	7	
		5820	0·603	327·1	46·8	+23·7	1	5	
		5820	0·587	330·7	44·2	+24·0	9	34	
		5821*	0·859	96·1	326·3	− 8·9	0	8	111*c*
		5821	0·969	68·4	313·9	+18·9	16	105	406*sf*
			0·848	57·0	335·5	+23·0			129
			0·780	104·0	334·4	−15·4			324
			0·799	91·7	332·7	− 5·6			101
			0·885	64·3	328·7	+18·8			119
			0·922	113·2	318·0	−24·1			156
			0·955	103·2	312·1	−14·7			254
Mar. 16				(−24·6)	(25·9)	(−7·1)	(111)	(784)	(3258)
75·232	AS, RF		0·935	286·5	77·8	+12·7			169
			0·934	295·4	75·3	+20·6			112
			0·822	268·2	66·6	− 5·6			88
			0·807	292·5	61·1	+13·5			77
			0·684	331·3	33·5	+30·2			83
		5818*a*	0·980	265·3	90·1	− 6·0	0	19	191*f*
		5816*a*	0·917	279·3	76·4	+ 5·6	23	178	367*f*
		5820	0·815	307·9	56·3	+25·1	2	10	203*c*
		5820*a*	0·781	306·4	53·9	+22·4	11	51	
		5820	0·742	303·2	52·0	+18·6	0	5	
		5820†	0·702	316·9	43·0	+24·8	3	8	
M.		5821*	0·686	94·3	327·7	− 8·1	0	4	86*c*
		5821*	0·702	95·2	326·4	− 8·7	3	8	
		5821*	0·742	96·7	323·0	− 9·8	0	4	
		5821*	0·755	95·6	321·9	− 8·9	0	20	
		5821	0·875	64·4	315·2	+18·3	0	4	435*c*
		5821	0·870	66·8	315·0	+16·2	0	8	
		5821	0·872	67·8	314·5	+15·4	4	24	
		5821	0·887	64·1	313·8	+19·0	13	58	
		5821	0·902	70·3	310·2	+14·3	0	9	
		5821	0·923	67·1	308·0	+18·0	0	16	
		5821	0·943	68·6	304·5	+17·4	0	6	
		5822	0·968	100·4	294·8	−11·9	0	11	274*c*
		5822	0·974	97·7	293·6	− 9·1	22	301	
		5822	0·979	94·2	292·6	− 5·6	19	78	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
75·232	AS, RF		0·733	128·0	328·4	−32·0			59
			0·819	90·1	316·2	− 4·2			57
			0·869	116·2	311·1	−26·2			101
			0·869	103·4	310·3	−15·1			222
M.			0·963	64·3	301·6	+22·4			83
			0·959	75·2	300·0	+12·0			51
			0·959	79·8	299·2	+ 7·6			62
			0·978	69·8	296·6	+18·0			107
Mar. 17				(−24·9)	(11·2)	(−7·1)	(100)	(822)	(2827)
76·284	AS, CL		0·814	292·6	47·9	+13·8			65
		5816*a*	0·986	276·6	76·7	+ 5·2	21	153	313*f*
		5820*a*	0·896	299·1	54·9	+22·2	7	34	227*c*
		5820	0·838	302·8	46·9	+22·4	0	8	
		5821*	0·501	94·3	327·2	− 8·3	0	4	
		5821*	0·553	97·8	323·7	−10·2	0	2	
		5821	0·735	62·1	315·3	+14·9	0	7	334*c*
		5821	0·773	57·8	313·7	+19·2	9	57	
		5821	0·755	63·0	313·4	+15·0	3	15	
		5821	0·770	60·9	312·9	+17·0	0	3	
M.		5821	0·797	60·3	310·7	+18·4	0	6	
		5821	0·791	65·5	309·6	+14·4	8	44	
		5822	0·883	95·5	295·0	− 8·2	4	17	744*c*
		5822*a*	0·895	96·1	293·5	− 8·6	17	103	
		5822*b*	0·901	92·6	292·9	− 5·4	16	55	
		5822	0·908	97·5	291·6	− 9·8	7	69	
		5826*a*	0·991	76·0	277·2	+12·8	29	305	117*p*
			0·727	103·2	310·6	−14·4			197
			0·782	119·7	307·7	−27·4			81
			0·933	63·4	293·7	+21·7			139
Mar. 18				(−25·0)	(357·4)	(−7·1)	(121)	(882)	(2217)
77·518	CL, RF		0·948	269·6	52·6	− 2·7			117
			0·827	319·5	21·3	+33·7			149
		5820	0·961	294·7	50·7	+21·4	0	18	456*c*
		5820	0·948	297·2	47·5	+23·0	0	8	
		5820	0·937	298·5	45·0	+23·6	2	26	
		5823*a*	0·416	200·5	350·8	−29·8	3	17	
		5823	0·413	196·3	348·9	−30·2	0	5	
		5823*b*	0·433	193·3	347·9	−31·8	1	11	
G.		5821	0·558	49·8	315·1	+14·8	5	32	277*c*
		5821	0·612	45·0	314·0	+19·3	12	47	
		5821	0·601	48·7	313·1	+17·1	4	29	
		5821	0·638	46·0	312·1	+20·1	0	4	
		5821	0·624	49·0	311·6	+18·1	0	21	
		5821	0·631	51·4	310·3	+17·1	0	6	
		5821	0·620	55·3	309·5	+14·7	3	18	
		5824	0·449	106·3	315·0	−13·6	2	12	

Group 5821, March 16–27. Return, or rather new outbreak, of Group 5803. A number of spots at first scattered over a wide area. The spots mostly increase and coalesce, forming by March 22 a very large complex spot, *a*, with but little umbra.

Group 5820†, March 17. A small spot, *nf* Group 5820.

Group 5822, March 17–27. A short stream of spots almost at right angles to the equator. The two principal members of the group, *a* and *b*, are regular spots.

Group 5826, March 18–30. A very fine pair of regular spots, *a* and *b*. They have coalesced to form one very large double spot, *c*, by March 21. *c* is sometimes attended by some very small companions.

Group 5823, March 19–25. A pair of small spots, *a* and *b*, sometimes with a very small spot between them. *a* remains alone after March 21.

Group 5824, March 19–24. A cluster of small spots, not seen on March 23.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
77·518	CL, RF	5824	0·481	103·0	312·6	−12·4	0	3	
		5824	0·485	101·2	312·3	−11·6	0	11	
		5825	0·558	112·7	308·5	−18·3	0	21	
		5829	0·728	101·2	294·3	−13·0	1	10	
		5822	0·709	94·8	295·8	− 8·4	5	20	
		5822*a*	0·731	95·6	294·0	− 8·9	20	112	765*c*
		5822*b*	0·734	90·9	293·9	− 5·4	14	83	
		5822	0·749	97·6	292·4	−10·3	5	56	
		5833	0·828	68·9	288·9	+13·1	0	6	
G.		5833	0·853	69·1	286·3	+13·7	0	12	102*c*
		5826*a*	0·927	72·5	276·1	+13·3	59	319	
		5826*b*	0·947	73·6	272·6	+13·0	62	374	
		5827*a*	0·949	78·7	271·3	+ 8·4	5	36	1032*c*
		5828*a*	0·988	73·6	262·5	+15·0	0	342	
			0·861	57·6	289·0	+23·3			170
			0·846	77·7	285·1	+ 6·5			49
			0·865	124·5	283·0	−33·2			166
Mar. 19	.			(−25·1)	(341·2)	(−7·0)	(203)	(1659)	(3283)
78·307	AS, CL		0·978	297·4	43·8	+24·9			201
			0·858	267·6	30·1	− 5·7			98
			0·884	308·8	23·0	+29·5			193
			0·822	297·7	20·5	+18·0			110
		5823*a*	0·497	216·8	350·8	−30·0	1	6	
		5823*b*	0·495	210·9	348·1	−31·8	1	7	
		5823	0·450	209·0	345·3	−29·9	0	11	
		5821	0·449	34·4	315·6	+14·9	2	8	
		5821	0·477	34·1	314·7	+16·5	29	144	
		5821	0·522	31·8	313·9	+19·6	11	42	
		5821	0·490	36·4	313·2	+16·5	0	8	
		5821	0·499	39·1	311·8	+16·1	8	45	
		5821	0·531	38·5	310·5	+18·0	0	25	
		5821	0·502	44·4	309·6	+14·4	5	16	
		5824	0·267	113·1	316·3	−12·8	5	29	
M.		5824	0·288	108·5	314·7	−12·0	0	8	
		5824	0·317	104·0	312·6	−11·1	0	5	
		5824	0·399	102·0	307·5	−11·2	0	4	
		5825	0·295	124·9	316·2	−16·5	0	2	
		5825	0·366	120·7	311·6	−17·4	15	46	
		5825	0·400	121·4	309·8	−18·6	0	1	
		5825	0·398	117·6	309·2	−17·1	12	57	
		5825	0·435	120·5	307·5	−19·2	12	90	
		5829	0·539	102·2	298·3	−12·5	0	4	
		5829	0·578	104·1	295·7	−13·8	1	12	
		5829	0·622	104·5	292·5	−14·5	0	9	
		5829	0·636	101·1	291·2	−12·4	0	6	
		5822	0·574	94·5	295·6	− 8·4	4	12	
		5822	0·589	97·7	294·6	−10·2	0	2	
		5822*b*	0·597	90·0	294·1	− 5·6	11	69	
1906.				°	°	°			
78·307	AS, CL	5822*a*	0·597	95·5	294·0	− 8·9	17	103	
		5822	0·617	97·9	292·5	−10·4	6	41	
		5833	0·727	65·2	288·4	+12·6	0	4	87*c*
		5833	0·765	65·3	285·3	+13·7	0	5	
		5826*a*	0·853	69·3	275·8	+13·6	60	300	
		5826	0·847	73·1	275·5	+10·3	0	4	355*c*
M.		5826*b*	0·875	70·8	272·9	+13·1	55	356	
		5827*a*	0·874	76·5	271·9	+ 8·2	4	16	190*sf*
		5828*a*	0·950	71·6	262·1	+15·0	25	219	515*c*
			0·729	91·8	283·9	− 6·2			350
			0·867	103·1	270·1	−14·9			221
Mar. 20				(−25·3)	(330·8)	(−7·0)	(284)	(1716)	(2320)
79·488	AS, RF		0·920	271·4	21·9	− 1·5			264
			0·874	284·2	14·0	+ 8·8			131
			0·724	251·3	1·2	−18·3			185
			0·526	247·2	345·7	−17·8			130
		5823*a*	0·664	232·2	352·2	−29·6	12	71	242*c*
		5823*b*	0·616	226·8	346·6	−30·9	6	42	
		5821	0·369	355·8	316·8	+14·6	0	23	
		5821	0·441	2·4	314·0	+19·0	9	38	
		5821	0·384	3·6	313·8	+15·4	62	415	
		5821	0·357	8·3	312·2	+13·6	0	3	
		5821	0·383	8·8	311·7	+15·1	4	54	
		5821	0·422	9·6	311·0	+17·5	0	12	
		5821	0·437	10·3	310·5	+18·4	3	11	
		5821	0·384	12·7	310·2	+14·9	0	3	
		5821	0·375	14·5	309·7	+14·3	1	13	
		5821	0·447	13·1	309·1	+18·7	0	9	
		5824	0·099	195·9	316·8	−12·4	3	29	
G.		5824	0·090	174·6	314·7	−12·1	5	27	
		5825*a*	0·173	167·9	313·0	−16·7	27	144	
		5825*b*	0·202	151·4	309·4	−17·1	0	46	
		5825*c*	0·258	149·2	307·2	−19·7	18	97	
		5825	0·254	145·5	306·5	−19·0	0	10	
		5829	0·315	112·9	297·9	−13·7	6	15	
		5829	0·340	115·0	296·7	−14·9	0	14	
		5829	0·361	104·4	294·4	−11·7	0	1	
		5829	0·370	107·5	294·1	−12·9	5	18	
		5829	0·376	100·9	293·2	−10·6	2	9	
		5829	0·414	109·3	291·5	−14·3	2	10	
		5822	0·330	94·9	295·9	− 8·2	2	11	
		5822*b*	0·344	87·8	295·1	− 5·9	10	69	
		5822	0·353	92·5	294·5	− 7·4	0	4	
		5822*a*	0·355	96·3	294·4	− 8·8	17	100	
		5826	0·674	60·0	278·3	+14·1	0	4	
		5826	0·676	64·3	276·9	+11·6	0	3	
		5826	0·678	67·9	275·8	+ 9·3	0	11	

Group 5825, March 19–27. A few faint spots rapidly developing into a scattered stream with three principal spots, *a*, *b*, and *c*. The leader, *a*, develops into a regular spot.
Group 5833, March 19–25. A cluster of small very faint spots, *p* Group 5826. The group is not seen from March 21 to March 23 inclusive.
Group 5827, March 19–22. A small spot, *a*, *s* of Group 5826. *a* is not seen on March 22, but a cluster of very small spots is seen in its neighbourhood.
Group 5828, March 19–27. A large regular spot, *a*, *f* Group 5826. The spot becomes composite in structure, and has begun to break up by March 24. It has entirely broken up by March 26, after which it quickly disappears.
Group 5829, March 19–27. A few small unstable spots in a short stream, *s* of Group 5822.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
79·488	AS, RF	5826*c*	0·711	62·8	274·8	+13·7	135	698	
		5827*a*	0·708	71·4	272·7	+ 7·9	0	7	1172*c*
		5828*a*	0·842	67·2	261·9	+14·9	20	190	
		5830*a*	0·944	96·0	244·0	− 8·0	29	198	914*f*
			0·799	101·4	261·8	−13·3			159
G.			0·843	113·7	258·0	−23·7			129
			0·962	64·4	245·9	+22·2			355
			0·954	78·6	244·4	+ 8·6			201
			0·948	121·5	243·0	−32·0			171
Mar. 21				(−25·4)	(315·2)	(−7·0)	(378)	(2409)	(4053)
80·542	AS, M		0·940	310·4	1·1	+34·3			118
			0·799	290·0	351·0	+11·4			154
			0·893	329·0	341·4	+44·7			77
		5823*a*	0·797	238·4	352·0	−29·1	8	38	240*f*
		5821	0·471	326·1	317·0	+16·3	0	5	
		5821	0·484	333·9	314·2	+19·0	6	25	
		5821*a*	0·430	332·3	313·1	+15·1	142	929	
		5821	0·458	342·2	309·7	+18·9	0	6	
		5821	0·429	341·9	309·2	+17·1	0	2	
		5824	0·283	250·7	317·0	−12·0	4	25	
		5824	0·249	249·0	314·9	−11·8	4	20	
		5825*a*	0·276	233·4	314·5	−16·2	18	113	
		5825	0·253	226·0	312·1	−16·9	2	10	
		5825*b*	0·230	215·9	309·3	−17·5	17	59	
		5825	0·203	206·8	306·7	−17·3	0	4	
		5825*c*	0·242	201·8	306·7	−19·8	10	47	
		5829	0·126	156·7	298·3	−13·5	4	19	
		5829	0·153	148·5	296·5	−14·4	0	9	
G.		5829	0·174	134·4	293·9	−13·8	0	8	
		5829	0·216	135·1	292·1	−15·6	0	7	
		5829	0·205	126·6	291·5	−13·8	0	21	
		5822	0·102	99·4	295·4	− 7·8	0	5	
		5822*b*	0·106	77·5	295·3	− 5·5	11	49	
		5822*a*	0·119	105·9	294·6	− 8·7	15	82	
		5822	0·154	109·5	292·8	− 9·8	0	3	
		5826	0·513	45·8	279·0	+14·6	3	14	
		5826	0·533	46·5	277·7	+15·1	0	6	
		5826	0·512	52·7	276·7	+11·8	0	7	
		5826	0·555	46·4	276·6	+16·2	0	9	
		5827	0·494	57·2	276·4	+ 9·2	0	1	
		5827	0·513	55·5	273·8	+10·6	0	5	
		5826*c*	0·551	52·0	274·8	+13·6	130	679	
		5828*a*	0·709	60·2	261·7	+15·3	30	174	330*c*
		5828	0·720	62·2	260·2	+14·4	0	3	
		5830	0·832	93·6	244·7	− 6·9	0	4	
		5830*a*	0·840	94·9	243·8	− 7·9	38	177	904*f*
		5831	0·902	101·1	236·2	−13·0	8	48	
			0·876	63·9	245·1	+18·9			215

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
80·542	AS, M		0·897	56·8	245·0	+25·7			170
			0·855	74·9	244·7	+ 9·1			100
G.			0·866	82·6	242·1	+ 2·9			69
			0·942	77·0	232·8	+ 9·8			188
			0·959	68·6	231·4	+18·2			191
Mar. 22				(−25·5)	(301·2)	(−6·9)	(450)	(2613)	(2756)
81·656	CL, AS		0·867	236·8	345·2	−32·0			81
		5823*a*	0·914	241·5	352·8	−28·8	20	102	155*c*
		5825*a*	0·500	249·7	315·7	−16·0	21	106	
		5825	0·455	246·5	312·3	−16·6	0	9	
		5825*c*	0·402	232·7	306·5	−20·6	5	23	
		5821	0·607	314·2	313·9	+18·9	0	13	
		5821*a*	0·562	311·6	312·4	+15·6	106	1050	
		5821	0·518	318·6	307·4	+16·3	0	11	
		5829	0·234	240·3	298·6	−13·4	10	55	
		5829	0·217	234·2	297·0	−14·0	0	7	
		5822*b*	0·153	277·6	295·3	− 5·7	0	19	
G.		5822	0·144	266·4	294·9	− 7·4	0	4	
		5822*a*	0·148	256·8	294·9	− 8·8	11	77	
		5822	0·116	251·7	293·0	− 8·9	0	11	
		5826*c*	0·402	28·8	275·1	+13·8	108	654	
		5828	0·527	45·8	263·7	+15·1	0	7	
		5828	0·545	44·4	263·3	+16·5	0	5	
		5828*a*	0·551	47·7	261·7	+15·5	18	169	
		5830*a*	0·677	94·3	243·8	− 8·0	33	151	79*c*
		5831	0·757	100·3	237·1	−12·3	5	34	76*c*
		5831	0·763	102·3	236·7	−13·8	0	20	
			0·886	100·0	223·7	−12·0			181
Mar. 23				(−25·6)	(286·6)	(−6·9)	(337)	(2527)	(572)
82·125	CL, RF		0·967	282·7	353·7	+10·4			140
			0·927	288·5	345·3	+14·3			54
			0·899	236·6	343·4	−32·8			104
			0·885	246·8	342·9	−23·7			136
			0·853	257·5	339·4	−14·2			254
			0·893	297·1	338·2	+20·4			146
		5823*a*	0·950	242·2	352·9	−28·4	12	61	92*c*
		5821	0·682	298·8	318·2	+13·8	0	6	
K.		5821	0·683	302·1	317·2	+15·8	0	4	
		5821	0·653	298·9	316·1	+12·8	0	4	
		5821	0·669	308·5	313·9	+18·9	2	7	
		5821*a*	0·630	305·5	312·5	+15·7	67	899	
		5821	0·650	311·2	311·5	+19·5	0	4	
		5821	0·628	310·9	310·3	+18·4	0	4	
		5821	0·607	310·6	309·2	+17·3	0	4	
		5824	0·605	258·5	317·6	−12·4	0	5	
		5824	0·567	258·1	314·9	−12·4	0	1	

Group 5830, March 21–April 1. A regular spot, *a*, with occasionally one or two very small companions.
Group 5831, March 22–27. A small unstable cluster, *sf* Group 5830.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
82·125	CL, RF	5824	0·552	259·8	313·9	−11·3	0	4	
		5824	0·541	257·9	313·0	−12·3	0	3	
		5825*a*	0·591	251·9	316·1	−16·2	16	103	
		5825	0·541	249·9	312·3	−16·5	0	2	
		5825	0·516	244·4	309·7	−18·9	0	2	
		5825	0·479	243·1	307·1	−18·6	0	10	
		5825	0·488	237·6	306·5	−21·3	0	5	
		5825	0·482	238·8	306·4	−20·6	5	13	
		5829	0·336	249·8	299·2	−13·1	9	23	
		5829	0·307	244·9	297·0	−14·0	0	1	
		5829	0·319	235·6	296·3	−16·9	0	2	
		5829	0·268	246·4	294·9	−12·7	0	2	
		5829	0·234	242·4	292·6	−12·8	0	2	
		5829	0·249	233·4	292·3	−15·2	0	1	
		5829	0·207	238·5	290·8	−12·9	0	2	
		5829	0·190	234·9	289·5	−13·0	0	1	
		5829	0·164	247·2	289·2	−10·4	0	2	
		5822	0·285	259·8	296·8	− 9·5	0	2	
		5822*b*	0·259	273·9	295·4	− 5·6	0	7	
		5822*a*	0·254	261·8	295·1	− 8·7	9	65	
		5822	0·223	266·2	293·3	− 7·5	0	9	
		5833	0·323	338·4	287·3	+10·7	0	11	
		5833	0·321	344·8	285·3	+11·2	0	4	
		5826	0·352	359·8	280·5	+13·7	0	2	
		5826	0·357	2·1	279·6	+14·0	0	4	
K.		5826	0·332	5·7	278·5	+12·4	0	1	
		5826	0·357	6·4	278·1	+13·9	0	2	
		5826	0·296	10·5	277·3	+10·1	0	3	
		5826	0·326	14·9	275·5	+11·5	2	11	
		5826*c*	0·367	14·0	275·2	+14·0	106	595	
		5826	0·421	12·2	275·1	+17·4	0	2	
		5826	0·314	19·4	274·3	+10·4	0	4	
		5826	0·408	17·4	273·1	+16·1	0	3	
		5826	0·352	21·3	272·9	+12·3	0	8	
		5826	0·391	23·1	271·3	+14·3	0	4	
		5828	0·445	35·1	265·1	+14·7	0	1	
		5828	0·455	36·9	264·1	+14·7	3	18	
		5828	0·481	36·5	263·1	+16·2	0	1	
		5828	0·493	38·1	262·0	+16·3	5	34	
		5828*a*	0·488	40·3	261·4	+15·3	12	85	
		5828	0·457	45·7	260·9	+12·2	0	5	
		5828	0·482	43·1	260·6	+14·1	1	9	
		5830*a*	0·597	94·3	243·6	− 8·0	24	137	
		5830	0·636	93·6	240·8	− 7·6	0	3	191*c*
		5830	0·648	95·7	239·8	− 8·9	0	7	
		5831	0·678	100·9	237·6	−12·4	11	54	
		5831	0·706	98·2	235·3	−10·6	0	2	323*f*
		5831	0·754	98·5	231·2	−10·9	0	2	
			0·801	50·2	237·4	+25·9			135
			0·842	70·4	226·3	+12·5			183

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
82·125	CL, RF		0·891	59·7	223·9	+23·0			223
			0·893	126·6	218·8	−35·6			124
K.			0·962	53·0	214·5	+32·8			110
			0·973	75·7	206·0	+12·1			83
Mar. 24				(−25·7)	(280·4)	(−6·8)	(284)	(2272)	(2298)
83·196	AS, CL		0·918	253·1	333·5	−18·1			215
			0·907	264·3	331·7	− 8·0			155
			0·925	292·9	329·9	+18·2			159
		5823*a*	0·993	242·6	351·9	−27·9	0	66	166*f*
		5825*a*	0·773	254·2	317·0	−16·5	14	108	274*c*
		5825	0·754	259·7	315·5	−12·2	0	12	
		5825	0·666	246·6	306·9	−20·6	0	7	
		5821*a*	0·779	297·6	312·1	+16·4	56	728	362*c*
		5821	0·756	301·4	308·9	+18·2	1	16	
		5829	0·553	257·8	299·8	−12·4	4	21	
		5822*a*	0·488	265·4	295·6	− 8·2	12	67	
		5822	0·464	268·1	294·0	− 6·9	0	12	
		5832	0·372	271·9	288·1	− 5·6	0	14	
		5832	0·343	282·6	285·8	− 2·1	0	5	
		5833	0·442	309·7	286·4	+10·0	1	3	
		5826	0·349	328·3	277·0	+10·6	0	6	
		5826*c*	0·392	337·3	275·2	+14·4	113	633	
		5826	0·346	334·7	274·9	+11·4	4	24	
		5826	0·415	341·8	274·0	+16·4	0	4	
M.		5826	0·444	345·2	273·1	+18·6	0	2	
		5826	0·356	344·0	272·1	+13·1	0	7	
		5826	0·389	346·4	271·7	+15·4	0	4	
		5826	0·292	349·3	269·4	+ 9·9	0	13	
		5828	0·380	5·9	264·0	+15·3	3	13	
		5828*a*	0·381	9·6	262·5	+15·1	1	8	
		5828	0·397	12·2	261·3	+16·0	9	63	
		5828	0·356	16·5	260·4	+13·1	0	9	
		5830*a*	0·391	95·0	243·2	− 8·2	28	151	
		5831	0·479	103·4	237·9	−12·4	5	28	
		5831	0·506	105·6	236·3	−13·7	0	4	
		5831	0·509	97·6	235·6	− 9·8	1	5	
		5834	0·780	106·1	215·0	−16·8	10	31	83*c*
		5834	0·815	105·8	211·5	−16·8	3	30	
			0·864	41·9	221·4	+35·3			160
			0·802	54·8	221·1	+22·8			279
			0·847	128·6	211·7	−35·9			161
			0·926	73·7	201·1	+12·3			186
			0·978	94·7	188·0	− 6·0			143
Mar. 25				(−25·8)	(266·3)	(−6·8)	(265)	(2094)	(2343)

Group 5832, March 25–27. A very small spot. *sf* Group 5822, not seen on March 26.
Group 5834, March 25–April 1. A number of small unstable spots in an irregular stream. The group has condensed into two clusters, *a* and *b*, by March 29. The leader, *a*, develops into a regular spot; *b* breaks up, and has almost disappeared by March 31.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
				°	°	°			
1906.									
84·224	CL, RF		0·978	253·9	331·8	−17·1			107
			0·954	262·6	325·8	− 9·1			133
			0·890	260·0	316·1	−12·0			187
			0·846	247·1	310·3	−23·0			57
			0·786	243·4	303·3	−25·0			151
			0·827	307·8	299·1	+25·8			54
		5825*a*	0·902	254·7	317·8	−16·8	12	74	213*f*
		5821*a*	0·892	292·4	311·8	+16·5	42	575	472*c*
		5821	0·862	292·4	308·3	+15·4	0	10	
		5829	0·735	260·1	300·2	−11·9	4	16	
		5822*a*	0·685	265·7	296·1	− 8·0	4	24	
		5822	0·662	269·8	294·2	− 5·2	0	3	397*c*
		5822	0·609	268·6	290·3	− 6·3	0	7	
		5826	0·505	306·0	277·2	+11·1	0	1	
		5826	0·487	307·1	275·9	+10·8	0	4	
		5826*c*	0·520	313·8	275·5	+14·8	109	603	
		5826	0·537	318·1	274·7	+17·2	0	2	
		5826	0·476	309·7	274·5	+11·4	0	3	
		5826	0·534	319·9	273·8	+17·7	0	2	
		5826	0·489	318·1	272·4	+14·9	0	6	
		5835	0·380	260·2	274·9	−10·0	2	4	
		5835	0·369	249·4	273·4	−13·8	0	6	
		5835	0·351	259·7	273·1	−10·0	0	1	
		5835	0·336	252·0	271·7	−12·4	0	1	
		5835	0·325	257·5	271·4	−10·5	0	12	
M.		5835	0·292	258·1	269·5	−10·0	0	2	
		5835	0·279	247·7	268·0	−12·7	0	1	
		5828	0·420	335·1	263·2	+15·6	3	18	
		5828	0·402	336·2	262·3	+14·8	1	6	
		5828	0·420	338·8	261·8	+16·2	3	9	
		5828	0·403	339·2	261·2	+15·4	0	6	
		5828	0·349	338·6	260·2	+12·1	0	11	
		5828	0·348	342·0	259·0	+12·5	2	7	
		5828	0·411	345·5	258·8	+16·6	0	2	
		5828	0·410	345·9	258·7	+16·6	0	2	
		5830*a*	0·168	100·0	243·1	− 8·4	33	153	
		5830	0·196	90·9	241·4	− 6·9	0	2	
		5830	0·242	89·8	238·7	− 6·6	0	2	
		5831	0·280	112·9	237·4	−12·8	1	3	
		5831	0·329	97·3	233·5	− 8·8	0	4	
		5834	0·607	108·1	215·9	−16·3	6	21	
		5834	0·634	109·3	214·0	−17·4	0	4	
		5834	0·650	108·1	212·6	−16·9	0	1	
		5834	0·647	105·4	212·6	−15·1	0	1	
		5834	0·666	108·1	211·4	−17·1	0	4	
		5834	0·678	106·9	210·3	−16·4	9	27	
			0·844	69·1	198·7	+13·6			87
			0·935	77·3	185·4	+ 9·3			59
			0·929	85·7	185·0	+ 1·5			68

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
				°	°	°			
1906.									
84·224	CL, RF		0·952	65·2	185·0	+21·1			106
M.			0·931	94·9	183·8	− 7·1			71
Mar. 26				(−25·9)	(252·7)	(−6·8)	(231)	(1640)	(2162)
85·231	FS, M		0·965	259·2	315·0	−12·1			147
			0·887	241·6	301·5	−28·2			114
			0·839	304·8	288·3	+24·2			93
		5825*a*	0·981	254·0	319·4	−16·9	0	10	296*f*
		5825	0·965	252·0	315·4	−19·1	0	7	
		5821	0·973	287·0	313·9	+14·8	15	129	340*f*
		5821*a*	0·965	289·4	311·0	+16·7	15	329	
		5829	0·870	260·5	300·3	−11·6	0	5	612*c*
		5822*a*	0·835	265·0	296·3	− 7·9	0	6	
		5832	0·698	268·0	283·8	− 6·2	4	10	39*c*
		5826*c*	0·669	301·3	275·5	+14·9	106	520	
		5826	0·637	295·8	275·0	+10·6	0	3	120*c*
		5826	0·617	301·5	272·0	+13·1	3	15	
		5835	0·573	262·1	274·4	−10·0	1	4	
M.		5835	0·527	260·0	271·2	−11·0	4	10	
		5828	0·532	315·5	262·1	+16·0	2	13	
		5830*a*	0·072	244·3	243·1	− 8·5	26	145	
		5836	0·263	351·3	241·7	+ 8·3	0	7	
		5836	0·272	360·0	239·4	+ 9·1	0	2	
		5831	0·140	122·2	232·5	−11·0	0	5	
		5834	0·419	115·1	216·2	−16·4	4	19	
		5834	0·446	114·8	214·5	−16·9	6	19	
		5834	0·467	113·8	213·0	−16·8	1	6	
		5834	0·501	111·9	210·5	−16·6	13	52	
		5837	0·940	103·0	168·6	−14·5	0	10	212*c*
		5837	0·958	105·2	165·0	−16·5	0	16	
			0·801	89·0	186·3	− 3·2			76
			0·918	57·8	179·8	+26·0			127
Mar. 27				(−26·0)	(239·4)	(−6·7)	(200)	(1342)	(2176)
86·491	AS, RF		0·949	287·6	291·6	+14·4			218
			0·916	261·4	289·7	−10·6			646
		5826*c*	0·836	292·3	275·6	+14·5	101	607	294*f*
		5830*a*	0·360	263·1	243·9	− 8·8	29	166	
		5836	0·409	304·4	242·6	+ 7·0	0	14	
		5836	0·389	309·0	240·5	+ 7·7	1	19	
G.		5834	0·211	144·8	215·5	−16·5	11	65	
		5834	0·275	130·8	210·3	−16·9	18	71	
		5834	0·316	134·8	209·1	−19·3	0	9	
		5837*a*	0·784	101·7	170·9	−13·3	7	110	465*c*
		5837	0·845	105·3	164·8	−16·5	11	26	
			0·768	107·8	172·8	−17·9			108
			0·910	134·3	160·4	−42·8			181

Group 5835, March 26–27. A few very small spots in a sparse stream.
Group 5836, March 27–April 1. A pair of small unstable spots. The group is not seen on March 29 or 30.
Group 5837, March 27–April 7. A fine stream, consisting of a large regular spot, *a*, followed by a long train of small spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
86·491	AS, RF		0·965	93·8	147·8	− 5·4			207
G.			0·975	107·4	144·3	−18·4			167
Mar. 28				(−26·1)	(222·8)	(−6·7)	(178)	(1087)	(2286)
87·541	CL, RF		0·935	274·0	277·6	+ 1·4			83
			0·886	262·4	271·8	− 9·8			436
			0·810	294·4	258·7	+15·3			424
			0·714	312·8	243·7	+23·5			324
		5826*c*	0·935	288·4	275·3	+14·6	91	528	688*c*
		5830*a*	0·578	264·4	244·4	− 8·6	22	143	
		5834*a*	0·211	215·7	216·3	−16·3	14	97	
		5834	0·199	189·4	210·9	−17·9	0	2	
		5834*b*	0·172	183·8	209·7	−16·5	8	24	
G.		5839	0·302	0·5	208·8	+10·9	0	6	
		5839	0·316	3·5	207·9	+11·7	0	8	
		5839	0·312	9·1	206·1	+11·3	0	5	
		5837*a*	0·625	104·5	170·5	−14·2	36	271	
		5837	0·671	107·4	167·3	−16·5	0	4	121*c*
		5837	0·702	107·2	164·7	−16·8	7	45	
			0·745	134·7	167·9	−36·6			135
			0·758	62·4	164·9	+15·9			128
			0·937	63·4	144·6	+22·0			345
			0·931	101·2	139·8	−12·8			1087
Mar. 29				(−26·2)	(209·0)	(−6·6)	(178)	(1133)	(3771)
88·240	FS, M		0·906	259·9	265·2	−12·0			190
			0·883	291·6	258·0	+15·6			538
			0·783	307·2	242·4	+23·4			228
		5826	0·978	286·8	275·2	+14·9	57	405	516*f*
		5830*a*	0·706	263·9	244·8	− 9·0	13	156	143*c*
		5834	0·426	254·2	224·4	−12·7	0	9	
		5834*a*	0·333	236·9	216·6	−16·8	14	51	
		5834*b*	0·249	222·1	209·7	−17·1	0	11	
		5839	0·366	331·6	209·9	+12·2	0	3	
		5839	0·357	336·8	207·9	+12·6	2	11	
M.		5839	0·336	340·0	206·4	+11·8	3	24	
		5837*a*	0·487	106·2	171·1	−13·6	46	362	
		5837	0·513	108·3	169·5	−15·0	0	2	
		5837	0·535	109·1	168·2	−15·7	11	76	264*c*
		5837	0·538	104·7	167·5	−13·4	0	5	
		5837	0·597	109·7	165·9	−16·9	3	14	
		5838	0·823	93·0	144·2	− 6·3	1	4	184*c*
			0·874	57·0	146·2	+24·6			290
			0·858	105·8	140·3	−16·9			355
			0·938	97·6	129·5	− 9·4			116
Mar. 30				(−26·2)	(199·7)	(−6·6)	(150)	(1133)	(2824)
1906.				°	°	°			
89·118	AS, RF		0·991	279·6	269·0	+ 8·5			148
			0·943	257·6	259·3	−13·8			183
			0·950	288·3	257·0	+15·1			547
			0·861	300·9	241·0	+22·4			332
			0·677	304·6	223·7	+17·3			153
		5830*a*	0·837	263·5	245·2	− 9·0	22	120	320*f*
		5836	0·834	281·5	243·1	+ 5·9	4	11	189*f*
		5836	0·816	283·6	240·9	+ 7·1	4	18	
		5834*a*	0·497	247·8	216·7	−16·5	17	93	
		5834*b*	0·409	241·9	210·2	−17·1	0	2	
		5839	0·478	308·2	210·5	+11·1	2	13	
		5839	0·467	312·7	208·6	+12·3	8	45	
		5839	0·441	312·9	207·3	+11·3	0	5	
		5839	0·445	315·9	206·5	+12·4	1	5	
		5839	0·431	315·5	206·0	+11·7	7	40	
K.		5837*a*	0·296	115·4	172·2	−13·6	43	329	
		5837	0·347	112·0	168·9	−13·6	5	36	
		5837	0·365	116·9	168·4	−15·6	12	63	
		5837	0·430	118·6	164·8	−17·8	1	9	
		5837	0·439	114·0	163·5	−16·2	0	5	
		5838	0·691	91·7	144·3	− 5·9	0	4	508*f*
		5843*a*	0·990	70·0	109·1	+18·7	35	208	154*p*
			0·694	53·9	151·9	+18·9			206
			0·835	61·7	137·1	+19·2			167
			0·821	84·6	133·5	+ 0·7			161
			0·922	54·0	129·2	+29·6			158
			0·908	73·3	125·5	+12·2			169
			0·963	79·3	115·3	+ 8·4			75
			0·957	89·7	115·1	− 1·6			139
			0·952	103·2	115·0	−14·6			182
Mar. 31				(−26·3)	(188·1)	(−6·5)	(161)	(1006)	(3791)
90·279	FS, M		0·961	297·0	241·9	+23·7			262
			0·864	290·0	229·3	+13·7			75
			0·834	303·3	221·9	+23·0			302
		5830*a*	0·952	262·5	245·5	− 9·1	15	102	778*f*
		5836	0·956	277·5	244·7	+ 5·2	3	12	224*c*
		5836	0·935	280·2	240·6	+ 7·1	2	8	
		5834*a*	0·698	252·7	216·7	−16·7	4	18	78*c*
		5839	0·683	294·5	212·0	+11·4	3	10	
M.		5839	0·664	296·4	210·1	+12·0	6	26	
		5839	0·654	298·7	208·7	+13·0	3	14	
		5839	0·642	297·4	208·3	+11·9	0	5	107*c*
		5839	0·621	298·4	206·6	+11·7	8	29	
		5839	0·626	300·4	206·3	+13·0	3	9	
		5839	0·595	295·9	205·5	+ 9·6	1	2	
		5841	0·483	298·1	198·1	+ 7·3	10	21	
		5841	0·430	303·3	194·0	+ 7·6	2	10	

Group 5839, March 29–April 4. A cluster of very small spots, gradually extending into an irregular stream.
Group 5838, March 30–April 2. A very small spot, not seen on April 1.
Group 5843, March 31–April 12. Return of Group 5817. A large regular spot, *a*, with occasionally some very small companions.
Group 5841, April 1–4. A few small spots in an irregular stream.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
90·279	FS, M	5837*a*	0·123	180·6	172·8	−13·6	56	339	
		5837	0·088	165·8	171·5	−11·4	0	3	
		5837	0·129	166·1	171·0	−13·7	1	6	
		5837	0·153	157·4	169·3	−14·6	2	6	
		5837	0·162	149·3	167·9	−14·5	3	30	
M.		5837	0·194	150·0	167·0	−16·1	4	18	
		5837	0·237	143·8	164·4	−17·4	1	5	
		5842	0·378	30·6	161·5	+12·6	0	4	
		5842	0·361	33·8	161·0	+11·0	0	8	
		5843*a*	0·937	66·8	107·4	+19·0	39	243	439*c*
Apr. 1				(−26·4)	(172·8)	(−6·5)	(166)	(928)	(2265)
91·381	FS, CL		0·960	258·9	232·8	−12·4			376
			0·954	283·2	228·9	+10·5			184
			0·895	233·0	219·7	−35·7			136
			0·832	254·3	214·8	−16·6			255
		5840	0·906	295·5	218·5	+19·8	0	14	408*c*
		5839	0·839	288·3	212·5	+11·6	7	47	
		5839	0·806	290·1	208·8	+12·0	7	24	
		5839	0·810	291·9	208·7	+13·5	0	3	226*c*
		5839	0·795	290·9	207·6	+12·3	0	3	
		5839	0·780	291·6	206·1	+12·4	2	16	
		5841	0·691	287·9	199·7	+ 7·4	8	22	
		5841	0·674	289·5	198·1	+ 8·1	1	8	
		5841	0·657	291·3	196·4	+ 8·8	0	7	114*c*
		5841	0·667	295·7	196·0	+11·7	0	5	
		5841	0·620	291·8	193·7	+ 8·1	3	32	
		5845	0·395	234·7	178·2	−19·2	0	4	
		5845	0·369	232·2	176·2	−19·2	0	7	
M.		5837*a*	0·283	244·8	173·5	−13·1	52	330	
		5837	0·243	241·9	170·9	−12·8	6	23	
		5837	0·243	234·6	170·0	−14·3	0	9	
		5837	0·216	228·7	167·9	−14·5	14	57	
		5837	0·218	222·3	167·0	−15·6	2	10	
		5837	0·222	216·3	166·1	−16·6	3	14	
		5837	0·228	208·6	164·9	−17·9	0	30	
		5842	0·334	340·6	164·8	+12·0	17	35	
		5842	0·327	347·0	162·6	+12·1	1	10	
		5842	0·343	350·9	161·5	+13·3	0	11	
		5842	0·328	354·7	160·1	+12·6	4	12	
		5842	0·346	358·2	158·9	+13·7	0	5	
		5842	0·362	5·0	156·4	+14·7	0	9	
		5838	0·235	87·2	144·7	− 5·6	1	7	
		5843*a*	0·841	61·9	106·6	+19·4	43	157	395*c*
			0·718	63·7	117·0	+13·7			102
			0·945	80·3	88·8	+ 7·0			247
Apr. 2				(−26·4)	(158·3)	(−6·4)	(171)	(911)	(2443)
1906.				°	°	°			
92·194	AS, CL		0·963	297·0	217·0	+23·8			355
			0·905	254·7	212·8	−16·5			275
		5839	0·926	285·4	213·0	+11·7	5	22	323*c*
		5839	0·896	287·4	208·5	+12·6	0	7	
		5841	0·815	284·0	200·2	+ 7·5	4	19	
		5841	0·781	284·6	196·9	+ 7·3	0	8	209*c*
		5841	0·760	284·4	195·1	+ 6·6	2	13	
		5841	0·745	286·8	193·4	+ 8·1	0	14	
		5837*a*	0·450	254·0	173·7	−12·8	69	296	
		5837	0·410	253·8	171·2	−12·3	1	9	
		5837	0·361	245·4	167·2	−14·6	8	46	
		5837	0·351	248·3	167·0	−13·4	0	6	
		5837	0·357	242·3	166·6	−15·5	0	5	
K.		5837	0·346	236·6	165·0	−16·9	0	17	
		5837	0·344	232·4	164·1	−18·1	0	8	
		5842*a*	0·441	315·2	166·0	+12·2	9	65	
		5842	0·427	317·0	164·8	+12·1	0	8	
		5842	0·406	321·6	162·4	+12·4	0	17	
		5842	0·375	324·7	160·2	+11·6	0	7	
		5842	0·386	326·8	160·0	+12·7	0	6	
		5843	0·704	57·5	109·2	+17·3	0	6	145*c*
		5843*a*	0·738	56·9	106·8	+19·0	30	264	
			0·811	50·9	103·1	+26·2			131
			0·816	63·0	97·9	+17·7			246
			0·842	92·8	90·0	− 5·8			170
			0·925	76·2	81·8	+10·2			643
Apr. 3				(−26·4)	(147·5)	(−6·3)	(128)	(843)	(2497)
93·211	FS, AS	5839	0·976	284·4	209·5	+12·6	0	16	347*c*
		5841	0·923	280·6	200·0	+ 7·2	3	42	243*c*
		5841	0·881	282·5	194·1	+ 7·9	0	10	
		5841	0·880	284·7	193·6	+ 9·7	0	4	
		5837*a*	0·652	257·4	174·7	−13·0	48	271	
		5837	0·620	260·3	172·4	−10·9	0	10	
		5837	0·616	258·0	172·0	−12·4	0	15	
		5837	0·589	251·5	169·5	−15·9	0	4	
		5837	0·564	253·2	167·9	−14·6	3	12	
M.		5837	0·554	249·6	166·8	−16·5	4	27	
		5837	0·540	247·0	165·4	−17·6	0	6	
		5837	0·527	250·8	165·1	−15·4	0	5	
		5842*a*	0·611	300·0	166·8	+12·5	15	79	
		5842	0·561	303·4	162·6	+12·4	2	17	
		5846	0·207	272·7	146·0	− 5·6	0	4	
		5846	0·193	268·1	145·2	− 6·6	0	5	
		5843*a*	0·613	46·1	106·3	+19·5	34	258	
		5847	0·879	64·9	77·2	+18·5	0	15	373*c*
		5847	0·898	65·1	74·8	+19·0	0	10	
		5848	0·934	66·5	69·1	+19·3	0	8	

Group 5842, April 1–7. A few small spots in an irregular stream. The leader, *a*, develops into a regular spot.
Group 5840, April 2. Two small spots, *n.p.*, Group 5839.
Group 5845, April 2. Two very small spots.
Group 5846, April 4. Two very small spots.
Group 5847, April 4–13. A few small spots in an unstable stream. It has disappeared by April 11, but one or two small markings are seen near its place on April 12 and 13.
Group 5848, April 4–5. A small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
93·211	FS, AS		0·784	74·3	84·6	+ 8·2			220
M.			0·910	80·0	69·9	+ 6·4			219
Apr. 4				(−26·5)	(134·1)	(−6·3)	(109)	(818)	(1402)
94·475	AS, CL		0·945	265·9	188·5	− 5·9			141
			0·951	280·9	187·9	+ 8·4			205
		5837*a*	0·833	258·8	174·1	−12·7	42	292	} 354*f*
		5837	0·810	259·3	171·7	−12·3	0	6	
		5842*a*	0·791	291·0	166·3	+12·4	20	65	} 84*c*
		5842	0·778	291·6	165·0	+12·5	0	4	
		5843*a*	0·463	23·4	106·2	+19·0	44	248	
		5847	0·719	56·9	78·2	+18·3	7	32	}
G.		5847	0·739	53·2	78·1	+21·5	0	3	} 201*c*
		5847	0·735	58·9	76·2	+17·6	0	14	}
		5847	0·759	59·3	74·1	+18·3	0	5	}
		5848	0·809	61·2	69·1	+18·8	0	18	
		5849	0·973	63·7	45·2	+23·8	25	228	627*p*
			0·814	76·7	64·6	+ 7·1			190
			0·912	121·6	52·2	−31·3			212
			0·947	77·3	48·0	+ 9·9			108
			0·972	106·7	39·9	−17·7			207
Apr. 5				(−26·5)	(117·4)	(−6·2)	(138)	(915)	(2329)
95·525	CL, RF		0·793	303·2	148·9	+21·4			81
			0·660	309·2	136·3	+19·4			226
		5837*a*	0·941	258·7	174·4	−12·7	31	327	671*p*
		5842*a*	0·910	286·5	166·6	+12·2	9	62	215*c*
		5843*a*	0·425	354·2	106·2	+18·7	42	250	
		5843	0·427	359·1	104·0	+19·0	0	2	
		5843	0·413	1·2	103·1	+18·1	0	9	
G.		5847	0·578	44·8	78·2	+18·6	21	101	}
		5847	0·613	47·9	75·0	+18·7	3	11	} 240*c*
		5847	0·621	49·4	73·9	+18·4	9	47	}
		5849	0·906	59·7	44·8	+24·1	60	551	972*c*
			0·899	107·0	39·1	−18·0			278
			0·951	71·4	34·5	+15·5			93
			0·937	95·8	33·7	− 7·6			121
Apr. 6				(−26·5)	(103·6)	(−6·2)	(175)	(1360)	(2897)
96·504	AS, RF		0·880	237·7	150·8	−31·1			159
			0·902	296·2	150·2	+20·4			182
			0·741	253·5	138·3	−16·3			218
		5837*a*	0·992	258·0	174·6	−12·7	16	429	650*f*
		5842*a*	0·975	283·9	166·0	+12·1	0	28	256*f*
G.		5848*	0·791	285·3	140·9	+ 8·2	2	9	79*f*
		5849*	0·521	306·0	116·2	+12·3	0	5	
		5849*	0·497	307·3	114·4	+11·9	0	12	
		5843*a*	0·487	329·1	106·0	+18·7	35	220	
		5843	0·460	327·1	105·8	+16·8	0	7	
1906.				°	°	°			
96·504	AS, RF	5843	0·509	332·4	105·3	+20·8	0	1	
		5843	0·467	332·1	104·0	+18·4	0	3	
		5847	0·447	26·1	78·8	+17·6	0	7	
		5847	0·462	27·1	77·9	+18·3	4	17	
		5847	0·485	29·1	76·3	+19·1	0	4	
		5847	0·460	31·6	76·2	+17·1	0	5	
		5847	0·476	33·3	74·9	+17·5	0	4	
		5847	0·500	33·3	73·9	+18·8	3	20	
		5850	0·342	44·5	76·7	+ 8·1	7	13	
G.		5850	0·330	48·9	76·3	+ 6·6	0	4	
		5850	0·386	53·2	72·6	+ 7·5	3	8	
		5849	0·797	54·8	45·8	+23·0	31	297	} 643*c*
		5849	0·831	54·4	42·7	+24·9	40	216	
		5850*	0·759	109·3	41·8	−18·6	0	4	263*p*
		5852*a*	0·939	107·7	20·1	−18·7	0	12	191*f*
			0·812	79·7	37·6	+ 4·7			100
			0·883	67·2	32·7	+16·8			198
			0·888	93·2	27·9	− 5·6			228
Apr. 7				(−26·5)	(90·7)	(−6·1)	(141)	(1325)	(3167)
97·473	AS, RF		0·935	278·4	146·0	+ 5·6			326
			0·918	265·8	144·7	− 6·3			307
			0·883	300·9	133·6	+23·7			756
			0·790	282·4	128·6	+ 6·0			124
		5851	0·845	256·3	135·8	−14·8	0	7	167*c*
		5843*a*	0·607	312·6	106·0	+18·9	46	222	85*c*
		5847	0·405	358·9	78·4	+17·8	5	21	
		5847	0·434	3·3	76·4	+19·6	0	3	
		5847	0·414	3·5	76·4	+18·3	3	20	
		5847	0·409	5·8	75·4	+18·0	0	4	
		5847	0·435	8·4	74·1	+19·4	8	54	
		5847	0·430	10·4	73·2	+19·0	1	10	
		5847	0·454	10·5	72·9	+20·4	0	17	
		5850	0·240	0·7	77·7	+ 7·9	0	6	
G.		5850	0·241	12·7	74·8	+ 7·6	0	5	
		5850	0·238	20·1	73·2	+ 6·9	0	6	
		5849	0·644	45·7	48·3	+21·5	0	6	}
		5849	0·668	45·3	47·0	+22·8	9	103	}
		5849	0·706	45·0	44·6	+24·9	0	7	} 546*c*
		5849*a*	0·693	48·5	43·9	+22·3	18	117	}
		5849	0·726	44·2	43·6	+26·4	0	6	}
		5849*b*	0·730	46·9	42·0	+25·0	50	239	}
		5852*a*	0·853	108·7	19·4	−19·0	13	67	} 246*c*
		5852	0·874	110·4	17·0	−20·7	0	20	}
			0·904	50·8	22·8	+31·5			218
			0·871	68·5	20·9	+15·4			249
			0·964	75·0	5·5	+12·7			206
			0·965	86·4	3·7	+ 1·9			165
Apr. 8				(−26·5)	(77·9)	(−6·0)	(153)	(940)	(3395)

Group 5849, April 5–17. Return of Group 5821. A fine stream of unusual form, the largest and most stable spots, *a* and *b*, being in the rear of the stream. The preceding part of the group has disappeared by April 13. *a* and *b* are both regular in shape.
Group 5850, April 7–8. A few very small spots in a sparse stream.
Group 5848*, April 7. A small spot.
Group 5849*, April 7. Two very small spots.
Group 5850*, April 7. A very small faint spot.
Group 5852, April 7–18. A straggling stream, soon becoming little more than two distant spots, *a* and *b*, the original leader and rearguard. *a* alone remains by April 13. A fresh outburst occurs in the rear of the group on April 16.
Group 5851, April 8. A very small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
98·639	CL, RF		0·938	254·6	132·8	−16·5			551
			0·904	290·6	123·8	+15·7			544
			0·878	271·4	123·7	− 1·7			279
			0·698	267·0	106·9	− 6·4			86
			0·562	271·2	96·6	− 4·3			79
		5843*a*	0·761	301·4	105·7	+19·0	32	203	230*f*
		5847	0·468	329·8	76·8	+18·0	0	9	
		5847	0·470	337·7	73·4	+19·8	0	7	
		5847	0·484	340·5	72·4	+21·1	0	6	
		5849	0·535	25·1	48·3	+23·1	0	13	
		5849	0·524	27·2	47·6	+21·9	0	5	
		5849	0·554	27·5	46·4	+23·6	12	87	
		5849	0·554	30·6	44·8	+22·7	0	4	
		5849*a*	0·566	32·6	43·3	+22·7	36	213	
G.		5849	0·609	29·2	43·2	+26·4	0	4	
		5849*b*	0·609	32·5	41·4	+25·2	46	315	
		5853*a*	0·659	71·5	23·6	+ 7·4	11	68	
		5853	0·698	70·1	21·0	+ 9·3	0	2	88*c*
		5853	0·714	70·1	19·7	+ 9·7	6	18	
		5852*a*	0·682	111·2	20·5	−18·7	25	127	
		5852	0·698	111·2	19·2	−19·0	1	28	
		5852	0·730	111·5	16·5	−19·7	0	8	304*c*
		5852	0·738	113·2	16·0	−21·1	0	9	
		5852*b*	0·745	110·5	15·0	−19·2	7	60	
			0·917	106·9	355·5	−17·9			349
			0·936	75·0	355·3	+11·8			329
			0·934	89·0	353·7	− 1·3			186
			0·949	119·6	350·6	−29·9			66
Apr. 9				(−26·5)	(62·5)	(−6·0)	(176)	(1186)	(3091)
99·474	CL, RF		0·926	274·0	118·7	+ 1·5			207
			0·932	289·4	117·2	+15·6			367
		5843*a*	0·858	296·7	105·6	+19·3	31	199	420*f*
		5847	0·556	324·1	71·9	+21·1	0	9	
		5849	0·496	9·5	46·4	+23·3	5	63	
		5849	0·491	14·4	43·9	+22·4	2	11	
		5849*a*	0·499	16·6	42·6	+22·7	29	203	
		5849	0·565	16·0	41·5	+27·0	0	6	
		5849*b*	0·544	18·4	40·6	+25·2	45	264	
G.		5849	0·514	21·1	40·0	+22·8	0	3	
		5853*a*	0·511	64·9	23·8	+ 7·3	8	58	
		5853	0·584	64·2	19·4	+ 9·7	0	6	
		5852*a*	0·542	116·1	20·7	−18·9	11	117	
		5852	0·584	115·4	17·6	−19·4	0	8	226*c*
		5852	0·619	117·1	15·5	−21·1	3	9	
		5852*b*	0·626	114·2	14·4	−19·5	8	45	
		5854	0·803	71·3	0·9	+11·1	0	3	123*c*
			0·811	59·2	3·6	+20·6			180
			0·919	73·7	347·1	+12·4			251
1906.				°	°	°			
99·474	CL, RF		0·908	113·0	346·3	−23·3			457
G.			0·954	55·4	346·0	+30·5			174
			0·933	94·9	342·3	− 6·7			105
Apr. 10				(−26·5)	(51·5)	(−5·9)	(142)	(1004)	(2510)
100·526	CL, RF		0·889	270·2	100·3	− 2·5			64
			0·802	284·2	89·2	+ 7·7			196
			0·782	303·4	82·1	+21·4			207
		5843*a*	0·948	292·5	105·5	+19·1	20	154	276*c*
		5843	0·937	295·8	102·7	+21·7	0	10	
		5849	0·509	343·9	46·5	+23·5	3	20	
		5849	0·490	347·4	44·3	+22·7	0	3	
		5849	0·511	349·5	43·5	+24·3	0	7	
		5849*a*	0·480	349·7	43·0	+22·3	17	139	
		5849*b*	0·517	354·5	40·8	+25·0	45	262	
		5849	0·479	355·3	40·1	+22·6	0	5	
G.		5853*a*	0·318	44·5	24·8	+ 7·4	0	25	
		5852*a*	0·353	132·8	21·8	−19·5	13	95	
		5852	0·390	128·8	19·0	−19·6	0	3	
		5852	0·444	127·2	15·5	−20·9	0	12	
		5852*b*	0·448	122·9	14·3	−19·3	3	11	
			0·751	112·0	350·0	−20·3			124
			0·809	69·3	346·9	+13·0			209
			0·823	123·4	345·0	−30·5			98
			0·912	60·4	337·7	+23·9			85
			0·900	104·1	333·2	−15·2			585
			0·923	119·3	330·7	−29·2			88
			0·957	71·6	327·3	+15·7			219
Apr. 11				(−26·5)	(37·7)	(−5·8)	(101)	(746)	(2151)
101·479	CL, RF	5843*a*	0·995	290·4	106·8	+19·6	0	90	318*f*
		5847	0·824	294·5	76·3	+16·4	0	4	422*c*
		5849	0·593	328·8	44·8	+25·0	0	3	
		5849	0·566	329·7	43·2	+23·7	1	9	
		5849*a*	0·548	328·4	43·1	+22·4	14	92	
		5849*b*	0·567	334·4	40·7	+25·2	49	278	
		5853*a*	0·234	0·7	24·9	+ 7·8	4	19	
		5852*a*	0·244	169·6	22·4	−19·5	16	67	
G.		5852	0·303	148·7	15·5	−20·6	0	9	
		5852*b*	0·293	143·0	14·4	−19·1	2	5	
		5854*a*	0·470	53·6	2·5	+10·9	7	27	
		5854*b*	0·510	55·5	359·8	+11·6	5	27	
			0·717	105·4	339·6	−15·0			372
			0·940	69·7	318·2	+16·9			629
			0·924	105·0	317·2	−16·0			479
			0·957	83·4	312·8	+ 4·6			74
			0·974	92·3	308·1	− 3·6			76
Apr. 12				(−26·4)	(25·1)	(−5·7)	(98)	(630)	(2370)

Group 5853, April 9–12. A regular spot, *a*, with occasionally one or two small companions.
Group 5854, April 10–18. A very small spot on April 10. The group is not seen on April 11, but has reappeared by April 12, as a straggling stream, which soon resolves itself into two distant spots, *a* and *b*. *b* has broken up by April 16.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
102·277	CL, AS		0·921	290·8	78·3	+16·6			328
			0·907	282·6	77·9	+ 8·9			265
			0·905	304·8	71·7	+28·1			119
			0·734	310·3	52·1	+23·8			231
		5847	0·867	295·9	69·9	+19·0	0	6	176*p*
		5847	0·850	297·0	67·7	+19·3	0	6	
		5849*a*	0·652	316·0	43·8	+22·9	12	100	
		5849	0·650	317·7	42·9	+23·7	0	9	178*c*
		5849*b*	0·647	321·7	40·7	+25·3	36	237	
M.		5852*a*	0·273	207·8	22·2	−19·6	12	41	
		5854*a*	0·334	32·2	4·1	+10·7	12	49	
		5854	0·354	35·3	2·5	+11·1	1	13	
		5854*b*	0·400	40·9	359·0	+12·1	13	40	
			0·768	107·6	324·7	−17·1			334
			0·897	67·6	314·5	+17·2			725
			0·910	108·5	308·7	−19·2			404
			0·951	121·4	302·4	−31·6			187
			0·951	95·2	302·2	− 6·7			473
Apr. 13				(−26·4)	(14·5)	(− 5·7)	(86)	(501)	(3420)
103·478	CL, RF		0·959	276·5	71·4	+ 4·6			235
			0·967	291·6	70·7	+19·2			352
			0·905	323·5	45·9	+42·9			192
		5849*a*	0·793	304·0	43·9	+22·4	12	73	687*c*
		5849*b*	0·780	308·4	40·9	+24·9	29	209	
		5852*a*	0·456	238·0	22·8	−19·1	0	16	
G.		5854*a*	0·297	336·6	5·6	+10·2	5	42	
		5854*b*	0·302	357·5	359·5	+11·9	0	18	
		5855	0·994	73·5	277·0	+15·7	39	448	161*p*
			0·844	63·8	305·9	+18·5			676
			0·810	112·4	305·4	−21·4			498
			0·865	95·1	298·7	− 7·2			676
			0·945	80·1	289·1	+ 7·4			107
Apr. 14				(−26·3)	(358·7)	(− 5·6)	(85)	(806)	(3584)
104·323	FS, AS		0·896	280·2	49·9	+ 6·6			172
			0·822	249·0	42·2	−20·3			358
		5849*a*	0·884	299·5	43·9	+22·8	13	83	795*c*
		5849*b*	0·868	303·3	40·6	+25·1	28	150	
		5852*a*	0·598	245·7	22·5	−18·7	0	8	98*p*
		5854*a*	0·410	312·1	5·5	+10·6	14	33	
M.		5854	0·394	322·3	1·7	+12·8	0	4	
		5854*b*	0·366	327·0	359·2	+12·4	3	12	
		5854*	0·570	52·7	319·6	+15·3	0	5	
		5854*	0·612	56·5	315·7	+15·0	0	21	
		5854*	0·640	58·0	313·4	+15·2	0	11	
		5855*a*	0·964	72·7	275·4	+15·0	32	190	444*c*
		5855*b*	0·974	71·8	273·1	+16·3	31	165	
1906.				°	°	°			
104·323	FS, AS		0·798	59·5	300·6	+20·1			515
			0·804	91·4	294·0	− 4·4			413
M.			0·874	103·9	286·3	−14·9			210
			0·923	80·6	281·3	+ 6·5			199
Apr. 15				(−26·3)	(347·5)	(− 5·5)	(121)	(682)	(3204)
105·503	CL, RF		0·912	261·6	38·1	− 9·9			107
			0·783	308·1	14·6	+24·9			197
			0·628	327·3	354·3	+26·8			57
		5849*a*	0·967	294·8	43·4	+22·3	16	57	876*c*
		5849*b*	0·952	298·4	39·2	+24·9	0	118	
		5856	0·829	291·4	24·6	+14·3	15	44	222*c*
		5856	0·816	294·7	22·5	+16·5	9	47	
		5852*a*	0·777	250·0	22·3	−18·9	0	3	
		5852	0·747	248·4	19·4	−19·7	10	25	296*c*
		5852	0·710	245·7	15·7	−20·9	3	10	
		5852	0·703	247·5	15·4	−19·5	6	50	
G.		5854*a*	0·597	295·6	5·1	+10·4	6	18	
		5854	0·558	301·6	1·0	+12·3	0	6	
		5854	0·538	303·2	359·3	+12·3	0	7	
		5857	0·504	127·7	306·5	−22·8	1	5	
		5855	0·841	67·1	278·5	+15·9	2	10	
		5855	0·860	65·0	277·0	+18·3	2	11	1127*c*
		5855*a*	0·864	68·6	275·6	+15·4	34	186	
		5855*b*	0·882	68·1	273·7	+16·4	26	139	
			0·936	46·3	273·6	+37·5			108
			0·961	83·2	258·9	+ 5·0			377
Apr. 16				(−26·2)	(332·0)	(− 5·4)	(130)	(736)	(3367)
106·224	FS, CL		0·907	274·8	26·9	− 2·1			133
			0·888	284·2	23·1	+10·0			127
			0·834	313·3	7·4	+31·1			204
		5849*a*	0·993	293·6	42·8	+22·7	0	46	334*f*
		5856	0·916	289·1	25·9	+15·1	9	25	191*c*
		5856	0·895	292·2	22·3	+17·1	0	22	
		5852	0·846	250·8	19·9	−19·0	8	23	
		5852	0·807	246·4	15·2	−22·1	0	3	376*c*
		5852	0·802	249·1	15·0	−19·8	3	17	
		5854*a*	0·716	290·9	5·2	+10·9	6	13	
M.		5854	0·681	295·0	1·5	+12·6	0	3	200*c*
		5854	0·663	292·4	0·8	+10·5	0	5	
		5854	0·675	299·5	359·8	+15·2	0	8	
		5857	0·382	139·0	306·8	−21·8	1	7	
		5855	0·751	63·9	278·1	+15·5	5	22	
		5855	0·764	63·4	277·2	+16·3	0	2	
		5855	0·777	61·9	276·5	+17·8	3	28	554*c*
		5855*a*	0·781	65·2	275·2	+15·5	27	178	
		5855	0·807	62·9	273·5	+18·1	3	21	
		5855*b*	0·805	65·1	273·0	+16·4	19	136	

Group 5855, April 14–26. Return of Group 5826. A large cluster of which a close pair of large regular spots, *a* and *b*, forms the chief item. *a* and *b* alone remain after April 25.
Group 5854*, April 15. A small cluster of very faint spots.
Group 5856, April 16–18. A pair of small spots.
Group 5857, April 16–22. A few very small unstable spots. The group is not seen on April 18 and 21.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
106·224	FS, CL		0·640	70·0	285·1	+ 8·4			146
			0·868	118·7	263·6	−27·4			144
			0·932	68·6	257·0	+17·7			405
M.			0·933	82·3	254·4	+ 5·2			478
			0·971	100·9	245·7	−11·9			307
Apr. 17				(−26·2)	(322·4)	(−5·3)	(84)	(559)	(3599)
107·216	AS, CL		0·954	280·6	20·5	+ 8·4			143
		5856	0·986	286·5	27·6	+15·3	6	57	267n
		5856	0·973	287·1	23·7	+15·3	0	4	
		5852	0·943	252·1	20·3	−18·6	0	12	429f
		5854a	0·850	286·4	5·2	+10·9	1	11	334c
		5854	0·818	289·0	1·4	+12·2	0	4	
		5855	0·599	55·3	278·7	+15·3	4	35	
		5855	0·628	53·6	277·4	+17·4	0	10	
		5855	0·608	57·8	277·3	+14·4	0	1	
		5855	0·645	54·8	275·9	+17·4	7	43	
M.		5855a	0·644	57·8	275·0	+15·6	32	181	245c
		5855	0·664	55·3	274·5	+17·8	0	4	
		5855	0·677	55·3	273·6	+18·3	3	10	
		5855b	0·672	58·2	272·9	+16·4	19	128	
			0·806	65·4	259·7	+16·2			353
			0·781	76·3	259·6	+ 7·3			98
			0·850	95·6	251·0	− 7·5			281
			0·861	81·6	250·8	+ 4·5			452
			0·942	62·5	243·6	+23·7			227
			0·929	104·8	240·7	−15·7			219
Apr. 18				(−26·1)	(309·3)	(−5·3)	(72)	(500)	(3048)
108·656	CL, RF		0·949	282·5	0·2	+10·1			268
			0·915	290·6	353·3	+16·5			282
			0·948	311·3	352·3	+36·4			237
			0·827	248·1	345·2	−20·9			136
			0·895	319·6	338·8	+39·5			183
		5857	0·376	220·1	305·2	−21·7	0	16	
		5857	0·355	216·5	303·3	−21·6	0	13	
		5855	0·388	26·3	280·0	+15·1	0	10	
		5855	0·441	32·9	275·8	+16·6	6	84	
G.		5855a	0·436	36·5	274·7	+15·4	28	185	
		5855	0·477	35·2	273·5	+17·9	5	51	
		5855b	0·465	38·6	272·7	+16·3	25	131	
			0·675	48·7	257·2	+22·0			155
			0·694	77·7	247·5	+ 4·7			253
			0·755	101·8	241·3	−12·3			394
			0·856	54·7	239·1	+26·4			249
			0·935	63·7	225·4	+22·3			239
			0·946	107·8	218·6	−18·6			224
			0·958	76·4	218·6	+11·4			425
Apr. 19				(−26·0)	(290·2)	(−5·2)	(64)	(490)	(3045)
1906.				°	°	°			
109·227	FS, CL		0·946	284·8	351·8	+12·2			243
			0·928	251·1	351·0	−19·4			369
			0·709	301·5	322·0	+17·8			145
		5857*	0·806	257·4	336·4	−13·2	0	3	125s
		5857	0·467	232·9	306·1	−21·0	1	7	
		5857	0·436	229·8	303·5	−21·1	1	5	
		5857	0·450	225·4	303·0	−23·1	0	6	
		5855	0·392	6·1	280·2	+17·8	0	2	
		5855	0·392	9·2	278·9	+17·6	1	4	
		5855	0·373	15·6	276·7	+15·9	0	4	
		5855	0·391	16·4	276·1	+16·9	8	77	
M.		5855	0·412	15·9	275·9	+18·2	0	9	
		5855a	0·381	20·7	274·7	+15·8	28	163	
		5855	0·408	20·2	274·2	+17·4	3	11	
		5855	0·422	20·9	273·6	+18·1	9	44	
		5855b	0·407	24·0	272·8	+16·8	20	112	
		5855	0·394	26·4	272·3	+15·6	0	5	
			0·803	50·8	238·6	+26·8			333
			0·756	106·5	234·1	−15·7			117
			0·914	62·7	221·4	+22·4			290
			0·908	108·4	217·3	−18·9			195
			0·934	75·2	215·6	+11·9			398
Apr. 20				(−25·9)	(282·7)	(−5·1)	(71)	(452)	(2215)
110·451	CL, RF		0·819	254·6	321·4	−15·4			92
			0·840	296·7	319·0	+19·1			380
		5855	0·402	335·5	276·6	+16·5	0	24	
		5855	0·370	335·0	275·9	+14·6	0	6	
		5855a	0·368	339·4	274·3	+15·1	29	163	
		5855b	0·379	344·5	272·6	+16·3	18	106	
			0·723	40·1	234·4	+29·3			145
G.			0·721	126·5	225·2	−29·2			149
			0·812	57·3	219·0	+22·7			387
			0·905	42·1	215·3	+39·1			117
			0·833	74·6	212·2	+ 9·9			671
			0·828	105·7	210·9	−15·8			110
			0·937	100·4	196·7	−11·5			161
Apr. 21				(−25·8)	(266·6)	(−5·0)	(47)	(299)	(2212)
111·675	CL, RF		0·955	291·2	320·2	+18·6			354
			0·924	254·1	318·2	−16·6			344
			0·928	308·1	310·3	+32·6			188
			0·842	241·2	305·9	−26·7			207
G.			0·814	265·7	304·9	− 6·4			455
			0·845	293·8	304·2	+17·1			204
		5857	0·818	247·4	304·3	−21·2	0	6	116e
		5855	0·564	310·0	277·1	+16·8	0	4	
		5855a	0·514	310·5	274·2	+15·0	21	150	

Group 5857*, April 20. A very small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
111·675	CL, RF	5855	0·539	315·1	273·9	+17·9	0	4	
		5855*b*	0·505	314·6	272·3	+16·2	18	133	
		5855*	0·368	333·1	260·3	+14·3	0	11	
G.		5855*	0·323	335·5	258·2	+12·2	1	3	
			0·806	99·8	196·7	−10·8			228
			0·950	104·1	178·2	−14·9			522
Apr. 22				(−25·7)	(250·4)	(−4·9)	(40)	(311)	(2618)
112·449	CL, RF		0·934	290·8	306·3	+17·5			204
			0·912	264·9	306·1	− 6·7			251
			0·866	245·3	299·2	−23·7			176
			0·766	264·6	290·2	− 7·3			192
			0·808	296·6	289·5	+18·1			100
		5855	0·650	303·5	274·6	+17·0	2	7	
		5855*a*	0·636	301·2	274·4	+15·2	28	147	279*c*
G.		5855	0·644	305·9	273·3	+18·1	0	1	
		5855*b*	0·622	304·2	272·5	+16·3	18	122	
		5855†	0·239	357·5	240·8	+ 9·0	0	3	
		5855†	0·257	359·2	240·4	+10·0	0	2	
		5855‡	0·417	52·2	220·7	+10·3	0	3	
		5858	0·987	76·6	160·9	+12·4	0	38	310*c*
		5858	0·990	79·1	159·7	+10·0	0	61	
			0·861	105·7	180·8	−16·0			260
			0·943	74·9	171·6	+12·5			84
			0·953	107·6	167·4	−18·3			169
Apr. 23				(−25·6)	(240·2)	(−4·8)	(48)	(384)	(2025)
113·603	AS, RF		0·959	248·3	298·9	−22·2			185
			0·933	266·7	293·8	− 4·8			309
			0·903	280·3	288·2	+ 7·2			137
			0·869	257·9	285·3	−12·8			190
			0·805	271·2	278·3	− 1·9			80
		5855*a*	0·804	293·0	274·8	+15·3	26	137	
		5855	0·815	297·7	274·6	+19·2	0	6	
		5855	0·808	296·2	274·3	+17·8	5	34	
		5855	0·814	299·0	274·0	+20·1	0	5	392*c*
		5855*b*	0·789	294·9	272·9	+16·2	19	113	
G.		5855	0·791	299·4	271·8	+19·7	0	4	
		5858	0·907	74·1	161·9	+12·3	13	78	
		5858	0·930	75·0	158·4	+12·1	6	41	581*c*
		5858	0·928	77·1	158·4	+10·1	13	77	
			0·739	103·6	177·6	−13·2			114
			0·837	72·2	170·5	+12·1			65
			0·954	158·3	168·1	−65·1			195
			0·855	108·1	166·5	−17·9			272
			0·902	63·1	165·1	+21·7			54
			0·949	96·1	153·1	− 7·3			87
			0·963	105·8	150·0	−16·5			216
Apr. 24				(−25·5)	(224·9)	(−4·7)	(82)	(495)	(2877)
1906.				°	°	°			
114·509	CL, RF		0·981	284·6	290·1	+13·3			523
			0·939	245·7	282·8	−24·4			77
			0·928	262·8	281·3	− 8·4			455
			0·876	282·3	272·7	+ 8·5			67
			0·898	301·5	270·9	+25·5			180
			0·806	235·9	263·1	−29·8			75
			0·763	287·9	260·4	+10·4			261
			0·767	303·1	256·5	+21·4			179
		5855	0·905	290·4	274·9	+16·3	0	8	
		5855*a*	0·896	289·7	273·8	+15·3	15	121	447*c*
		5855*b*	0·880	291·2	271·5	+16·2	12	81	
G.		5859	0·694	67·3	172·3	+12·0	0	5	
		5859	0·703	65·2	172·1	+13·7	3	15	147*c*
		5859	0·755	66·9	167·5	+14·0	0	10	
		5858	0·814	71·2	161·1	+12·4	10	81	
		5858	0·831	75·1	158·7	+ 9·6	10	33	
		5858	0·855	72·6	156·6	+12·3	9	68	510*c*
		5858	0·861	70·9	156·3	+13·8	0	12	
		5860	0·978	68·2	137·8	+20·2	0	56	153*c*
			0·731	106·5	166·6	−15·1			357
			0·800	63·1	164·5	+18·2			55
			0·814	125·8	162·6	−31·3			122
			0·905	101·4	148·0	−12·3			442
Apr. 25				(−25·4)	(213·0)	(−4·6)	(59)	(490)	(4050)
115·233	FS, AS		0·849	280·5	260·3	+ 6·5			378
			0·858	294·6	258·4	+18·3			370
			0·730	259·5	250·1	−10·7			136
		5855*a*	0·959	287·8	274·6	+15·6	4	122	521*c*
		5855*b*	0·949	289·2	272·5	+16·6	18	97	
		5861	0·901	238·8	265·9	−29·9	6	28	203*f*
		5861*	0·424	115·1	180·1	−14·5	0	4	
		5859	0·550	58·3	174·8	+12·8	0	6	
		5859*a*	0·571	59·3	173·3	+13·0	30	147	
		5859	0·602	57·3	171·9	+15·1	0	5	
		5859	0·600	61·5	170·8	+12·8	4	22	
		5859	0·629	60·9	169·0	+14·1	0	5	145*c*
M.		5859	0·645	58·2	168·7	+16·2	3	9	
		5859	0·648	60·2	167·9	+15·1	0	16	
		5859	0·647	61·9	167·5	+14·1	16	57	
		5858	0·702	67·2	162·1	+12·4	6	32	
		5858	0·724	71·9	159·3	+ 9·8	4	14	248*c*
		5858	0·758	69·6	156·9	+12·3	6	44	
		5860	0·925	66·3	139·4	+19·9	0	15	208*c*
		5860	0·948	66·9	135·3	+20·2	0	8	
			0·783	103·6	152·1	−13·4			272
			0·868	59·2	149·0	+23·8			104
			0·924	101·3	135·7	−12·1			188
Apr. 26				(−25·3)	(203·4)	(−4·5)	(97)	(631)	(2773)

Group 5855*, April 22. Two very small spots *sf* Group 5855.
Group 5855†, April 23. Two very small spots *sf* Group 5855*.
Group 5855‡, April 23. A very small spot, *f* Group 5855†.
Group 5858, April 23–30. Return of Group 5842. A few small spots in a very irregular stream. The group is not seen on April 29.
Group 5859, April 25–May 4. An irregular stream, undergoing great and frequent changes, forming immediately in advance of Group 5858. The leader, *a*, has become a large regular spot by April 27, but has divided into two portions by April 30 though the two parts are still measured together.
Group 5860, April 25–28. One or two very small faint unstable spots, *nf* Group 5858.
Group 5861, April 26. A very close pair of small spots.
Group 5861*, April 26. A very small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
116·515	AS, RF		0·969	240·3	262·1	−29·8			189
			0·940	292·8	253·2	+19·7			172
			0·912	263·2	252·3	− 8·0			172
			0·902	278·3	249·9	+ 5·6			408
			0·830	254·6	242·2	−15·2			122
			0·855	307·1	236·9	+28·2			194
		5862	0·964	285·8	259·0	+13·9	0	26	187c
		5862	0·949	287·7	255·7	+15·2	22	52	
		5859a	0·320	28·3	177·5	+12·0	31	202	
		5859	0·354	27·8	176·7	+13·8	0	3	
		5859	0·314	36·7	175·5	+10·2	0	7	
		5859	0·384	30·5	174·8	+14·9	1	7	
		5859	0·367	38·3	173·0	+12·4	3	13	
G.		5859	0·416	41·5	170·0	+13·8	3	26	
		5858	0·457	52·1	164·8	+12·2	5	11	
		5858	0·465	54·1	163·9	+11·7	0	6	
		5858	0·503	54·1	161·8	+13·1	1	5	
		5858	0·479	60·2	161·6	+ 9·8	0	7	
		5858	0·531	57·8	159·1	+12·5	4	26	
		5863	0·590	65·2	153·5	+10·6	4	11	
		5863	0·623	66·2	151·0	+11·0	0	3	
		5860	0·763	59·0	142·5	+20·0	0	10	186c
		5860	0·778	60·3	140·7	+19·6	2	10	
		5860	0·811	61·6	137·3	+19·8	0	6	
			0·909	54·4	128·3	+29·7			99
			0·928	71·1	120·8	+15·7			377
			0·941	104·5	116·0	−15·1			173
Apr. 27				(−25·1)	(186·4)	(−4·4)	(76)	(431)	(2279)
117·540	CL, RF		0·992	285·4	254·1	+14·7			109
			0·972	262·5	249·6	− 8·3			149
			0·950	273·4	244·2	+ 1·9			338
			0·884	254·3	234·9	−15·9			296
			0·896	286·8	234·4	+13·0			62
			0·895	301·4	230·5	+25·5			528
			0·893	315·7	224·1	+37·0			43
			0·752	290·7	218·8	+12·4			176
			0·686	249·7	215·0	−17·0			110
G.			0·745	310·2	211·8	+25·4			142
		5859	0·239	346·7	176·1	+ 9·1	0	5	
		5859a	0·276	350·3	175·6	+11·4	40	237	
		5859	0·317	353·4	175·0	+14·0	0	7	
		5859	0·295	357·7	173·6	+12·8	0	3	
		5859	0·264	0·0	172·9	+11·0	0	25	
		5859	0·338	1·9	172·2	+15·3	0	5	
		5859	0·266	7·7	170·8	+11·0	0	2	
		5859	0·291	7·5	170·7	+12·4	4	48	
		5859	0·332	7·9	170·2	+14·9	0	1	
		5859	0·320	13·4	168·5	+13·8	0	14	
1906.				°	°	°			
117·540	CL, RF	5859	0·326	16·8	167·4	+13·8	1	8	
		5858	0·326	32·5	162·6	+11·7	3	9	
		5858	0·365	35·4	160·4	+13·0	0	3	
		5858	0·382	42·5	157·7	+12·2	0	10	
		5863	0·422	52·7	153·0	+10·7	1	6	
		5860	0·654	52·6	139·5	+19·8	0	3	145c
		5860	0·686	55·3	136·3	+19·5	0	11	
G.		5860	0·706	56·9	134·2	+19·3	0	9	
			0·840	63·6	120·2	+19·3			174
			0·865	99·3	113·0	−10·2			88
			0·947	63·6	105·7	+23·3			155
			0·954	73·7	102·4	+14·1			121
			0·963	82·6	99·4	+ 5·9			48
			0·981	65·8	97·1	+22·7			120
Apr. 28				(−24·9)	(172·9)	(−4·3)	(49)	(406)	(2804)
118·476	CL, RF		0·955	254·3	233·5	−16·2			172
			0·958	305·8	227·5	+32·5			94
			0·908	299·0	220·7	+24·0			400
			0·863	247·9	219·3	−21·1			23
			0·873	286·6	219·2	+12·3			242
		5859a	0·371	315·6	175·8	+11·3	26	222	
		5859	0·321	316·5	173·4	+ 9·3	3	14	
G.		5859	0·349	324·0	172·6	+12·2	1	9	
		5859	0·331	326·2	171·3	+11·8	0	5	
		5859	0·338	331·2	170·1	+13·0	5	32	
		5863	0·296	23·6	153·6	+11·5	9	42	
		5863	0·305	32·2	151·0	+10·7	6	31	
		5863	0·331	33·0	149·9	+12·0	0	6	
		5863	0·331	36·8	148·9	+11·2	0	8	
			0·910	67·3	98·3	+18·6			696
Apr. 29				(−24·8)	(160·5)	(−4·2)	(50)	(369)	(1627)
119·674	AS, RF		0·936	257·0	214·2	−13·6			125
			0·958	296·8	214·1	+24·2			112
			0·930	245·4	212·5	−24·3			112
			0·937	285·8	212·4	+13·3			194
		5859	0·540	293·7	174·6	+ 9·0	0	31	
		5859a	0·548	297·5	174·3	+11·0	38	291	
G.		5859	0·528	302·4	171·8	+12·7	0	8	
		5859	0·496	301·0	170·3	+11·1	0	47	
		5859	0·502	305·9	169·3	+13·3	0	32	
		5858	0·379	317·7	159·8	+12·3	0	6	
		5858	0·317	312·1	158·4	+ 8·2	0	4	
		5863	0·314	329·7	154·0	+11·6	8	30	
		5863	0·274	331·6	152·3	+ 9·8	0	3	
		5863	0·264	339·2	150·1	+10·2	7	37	

Group 5862, April 27. Two spots seen only close to the west limb.
Group 5863, April 27–May 3. A few spots in a short stream, *f*, Group 5858.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
119·674	AS, RF		0·807	56·1	97·7	+24·0			151
			0·903	70·3	82·8	+15·8			550
G.			0·927	82·4	77·5	+ 5·5			157
			0·960	93·7	70·9	− 4·7			199
Apr. 30				(−24·6)	(144·7)	(−4·1)	(53)	(489)	(1600)
120·432	CL, RF		0·931	286·5	201·2	+13·7			193
			0·822	277·8	189·2	+ 4·1			83
			0·744	250·0	181·7	−17·5			173
			0·590	250·1	169·6	−14·9			33
		5859*a*	0·677	291·4	174·5	+11·3	52	326	240*c*
		5859	0·628	293·0	170·6	+11·0	0	15	
		5859	0·622	298·2	168·9	+13·7	0	15	
		5863	0·426	309·0	154·4	+11·7	4	43	
G.		5863	0·381	311·5	151·5	+10·7	0	3	
		5863	0·360	313·5	150·0	+10·4	3	18	
		5864*a*	0·517	340·2	145·8	+25·0	7	23	
		5864	0·499	342·0	144·4	+24·2	0	3	
		5864	0·503	345·9	142·5	+25·2	2	12	
		5864	0·486	345·8	142·2	+24·0	0	18	
			0·830	67·0	82·1	+16·5			530
			0·881	81·3	73·8	+ 5·8			311
May 1				(−24·4)	(134·7)	(−4·0)	(68)	(476)	(1563)
121·358	FS, AS		0·904	263·0	187·1	− 8·0			132
			0·862	253·5	181·6	−16·2			315
			0·843	302·8	173·5	+24·7			144
			0·790	243·4	172·4	−23·2			286
		5859*a*	0·824	287·0	175·8	+11·6	16	222	513*c*
		5859	0·815	284·9	175·3	+ 9·8	0	11	
		5859	0·806	287·5	173·9	+11·6	14	118	
		5859	0·770	288·2	170·4	+11·3	0	6	
		5859	0·764	291·6	169·2	+13·7	0	10	
		5863	0·600	296·4	155·6	+12·1	2	11	228*p*
M.		5863	0·528	298·8	150·4	+11·3	0	4	
		5864*a*	0·613	321·9	147·0	+25·2	14	57	147*c*
		5864	0·589	323·2	145·1	+24·5	0	7	
		5864	0·569	325·6	143·0	+24·3	4	20	
		5864	0·563	328·6	141·2	+25·0	3	20	
			0·624	43·9	94·4	+23·2			145
			0·715	60·5	81·8	+17·6			437
			0·716	81·1	77·4	+ 3·6			224
			0·831	72·2	68·5	+12·4			121
			0·881	61·2	65·6	+23·0			125
			0·976	63·1	48·4	+25·2			326
May 2				(−24·3)	(122·4)	(−3·9)	(53)	(486)	(3143)
1906.				°	°	°			
122·370	CL, AS		0·872	251·0	169·1	−18·4			326
			0·885	289·0	168·8	+14·9			254
		5859*a*	0·930	284·5	175·7	+12·0	29	142	263*c*
		5859	0·920	283·9	174·4	+11·2	7	60	
		5863	0·757	289·9	155·6	+12·3	0	16	338*c*
M.		5864*a*	0·739	310·4	147·4	+25·5	11	58	125*c*
		5864	0·716	311·5	145·2	+25·2	0	4	
		5864	0·682	313·3	142·0	+24·6	1	16	
		5864	0·683	314·5	141·5	+25·3	0	5	
		5864	0·690	316·2	141·2	+26·6	0	5	
			0·933	64·7	43·8	+21·9			513
May 3				(−24·1)	(109·0)	(−3·8)	(48)	(306)	(1819)
123·508	AS, RF		0·948	252·4	165·5	−17·9			296
			0·945	296·7	161·0	+23·7			126
			0·889	285·5	154·9	+12·0			464
			0·900	228·6	153·3	−38·4			115
			0·854	256·5	152·4	−13·4			108
			0·873	320·0	140·4	+39·4			49
			0·732	318·5	128·0	+30·1			157
		5859	0·989	282·1	174·4	+11·4	31	199	727*f*
		5864*	0·851	264·3	152·3	− 6·8	0	7	64*p*
G.		5864*a*	0·865	303·1	147·5	+25·9	5	24	317*c*
		5864	0·846	303·6	145·2	+25·5	0	9	
		5864	0·810	304·8	141·0	+25·0	0	12	
		5864	0·800	302·8	140·8	+23·1	0	5	
		5865*a*	0·989	80·5	13·5	+ 8·8	23	148	266*c*
		5866	0·995	110·5	8·7	−20·8	46	342	228*c*
			0·857	56·8	41·5	+25·7			817
			0·912	113·4	29·0	−22·8			288
			0·923	71·2	29·0	+15·7			307
			0·917	78·6	28·7	+ 8·9			74
May 4				(−23·9)	(94·0)	(−3·7)	(105)	(746)	(4403)
124·400	CL, RF		0·946	263·8	153·3	− 7·1			80
			0·954	284·1	153·2	+12·3			274
			0·846	281·0	138·8	+ 7·3			100
		5864	0·933	298·9	146·5	+25·2	0	6	467*f*
		5865*a*	0·928	79·4	15·2	+ 8·4	21	104	360*f*
G.		5866	0·967	110·9	6·9	−21·1	51	522	481*c*
		5866	0·987	111·8	1·0	−22·1	0	256	
			0·755	51·7	41·5	+25·1			380
			0·876	51·2	29·5	+31·1			233
			0·848	111·9	25·3	−20·4			336
			0·867	69·1	25·0	+16·0			274
May 5				(−23·7)	(82·2)	(−3·6)	(72)	(888)	(2985)

Group 5864, May 1–5. A small stream, *nf* Group 5863. The leading spot, *a*, is the largest and most stable member of the stream.
Group 5864*, May 4. A very small spot, seen only near the west limb.
Group 5865, May 4–16. Return of Group 5854. A large regular spot, *a*, with occasionally a few small companions.
Group 5866, May 4–17. A very large regular spot, *a*, closely followed by a train of small spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
125·290	FS, CL		0·933	255·8	139·4	−14·5			215
			0·948	295·9	138·4	+23·2			354
			0·920	267·7	137·3	− 3·5			250
			0·901	283·3	133·3	+10·3			190
			0·880	241·7	130·2	−26·4			179
			0·799	295·1	119·7	+17·5			163
		5865*a*	0·839	77·8	14·7	+ 8·3	21	157	442*f*
		5866*a*	0·905	111·5	6·4	−20·9	42	407	
		5866	0·905	109·3	6·2	−18·9	0	12	
M.		5866	0·919	114·4	4·7	−23·7	0	39	470*c*
		5866	0·930	111·9	2·5	−21·7	10	87	
		5866	0·945	112·2	359·9	−22·1	9	88	
		5867	0·967	76·8	356·6	+11·8	0	18	193*c*
		5867	0·969	75·3	356·4	+13·3	8	17	
			0·728	61·7	28·4	+17·5			257
			0·797	46·7	28·3	+30·5			154
			0·774	116·6	22·1	−22·6			204
May 6				(−23·5)	(70·5)	(−3·5)	(90)	(825)	(3071)
126·325	AS, CL		0·895	294·5	116·7	+20·1			277
			0·744	294·2	101·3	+15·3			124
		5865*	0·316	354·9	58·5	+14·9	7	17	
		5865*	0·306	0·2	56·8	+14·3	0	4	
		5865*	0·330	2·5	55·9	+15·8	2	8	
		5865*	0·353	6·7	54·3	+17·0	0	3	
		5865*a*	0·689	74·4	14·9	+ 8·1	19	176	
		5865	0·698	72·3	14·5	+ 9·7	0	6	
		5865	0·710	75·1	13·1	+ 8·1	0	9	128*c*
		5868	0·742	72·9	10·9	+10·2	0	4	
		5868	0·756	73·2	9·6	+10·3	5	24	
M.		5866*a*	0·784	114·1	7·0	−20·9	43	303	
		5866	0·807	113·9	4·7	−21·1	4	60	
		5866	0·804	111·4	4·6	−19·1	0	7	
		5866	0·824	113·5	2·9	−21·2	7	53	356*c*
		5866	0·830	114·9	2·5	−22·4	0	5	
		5866	0·851	113·4	359·9	−21·6	12	65	
		5866	0·883	113·7	356·0	−22·5	0	6	
		5867	0·889	73·0	356·1	+13·4	1	7	286*c*
		5867	0·898	74·4	354·7	+12·4	2	12	
			0·820	66·5	5·1	+17·0			104
			0·951	113·8	345·2	−23·7			249
May. 7				(−23·3)	(56·8)	(−3·4)	(102)	(769)	(1524)
127·447	AS, RF		0·932	295·8	107·0	+22·5			309
			0·852	285·4	98·6	+11·3			136
G.			0·800	303·8	88·5	+24·1			118
		5865*	0·419	315·4	59·5	+14·2	0	12	
		5865*	0·382	322·1	55·9	+14·3	0	4	
1906.				°	°	°			
127·447	AS, RF	5865*a*	0·480	68·7	15·2	+ 7·0	30	187	
		5865	0·503	66·7	14·2	+ 8·5	0	2	
		5865	0·519	63·4	13·9	+10·5	0	8	
		5868	0·575	66·9	9·5	+10·2	0	9	
		5866*a*	0·619	120·7	7·3	−21·1	45	287	
		5866	0·647	120·2	5·1	−21·6	9	44	
G.		5866	0·674	121·6	3·4	−23·2	0	4	264*c*
		5866	0·672	118·6	2·8	−21·3	6	42	
		5866	0·701	118·4	0·4	−21·9	0	22	
		5867	0·754	69·9	355·5	+12·7	0	12	230*f*
			0·821	119·0	349·4	−25·4			229
			0·862	104·0	342·7	−13·7			164
			0·972	68·4	327·9	+20·1			348
May 8				(−23·1)	(41·9)	(−3·3)	(90)	(633)	(1798)
128·239	FS, CL		0·937	280·8	99·9	+ 8·9			162
			0·916	294·9	94·3	+21·2			218
			0·839	286·1	86·7	+11·6			171
			0·806	294·4	81·6	+17·4			148
			0·756	302·0	74·8	+21·2			119
		5865*	0·530	305·9	57·8	+15·2	0	18	
		5865*a*	0·326	56·6	15·7	+ 7·2	27	191	
		5865	0·363	53·2	14·4	+ 9·5	0	4	
		5865	0·355	57·6	14·0	+ 7·9	0	8	
		5868	0·404	61·6	10·6	+ 8·1	0	6	
		5868	0·424	56·5	10·5	+10·5	0	26	
M.		5866*a*	0·497	128·8	7·1	−21·1	37	281	
		5866	0·505	124·2	5·4	−19·3	0	14	
		5866	0·531	127·7	4·7	−21·7	9	31	
		5866	0·551	125·2	2·7	−21·3	0	33	
		5866	0·548	122·3	2·1	−19·8	0	9	
		5866	0·565	118·8	0·2	−18·5	0	5	
		5867	0·616	66·4	356·5	+11·6	0	5	
		5867	0·635	63·8	355·7	+13·7	2	8	
		5867	0·658	63·7	354·1	+14·4	0	6	
			0·835	102·7	335·2	−12·4			141
			0·914	67·5	328·5	+19·0			356
			0·925	119·1	325·4	−28·0			163
May 9				(−22·9)	(31·5)	(−3·2)	(75)	(645)	(1478)
129·403	FS, AS		0·939	287·9	84·0	+15·6			404
			0·887	274·9	78·1	+ 2·9			168
			0·910	298·8	77·1	+24·5			255
		5865*a*	0·164	2·4	15·7	+ 6·3	28	159	
M.		5865	0·172	9·3	14·5	+ 6·7	2	4	
		5865	0·135	12·9	14·4	+ 4·4	0	9	
		5865	0·212	10·4	13·9	+ 8·9	0	3	
		5866	0·315	149·5	6·4	−18·7	0	8	

Group 5867, May 6–18. A few very small spots in an irregular stream. The group suddenly developes after May 13 into a fine stream, which quickly consists of three large spots, *a*, *b* and *c*. *b* and *c* soon coalesce to form a large composite spot, *d*.
Group 5865*, May 7–9. A few small spots.
Group 5868, May 7–9. A few very small spots *f* Group 5865.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
129·403	FS, AS	5866*a*	0·356	153·4	6·3	−21·6	38	270	
		5866	0·336	149·7	5·8	−19·8	0	9	
		5866	0·400	151·1	4·0	−23·5	0	7	
		5866	0·392	148·8	3·5	−22·5	3	10	
		5866	0·358	144·8	3·5	−20·0	1	11	
		5866	0·385	145·1	2·5	−21·4	0	11	
M.		5866	0·429	139·3	358·6	−21·9	0	15	
		5867	0·441	51·2	355·5	+13·1	1	5	
			0·820	61·6	325·7	+21·0			272
			0·822	113·0	322·4	−20·6			182
			0·940	98·0	306·1	− 8·6			316
			0·958	73·9	304·5	+14·4			501
			0·959	113·5	303·0	−23·4			235
May 10				(−22·6)	(16·1)	(−3·1)	(73)	(521)	(2333)
130·213	CL, AS		0·972	287·2	80·1	+15·9			164
			0·934	298·5	70·3	+25·2			123
			0·823	291·0	58·0	+15·3			124
			0·772	311·4	46·4	+28·4			462
		5865*a*	0·253	311·6	16·3	+ 6·7	20	140	
		5865	0·241	316·6	15·0	+ 7·1	1	6	
		5866	0·265	190·9	8·4	−18·0	0	4	
		5866*a*	0·308	183·7	6·6	−20·9	40	261	
		5866	0·274	183·0	6·3	−18·8	4	29	
		5866	0·335	181·1	5·8	−22·5	0	4	
		5866	0·335	174·9	3·6	−22·4	0	9	
M.		5866	0·311	170·9	2·4	−20·8	2	14	
		5866	0·346	170·1	1·7	−22·8	0	8	
		5867	0·332	29·0	355·9	+13·9	1	4	
		5869	0·876	72·0	306·4	+14·2	0	12	421*f*
			0·722	55·2	325·8	+22·0			300
			0·832	65·4	312·7	+18·4			140
			0·867	99·6	305·4	− 9·8			239
			0·910	116·5	301·4	−25·3			224
			0·948	61·2	298·0	+26·0			226
			0·948	92·1	294·1	− 3·0			194
			0·957	105·5	292·3	−15·7			274
May 11				(−22·5)	(5·4)	(−3·0)	(68)	(491)	(2891)
131·516	CL, RF		0·954	286·2	59·0	+14·5			411
			0·871	304·8	42·1	+28·1			446
			0·801	317·2	28·8	+33·7			218
		5865*a*	0·493	288·0	16·1	+ 6·2	18	177	
G.		5865	0·461	289·9	13·9	+ 6·4	0	2	
		5866	0·404	229·5	6·8	−17·9	5	32	
		5866*a*	0·425	222·2	5·8	−21·1	48	280	
1906.				°	°	°			
131·516	CL, RF	5866	0·379	228·6	5·3	−17·2	0	14	
		5866	0·431	217·7	4·6	−22·7	0	8	
		5866	0·386	223·7	4·4	−18·9	0	17	
		5867	0·310	334·4	356·0	+13·3	3	6	
		5867	0·271	340·1	353·5	+11·8	0	6	
G.			0·702	99·3	303·8	− 8·6			267
			0·777	67·5	300·2	+15·3			197
			0·897	141·0	294·1	−45·9			40
			0·856	109·7	290·2	−18·3			74
			0·908	126·2	286·6	−33·7			56
			0·908	83·1	283·5	+ 5·1			141
			0·939	71·4	280·3	+16·3			429
May 12				(−22·1)	(348·1)	(−2·9)	(74)	(542)	(2279)
132·302	FS, AS		0·920	301·2	39·7	+27·1			541
			0·873	288·9	36·3	+15·0			212
			0·880	311·5	30·1	+33·9			240
			0·720	241·7	20·6	−22·0			240
		5865*a*	0·650	283·6	17·0	+ 6·6	14	139	98*f*
		5866	0·552	240·7	8·0	−18·1	0	5	
		5866*a*	0·550	234·5	6·3	−21·1	43	304	
		5866	0·518	237·4	5·0	−18·7	0	16	
		5866	0·543	230·9	4·7	−22·5	0	4	
		5866	0·512	235·0	4·0	−19·5	0	4	
		5866	0·506	232·0	2·8	−20·6	0	5	
		5867	0·399	311·3	355·5	+12·6	7	34	
		5867	0·380	313·1	354·1	+12·3	0	4	
		5867	0·359	313·5	353·1	+11·6	0	2	
		5867	0·361	317·3	352·2	+12·6	0	9	
		5869*	0·465	30·0	323·3	+21·0	0	4	
M.		5869	0·539	58·7	309·5	+13·8	0	6	
		5869	0·586	58·6	306·6	+15·3	22	106	
		5869	0·587	61·2	305·8	+14·0	0	6	
		5869	0·607	57·4	305·6	+16·6	0	7	
		5869	0·595	63·1	304·8	+13·3	17	48	
		5869	0·621	58·2	304·4	+16·8	0	17	
		5869	0·611	64·4	303·4	+13·0	7	26	
		5869	0·634	59·8	303·0	+16·2	3	16	
		5869	0·639	63·0	301·8	+14·6	0	8	
		5869	0·653	62·3	301·0	+15·4	15	44	
			0·647	78·4	298·3	+ 5·4			150
			0·736	61·5	294·9	+18·5			138
			0·767	114·7	289·8	−20·5			306
			0·836	67·7	284·0	+16·8			265
			0·884	125·1	279·4	−32·0			320
			0·919	80·3	271·9	+ 7·8			237
			0·951	67·0	268·3	+20·9			250
May 13				(−21·9)	(337·7)	(−2·8)	(128)	(814)	(2997)

Group 5869, May 11–22. A very interesting group commencing as some faint markings. It is not seen on May 12, but breaks out afresh on May 13 as a nearly circular ring of spots, enclosing a great area of the surface. The spots of the ring draw out on May 14 and 15, to form a very compact stream of which *a* and *b*, the first and last spots, are the largest.

Group 5869*. May 13. A very small spot, *np* Group 5869.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
133·663	AS, RF		0·953	288·2	30·4	+16·5			233
			0·904	246·5	23·2	−22·3			263
			0·919	304·4	20·7	+30·0			270
			0·786	297·1	7·4	+19·2			96
		5865*a*	0·846	279·4	16·7	+ 6·6	20	129	} 265*n*
		5865	0·831	279·8	15·1	+ 6·7	0	19	
		5866*a*	0·748	244·0	5·7	−20·9	36	308	} 329*c*
		5866	0·721	245·9	3·7	−19·0	4	21	
		5866	0·707	243·4	2·0	−20·3	0	10	
		5867*a*	0·642	292·5	357·0	+12·1	61	343	
		5867*b*	0·589	292·9	353·2	+11·0	12	68	
		5867*c*	0·576	296·4	351·6	+12·6	14	80	
G.		5867	0·559	295·0	350·8	+11·4	0	6	
		5869*a*	0·372	37·1	306·4	+14·7	40	301	
		5869	0·359	40·0	306·1	+13·4	3	12	
		5869	0·401	38·8	304·7	+15·6	0	16	
		5869	0·385	44·0	303·9	+13·6	12	92	
		5869*b*	0·429	46·9	301·0	+14·6	29	274	
			0·708	77·3	274·6	+ 7·1			59
			0·765	66·5	273·1	+16·0			143
			0·908	69·2	257·0	+17·7			388
			0·903	97·5	255·3	− 8·0			186
			0·934	80·6	251·6	+ 7·8			198
			0·946	107·5	249·1	−17·4			100
May 14				(−21·6)	(319·8)	(−2·6)	(231)	(1679)	(2530)
134·469	CL, RF		0·939	250·4	18·4	−19·2			284
			0·858	267·6	8·0	− 3·4			300
			0·611	256·5	346·1	−10·2			159
		5865*a*	0·930	277·7	16·8	+ 6·2	13	69	469*nf*
		5866*a*	0·849	246·2	5·4	−21·4	32	267	} 781*c*
		5866	0·824	248·2	3·1	−19·3	6	32	
		5866	0·817	246·3	2·0	−20·6	0	10	
		5867*a*	0·774	288·5	357·7	+12·6	62	437	} 178*c*
		5867*b*	0·715	288·1	352·8	+11·0	9	148	
		5867*c*	0·696	290·5	350·8	+12·3	19	133	
		5869	0·261	8·3	306·9	+12·4	0	22	
G.		5869*a*	0·297	7·6	306·8	+14·6	41	286	
		5869	0·293	15·7	304·4	+13·8	3	25	
		5869	0·311	20·8	302·6	+14·4	10	42	
		5869	0·291	22·6	302·5	+13·0	4	100	
		5869*b*	0·327	27·5	300·2	+14·3	26	285	
		5869	0·348	32·0	298·2	+14·7	1	11	
		5869	0·332	39·6	296·6	+12·3	0	12	
			0·687	64·4	269·3	+15·3			221
			0·880	43·4	259·1	+38·0			106
			0·797	101·5	256·7	−10·6			236
			0·857	62·8	254·3	+21·5			449
1906.				°	°	°			
134·469	CL, RF		0·899	134·3	251·9	−40·2			230
			0·860	84·1	250·3	+ 3·8			302
G.			0·953	148·0	247·5	−55·0			185
			0·957	105·1	236·1	−15·2			152
May 15				(−21·3)	(309·1)	(−2·5)	(226)	(1879)	(4052)
135·445	AS, RF		0·900	229·5	354·9	−37·0			379
			0·869	307·8	348·9	+30·7			143
			0·919	324·0	347·7	+46·5			270
		5865*a*	0·987	277·0	16·3	+ 6·5	29	108	513*n*
		5866*a*	0·938	248·1	5·0	−21·4	31	273	459*f*
		5867*a*	0·891	285·6	357·5	+12·7	64	476	} 517*c*
		5867*d*	0·841	285·7	351·7	+11·8	50	405	
		5869	0·377	327·9	308·1	+16·2	0	4	
		5869	0·385	329·4	307·9	+16·9	0	11	
		5869	0·313	325·5	306·5	+12·6	3	40	
		5869*a*	0·343	329·4	306·5	+14·8	51	378	
		5869	0·352	335·1	304·9	+16·2	0	12	
G.		5869	0·291	337·9	302·5	+13·2	1	8	
		5869*b*	0·298	345·6	300·5	+14·3	49	331	
		5869	0·299	354·6	297·8	+14·9	0	7	
			0·681	40·1	266·0	+29·2			122
			0·707	58·5	256·4	+19·8			279
			0·663	99·9	255·0	− 8·3			80
			0·763	76·1	247·7	+ 9·0			175
			0·903	57·8	236·8	+27·5			386
			0·941	138·2	232·6	−45·6			166
			0·908	104·5	231·3	−14·2			134
			0·949	77·4	225·6	+11·1			225
			0·976	112·8	218·9	−22·8			161
May 16				(−21·1)	(296·1)	(−2·4)	(278)	(2053)	(4009)
136·204	FS, CL		0·910	294·1	348·6	+20·8			212
		5866*a*	0·984	247·8	5·6	−22·2	0	217	} 460*f*
		5866	0·983	249·3	5·5	−20·8	0	33	
		5867*a*	0·958	283·6	358·2	+12·3	99	474	} 513*c*
		5867*d*	0·921	283·8	351·9	+11·7	72	471	
		5869	0·492	312·5	308·3	+17·2	0	13	
		5869*a*	0·451	309·0	307·2	+14·3	67	418	
		5869	0·420	307·8	305·9	+12·7	0	21	
M.		5869	0·461	315·6	305·7	+17·0	0	27	
		5869	0·419	312·1	304·7	+14·1	0	18	
		5869	0·413	314·8	303·7	+14·7	0	14	
		5869	0·422	319·6	302·6	+16·5	0	5	
		5869*b*	0·374	318·3	300·9	+14·0	105	444	
		5869	0·359	325·6	298·2	+15·0	1	13	
		5869	0·328	322·4	297·9	+12·8	0	11	

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
136·204	FS, CL		0·814	101·6	232·1	−10·7			448
M.			0·853	74·1	229·2	+12·3			159
			0·941	113·3	216·8	−22·7			168
May 17				(−20·9)	(286·1)	(−2·3)	(344)	(2179)	(1960)
137·603	AS, RF		0·947	255·5	338·5	−14·4			221
			0·881	287·4	327·5	+14·2			81
			0·823	250·0	321·7	−17·7			89
			0·852	299·7	321·3	+23·7			249
			0·939	331·2	317·6	+53·9			129
		5867*d*	0·996	282·2	351·6	+11·9	70	559	151*f*
		5869*a*	0·680	294·3	307·3	+14·6	68	375	
G.		5869	0·651	298·0	304·2	+16·0	3	30	
		5869*b*	0·589	297·1	300·1	+13·7	49	326	
		5869	0·599	301·3	299·7	+16·2	0	4	
		5870*a*	0·996	81·0	183·3	+ 8·8	36	292	
			0·758	51·9	226·1	+26·2			173
			0·852	67·5	212·0	+17·8			136
			0·930	55·9	204·6	+30·4			136
			0·933	75·9	200·0	+12·3			295
May 18				(−20·5)	(267·6)	(−2·2)	(226)	(1586)	(1660)
138·637	CL, RF		0·965	290·8	326·8	+19·4			67
			0·901	248·5	317·1	−20·2			52
			0·883	263·8	315·9	− 6·5			195
			0·789	254·6	305·2	−13·4			194
			0·723	300·1	295·5	+19·7			56
		5869*a*	0·825	289·6	307·3	+14·8	61	420	
		5869	0·827	292·0	307·0	+16·8	0	20	
		5869	0·797	288·4	304·8	+13·3	0	11	
G.		5869	0·798	291·4	304·3	+15·6	0	9	455*c*
		5869	0·798	293·2	303·9	+16·9	4	28	
		5869*b*	0·744	290·6	299·6	+13·7	42	224	
		5870*a*	0·954	79·8	182·3	+ 9·1	43	341	
		5870*b*	0·978	80·3	176·8	+ 9·1	31	157	
		5870	0·979	78·8	176·6	+10·5	11	89	490*c*
		5870	0·993	80·8	171·4	+ 8·9	0	175	
			0·841	69·8	199·2	+15·6			88
			0·938	108·3	184·9	−17·9			196
			0·942	94·8	183·7	− 5·2			32
May 19				(−20·2)	(254·0)	(−2·1)	(192)	(1474)	(1825)
139·205	AS, CL		0·887	260·9	308·7	− 9·0			236
M.			0·843	300·3	299·0	+23·9			92
			0·828	233·0	296·8	−31·1			214
1906.				°	°	°			
139·205	AS, CL	5869*a*	0·892	287·7	307·6	+14·7	69	442	
		5869	0·878	285·8	306·2	+12·8	0	41	
		5869	0·873	286·6	305·5	+13·4	0	11	677*c*
		5869	0·877	291·5	305·1	+17·7	4	24	
		5869	0·867	287·4	304·7	+14·0	0	15	
		5869*b*	0·825	288·2	300·0	+13·7	35	237	
		5870	0·857	80·0	188·3	+ 7·5	0	6	
		5870	0·887	80·2	184·7	+ 7·8	0	14	
M.		5870*a*	0·907	78·7	182·3	+ 9·3	54	291	
		5870	0·915	81·3	180·9	+ 7·1	0	15	812*c*
		5870	0·926	80·3	179·4	+ 8·2	5	44	
		5870*b*	0·944	78·9	176·6	+ 9·8	31	246	
		5870	0·948	80·6	175·7	+ 8·3	0	34	
		5870	0·971	80·2	170·9	+ 9·1	0	137	
			0·886	107·1	184·8	−16·0			347
May 20				(−20·0)	(246·4)	(−2·0)	(198)	(1557)	(2378)
140·212	FS, CL		0·895	274·6	296·2	+ 3·3			151
			0·894	260·3	296·2	− 9·5			243
			0·888	246·8	294·1	−21·4			270
			0·893	236·2	292·4	−30·6			161
			0·749	290·7	279·2	+14·1			182
		5869*a*	0·970	285·3	307·9	+14·4	84	464	
		5869	0·964	282·9	306·7	+12·0	0	62	
		5869	0·964	288·0	306·1	+16·8	0	21	831*c*
		5869	0·942	282·9	302·4	+11·5	0	4	
		5869*b*	0·928	285·3	299·8	+13·4	24	167	
		5870	0·788	72·7	182·9	+12·4	0	3	
M.		5870*a*	0·787	76·2	182·5	+ 9·7	51	311	
		5870	0·791	79·2	181·7	+ 7·4	0	29	
		5870	0·805	76·4	180·7	+ 9·8	0	5	
		5870	0·809	75·5	180·5	+10·6	4	30	475*c*
		5870	0·831	76·0	178·2	+10·5	0	2	
		5870	0·829	78·3	178·1	+ 8·6	4	11	
		5870*b*	0·846	77·4	176·5	+ 9·6	29	214	
		5870	0·888	79·4	171·4	+ 8·5	14	131	
			0·814	112·1	180·4	−18·9			288
			0·912	68·9	169·6	+18·4			183
			0·927	125·5	168·8	−33·3			131
			0·949	108·3	162·1	−17·9			196
May 21				(−19·7)	(233·1)	(−1·8)	(210)	(1454)	(3111)
141·394	FS, AS		0·952	245·5	288·5	−23·8			320
			0·866	291·7	274·9	+17·7			239
M.			0·848	278·3	274·8	+ 6·1			256
		5869	0·988	283·8	297·6	+13·3	0	52	426*f*

Group 5870, May 18–31. Return of Group 5859. Third apparition. A long irregular stream, divided into three principal sections. *a*, the principal spot in the first section, is a large well-defined composite spot. *b*, the principal spot in the second section, soon breaks up into a number of small spots. The two following sections of the group have disappeared by May 29.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
141·394	FS, AS	5870	0·576	74·4	183·6	+ 7·5	0	5	
		5870*a*	0·603	71·3	182·2	+ 9·8	52	334	
		5870	0·597	75·8	182·0	+ 7·0	0	2	
		5870	0·621	75·2	180·4	+ 7·8	0	11	224*c*
		5870	0·630	70·8	180·4	+10·6	7	41	
		5870	0·642	71·8	179·4	+10·2	0	12	
		5870*b*	0·670	73·9	176·9	+ 9·4	23	199	
		5870	0·693	72·1	175·5	+11·0	13	61	
M.		5870	0·713	76·0	173·3	+ 8·7	0	4	
		5870	0·728	76·3	172·0	+ 8·8	8	83	182*c*
		5870	0·753	77·0	169·8	+ 8·6	2	17	
			0·823	67·2	165·0	+17·5			202
			0·815	110·4	164·5	−17·5			252
			0·896	103·2	154·4	−12·6			187
			0·952	63·5	148·3	+24·5			185
May 22				(−19·3)	(217·5)	(−1·7)	(105)	(821)	(2473)
142·468	AS, RF		0·931	287·9	270·2	+16·0			324
			0·900	273·7	267·0	+ 2·7			177
			0·913	238·4	266·0	−29·2			102
			0·837	260·0	259·6	− 9·2			141
			0·737	288·5	248·7	+12·4			363
			0·779	306·3	247·5	+26·2			152
		5870*a*	0·398	60·5	182·7	+ 9·8	39	301	
		5870	0·440	62·2	180·0	+10·3	0	15	
G.		5870*b*	0·472	66·2	177·3	+ 9·5	39	177	
		5870	0·549	71·7	171·5	+ 8·6	9	51	
		5871*a*	0·952	77·2	132·0	+11·7	39	347	326*c*
		5871*b*	0·974	78·9	127·1	+10·4	31	259	
			0·712	118·0	161·1	−20·7			128
			0·762	74·2	155·1	+10·9			175
			0·857	95·0	144·5	− 5·1			185
			0·906	61·5	142·1	+24·8			350
May 23				(−19·0)	(203·2)	(−1·6)	(157)	(1150)	(2423)
143·645	CL, RF		0·917	276·4	253·7	+ 5·2			267
			0·928	291·6	253·6	+19·3			182
			0·912	301·9	248·9	+28·1			145
		5870	0·169	12·0	185·7	+ 8·0	0	6	
		5870	0·193	22·3	183·5	+ 8·8	0	4	
		5870*a*	0·218	20·5	183·3	+10·2	48	240	
G.		5870	0·263	31·5	179·7	+11·4	0	1	
		5870	0·238	39·7	178·9	+ 9·1	1	6	
		5870	0·293	32·4	178·5	+12·8	0	3	
		5870	0·275	36·5	178·1	+11·3	0	3	
		5870*b*	0·265	40·9	177·6	+10·0	5	98	
		5870	0·303	42·0	175·8	+11·5	6	41	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
143·645	CL, RF	5870	0·283	51·6	174·8	+ 8·6	4	9	
		5870	0·294	56·9	173·4	+ 7·8	0	5	
		5870	0·317	58·5	171·9	+ 8·1	2	10	
		5870	0·366	61·1	168·9	+ 8·8	3	21	
		5872*a*	0·552	73·6	155·5	+ 7·7	6	47	
		5872	0·571	71·5	154·6	+ 9·1	0	9	
		5872	0·582	74·4	153·4	+ 7·8	0	6	
		5872	0·607	69·9	152·4	+10·8	0	6	
		5872	0·604	72·5	152·2	+ 9·2	0	14	
G.		5871*a*	0·819	74·2	134·2	+12·0	34	268	
		5871	0·840	75·5	131·9	+11·3	10	42	
		5871	0·846	77·2	131·0	+10·0	0	6	311*c*
		5871	0·862	75·1	129·5	+12·0	0	4	
		5871*b*	0·891	77·3	125·7	+10·6	50	254	
			0·806	57·6	139·5	+24·5			241
			0·878	46·4	135·9	+36·2			99
			0·945	55·0	121·7	+32·2			81
			0·932	106·9	119·7	−16·3			106
			0·954	68·1	117·2	+20·3			305
May 24				(−18·6)	(187·7)	(−1·5)	(169)	(1103)	(1737)
144·679	CL, RF		0·968	281·8	248·7	+11·1			223
			0·929	252·9	241·5	−16·4			112
			0·832	284·3	229·0	+11·0			108
			0·831	300·9	225·3	+24·3			183
		5870	0·247	311·5	184·7	+ 8·0	0	6	
		5870*a*	0·254	320·3	183·4	+ 9·9	36	284	
		5870	0·272	325·2	183·1	+11·4	0	1	
		5870	0·237	334·3	180·0	+10·9	0	7	
		5870	0·196	335·9	178·6	+ 8·9	0	11	
		5870*b*	0·207	343·9	177·3	+10·0	9	59	
		5870	0·179	348·5	176·1	+ 8·7	2	7	
		5870	0·227	352·4	175·7	+11·6	0	10	
		5870	0·168	354·4	174·9	+ 8·2	0	1	
		5870	0·224	358·5	174·3	+11·5	0	5	
G.		5870	0·160	2·5	173·6	+ 7·8	0	3	
		5870	0·205	2·7	173·4	+10·4	1	3	
		5870	0·160	4·9	173·2	+ 7·8	0	4	
		5870	0·159	8·7	172·6	+ 7·6	0	2	
		5870	0·172	15·4	171·4	+ 8·1	0	2	
		5870	0·227	14·9	170·6	+11·2	0	1	
		5870	0·215	23·3	169·1	+10·0	0	4	
		5870	0·181	28·1	169·1	+ 7·8	0	9	
		5870	0·214	27·3	168·3	+ 9·5	1	7	
		5872*a*	0·330	63·1	156·8	+ 7·3	15	60	
		5872	0·362	64·5	154·8	+ 7·6	3	26	
		5872	0·398	62·2	153·2	+ 9·4	0	7	
		5872	0·407	65·7	152·1	+ 8·4	8	24	

Group 5871, May 23–June 4. Two large spots, *a* and *b*, with a few small companions. *a* is at first a double spot, but its two sections soon completely coalesce. *b* gradually breaks up.

Group 5872, May 24–June 2. A few small spots in an irregular stream, *f* Group 5870. The leader, *a*, is the largest and most stable member of the group at first. The group diminishes in size up to May 27, after which it revives, and becomes a straight stream of the ordinary type, *a* and *b*, the first and last spots, being the largest.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°		'	
144·679	CL, RF	5874	0·648	47·6	142·4	+24·6	0	5	89c
		5874	0·661	45·8	142·2	+26·2	3	34	
		5874	0·673	47·5	140·7	+25·7	3	35	
		5874	0·688	46·7	140·0	+26·9	2	12	
G.		5871a	0·664	70·1	134·5	+12·0	28	236	
		5871a	0·688	70·9	132·5	+11·9	17	109	
		5871	0·730	72·3	128·9	+11·8	0	9	
		5871b	0·766	74·8	125·4	+10·6	48	273	
		5873	0·902	70·8	111·5	+16·6	14	94	238c
		5873	0·925	69·7	108·3	+18·1	0	9	
May 25				(−18·3)	(174·0)	(−1·4)	(190)	(1359)	(953)
145·207	CL, AS		0·922	283·6	233·1	+12·0			228
			0·897	270·2	230·5	− 0·4			282
			0·892	251·9	229·0	−16·6			206
			0·905	297·8	228·2	+24·3			195
			0·821	285·3	220·8	+11·7			156
			0·806	310·4	212·3	+30·5			185
		5875	0·809	292·1	218·4	+16·9	0	5	149c
		5875	0·781	292·1	215·7	+16·2	0	7	
		5875	0·773	295·2	214·3	+18·3	0	3	
		5870	0·362	296·0	186·1	+ 7·9	2	13	
		5870	0·341	298·0	184·6	+ 8·0	3	14	
		5870a	0·357	304·3	184·4	+10·3	38	199	
		5870	0·326	295·5	184·2	+ 6·9	3	8	
		5870	0·338	300·7	184·0	+ 8·7	1	11	
		5870	0·331	304·9	182·9	+ 9·6	14	64	
		5870	0·313	302·4	182·4	+ 8·4	5	35	
		5870	0·293	303·5	181·2	+ 8·0	0	8	
		5870	0·311	314·7	180·0	+11·3	1	10	
M.		5870	0·277	311·6	179·1	+ 9·3	1	8	
		5870b	0·277	317·5	177·9	+10·4	7	32	
		5870	0·251	318·0	176·8	+ 9·5	1	6	
		5870	0·277	324·9	176·3	+11·8	1	3	
		5870	0·243	327·8	174·5	+10·6	0	3	
		5870	0·201	333·1	172·3	+ 9·0	0	7	
		5870	0·223	343·9	170·6	+11·0	0	11	
		5870	0·211	349·8	169·2	+10·7	0	18	
		5870	0·174	347·8	169·1	+ 8·5	0	10	
		5870	0·195	351·4	168·7	+ 9·8	2	6	
		5872a	0·229	47·0	157·3	+ 7·7	8	31	
		5872	0·258	51·4	155·3	+ 8·0	3	10	
		5872	0·302	51·7	153·2	+ 9·5	0	9	
		5872	0·302	55·2	152·5	+ 8·6	4	14	
		5872	0·307	58·7	151·7	+ 7·9	1	10	
		5874	0·581	40·8	142·4	+24·9	0	5	
		5874	0·594	39·6	142·2	+26·0	0	6	
		5874	0·640	35·1	141·9	+30·3	0	12	
1906.				°	°	°			
145·207	CL, AS	5874	0·609	39·0	141·6	+27·0	4	21	119c
		5874	0·626	41·0	139·7	+27·0	0	15	
		5874	0·636	43·5	137·9	+26·2	0	3	
		5871a	0·584	66·5	133·9	+12·4	50	353	408c
		5871	0·590	69·5	132·9	+10·9	3	10	
		5871	0·666	70·3	127·3	+12·0	0	4	
		5871b	0·689	72·3	125·2	+11·1	45	238	
		5871	0·697	70·3	124·9	+12·6	0	7	
		5873	0·846	69·6	111·5	+16·4	7	34	
		5873	0·853	68·1	111·0	+17·8	5	28	
M.		5873	0·858	70·1	110·1	+16·2	0	7	323c
		5873	0·872	68·9	108·6	+17·6	1	14	
		5873	0·878	70·3	107·7	+16·5	0	4	
		5873	0·885	67·9	107·2	+18·7	0	7	
			0·791	37·7	129·5	+37·6			221
			0·855	107·7	109·4	−15·7			312
			0·933	56·9	102·6	+30·1			230
			0·957	79·0	94·7	+10·1			240
May 26				(−18·1)	(167·0)	(−1·3)	(210)	(1323)	(3254)
146·343	FS, AS		0·944	298·7	219·6	+26·6			234
			0·902	260·6	216·0	− 8·9			204
			0·817	291·9	204·3	+17·1			127
		5875	0·939	288·6	220·3	+17·0	0	56	152c
		5875	0·910	288·6	215·8	+16·4	5	35	
		5875	0·895	290·5	213·4	+17·7	5	27	
		5870	0·587	284·2	186·9	+ 7·3	1	5	
		5870	0·596	289·5	186·7	+10·6	0	2	
		5870	0·579	285·0	186·2	+ 7·7	10	41	
		5870	0·592	291·7	186·0	+11·7	0	4	
		5870	0·563	287·2	184·8	+ 8·6	0	3	
		5870	0·555	282·8	184·8	+ 6·1	0	3	
		5870a	0·567	289·6	184·7	+10·0	33	166	
		5870	0·558	292·4	183·6	+11·3	0	3	
M.		5870	0·544	286·7	183·6	+ 8·1	10	146	
		5870	0·537	284·2	183·5	+ 6·6	1	11	
		5870	0·541	290·4	182·8	+ 9·9	19	98	
		5870	0·517	288·0	181·7	+ 8·2	0	3	
		5870	0·492	292·1	179·4	+ 9·6	0	6	
		5870	0·468	294·1	177·6	+10·0	0	5	
		5870	0·439	292·3	176·1	+ 8·6	0	6	
		5870	0·405	295·3	173·7	+ 8·9	0	10	
		5870	0·340	301·2	169·1	+ 9·1	0	7	
		5872	0·205	322·4	159·2	+ 8·2	0	4	
		5872a	0·178	326·3	157·7	+ 7·4	3	20	
		5872	0·127	325·5	156·1	+ 4·9	0	4	
		5872	0·171	336·0	156·0	+ 7·8	0	5	
		5872	0·159	349·3	153·7	+ 7·9	0	8	
		5872	0·169	355·1	152·8	+ 8·6	1	6	

Group 5874, May 25–29. A few small unstable spots, not seen on May 28.
Group 5873, May 25–31. A few small unstable spots.
Group 5875, May 26–27. A few small spots, seen only close to the west limb.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
146·343	FS, AS	5872	0·164	1·2	151·8	+ 8·3	8	33	
		5874	0·471	18·7	142·4	+25·3	0	12	
		5874	0·508	19·6	141·0	+27·4	0	9	
		5871*a*	0·379	52·7	134·1	+12·2	59	373	
		5871	0·381	58·9	132·7	+10·3	0	11	
		5871	0·407	53·6	132·5	+12·8	0	5	
		5871	0·423	55·3	131·2	+12·9	0	4	
		5871	0·453	62·7	127·9	+11·0	0	5	
		5871	0·477	61·9	126·6	+12·0	0	5	
		5871*b*	0·494	65·0	125·0	+11·0	47	211	
		5871	0·550	61·1	122·3	+14·4	0	15	
M.		5871	0·561	58·6	122·2	+16·0	0	4	
		5873	0·691	64·1	111·7	+16·7	2	17	
		5873	0·707	62·7	110·8	+18·0	0	11	216*c*
		5873	0·719	61·1	110·3	+19·5	0	6	
		5873	0·734	64·3	108·2	+17·7	3	18	
		5876	0·750	104·6	104·4	−11·6	0	7	385*c*
		5876	0·778	106·1	102·1	−13·1	0	9	
			0·594	64·1	118·7	+14·1			228
			0·706	52·4	114·2	+24·5			213
			0·897	55·0	93·9	+30·3			129
			0·915	71·0	87·6	+16·8			361
May 27				(−17·7)	(152·0)	(− 1·1)	(207)	(1439)	(2249)
147·711	CL, RF		0·936	276·8	202·8	+ 6·0			109
			0·934	292·9	200·7	+20·9			430
			0·880	257·8	195·0	−11·2			81
			0·796	246·5	184·3	−19·1			158
		5870	0·799	280·4	186·2	+ 7·7	0	44	
		5870*a*	0·783	283·7	184·3	+10·0	38	213	
		5870	0·775	281·6	183·8	+ 8·3	9	92	371*c*
		5870	0·761	280·0	182·7	+ 7·0	4	17	
		5870	0·754	282·1	181·9	+ 8·4	0	22	
		5872*a*	0·416	290·2	157·0	+ 7·3	16	76	
		5872	0·407	294·4	155·8	+ 8·7	0	6	
		5872	0·396	291·2	155·7	+ 7·3	1	5	
G.		5872	0·374	293·6	154·0	+ 7·7	0	3	
		5872	0·366	296·2	153·2	+ 8·4	1	8	
		5872	0·346	300·9	151·3	+ 9·3	0	4	
		5872*b*	0·335	297·7	151·2	+ 8·0	15	111	
		5871*a*	0·227	358·0	134·4	+12·1	59	351	
		5871	0·196	3·5	133·2	+10·3	0	2	
		5871	0·221	13·8	130·8	+11·4	0	7	
		5871	0·223	20·3	129·4	+11·0	0	9	
		5871	0·237	26·2	127·8	+11·3	0	5	
		5871*b*	0·247	34·6	125·7	+10·7	19	171	
		5873	0·467	51·0	111·8	+16·2	5	16	
		5873	0·484	50·2	111·1	+17·1	0	10	
		5873	0·516	52·8	108·5	+17·2	1	12	
1906.				°	°	°			
147·711	CL, RF	5873	0·543	54·7	106·4	+17·3	0	4	
		5876*a*	0·505	111·2	105·3	−11·4	8	67	
		5876*b*	0·552	112·7	102·5	−13·1	9	37	
G.			0·800	65·9	83·8	+18·4			169
			0·835	79·5	78·0	+ 8·2			81
			0·945	109·8	64·0	−19·0			154
May 28				(−17·3)	(133·9)	(− 1·0)	(185)	(1292)	(1553)
148·486	CL, RF		0·968	284·4	198·2	+13·7			51
			0·885	264·4	185·6	− 5·4			70
			0·880	248·1	183·5	−19·6			338
			0·748	283·0	171·0	+ 9·1			270
			0·751	296·7	168·6	+19·0			104
		5870*a*	0·882	281·8	184·6	+10·0	23	229	
		5870	0·879	279·5	184·4	+ 7·9	7	55	
		5870	0·870	281·5	183·2	+ 9·5	0	4	533*c*
		5870	0·863	278·7	182·2	+ 7·0	0	5	
		5870	0·857	280·4	181·8	+ 8·4	5	23	
		5872*a*	0·575	284·0	157·7	+ 7·3	18	118	
		5872	0·554	284·5	156·2	+ 7·2	0	2	
		5872	0·509	288·7	152·7	+ 8·6	2	12	
		5872*b*	0·482	288·8	150·9	+ 8·1	16	111	
		5874	0·527	331·8	139·7	+26·7	0	5	
G.		5874	0·548	339·2	136·5	+29·8	0	4	
		5874	0·490	339·6	134·5	+26·3	0	12	
		5871*a*	0·288	321·4	134·1	+12·1	54	339	
		5871	0·231	347·1	126·6	+12·1	0	5	
		5871*b*	0·207	349·5	125·8	+10·9	17	135	
		5873	0·357	33·4	111·8	+16·4	6	18	
		5876*a*	0·346	120·1	105·9	−10·9	9	77	
		5876	0·356	117·0	104·9	−10·2	1	5	
		5876*b*	0·404	120·3	102·8	−12·6	14	88	
		5879*	0·794	110·9	72·9	−17·0	0	5	92*p*
		5877	0·968	101·1	48·4	−11·0	0	37	
		5877	0·980	102·3	45·3	−12·3	0	14	
			0·874	113·6	64·8	−20·9			98
			0·949	126·1	55·7	−34·3			188
			0·934	81·3	55·1	+ 7·8			96
May 29				(−16·9)	(123·6)	(−0·9)	(172)	(1303)	(1840)
149·116	CL, RF		0·947						121
			0·947						113
			0·838						307
			0·790						145
			0·618						154
K.		5870*a*	0·957				41	208	
		5870	0·955				14	77	386*c*
		5870	0·952				0	14	
		5870	0·949				0	13	

Group 5876, May 27–June 3. A few small spots in a short stream. *a* and *b*, the first and last spots, are the largest and most stable members.
Group 5877, May 29–June 4. A few small spots on May 29. The group is not seen on May 30 or 31, but has revived by June 1. It then consists of a small dark spot, *a*, followed by a train of very small unstable spots.
Group 5879*, May 29. A very small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
149·116	CL, RF	5872*a*	0·725				15	99	
		5872	0·682				0	6	
		5872	0·668				0	5	
		5872*b*	0·644				25	158	
		5871*a*	0·420				56	342	
		5871	0·396				2	7	
		5871	0·362				0	8	
		5871*b*	0·300				18	130	
K.		5873	0·293				3	6	
		5873	0·307				3	12	
		5876	0·192				0	6	
		5876*a*	0·211				21	69	
		5876*b*	0·267				9	50	
			0·810						98
			0·858						66
			0·939						58
			0·957						170
			0·967						81
May 30				(−16·7)	(112·3)	(−0·8)	(207)	(1210)	(1699)
150·133	AS, RF		0·990	285·2	182·9	+14·9			145
			0·933	281·6	170·0	+10·6			305
			0·931	288·9	168·9	+17·3			150
			0·910	249·0	165·7	−19·2			127
			0·829	297·2	154·2	+21·9			122
			0·658	308·6	135·8	+23·7			209
		5870*a*	0·995	280·0	185·7	+ 9·9	30	268	363*f*
		5870	0·994	277·8	185·2	+ 7·7	0	45	
		5872*a*	0·845	278·3	158·9	+ 6·7	16	125	
		5872	0·830	276·8	157·4	+ 5·3	0	10	
		5872	0·816	280·1	155·8	+ 7·9	0	2	469*c*
		5872*b*	0·774	281·7	151·7	+ 8·6	17	125	
		5871*a*	0·568	293·0	134·0	+12·3	74	364	
		5871	0·542	288·4	133·1	+ 9·3	0	17	
K.		5871	0·556	298·5	132·0	+14·8	0	5	
		5871	0·530	296·0	130·9	+12·8	0	16	
		5871	0·486	296·5	128·1	+12·0	0	7	
		5871	0·470	297·7	126·9	+12·1	1	8	
		5871*b*	0·452	295·8	126·2	+10·8	29	133	
		5871	0·432	298·9	124·4	+11·5	2	16	
		5873	0·344	324·3	113·8	+15·6	0	3	
		5873	0·345	332·8	111·3	+17·2	1	6	
		5876	0·165	208·2	106·3	− 8·9	0	10	
		5876*a*	0·190	201·6	105·9	−10·7	10	50	
		5876	0·176	197·4	104·9	−10·2	0	5	
		5876	0·194	175·3	102·7	−11·7	0	5	
		5876*b*	0·198	183·8	102·6	−12·0	4	26	
		5878	0·951	74·4	30·8	+14·6	0	13	353*c*
		5878	0·965	74·1	28·0	+15·1	0	8	
1906.				°	°	°			
150·133	AS, RF		0·907	65·0	39·3	+22·3			149
			0·925	56·2	38·6	+30·7			235
K.			0·951	134·1	36·0	−41·6			127
			0·957	115·1	30·4	−24·1			99
			0·987	83·0	21·4	+ 6·8			208
May 31				(−16·3)	(101·8)	(−0·6)	(184)	(1267)	(3061)
151·519	AS, RF		0·950	252·1	154·4	−17·2			85
			0·935	285·3	151·7	+14·1			167
			0·908	241·8	145·8	−25·6			198
			0·867	258·6	143·0	−10·1			167
			0·827	303·1	134·1	+26·5			234
		5872*a*	0·969	276·4	158·9	+ 6·1	24	98	
		5872	0·950	278·0	154·8	+ 7·4	4	15	444*c*
		5872*b*	0·932	279·0	151·7	+ 8·2	8	69	
		5871*a*	0·784	286·7	133·7	+12·7	50	374	
		5871	0·729	287·4	128·7	+12·2	0	13	
		5871*b*	0·692	286·2	125·9	+10·7	25	118	341*c*
		5871	0·673	287·5	124·2	+11·3	0	6	
		5876*a*	0·413	245·4	105·8	−10·3	3	59	
		5876	0·384	240·5	103·3	−11·3	3	8	
G.		5877*	0·286	132·1	71·0	−11·5	0	3	
		5877*a*	0·576	114·2	50·8	−14·0	9	30	
		5877	0·610	112·8	48·2	−14·1	0	14	
		5878	0·821	71·1	30·1	+15·1	0	12	
		5878	0·834	69·0	29·2	+17·1	0	5	379*c*
		5878	0·862	72·6	25·4	+14·7	0	9	
			0·812	50·3	37·0	+30·8			205
			0·824	61·8	31·9	+22·5			63
			0·881	118·4	24·9	−25·0			119
			0·897	81·9	20·3	+ 7·0			323
			0·905	98·3	19·1	− 7·7			133
			0·947	56·5	16·2	+31·3			212
			0·973	68·4	8·1	+20·9			140
			0·988	112·0	3·1	−21·8			941
			0·988	78·8	2·9	+11·0			489
June 1				(−15·8)	(83·5)	(−0·5)	(126)	(833)	(4640)
152·343	FS, CL		0·907	298·0	134·5	+25·0			296
			0·777	305·6	117·4	+26·6			208
		5872	0·987	278·2	153·0	+ 8·1	0	63	377*p*
		5871*a*	0·889	284·8	134·3	+13·0	50	375	
		5871*b*	0·822	283·5	126·8	+10·8	7	40	310*c*
M.		5871	0·811	284·9	125·6	+11·8	1	15	
		5871	0·807	283·5	125·4	+10·6	9	39	
		5876	0·605	258·9	109·2	− 7·0	0	8	
		5876	0·589	255·2	107·7	− 9·0	0	14	
		5876	0·567	253·5	105·9	− 9·6	0	10	

May 30. The orientation of the photograph taken at Kodaikánal on this day appears to be in error.

Group 5878, May 31–June 10. A stream of small spots, in a beautiful serpentine curve at first, but straightening out into a stream of normal type; *a* and *b*, the first and last spots, being the largest. *b* has disappeared by June 8, but a revival takes place in this part of the group on June 9 and 10.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
152·343	FS, CL	5876	0·554	250·8	104·7	−10·8	0	9	
		5876	0·525	248·9	102·4	−11·2	0	10	
		5876	0·448	247·6	97·4	−10·2	0	5	
		5879	0·269	207·2	79·9	−14·2	0	4	
		5879	0·248	197·9	77·1	−14·0	2	6	
		5877*a*	0·426	124·4	51·4	−14·3	8	27	
		5877	0·443	122·7	50·1	−14·1	2	7	106*c*
		5877	0·462	122·1	48·9	−14·5	1	5	
		5877	0·480	120·0	47·3	−14·2	2	19	
		5878	0·698	67·7	30·8	+15·0	0	8	
		5878	0·735	68·0	27·7	+15·6	5	28	
		5878	0·740	70·4	26·8	+14·0	6	31	
M.		5878	0·756	67·7	26·0	+16·3	0	6	
		5878	0·749	71·7	25·8	+13·3	0	8	434*c*
		5878	0·762	70·1	25·0	+14·7	6	23	
		5878	0·777	68·6	23·9	+16·2	0	7	
		5878	0·785	66·6	23·6	+17·9	0	11	
		5880	0·926	77·1	5·7	+11·7	0	14	623*f*
		5881	0·952	118·1	2·6	−26·8	0	19	682*n*
			0·803	114·7	22·0	−19·8			228
			0·827	78·2	17·6	+ 9·5			223
			0·908	52·6	13·3	+33·2			198
			0·933	70·3	5·3	+18·1			86
June 2				(−15·5)	(72·6)	(−0·4)	(99)	(811)	(3771)
153·159	FS, CL		0·937	296·8	128·8	+24·9			269
			0·900	242·7	123·1	−24·5			324
			0·864	263·3	121·2	− 6·0			125
			0·798	294·5	111·8	+19·1			244
			0·766	309·0	104·3	+28·6			156
		5871*a*	0·956	283·7	134·0	+13·0	50	340	289*c*
		5871*b*	0·906	281·9	126·0	+10·6	6	74	216*c*
		5871	0·906	283·2	125·9	+11·8	0	7	
		5876	0·665	254·1	102·2	−10·7	0	3	234*p*
		5877*a*	0·301	143·3	51·2	−14·2	5	14	
		5877	0·303	139·6	50·2	−13·6	0	2	
		5877	0·314	136·3	49·0	−13·4	0	3	
K.		5877	0·344	138·2	48·1	−15·1	0	1	
		5877	0·341	132·1	46·8	−13·5	0	3	
		5878	0·533	61·4	33·0	+14·5	0	8	
		5878*a*	0·591	63·8	28·7	+14·9	4	63	
		5878	0·597	62·3	28·6	+15·9	0	1	
		5878	0·608	63·7	27·5	+15·3	0	2	
		5878	0·604	65·7	27·4	+14·1	4	15	
		5878	0·618	68·0	25·9	+13·1	0	10	
		5878	0·633	65·2	25·4	+15·1	0	18	
		5878	0·647	62·8	25·0	+16·9	1	12	
		5878*b*	0·659	65·5	23·4	+15·6	3	18	
		5878	0·673	62·0	23·3	+18·1	0	6	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
153·159	FS, CL	5882*a*	0·848	110·2	5·6	−17·2	1	7	
		5881	0·880	114·6	2·6	−21·7	0	2	
		5881	0·888	116·9	2·1	−23·8	0	15	613*c*
		5881	0·895	120·8	2·1	−27·3	0	7	
		5881	0·895	119·7	1·8	−26·4	0	2	
K.		5881	0·900	115·8	0·2	−23·2	0	6	
			0·862	76·0	3·3	+11·9			445
			0·892	66·7	1·0	+20·5			139
			0·923	79·2	355·1	+ 9·9			340
			0·935	112·6	354·2	−21·2			103
June 3				(−15·2)	(61·8)	(−0·3)	(74)	(639)	(3497)
154·131	FS, AS		0·912	291·5	112·9	+19·5			198
			0·832	254·4	104·0	−13·0			217
			0·850	310·4	99·4	+33·2			260
		5871*a*	0·996	283·0	133·6	+13·0	39	303	211*f*
		5871*b*	0·978	280·6	126·4	+10·3	0	30	
		5877	0·244	189·7	51·3	−14·0	0	3	
		5877*a*	0·230	184·9	50·1	−13·4	1	17	
		5877	0·234	172·9	47·2	−13·6	0	11	
		5878*a*	0·412	50·8	29·7	+14·9	13	51	
		5878	0·430	47·9	29·5	+16·5	0	5	
		5878	0·410	53·2	29·2	+14·0	0	14	
		5878	0·433	51·0	28·5	+15·6	0	19	
		5878	0·427	54·2	28·0	+14·3	0	2	
		5878	0·460	53·5	26·4	+15·7	0	4	
		5878*b*	0·496	54·3	24·2	+16·6	4	24	
K.		5878	0·520	51·7	23·5	+18·6	0	5	
		5878	0·499	57·1	23·2	+15·5	0	6	
		5882*a*	0·700	115·0	7·4	−17·3	4	22	66*c*
		5881	0·771	117·4	2·0	−20·9	0	5	
		5881	0·788	118·5	0·7	−22·2	0	15	388*c*
		5881	0·797	121·0	0·5	−24·3	0	20	
		5881	0·794	119·5	0·4	−23·1	0	7	
		5883*a*	0·816	114·8	357·0	−20·1	0	24	240*c*
		5883*b*	0·859	115·1	352·4	−21·5	5	28	
		5884	0·978	71·8	331·9	+17·7	20	109	291*n*
			0·687	100·2	6·1	− 7·1			116
			0·729	72·6	3·7	+12·4			231
			0·821	51·8	0·7	+30·3			184
			0·816	77·7	355·1	+ 9·9			255
June 4				(−14·8)	(48·9)	(−0·2)	(86)	(724)	(2657)
155·678	AS, RF		0·971	272·9	104·4	+ 2·8			258
			0·968	257·2	103·5	−12·4			293
G.			0·913	309·8	88·0	+35·7			160
			0·839	295·4	82·6	+21·1			318
			0·797	273·8	81·1	+ 3·1			79

Group 5880, June 2. A small faint spot.
Group 5881, June 2–10. Return of Group 5866. A number of small scattered unstable spots.
Group 5879, June 2. A pair of very small spots, near the place of Group 5879*.
Group 5882, June 3–11. A number of small unstable spots in an irregular stream, *np* Group 5881. The leader, *a*, is the largest and most stable spot.
Group 5883, June 4–7. A few small unstable spots in two clusters, *a* and *b*, *f* Group 5881. Groups 5881, 5882 and 5883 together form a wide area of small disturbances.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
155·678	AS, RF		0·872	219·0	76·5	−42·5			231
		5878*a*	0·261	348·6	31·5	+14·8	18	100	
		5878	0·212	350·9	30·5	+12·0	0	5	
		5878	0·268	354·9	29·9	+15·4	0	13	
		5878*b*	0·293	16·0	23·7	+16·3	4	55	
		5882*a*	0·433	132·7	9·1	−17·0	5	35	
		5882	0·453	127·1	6·5	−15·8	0	18	
		5882	0·507	131·3	4·8	−19·5	0	32	
G.		5882	0·480	125·9	4·7	−16·3	5	38	
		5882	0·595	137·2	1·9	−25·8	0	10	
		5881	0·574	130·4	0·5	−21·8	5	21	
		5881	0·602	134·5	0·4	−24·9	11	114	
		5883*a*	0·595	125·0	357·4	−19·9	0	37	
		5883*b*	0·659	123·1	352·4	−21·1	6	45	
		5880*	0·593	70·0	354·0	+11·7	0	3	142*c*
		5884	0·848	69·1	332·5	+17·6	9	43	528*f*
		5885*a*	0·986	75·7	308·7	+14·1	56	221	245*c*
June 5				(−14·3)	(28·5)	(0·0)	(119)	(790)	(2254)
156·518	CL, RF		0·936	289·0	85·5	+17·8			185
			0·920	254·5	83·4	+14·3			189
			0·860	296·8	73·6	+22·8			280
		5878*a*	0·355	315·2	32·3	+14·7	8	99	
		5878*b*	0·300	339·3	23·7	+16·3	5	79	
		5882*a*	0·323	157·5	10·0	−17·2	11	72	
		5882	0·328	149·2	7·4	−16·2	0	6	
		5882	0·366	143·9	4·4	−17·0	0	23	
		5881	0·471	147·4	1·4	−23·2	4	40	
		5881	0·516	151·0	1·2	−26·7	9	76	
G.		5881	0·502	147·3	0·1	−24·8	16	70	
		5881	0·519	148·1	359·7	−26·0	0	15	
		5881	0·535	147·8	358·8	−26·8	13	46	
		5883*a*	0·469	137·8	357·9	−20·1	0	6	
		5883*b*	0·556	131·5	350·9	−21·5	5	17	
		5884*	0·575	54·5	347·7	+19·5	0	13	
		5884	0·751	66·1	331·5	+17·7	8	52	458*f*
		5885*a*	0·948	75·2	306·7	+14·1	58	236	459*c*
		5885*	0·953	99·5	305·5	− 9·0	0	20	288*c*
			0·935	107·6	309·4	−16·3			58
June 6				(−13·9)	(17·4)	(+0·1)	(137)	(870)	(1917)
157·414	AS, RF		0·945	293·9	74·5	+22·5			191
			0·934	274·3	74·2	+ 4·1			125
			0·859	265·5	64·3	− 3·7			163
G.			0·921	316·6	63·6	+42·0			161
		5878*a*	0·525	299·1	33·6	+14·9	11	75	} 114*c*
		5878*b*	0·410	311·2	24·0	+15·8	0	8	
		5882*a*	0·310	194·3	10·0	−17·2	11	67	
1906.				°	°	°			
157·414	AS, RF	5882	0·277	176·3	4·3	−15·8	0	4	
		5882	0·302	175·4	4·0	−17·3	8	31	
		5881	0·397	168·4	0·5	−22·6	3	14	
		5881	0·458	170·2	0·4	−26·6	6	30	
		5881	0·430	167·9	359·7	−24·6	7	61	
		5881	0·470	166·8	358·5	−27·0	5	17	
		5883*a*	0·369	154·0	355·6	−19·1	0	5	
		5883*b*	0·436	148·6	351·3	−21·6	0	15	
		5884*	0·432	41·0	348·0	+19·2	0	12	
		5884*	0·454	41·5	346·8	+20·0	1	7	
		5884	0·618	59·8	331·3	+18·3	3	20	224*f*
G.		5885*a*	0·871	73·8	306·0	+14·1	41	208	292*c*
			0·484	54·9	341·1	+16·3			38
			0·847	110·7	309·5	−17·3			225
			0·890	99·8	303·1	− 8·6			222
			0·937	122·6	299·7	−30·2			128
			0·934	68·0	298·0	+20·5			166
			0·929	77·7	297·8	+11·5			128
			0·948	115·3	296·1	−23·8			121
			0·952	108·0	294·3	−17·1			126
			0·986	78·9	285·4	+11·0			175
June 7				(−13·5)	(5·4)	(+0·2)	(96)	(574)	(2599)
158·675	CL, RF		0·872	251·4	47·8	−15·9			122
			0·757	311·5	29·7	+30·3			393
		5878*a*	0·749	289·4	35·5	+14·7	14	53	327*c*
		5882*a*	0·455	228·2	9·5	−17·2	10	32	} 165*c*
		5882	0·385	220·0	3·7	−16·8	0	13	
		5886*a*	0·449	321·7	6·1	+20·9	5	18	
		5886	0·431	323·6	4·6	+20·6	6	28	
		5886*b*	0·426	328·9	2·4	+21·7	15	45	
		5886	0·413	332·5	0·6	+21·8	0	11	
G.		5881	0·490	202·1	0·6	−26·5	0	3	}
		5881	0·450	200·9	358·9	−24·4	1	7	} 116*f*
		5881	0·490	198·2	358·7	−27·3	0	23	
		5885*a*	0·703	70·4	306·0	+13·9	23	199	441*f*
			0·624	124·7	315·8	−20·4			169
			0·670	103·4	307·7	− 8·6			203
			0·838	116·2	295·1	−21·4			416
			0·924	79·0	281·8	+10·3			163
			0·934	67·2	281·4	+21·4			191
June 8				(−13·1)	(348·8)	(+0·4)	(74)	(432)	(2706)
159·476	AS, RF		0·946	252·8	48·0	−16·0			119
			0·921	280·2	44·8	+ 9·6			77
G.			0·870	304·5	33·7	+29·8			230
			0·823	243·4	30·1	−21·2			190
			0·714	275·8	23·5	+ 4·5			146

Group 5884, June 4–7. A regular spot, diminishing in size.
Group 5880*, June 5. A very small spot, *f* the place of Group 5880.
Group 5885, June 5–17. Return of Group 5869. A large regular spot, *a*, followed by several small companions on June 9 and the succeeding days.
Group 5884*, June 6–7. A few small spots, *p* Group 5884.
Group 5885*, June 6. A small spot seen only close to the east limb, in the midst of bright faculæ.
Group 5886, June 8–14. A number of spots in a short broad stream, appearing suddenly and developing quickly. The two principal spots on the north side of the stream are *a* and *b*. *b* has divided into a cluster of spots by June 11, of which the leader, *c*, is measured by itself, and the rest of the cluster, *d*, is usually measured as one object.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
159·476	AS, RF		0·719	257·6	23·2	− 8·5			95
			0·805	315·1	22·0	+35·0			177
			0·635	321·7	5·2	+30·2			78
		5878*a*	0·857	286·8	36·0	+14·6	13	59	284*c*
		5878	0·824	286·6	32·4	+13·9	2	8	
		5878	0·793	289·6	28·9	+15·7	7	20	
		5882*a*	0·579	238·7	9·2	−17·1	6	19	
		5882	0·529	234·6	4·9	−17·4	1	5	
		5886*a*	0·571	308·0	6·9	+20·9	18	75	
		5886	0·552	309·6	5·2	+21·0	4	20	
		5886	0·508	310·6	2·3	+19·7	1	11	
G.		5886*b*	0·516	314·5	1·4	+21·5	35	107	
		5886	0·484	313·6	0·0	+19·9	0	8	
		5881	0·563	214·7	359·2	−27·0	1	6	
		5881	0·530	217·1	358·7	−24·5	1	7	
		5885*a*	0·574	65·4	305·8	+14·2	32	204	228*f*
		5885	0·626	66·6	301·9	+14·8	0	12	
			0·757	123·1	294·4	−24·0			156
			0·818	135·3	293·7	−35·1			104
			0·871	68·9	279·5	+18·5			255
			0·912	119·6	276·0	−26·5			225
			0·890	81·7	275·7	+ 7·6			98
			0·989	66·8	257·5	+23·0			158
June 9				(−12·7)	(338·2)	(+0·5)	(121)	(561)	(2620)
160·170	CL, AS		0·921	297·9	33·4	+25·7			149
			0·926	307·0	32·0	+34·1			339
			0·871	251·7	27·9	−15·6			193
			0·786	280·3	20·2	+ 8·4			187
			0·782	299·2	16·6	+22·8			118
			0·795	315·5	11·6	+34·8			174
		5878*a*	0·931	285·5	36·8	+14·6	7	54	613*c*
		5878	0·876	288·3	28·8	+16·2	0	8	
		5882*a*	0·689	244·4	9·3	−16·8	1	14	70*c*
		5882	0·642	242·5	5·3	−16·7	0	3	
		5882	0·607	243·5	3·1	−15·2	0	3	
		5886*a*	0·682	301·3	7·5	+21·2	9	60	
K.		5886	0·668	302·6	6·1	+21·5	3	16	
		5886	0·635	302·6	3·7	+20·4	1	8	
		5886	0·616	302·1	2·5	+19·5	4	19	203*c*
		5886*b*	0·613	306·3	1·0	+21·7	24	137	
		5886	0·596	304·7	0·4	+20·3	2	13	
		5886	0·586	302·8	0·3	+18·9	0	3	
		5886	0·579	304·3	359·4	+19·5	5	12	
		5881	0·621	227·2	358·9	−24·3	0	5	176*f*
		5885*a*	0·452	59·1	305·6	+13·9	33	198	
		5885	0·480	61·6	303·4	+13·7	0	4	
		5885	0·522	60·0	301·1	+15·6	0	3	
			0·637	59·8	293·5	+19·1			136
1906.				°	°	°			
160·170	CL, AS		0·747	124·2	286·5	−24·3			324
			0·802	66·6	278·1	+18·9			233
			0·791	94·5	277·0	− 3·2			224
			0·818	80·2	274·6	+ 8·4			174
K.			0·872	109·8	270·2	−16·9			194
			0·905	120·8	268·2	−27·3			166
			0·918	101·5	263·1	−10·3			172
			0·939	70·4	260·3	+18·6			395
			0·935	86·9	260·0	+ 3·1			148
June 10				(−12·4)	(329·0)	(+0·6)	(89)	(560)	(4388)
161·670	CL, RF		0·964	286·6	23·1	+16·2			345
			0·930	271·6	17·4	+ 1·8			105
			0·796	284·4	1·0	+11·8			561
		5886*a*	0·874	293·3	8·0	+20·6	17	92	306*c*
		5886	0·863	294·5	6·4	+21·3	0	27	
		5886	0·848	293·2	5·0	+19·9	0	13	
		5886	0·829	295·6	2·4	+21·4	0	12	
		5886*c*	0·824	293·5	2·3	+19·6	6	61	
		5886*d*	0·806	296·1	359·9	+21·2	24	99	
		5886*d*	0·790	294·0	358·9	+19·2	12	70	
G.		~~5882~~	~~0·831~~	~~244·0~~	~~2·1~~	~~−20·9~~	~~0~~	~~37~~	~~896*c*~~
		5885*a*	0·240	15·1	305·5	+14·1	29	203	
		5885	0·214	31·9	302·6	+11·1	4	18	
		5885	0·236	33·7	301·5	+12·0	0	4	
		5885	0·254	33·6	300·9	+12·9	0	4	
		5885	0·263	39·0	299·5	+12·4	7	29	
			0·773	87·0	258·8	+ 2·8			132
			0·841	61·8	255·3	+23·8			243
			0·885	77·8	247·6	+11·1			320
June 11				(−11·9)	(309·2)	(+0·7)	(99)	(~~669~~)	(2908)
162·670	AS, RF		0·929	283·4	3·7	+12·7			273
			0·927	303·0	0·4	+30·6			190
			0·892	244·4	356·2	−22·3			736
			0·862	281·6	354·9	+10·4			201
			0·834	257·2	351·5	−10·2			151
			0·862	225·4	345·8	−36·7			92
			0·751	232·4	337·6	−26·6			113
G.			0·599	300·9	328·7	+18·6			218
		5886*a*	0·955	291·4	7·6	+20·6	12	138	384*c*
		5886	0·945	291·4	5·6	+20·4	0	29	
		5886*c*	0·931	291·6	3·1	+20·3	20	163	
		5886*d*	0·903	292·3	358·8	+20·4	31	303	
		5886	0·902	294·2	358·3	+22·0	5	33	
		5886	0·885	295·3	355·9	+22·6	0	28	

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
162·670	AS, RF	5885*a*	0·277	326·3	305·1	+14·0	31	188	
		5885	0·215	343·1	299·7	+12·7	2	26	
			0·742	61·2	251·9	+21·4			249
G.			0·758	113·1	249·5	−16·7			110
			0·803	76·2	243·5	+11·5			111
			0·966	70·9	221·7	+18·7			308
June 12				(−11·5)	(296·0)	(+0·8)	(101)	(908)	(3136)
163·201	AS, RF		0·969	282·6	4·1	+12·4			199
			0·963	249·1	1·6	−19·8			384
			0·917	280·9	354·8	+10·3			137
			0·925	241·5	353·1	−25·8			164
			0·856	256·3	346·6	−11·2			76
			0·832	248·2	342·6	−17·4			47
			0·713	299·4	330·4	+21·1			134
		5886*c*	0·975	290·9	5·3	+20·6	26	278	} 280*c*
		5886*d*	0·950	291·1	359·5	+20·3	33	213	
		5886	0·948	293·0	358·8	+22·0	0	20	
M.		5885	0·403	307·2	308·1	+14·9	0	1	
		5885*a*	0·362	310·5	305·2	+14·4	31	179	
		5885	0·329	310·5	303·6	+13·2	0	1	
		5885	0·299	312·9	301·7	+12·6	0	2	
		5885	0·303	320·0	300·3	+14·3	0	4	
		5885	0·285	319·3	299·8	+13·3	1	5	
		5885	0·276	319·5	299·4	+13·0	1	5	
			0·852	75·9	231·2	+12·4			85
			0·962	137·2	222·5	−44·5			76
			0·949	70·5	218·2	+18·7			197
June 13				(−11·2)	(288·8)	(+0·9)	(92)	(708)	(1779)
164·283	FS, CL		0·983	281·5	353·9	+11·6			306
			0·964	247·5	347·3	−21·3			253
			0·860	255·3	332·6	−12·0			377
			0·884	234·7	330·9	−30·1			268
			0·806	295·1	325·6	+20·6			537
		5886*d*	0·991	289·7	356·6	+19·7	27	190	345*c*
		5885	0·569	296·4	306·4	+15·6	0	10	} 82*c*
		5885*a*	0·549	295·7	305·2	+14·7	25	178	
		5885	0·479	295·2	300·9	+12·7	0	4	
M.		5885	0·467	297·2	299·8	+13·3	0	4	
		5887	0·282	134·3	262·8	−10·3	1	9	
		5887	0·302	131·7	261·4	−10·5	0	1	
		5887	0·299	128·6	260·9	− 9·7	3	9	
		5887*	0·521	68·5	245·0	+11·9	0	8	
		5887*	0·542	69·7	243·5	+11·7	1	7	
			0·866	65·9	216·8	+21·3			582
			0·907	50·1	215·3	+36·1			235
			0·964	79·7	200·4	+10·2			165
June 14				(−10·7)	(274·6)	(+1·1)	(57)	(420)	(3150)
1906.				°	°	°			
165·686	CL, RF		0·935	289·8	324·2	+18·9			369
			0·824	309·2	304·8	+32·1			137
			0·759	258·5	304·5	− 7·9			175
		5885*a*	0·764	287·9	304·5	+14·4	29	156	} 473*c*
		5885	0·730	289·6	301·2	+15·0	0	3	
		5887	0·245	216·2	264·4	−10·2	0	5	
		5887	0·229	212·1	263·1	−10·0	2	8	
		5887	0·239	209·0	262·7	−10·9	0	4	
		5887	0·223	203·6	261·2	−10·6	0	6	
G.		5887	0·204	204·7	260·9	− 9·5	2	12	
		5887	0·210	199·7	260·1	−10·2	0	6	
		5888*	0·923	80·2	189·0	+ 9·5	0	7	732*c*
			0·740	65·8	210·8	+18·4			156
			0·775	78·6	205·8	+ 9·6			105
			0·857	67·4	199·0	+19·8			110
			0·909	103·6	191·7	−11·8			279
			0·949	114·1	186·7	−22·4			189
June 15				(−10·2)	(256·0)	(+1·2)	(33)	(207)	(2725)
166·500	CL, RF		0·967	289·2	319·9	+18·9			220
			0·812	261·2	298·9	− 6·4			226
			0·832	247·6	298·9	−17·7			247
			0·743	234·4	286·7	−24·6			198
			0·646	303·1	280·7	+21·7			94
		5885*a*	0·865	286·1	304·1	+14·5	21	156	374*n*
		5887	0·429	232·0	265·5	−14·0	0	23	
		5887	0·396	233·4	264·1	−12·4	0	13	
		5887	0·358	240·7	263·5	− 8·8	0	7	
G.		5887	0·324	235·7	260·9	− 9·3	0	5	
		5889*	0·429	134·1	226·6	−16·0	0	7	
		5889*	0·453	132·6	224·9	−16·6	0	10	
		5888†	0·860	73·5	186·8	+14·9	0	44	
			0·586	58·2	213·5	+19·0			178
			0·858	106·1	187·6	−13·0			151
			0·870	79·4	185·2	+ 9·9			702
			0·960	69·0	172·4	+20·4			89
June 16				(− 9·8)	(245·2)	(+1·3)	(21)	(265)	(2479)
167·518	AS, RF		0·918	273·9	298·2	+ 4·2			105
			0·907	261·1	296·2	− 7·5			156
			0·907	291·7	295·5	+20·2			198
			0·875	243·0	289·2	−22·6			309
			0·827	282·2	287·0	+10·9			91
G.			0·868	230·3	284·2	−32·8			60
			0·780	297·9	279·8	+22·3			220
		5885*a*	0·961	284·6	305·3	+14·4	17	137	168*f*
		5887	0·621	243·6	266·8	−14·9	0	29	
		5889*	0·302	149·2	222·7	−13·6	0	38	

Group 5887, June 14–17. A cluster of small spots.
Group 5887*, June 14. A pair of very small spots.
Group 5888*, June 15–18. A very small spot. *p* the place of Group 5888. The spot is not seen on June 16 and 17.
Group 5888†, June 16–17. A small spot. *sp* the place of Group 5888, and *n* that of Group 5888*.
Group 5889*, June 16–17. A compact cluster of small faint spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
167·518	AS, RF	5888†	0·716	70·0	187·8	+15·1	0	16	152*c*
			0·582	81·2	196·6	+ 6·3			67
			0·789	112·5	182·5	−16·6			88
			0·856	79·1	173·4	+10·0			254
G.			0·870	66·9	173·3	+20·6			109
			0·936	111·6	164·5	−19·6			169
			0·968	80·2	156·5	+ 9·9			200
June 17				(−9·3)	(231·8)	(+1·4)	(17)	(220)	(2346)
168·458	FS, AS		0·970	288·2	295·0	+18·1			360
			0·933	241·4	284·8	−25·9			260
			0·912	259·4	284·3	− 8·9			202
			0·867	295·1	277·3	+22·4			314
			0·842	278·9	276·4	+ 8·4			222
M.		5888*	0·559	73·8	186·5	+10·3	0	18	
			0·718	77·5	174·2	+10·0			360
			0·804	60·6	169·4	+24·2			202
			0·914	75·3	154·0	+14·0			371
June 18				(−8·9)	(219·4)	(+1·6)	(0)	(18)	(2291)
169·500	FS, CL		0·941	290·7	274·8	+20·0			352
			0·866	259·8	264·7	− 8·0			227
			0·817	292·8	258·4	+19·5			166
		5891	0·607	131·7	176·3	−22·2	0	5	78*c*
G.		5888	0·530	76·9	174·2	+ 8·4	7	13	
		5888	0·552	75·8	172·8	+ 9·2	1	12	
		5889*a*	0·930	78·4	137·4	+11·4	26	97	290*c*
			0·769	75·2	156·1	+12·4			113
June 19				(−8·5)	(205·5)	(+1·7)	(34)	(127)	(1226)
170·539	CL, RF		0·977	290·2	269·1	+20·1			194
			0·957	259·8	264·1	− 9·2			170
			0·928	272·7	259·7	+ 3·2			157
			0·879	285·9	252·6	+14·8			188
			0·875	297·9	250·1	+25·0			166
			0·806	248·4	242·9	−16·1			121
		5890	0·838	237·6	243·2	−25·5	0	3	
		5890	0·820	237·9	241·4	−24·6	0	5	110*c*
		5890	0·816	237·0	240·8	−25·2	0	7	
G.		5890	0·818	234·1	239·9	−27·4	0	3	
		5891	0·472	145·0	175·0	−20·9	3	6	
		5891	0·503	141·8	172·3	−21·5	0	1	
		5888	0·343	69·4	172·9	+ 8·6	2	10	
		5888	0·358	72·8	171·7	+ 7·7	8	17	
		5888	0·369	69·3	171·4	+ 9·2	0	5	
		5888	0·391	68·2	170·3	+10·0	4	31	
		5888	0·405	69·7	169·2	+ 9·8	0	4	
1906.				°	°	°			
170·539	CL, RF	5888	0·421	71·7	168·0	+ 9·2	0	3	
		5889*a*	0·834	77·8	135·9	+11·1	8	72	164*p*
			0·889	127·8	136·0	−32·0			392
			0·875	67·9	132·3	+20·1			155
			0·923	56·5	127·8	+31·3			129
G.			0·930	76·0	123·8	+13·7			373
			0·943	83·7	121·4	+ 6·6			91
			0·980	88·0	113·5	+ 2·3			56
June 20				(−8·0)	(191·8)	(+1·8)	(25)	(167)	(2466)
171·226	CL, AS		0·952	271·0	254·6	+ 1·6			321
			0·793	297·4	232·1	+22·6			145
		5890	0·886	239·9	240·5	−25·4	0	7	231*p*
		5891	0·405	163·0	175·4	−20·8	2	9	
		5891	0·430	158·7	173·0	−21·7	0	8	
		5888	0·206	58·7	172·4	+ 8·0	2	18	
		5888	0·228	56·6	171·5	+ 9·1	0	12	
M.		5888	0·257	54·1	170·4	+10·5	3	28	
		5888	0·256	59·6	169·7	+ 9·3	0	9	
		5889*a*	0·742	76·3	135·4	+11·4	11	58	
		5892	0·963	86·3	108·4	+ 4·1	0	42	148*c*
		5892	0·978	85·0	104·8	+ 5·3	0	17	
			0·823	73·3	128·2	+14·8			350
			0·889	58·3	123·1	+28·8			182
June 21				(−7·7)	(182·6)	(+1·9)	(18)	(208)	(1377)
172·523	AS, RF		0·940	303·6	232·8	+32·1			131
			0·896	247·5	226·4	−19·0			148
			0·844	296·7	220·5	+23·4			162
			0·689	286·7	207·9	+12·8			232
		5890	0·975	243·0	239·9	−25·7	0	80	208*c*
		5891	0·401	206·6	176·4	−19·0	0	9	
		5891	0·419	204·3	176·1	−20·4	0	2	
		5891	0·420	201·1	174·8	−21·0	0	3	
		5891	0·420	197·7	173·4	−21·5	0	3	
		5891	0·429	196·3	172·9	−22·2	0	5	
		5891	0·412	195·5	172·3	−21·3	0	5	
G.		5888	0·176	308·0	173·5	+ 8·2	5	12	
		5888	0·171	314·2	172·6	+ 8·8	2	7	
		5888	0·159	311·5	172·4	+ 8·0	0	3	
		5888	0·174	317·5	172·3	+ 9·3	0	6	
		5888	0·140	318·1	170·9	+ 8·0	0	5	
		5888	0·171	327·3	170·9	+10·2	3	11	
		5888	0·137	330·2	169·4	+ 8·8	1	12	
		5891*	0·267	159·3	160·0	−12·4	0	14	
		5891*	0·277	155·1	158·7	−12·6	0	7	
		5891†	0·369	142·9	152·2	−15·1	0	10	
		5891†	0·448	138·7	147·5	−17·7	0	26	

Group 5888, June 19–27. A cluster of small spots not seen on June 25 and 26.
Group 5889, June 19–30. Return of Group 5871. A regular spot, *a*, with occasionally one or two small companions.
Group 5891, June 19–24. A few very small unstable spots irregularly scattered. The group is not seen on June 23.
Group 5890, June 20–22. A few very small scattered spots on June 20. Only one remains by June 21, and this increases in size as it approaches the west limb.
Group 5892, June 21–30. A regular spot, *a*, with a distant follower on June 22. The group increases in size, and becomes a sparse stream, consisting of two large spots, *a* and *b*, with a few very small spots, loosely scattered, between them. *a* has broken up, and *b* has disappeared by June 29.
Group 5891*, June 22–23. A few very small unstable spots in a short stream.
Group 5891†, June 22–23. A few very small unstable spots irregularly scattered.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
172·523	AS, RF	5889*a*	0·512	71·4	136·0	+11·1	11	74	
		5889	0·527	69·7	135·2	+12·3	0	9	
		5889	0·563	72·4	132·4	+11·4	0	9	
		5892*a*	0·806	87·0	112·0	+ 3·6	16	79	} 303*c*
		5892	0·856	83·7	106·8	+ 6·5	2	12	
			0·678	120·3	127·6	−18·4			144
			0·704	70·7	122·2	+14·9			106
G.			0·802	130·3	120·8	−29·8			85
			0·789	108·3	115·4	−13·0			166
			0·825	61·9	112·9	+24·0			148
			0·903	53·9	105·1	+33·1			105
			0·901	76·9	101·6	+12·7			193
			0·933	90·3	96·8	+ 0·5			190
			0·963	67·1	91·8	+22·6			231
June 22				(−7·1)	(165·5)	(+2·0)	(40)	(403)	(2552)
173·542	CL, RF		0·948	253·0	221·9	−15·4			71
			0·900	269·6	215·9	+ 0·6			144
			0·891	291·6	213·7	+20·1			224
			0·806	249·2	203·2	−15·3			106
			0·781	306·1	197·9	+28·8			105
			0·690	277·7	195·4	+ 6·9			133
		5888	0·386	287·1	173·8	+ 8·5	3	11	
		5888	0·350	295·3	170·7	+10·6	0	8	
		5888	0·324	293·3	169·5	+ 9·4	0	5	
		5888	0·319	297·3	168·7	+10·4	0	6	
		5891*	0·400	220·0	167·4	−15·7	0	20	
		5891*	0·368	217·3	165·3	−14·9	0	29	
G.		5891†	0·363	178·1	151·3	−19·1	0	14	
		5891†	0·337	177·8	151·2	−17·5	0	22	
		5889*a*	0·317	59·6	135·9	+11·3	8	58	
		5892*a*	0·629	87·2	113·2	+ 3·5	9	71	
		5892	0·671	84·9	110·0	+ 5·0	0	2	
		5892	0·697	84·2	108·0	+ 5·5	0	20	} 224*c*
		5892*b*	0·706	86·3	107·2	+ 4·1	12	68	
		5892	0·712	83·0	106·8	+ 6·5	0	9	
			0·666	65·4	112·7	+17·7			233
			0·869	52·0	97·0	+33·5			115
			0·858	77·5	93·4	+11·8			227
			0·916	105·1	87·1	−12·9			156
			0·937	66·2	83·6	+23·0			350
June 23				(−6·7)	(152·0)	(+2·1)	(32)	(343)	(2088)
174·651	AS, RF		0·953	291·0	209·1	+20·7			167
			0·933	281·8	206·0	+11·8			66
G.			0·915	256·2	202·2	−11·7			96
			0·925	302·6	202·2	+30·8			133
			0·896	273·2	200·8	+ 3·9			128
1906.				°	°	°			
174·651	AS, RF		0·778	289·5	187·0	+16·5			285
			0·599	303·8	169·5	+21·3			60
		5891	0·703	238·6	176·8	−19·8	0	10	142*c*
		5888	0·618	281·7	174·9	+ 8·9	3	7	
		5888	0·562	282·8	170·9	+ 9·0	0	28	
		5888	0·558	279·3	170·9	+ 7·0	0	13	
		5889*a*	0·162	10·2	135·6	+11·4	8	49	
		5892*a*	0·412	88·3	113·1	+ 2·7	11	106	
G.		5892	0·439	85·9	111·4	+ 3·7	7	37	
		5892	0·449	83·9	110·8	+ 4·7	0	5	
		5892	0·484	81·5	108·7	+ 6·0	1	4	
		5892*b*	0·513	85·4	106·6	+ 4·3	19	130	
		5896	0·871	66·9	78·4	+21·1	0	5	} 312*n*
		5896	0·897	67·4	74·9	+21·2	3	11	
		5893*a*	0·970	84·0	61·5	+ 6·3	27	199	113*c*
			0·779	110·6	88·6	−14·4			76
			0·910	110·8	74·2	−17·8			148
June 24				(−6·3)	(137·3)	(+2·2)	(79)	(604)	(1726)
175·648	CL, RF		0·932	271·3	192·8	+ 2·1			153
			0·923	280·0	191·4	+10·2			87
			0·883	287·4	185·5	+16·5			223
			0·879	295·3	183·8	+23·2			53
			0·861	251·5	181·6	−14·6			106
			0·858	308·7	177·8	+33·9			140
			0·817	238·3	173·5	−23·8			307
			0·722	280·7	170·0	+ 9·3			296
			0·743	297·3	169·2	+21·5			135
		5889*a*	0·245	310·2	135·2	+11·4	7	48	
		5889	0·240	315·6	134·1	+12·3	0	1	
		5889	0·211	315·0	132·9	+10·9	0	1	
		5892*a*	0·197	87·9	112·9	+ 2·8	26	141	
		5892	0·201	96·1	112·7	+ 1·2	0	5	
		5892	0·220	95·4	111·6	+ 1·2	0	5	
G.		5892	0·237	84·9	110·6	+ 3·6	0	5	
		5892	0·237	89·7	110·5	+ 2·4	0	3	
		5892*b*	0·310	85·1	106·2	+ 3·8	23	106	
		5896	0·759	63·3	77·6	+21·5	0	4	} 85*c*
		5896	0·787	64·8	74·6	+21·1	0	12	
		5893	0·836	85·4	67·6	+ 5·2	0	3	
		5893	0·850	84·7	66·1	+ 5·8	0	9	
		5893	0·851	86·1	66·0	+ 4·6	0	7	
		5893*a*	0·871	84·8	63·8	+ 5·8	41	195	} 248*c*
		5893	0·904	85·1	59·6	+ 5·5	0	9	
		5893	0·921	83·7	57·2	+ 6·7	11	107	
			0·707	84·3	79·4	+ 5·8			75
			0·756	93·8	75·4	− 1·3			82
			0·865	113·1	67·4	−18·5			93
			0·985	77·2	44·1	+13·0			510
June 25				(−5·8)	(124·2)	(+2·4)	(108)	(661)	(2593)

Group 5893, June 24–July 5. A large regular spot, *a*, followed by a long train of small spots. The train has disappeared by July 4, leaving *a* alone.
Group 5896, June 24–July 5. A few small spots in a short irregular stream. The group has greatly developed by June 28, and becomes a regular spot, *a*, followed by a train of small spots. The train has disappeared by July 2, leaving *a* alone.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
176·712	AS, RF		0·903	282·7	174·4	+12·6			432
			0·829	293·1	164·3	+20·4			70
			0·805	242·1	159·3	−20·4			136
			0·759	303·3	155·0	+26·4			147
			0·682	248·0	150·4	−12·8			132
		5893*	0·690	289·4	152·3	+15·1	0	15	206c
		5893*	0·665	290·1	150·2	+15·1	2	19	
		5889a	0·445	291·3	135·0	+11·6	4	42	
		5892a	0·061	273·5	113·6	+ 2·8	22	117	
		5892b	0·069	70·0	106·4	+ 3·9	17	82	
		5896	0·617	57·9	76·2	+21·1	0	11	98c
		5893a	0·693	84·1	66·4	+ 5·9	48	249	
		5893	0·732	83·0	63·2	+ 6·9	2	12	
		5893	0·764	84·5	60·4	+ 5·8	4	16	151c
G.		5893	0·782	81·1	58·9	+ 8·5	10	42	
		5893	0·792	83·0	57·9	+ 7·1	19	88	
		5894	0·915	76·9	44·2	+13·0	6	40	
		5894	0·925	75·7	42·7	+14·2	22	72	528c
		5894	0·931	77·5	41·7	+12·6	13	85	
		5900	0·946	79·4	39·1	+10·9	0	26	
		5895a	0·933	101·6	42·3	− 9·9	33	154	
		5895	0·947	100·8	39·8	− 9·4	7	78	
		5895	0·963	101·3	36·7	−10·2	0	18	275c
		5895b	0·963	99·2	36·5	− 8·2	0	59	
			0·585	94·2	74·6	− 0·5			89
			0·695	77·7	66·6	+10·3			75
			0·932	60·8	43·2	+28·0			181
			0·969	74·0	34·5	+16·2			101
June 26				(− 5·3)	(110·1)	(+ 2·5)	(209)	(1225)	(2621)
177·505	CL, RF		0·898	246·3	160·3	−19·9			124
			0·823	284·5	154·3	+13·4			167
			0·857	307·0	153·6	+32·6			71
		5888	0·941	280·1	169·6	+10·4	0	46	385c
		5889a	0·592	286·1	134·8	+11·6	5	40	100c
		5889	0·564	290·3	132·3	+13·5	0	1	
		5892a	0·253	271·7	114·1	+ 2·9	12	114	
		5892	0·237	275·3	113·1	+ 3·8	0	2	
		5892	0·150	275·6	108·1	+ 3·5	0	2	
		5892	0·146	283·8	107·6	+ 4·6	0	2	
G.		5892b	0·124	280·8	106·5	+ 3·9	14	37	
		5892	0·111	306·9	104·6	+ 6·4	0	3	
		5896	0·500	48·6	75·8	+21·6	0	3	
		5896	0·502	51·1	74·9	+20·7	1	5	
		5893a	0·539	81·7	67·2	+ 6·6	34	232	
		5893	0·591	81·7	63·6	+ 7·0	1	22	
		5893	0·634	83·3	60·4	+ 6·3	4	20	
		5893	0·662	79·9	58·4	+ 8·6	0	13	190c
		5893	0·666	83·3	57·9	+ 6·4	5	11	
		5893	0·671	81·7	57·6	+ 7·5	9	68	
1906.				°	°	°			
177·505	CL, RF	5894	0·823	75·4	44·7	+13·5	4	22	
		5894	0·825	78·5	44·3	+11·0	0	12	
		5894	0·847	74·5	42·3	+14·5	24	88	468c
		5894	0·846	76·8	42·1	+12·6	10	119	
		5900	0·869	79·3	39·4	+10·6	0	38	
		5899	0·877	75·8	38·7	+13·7	0	21	
G.		5895	0·834	102·3	44·2	− 8·8	0	4	
		5895a	0·858	103·2	41·7	− 9·9	30	248	411c
		5895	0·874	101·1	39·6	− 8·4	0	14	
		5895b	0·902	101·8	36·2	− 9·5	32	179	
		5897	0·927	73·0	32·0	+16·7	3	27	284c
			0·957	58·9	27·9	+30·4			123
June 27				(− 4·9)	(99·5)	(+ 2·6)	(188)	(1393)	(2323)
178·688	AS, RF		0·980	250·1	160·6	−18·9			207
			0·935	284·9	152·9	+14·9			134
		5889a	0·779	283·4	134·5	+12·1	8	43	122c
		5892	0·540	271·4	116·5	+ 3·1	0	3	
		5892	0·532	275·2	115·9	+ 5·1	9	28	
		5892a	0·522	272·4	115·3	+ 3·6	22	85	
		5892	0·497	271·8	113·6	+ 3·3	3	7	
		5892b	0·380	274·7	106·1	+ 4·3	5	18	
		5896a	0·346	16·5	77·8	+22·0	6	45	
		5896	0·358	20·5	76·2	+22·2	3	16	
		5896	0·359	25·8	74·3	+21·4	14	72	
		5893a	0·286	77·1	67·7	+ 6·2	42	216	
		5893	0·402	80·0	60·5	+ 6·5	5	28	
		5893	0·435	79·5	58·5	+ 7·0	6	29	
		5893	0·440	76·4	58·4	+ 8·4	0	1	
		5894	0·644	68·0	45·7	+16·0	0	5	
		5894	0·637	71·6	45·6	+13·7	0	9	
G.		5894	0·647	73·3	44·6	+12·8	0	6	
		5894a	0·663	72·2	43·6	+13·7	10	168	
		5894	0·656	76·8	43·5	+10·7	0	12	246c
		5894	0·666	74·6	43·0	+12·2	6	32	
		5894	0·670	73·4	42·8	+13·1	0	6	
		5900	0·704	77·9	39·7	+10·4	0	7	
		5899	0·708	70·4	40·2	+15·6	2	10	
		5899	0·726	74·1	38·2	+13·4	0	4	
		5895a	0·694	107·5	41·9	−10·0	55	327	
		5895	0·721	106·7	39·6	−10·0	0	3	
		5895	0·729	104·7	38·6	− 8·8	10	68	220c
		5895	0·754	105·5	36·6	− 9·8	5	20	
		5895b	0·768	106·4	35·5	−10·7	15	113	
		5897	0·777	71·6	34·1	+15·9	4	41	79c
		5897a	0·807	71·3	31·2	+16·6	17	102	
		5898a	0·968	69·4	8·6	+20·6	134	758	470c
		5898	0·977	66·7	6·4	+23·3	0	86	

Group 5894, June 26–July 7. A cluster of small spots, developing into an irregular stream almost at right angles to the equator. A large spot, *a*, forms near the centre of the group.
Group 5895, June 26–July 7. A large double spot, *a*, followed by a train of small spots. The last spot of the train, *b*, is its largest and most stable member. *b* has broken up by July 2.
Group 5893*, June 26. Three small faint spots.
Group 5900, June 26–July 2. One or two very small spots, *sf* Group 5894. The group is not seen on July 1.
Group 5899, June 27–29. One or two very small spots, *nf* Group 5894.
Group 5897, June 27–July 4. Return of Group 5878. A regular spot, *a*, with several small companions.
Group 5898, June 28–July 11. Return of Group 5886. A very large regular spot, *a*, with several small companions.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
178·688	AS, RF		0·887	55·7	25·1	+31·3			155
			0·865	71·3	24·9	+17·5			203
G.			0·928	112·6	18·5	−19·8			120
			0·965	78·0	9·1	+12·3			283
June 28				(−4·5)	(83·9)	(+2·7)	(381)	(2368)	(2239)
179·637	CL, RF		0·986	285·3	151·9	+15·6			141
			0·835	253·3	126·0	−12·3			120
		5889	0·907	280·5	136·3	+10·7	0	7	286*f*
		5889*a*	0·896	282·3	134·7	+12·3	5	24	
		5892	0·708	275·5	116·2	+ 5·9	9	26	
		5892	0·706	273·0	116·1	+ 4·2	7	31	
		5892	0·703	279·5	115·7	+ 8·7	0	10	
		5892	0·684	272·3	114·3	+ 3·6	3	15	
		5892	0·675	274·3	113·6	+ 5·0	5	18	
		5892	0·666	275·8	112·9	+ 6·0	0	5	
		5896*a*	0·358	340·9	78·6	+22·5	16	99	
		5896	0·325	342·4	77·3	+20·8	0	8	
		5896	0·344	347·3	76·0	+22·4	3	16	
		5896	0·340	352·6	74·0	+22·4	2	11	
		5896	0·315	352·6	73·8	+20·9	6	38	
		5896	0·345	355·9	72·8	+22·8	6	19	
		5893*a*	0·080	45·3	68·0	+ 6·0	25	171	
		5893	0·135	62·2	64·4	+ 6·4	2	10	
		5893	0·163	71·2	62·4	+ 5·8	0	4	
		5893	0·198	68·4	60·7	+ 7·0	0	10	
		5893	0·219	66·9	59·6	+ 7·7	0	4	
G.		5893	0·228	74·8	58·6	+ 6·2	1	3	
		5893	0·243	71·0	58·0	+ 7·3	2	7	
		5902	0·216	30·3	64·9	+13·5	0	1	
		5902	0·236	38·3	62·7	+13·4	0	3	
		5902	0·252	45·7	60·7	+12·8	0	19	
		5894	0·435	63·8	47·7	+13·6	0	1	
		5894	0·462	65·3	45·8	+13·6	0	3	
		5894	0·470	63·3	45·7	+14·7	8	59	
		5894	0·452	70·1	45·7	+11·4	0	34	
		5894	0·462	74·4	44·6	+ 9·6	0	1	
		5894*a*	0·480	68·5	44·2	+12·6	19	92	
		5894	0·510	65·2	42·8	+14·8	1	7	
		5899	0·556	65·0	39·8	+16·0	0	6	
		5899	0·568	67·5	38·5	+14·9	0	1	
		5899	0·568	69·7	38·2	+13·7	0	5	
		5900	0·561	75·8	37·9	+10·3	3	9	
		5895	0·486	112·9	44·5	− 8·4	0	4	
		5895	0·492	108·8	43·5	− 6·6	0	5	
		5895*a*	0·525	113·9	42·3	− 9·8	51	358	
		5895	0·561	114·6	40·1	−11·0	0	6	
		5895	0·557	112·1	39·9	− 9·7	0	7	
		5895	0·569	109·3	38·6	− 8·5	0	4	
1906.				°	°	°			
179·637	CL, RF	5895	0·604	111·0	36·5	−10·2	0	12	
		5895	0·618	113·8	36·1	−12·1	3	22	
		5895	0·626	113·0	35·4	−11·9	0	2	
		5895	0·614	108·3	35·3	− 8·8	1	4	
		5895*b*	0·628	111·4	34·9	−11·0	11	78	
		5897	0·620	67·7	34·9	+15·8	5	19	
		5897	0·649	70·3	32·3	+14·8	0	2	
		5897	0·665	70·5	31·0	+15·0	0	2	266*f*
		5897*a*	0·675	67·1	30·8	+17·3	11	71	
		5897	0·673	69·4	30·6	+15·8	0	6	
		5901*a*	0·888	80·0	8·8	+10·2	9	69	293*c*
		5898*a*	0·902	68·1	7·9	+20·9	152	717	576*c*
G.		5898	0·928	66·9	4·1	+22·4	0	19	
			0·809	51·1	23·3	+32·4			80
			0·883	126·9	16·6	−30·3			179
			0·853	115·4	16·5	−19·8			115
			0·867	104·4	12·7	−11·0			157
			0·900	48·8	12·6	+37·7			103
			0·929	61·9	4·6	+27·0			111
			0·944	115·3	3·8	−22·7			281
			0·953	78·8	358·9	+11·6			183
			0·954	84·6	358·8	+ 6·0			133
			0·969	69·2	355·8	+20·8			277
			0·981	105·5	353·8	−14·6			213
June 29				(−4·0)	(71·3)	(+2·8)	(366)	(2184)	(3514)
180·443	AS, RF		0·968	249·3	134·0	−19·2			142
			0·902	297·0	123·4	+25·5			160
			0·807	286·4	113·8	+14·9			87
			0·730	273·3	107·5	+ 4·4			133
		5889*a*	0·960	281·8	134·4	+12·1	8	30	190*f*
		5889	0·948	283·2	132·1	+13·4	0	28	
		5892	0·854	272·2	119·2	+ 3·5	0	4	
		5892	0·838	271·6	117·5	+ 2·9	0	7	207*c*
		5892	0·814	274·2	115·1	+ 5·1	7	53	
		5892	0·805	272·4	114·2	+ 3·7	1	12	
		5896*a*	0·446	320·3	78·6	+22·7	22	106	
G.		5896	0·418	322·8	76·5	+22·2	4	43	
		5896	0·395	322·3	75·6	+21·0	0	10	
		5896	0·384	325·4	74·2	+21·2	3	10	
		5896	0·399	328·9	73·6	+22·7	3	17	
		5896	0·392	331·4	72·4	+22·9	3	9	
		5896	0·368	329·0	72·4	+21·2	1	8	
		5896	0·362	332·5	71·0	+21·5	0	7	
		5896	0·337	332·7	70·1	+20·3	0	7	
		5896	0·325	334·2	69·3	+19·8	0	4	
		5902	0·233	319·3	69·6	+13·0	8	49	
		5902	0·232	325·0	68·5	+13·8	1	9	
		5902	0·212	330·6	66·8	+13·5	5	25	

Group 5901, June 29–July 9. A close but irregular and unstable cluster, *s* of Group 5898. It has diminished to a small regular spot, *a*, followed by two or three very small companions, by July 5.

Group 5902. June 29–July 2. A remarkable outburst; a fine stream appearing suddenly between Groups 5893 and 5896, and disappearing as suddenly.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
180·443	AS, RF	5902	0·160	333·2	64·9	+11·1	0	2	
		5902	0·189	340·6	64·4	+13·1	4	20	
		5902	0·180	349·2	62·7	+13·1	0	2	
		5902	0·137	348·4	62·3	+10·6	0	2	
		5893*a*	0·145	291·3	68·5	+ 5·9	26	141	
		5893	0·143	305·1	67·4	+ 7·6	0	4	
		5893	0·153	312·9	67·2	+ 8·9	0	11	
		5893	0·088	299·2	65·1	+ 5·4	1	4	
		5893	0·098	309·2	65·1	+ 6·5	7	32	
		5893	0·085	328·1	63·3	+ 7·0	0	9	
		5893	0·046	337·7	61·7	+ 5·4	0	5	
		5893	0·068	348·9	61·5	+ 6·7	7	77	
		5893	0·061	359·8	60·7	+ 6·5	0	5	
		5893	0·105	5·1	60·2	+ 8·9	0	16	
		5893	0·084	36·1	57·9	+ 6·8	1	5	
		5894	0·281	49·6	48·1	+13·3	1	8	
		5894	0·298	50·9	47·0	+13·6	0	8	
		5894	0·316	47·7	46·8	+15·0	3	12	
		5894	0·298	53·9	46·5	+12·9	1	15	
		5894	0·325	51·9	45·5	+14·3	6	56	
		5894*a*	0·309	58·6	45·1	+12·0	13	121	
		5894	0·309	63·1	44·5	+10·8	7	27	
		5894	0·348	53·7	43·9	+14·6	0	12	
		5894	0·328	64·1	43·3	+11·0	1	4	
		5894	0·326	66·3	43·1	+10·3	5	24	
G.		5894	0·344	59·1	43·1	+13·0	4	10	
		5894	0·358	63·4	41·7	+11·9	0	4	
		5894	0·372	63·2	40·9	+12·4	0	3	
		5900	0·369	68·2	40·4	+10·6	0	7	
		5900	0·396	70·9	38·5	+10·1	0	4	
		5895*a*	0·369	125·0	42·9	− 9·4	45	290	
		5895	0·401	124·6	41·2	−10·4	3	18	
		5895	0·420	119·4	39·0	− 9·2	1	12	
		5895	0·473	115·8	35·3	− 9·2	0	12	
		5895*b*	0·490	118·7	34·8	−11·0	11	65	
		5897	0·474	61·6	35·2	+15·6	0	9	
		5897	0·526	64·5	31·3	+15·6	3	11	272*c*
		5897*a*	0·540	62·0	30·9	+17·2	17	82	
		5897	0·597	64·8	26·4	+17·1	0	14	
		5901	0·743	79·0	13·1	+10·1	0	2	
		5901	0·765	79·2	11·1	+10·2	4	22	
		5901	0·781	78·1	9·7	+11·1	5	42	251*c*
		5901*a*	0·788	80·4	9·0	+ 9·3	8	84	
		5901	0·804	80·9	7·4	+ 9·1	6	27	
		5898*a*	0·818	66·3	7·6	+20·9	138	792	635*f*
		5898	0·848	67·0	4·2	+20·9	0	18	
			0·718	121·7	20·3	−20·0			126
			0·711	58·7	19·3	+23·8			60
			0·811	109·1	8·8	−13·6			82
			0·851	59·6	5·3	+27·1			63

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
180·443	AS, RF		0·841	103·2	4·8	− 9·4			139
			0·899	118·7	1·1	−24·1			274
G.			0·888	81·3	358·2	+ 9·1			313
			0·941	107·3	352·3	−15·2			177
			0·939	95·5	351·3	− 4·2			165
June 30				(−3·5)	(60·7)	(+2·9)	(394)	(2588)	(3476)
181·237	FS, AS		0·890	273·8	113·0	+ 4·8			490
			0·892	256·1	111·9	−11·0			161
			0·662	297·7	88·7	+20·2			104
		5896*a*	0·560	308·3	78·5	+22·8	22	116	
		5896	0·545	309·6	77·2	+23·0	0	16	
		5902	0·386	298·4	70·5	+13·4	6	37	
		5902	0·347	303·0	67·6	+13·7	2	12	
		5902	0·300	307·8	64·2	+13·5	3	32	
		5893*a*	0·332	279·7	69·3	+ 6·0	23	145	
		5893	0·307	287·0	67·4	+ 8·0	0	3	
		5893	0·279	283·8	66·0	+ 6·7	0	7	
		5893	0·249	289·0	63·9	+ 7·6	0	6	
		5893	0·223	285·7	62·6	+ 6·4	4	36	
		5893	0·207	291·1	61·4	+ 7·2	0	11	
		5894	0·187	16·6	47·1	+13·3	0	13	
		5894*a*	0·177	24·5	45·9	+12·3	22	71	
		5894	0·214	20·9	45·7	+14·5	12	59	
		5894	0·166	32·7	45·0	+11·0	4	40	
M.		5894	0·213	26·4	44·6	+14·0	0	16	
		5894	0·175	42·1	43·4	+10·4	1	16	
		5894	0·195	39·7	42·9	+11·6	0	10	
		5895*a*	0·246	150·0	43·1	− 9·3	68	347	
		5895	0·247	142·3	41·5	− 8·2	0	4	
		5895	0·278	145·9	41·1	−10·3	2	12	
		5895	0·253	136·4	40·1	− 7·5	0	9	
		5895	0·272	139·2	39·9	− 8·9	0	5	
		5895	0·287	140·6	39·6	− 9·8	0	8	
		5895	0·319	130·8	36·1	− 9·1	0	11	
		5895	0·366	136·5	35·3	−12·4	0	12	
		5895*b*	0·350	133·2	35·2	−10·9	10	62	
		5897*a*	0·409	51·4	30·7	+17·6	13	38	
		5897	0·403	54·0	30·4	+16·5	0	5	
		5901	0·634	78·1	11·3	+ 9·9	0	11	
		5901	0·644	76·5	10·7	+11·0	0	7	
		5901	0·658	75·6	9·8	+11·7	8	44	
		5901*a*	0·655	78·3	9·7	+ 9·9	6	40	252*c*
		5901	0·669	77·0	8·8	+10·9	0	18	
		5901	0·666	79·4	8·8	+ 9·3	3	20	
		5901	0·679	77·6	7·9	+10·6	0	10	
		5901	0·683	80·0	7·5	+ 9·0	3	24	

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
181·237	FS, AS	5898	0·658	62·9	11·8	+19·8	1	10	
		5898*a*	0·714	62·5	7·5	+21·4	141	817	
		5898	0·713	66·3	6·8	+18·8	0	15	
		5898	0·762	60·0	4·0	+24·4	0	26	375*c*
		5898	0·752	65·0	3·7	+20·6	3	15	
		5898	0·766	62·1	3·0	+23·0	2	24	
M.			0·559	56·8	20·4	+20·3			95
			0·850	122·2	357·8	−25·0			307
			0·838	65·9	355·0	+21·7			258
			0·878	108·8	351·1	−14·9			282
			0·863	76·8	350·9	+12·9			227
			0·956	64·6	337·8	+25·2			300
July 1				(−3·1)	(50·2)	(+3·0)	(359)	(2240)	(2851)
182·503	CL, RF		0·974	273·8	110·2	+ 4·4			354
		5896*a*	0·735	298·1	77·8	+22·5	11	84	368*c*
		5902	0·617	286·5	70·6	+12·6	0	11	
		5902	0·573	289·5	67·0	+13·6	0	6	
		5902	0·558	289·1	66·0	+13·1	0	9	
		5902	0·531	291·1	63·9	+13·7	0	4	200*c*
		5893*a*	0·583	275·6	68·9	+ 5·8	24	160	
		5893	0·494	279·9	62·7	+ 7·6	0	8	
		5893	0·488	277·6	62·4	+ 6·4	0	6	
		5894	0·249	296·1	46·4	+ 9·3	0	5	
		5894	0·287	312·4	46·0	+14·1	5	32	
		5894*a*	0·254	306·2	45·4	+11·6	23	188	
		5894	0·256	325·3	42·0	+15·1	0	9	
		5895	0·254	223·8	43·6	− 7·5	0	4	
		5895*a*	0·267	216·8	42·7	− 9·3	66	355	
		5895	0·230	218·9	41·7	− 7·2	0	3	
		5895	0·226	213·9	40·7	− 7·7	1	16	
G.		5895	0·221	205·8	39·0	− 8·4	6	34	
		5895	0·221	195·9	36·9	− 9·1	0	4	
		5895	0·245	187·0	35·1	−11·0	1	9	
		5895	0·237	181·8	33·8	−10·6	0	7	
		5900	0·147	331·1	37·5	+10·4	0	24	
		5897	0·218	356·0	34·3	+15·6	0	19	
		5897	0·206	2·2	32·9	+15·0	0	5	
		5897	0·251	4·7	32·2	+17·5	0	4	
		5897	0·208	11·3	31·0	+14·9	0	9	
		5897*a*	0·254	10·0	30·8	+17·5	6	50	
		5897	0·246	26·1	27·0	+15·8	0	4	
		5897	0·280	23·6	26·7	+17·9	0	4	
		5901	0·409	73·3	10·1	+ 9·6	0	10	
		5901*a*	0·428	72·8	9·0	+10·1	13	152	
		5901	0·449	70·1	8·0	+11·6	0	3	
		5901	0·448	75·8	7·4	+ 9·1	12	41	
		5901	0·450	77·7	7·1	+ 8·2	1	9	
		5901	0·464	73·5	6·6	+10·3	0	17	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
182·503	CL, RF	5898*a*	0·521	53·2	7·0	+20·9	152	767	
		5898	0·559	50·1	5·6	+23·7	0	4	467*f*
		5898	0·600	52·0	2·3	+24·2	0	2	
		5904	0·615	79·0	355·9	+ 9·2	0	5	123*c*
			0·642	134·0	3·2	−23·7			39
G.			0·826	130·7	347·1	−30·3			224
			0·820	79·4	338·6	+10·4			131
			0·892	65·0	331·6	+23·7			305
			0·926	52·4	329·0	+35·7			87
July 2				(−2·5)	(33·4)	(+3·1)	(321)	(2083)	(2298)
183·672	AS, RF		0·941	284·6	87·9	+14·8			71
			0·900	270·6	81·8	+ 2·0			138
			0·782	284·6	68·7	+13·4			174
		5896*a*	0·869	293·9	76·8	+22·3	12	70	363*c*
		5893*a*	0·777	274·8	68·7	+ 5·8	23	172	213*f*
		5893	0·738	277·1	65·2	+ 7·4	0	17	
		5894	0·521	286·2	48·3	+11·1	0	5	
		5894	0·499	293·0	45·9	+14·0	1	10	
		5894*a*	0·474	288·4	45·0	+11·4	18	161	
		5895	0·484	247·5	44·5	− 7·8	0	13	
		5895*a*	0·460	242·9	42·2	− 9·1	79	415	
		5895	0·402	246·5	39·5	− 6·2	0	5	
		5895	0·413	241·0	39·1	− 8·5	0	29	
		5895	0·426	237·4	39·1	−10·2	0	8	
		5895	0·375	244·5	37·6	− 6·3	0	28	
		5895	0·360	249·6	37·5	− 4·2	0	14	
		5895	0·391	237·4	37·2	− 9·1	3	13	
		5895	0·374	240·6	36·9	− 7·5	0	12	
G.		5895	0·391	233·2	36·3	−10·5	0	15	
		5897	0·347	309·0	34·0	+15·6	0	3	
		5897	0·322	309·0	32·7	+14·7	0	4	
		5897	0·358	318·5	32·2	+18·6	0	3	
		5897	0·291	311·9	30·7	+14·3	0	9	
		5897*a*	0·320	320·3	30·1	+17·4	6	45	
		5901	0·163	47·9	10·8	+ 9·5	0	6	
		5901*a*	0·198	47·1	9·3	+10·9	13	53	
		5901	0·192	54·5	8·7	+ 9·6	1	12	
		5901	0·182	59·4	8·7	+ 8·5	6	48	
		5901	0·213	49·7	8·3	+11·1	0	4	
		5901	0·227	46·6	8·1	+12·1	0	7	
		5901	0·261	43·4	7·2	+14·0	0	8	
		5901	0·209	64·9	6·8	+ 8·2	3	25	
		5901	0·243	55·0	6·1	+11·1	0	9	
		5901	0·229	62·7	6·0	+ 9·1	4	14	
		5901	0·266	52·4	5·4	+12·4	0	9	
		5898	0·315	32·9	7·5	+18·4	0	10	
		5898*a*	0·357	30·5	6·7	+21·0	137	785	
		5898	0·323	35·4	6·5	+18·4	0	8	

Group 5904, July 2–10. A straight stream, *f* Group 5901, and *s* Group 5898. The principal spot, *a*, is a regular spot at the rear of the group, and alone remains on July 9.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
183·672	AS, RF	5898	0·417	28·8	5·1	+24·5	0	7	
		5898	0·439	29·3	4·1	+25·5	0	11	
		5898	0·368	39·9	3·4	+19·5	10	49	
		5898	0·409	36·9	2·5	+22·1	0	9	
		5898	0·400	39·1	2·2	+21·1	0	11	
		5904	0·376	68·9	357·0	+10·8	1	8	
		5904	0·369	75·4	356·7	+ 8·4	0	8	
		5904	0·386	80·1	355·4	+ 6·8	0	4	
		5904*a*	0·415	70·0	354·5	+11·1	1	11	
		5904	0·405	78·3	354·3	+ 7·7	0	1	
		5904	0·415	74·4	354·0	+ 9·3	0	4	
G.		5905	0·479	55·9	353·2	+18·4	0	8	
		5905	0·494	61·9	350·9	+16·3	0	9	
		5903*a*	0·634	59·6	342·0	+21·2	20	130	
		5903	0·656	60·4	340·2	+21·4	2	10	80*c*
		5903	0·668	58·3	339·8	+23·0	3	20	
		5903	0·675	60·6	338·7	+21·8	0	13	
		5903*	0·953	76·4	305·5	+13·9	8	33	94*c*
			0·735	57·7	334·5	+25·4			98
			0·783	69·6	327·5	+17·9			164
			0·780	83·4	326·7	+ 7·1			101
			0·872	121·9	322·9	−25·5			185
			0·969	95·3	302·7	− 4·3			192
			0·977	70·7	300·0	+19·5			167
July 3				(−1·9)	(17·8)	(+3·2)	(351)	(2395)	(2040)
184·442	CL, RF		0·962	290·3	81·7	+20·4			131
			0·926	253·3	73·6	−14·1			143
			0·921	297·5	73·5	+26·6			123
			0·900	305·3	68·5	+32·9			206
			0·856	284·4	66·2	+14·0			302
			0·738	296·0	52·9	+21·2			98
		5896*a*	0·945	292·6	78·2	+22·4	14	69	412*f*
		5893*a*	0·882	274·5	69·5	+ 5·5	19	187	518*c*
		5895	0·652	258·9	47·5	− 4·7	0	6	
		5895*a*	0·605	249·4	42·6	− 9·6	66	394	
		5895	0·567	252·1	40·5	− 7·2	1	6	
		5895	0·573	249·7	40·5	− 8·7	0	10	
G.		5895	0·567	246·3	39·4	−10·3	0	14	249*c*
		5895	0·551	249·1	38·9	− 8·5	0	6	
		5895	0·534	245·2	37·1	−10·0	0	9	
		5895	0·502	246·4	35·3	− 8·6	0	4	
		5894	0·639	288·9	46·2	+14·5	0	14	
		5894*a*	0·617	284·3	45·1	+11·4	24	128	
		5894	0·609	285·9	44·4	+12·3	2	23	
		5894	0·587	287·0	42·7	+12·6	3	15	694*c*
		5894	0·570	295·4	40·1	+16·9	0	12	
		5894	0·523	284·6	38·5	+10·4	0	14	
		5897	0·492	295·4	35·0	+15·1	4	14	
1906.				°	°	°			
184·442	CL, RF	5897*a*	0·446	303·5	30·5	+17·3	2	21	
		5901	0·108	315·8	12·0	+ 7·7	0	5	
		5901	0·118	332·2	10·9	+ 9·3	0	11	
		5901*a*	0·138	346·2	9·6	+11·0	7	62	
		5901	0·156	351·1	9·1	+12·1	1	7	
		5901	0·128	354·2	8·5	+10·6	0	7	
		5901	0·090	352·8	8·4	+ 8·4	0	68	
		5901	0·077	3·4	7·4	+ 7·7	1	5	
		5898	0·259	2·8	6·9	+18·3	1	5	
		5898*a*	0·305	3·0	6·7	+21·0	125	708	
		5898	0·278	11·4	4·4	+19·0	0	5	
		5898	0·315	15·0	2·7	+20·9	0	10	
		5898	0·397	22·0	358·3	+24·8	0	19	
		5904	0·132	42·8	2·5	+ 8·8	0	6	
		5904	0·110	68·4	1·8	+ 5·6	0	3	
		5904	0·223	53·2	357·3	+10·9	12	43	
		5904	0·212	59·8	357·0	+ 9·3	0	7	
		5904	0·209	64·0	356·8	+ 8·5	1	8	
G.		5904	0·225	59·8	356·4	+ 9·7	0	9	
		5904*a*	0·275	57·9	354·0	+11·6	14	106	
		5905	0·314	39·4	355·7	+17·2	0	8	
		5905*a*	0·335	37·5	355·3	+18·6	7	22	
		5905	0·360	39·0	353·9	+19·4	0	7	
		5905*b*	0·367	43·5	352·3	+18·6	14	55	
		5903*a*	0·504	51·9	342·7	+21·1	32	227	
		5903	0·557	52·2	339·3	+22·8	0	6	185*c*
		5903	0·547	54·3	339·3	+21·4	15	92	
		5903*	0·886	75·7	305·6	+14·2	0	28	128*c*
			0·727	61·6	324·0	+22·6			282
			0·691	77·9	324·4	+10·7			146
			0·693	98·6	324·5	− 3·5			210
			0·881	54·2	309·8	+32·7			178
			0·889	90·9	305·2	+ 0·8			406
			0·932	69·7	299·4	+20·1			380
			0·944	107·7	299·0	−15·5			281
July 4				(−1·5)	(7·7)	(+3·3)	(365)	(2485)	(5072)
185·693	AS, RF		0·961	282·9	65·3	+13·4			108
			0·935	253·7	58·6	−13·9			98
			0·909	309·1	52·6	+36·7			101
		5896*a*	0·991	291·1	74·1	+21·4	0	39	226*c*
		5893*a*	0·980	274·8	69·7	+ 5·4	30	208	291*f*
		5894*a*	0·815	281·1	45·6	+11·1	20	110	
G.		5894	0·805	281·9	44·5	+11·6	2	6	468*f*
		5894	0·793	281·7	43·4	+11·4	2	8	
		5894	0·786	283·0	42·7	+12·4	0	4	
		5895*a*	0·796	255·2	42·3	− 9·5	98	391	252*f*
		5901*a*	0·334	292·6	9·4	+10·7	20	50	
		5901	0·281	293·0	6·3	+ 9·7	0	10	

Group 5903*, July 3–8. Return of Group 5885. Third apparition. A few very small faint spots. The group is not seen on July 7.
Group 5903, July 3–12. A large regular spot, *a*, followed by a short train of small spots. The group follows Group 5898.
Group 5905, July 3–11. A long sparse stream, with three principal spots, *a*, *b* and *c*, of which *c*, the last-formed, is the leader. *a* soon disappears, and *b* has broken up by July 9, leaving *c* followed by a few very small spots in a long straggling line.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
185·693	AS, RF	5898*a*	0·391	321·0	6·4	+21·0	122	684	
		5898	0·418	328·0	5·2	+24·1	1	5	
		5898	0·340	323·6	3·5	+19·2	0	13	
		5898	0·419	331·9	3·7	+25·0	0	14	
		5898	0·359	340·1	358·8	+23·2	0	4	
		5906	0·160	272·7	0·4	+ 3·9	2	12	
		5906	0·130	285·7	358·4	+ 5·5	0	9	
		5904	0·183	319·1	358·2	+11·4	12	37	
		5904	0·154	315·5	357·5	+ 9·8	0	7	
		5904	0·164	319·4	357·4	+10·6	2	12	
		5904	0·165	328·4	356·2	+11·6	0	1	
		5904	0·165	344·1	353·8	+12·6	0	5	
		5904*a*	0·147	342·4	353·8	+11·5	25	135	
		5904	0·131	358·4	351·4	+11·0	0	5	
		5905	0·261	323·1	0·5	+15·4	0	4	
		5905*c*	0·267	334·7	358·0	+17·4	19	94	
		5905	0·259	339·3	356·7	+17·5	0	9	
		5905	0·240	337·8	356·6	+16·3	0	3	
		5905*a*	0·265	346·1	355·0	+18·4	6	29	
G.		5905*b*	0·262	359·0	351·5	+18·6	16	72	
		5903	0·287	18·8	345·6	+19·2	0	9	
		5903*a*	0·329	22·2	343·6	+21·2	50	272	
		5903	0·314	27·9	342·3	+19·5	1	6	
		5903	0·340	29·7	340·9	+20·6	8	30	
		5903	0·345	32·9	339·7	+20·2	0	4	
		5903	0·369	30·7	339·5	+21·9	3	15	
		5903	0·379	33·7	338·2	+21·7	16	54	
		5903	0·439	37·9	334·2	+23·5	3	17	
		5903*	0·719	74·6	305·9	+13·5	0	5	96*c*
		5903*	0·725	73·3	305·6	+14·4	2	8	
		5908	0·884	70·6	289·7	+18·7	0	18	209*c*
		5907	0·943	85·4	280·7	+ 5·5	11	32	142*c*
		5907	0·960	84·4	277·5	+ 6·3	4	28	
			0·579	56·9	319·9	+21·4			75
			0·761	49·5	308·2	+32·2			83
			0·835	101·9	295·8	− 7·9			71
			0·897	80·1	287·5	+10·4			122
			0·950	69·1	279·6	+20·9			172
July 5				(−0·9)	(351·2)	(+3·5)	(475)	(2478)	(2514)
186·447	CL, RF		0·983	278·4	60·8	+ 8·9			386
			0·981	256·3	58·7	−12·7			97
G.			0·741	291·5	27·6	+18·2			421
			0·761	307·4	25·4	+30·1			167
		5894*a*	0·904	280·5	45·9	+11·0	17	118	838*c*
		5894	0·898	278·5	45·1	+ 9·2	0	14	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
186·447	CL, RF	5895*a*	0·890	257·3	42·7	− 9·6	68	381	
		5895	0·877	259·3	41·4	− 7·6	0	10	
		5895	0·877	254·4	40·7	−11·9	0	8	456*c*
		5895	0·871	257·4	40·4	− 9·1	0	12	
		5895	0·871	255·8	40·1	−10·5	0	5	
		5901*a*	0·487	285·7	9·6	+10·7	8	46	
		5901	0·476	282·3	9·2	+ 9·0	0	9	
		5901	0·479	289·3	8·6	+12·3	0	6	
		5901	0·452	282·9	7·6	+ 9·0	0	4	
		5901	0·408	297·3	3·1	+14·1	0	1	
		5901	0·373	299·7	0·6	+14·0	0	4	
		5898*a*	0·504	307·6	6·4	+21·1	116	682	
		5898	0·459	301·7	5·2	+17·2	0	3	
		5898	0·454	307·5	3·5	+19·3	0	8	
		5898	0·488	321·9	0·7	+25·9	0	3	
		5906	0·375	278·3	3·0	+ 6·5	0	2	
		5906	0·342	271·1	1·1	+ 3·8	0	4	
		5905*c*	0·380	308·8	359·2	+17·2	16	109	
		5905	0·353	310·7	357·4	+16·8	1	17	
		5905	0·342	316·1	355·6	+17·7	0	1	
		5905*a*	0·352	319·5	355·1	+19·0	12	21	
		5905	0·320	315·5	354·7	+16·7	0	1	
		5905*b*	0·311	328·0	351·2	+18·8	8	48	
		5904	0·339	294·7	359·4	+11·6	5	15	
		5904	0·327	291·4	359·1	+10·3	0	5	
G.		5904	0·338	297·8	359·0	+12·5	0	3	
		5904	0·303	296·9	357·1	+11·3	1	5	
		5904	0·288	307·2	354·8	+13·5	0	1	
		5904*a*	0·265	303·3	354·2	+11·9	27	106	
		5904	0·245	301·0	353·5	+10·7	1	3	
		5903	0·280	344·1	345·8	+19·2	0	1	
		5903*a*	0·304	352·9	343·5	+21·1	34	255	
		5903	0·273	354·0	342·9	+19·3	0	3	
		5903	0·301	0·5	341·0	+21·1	3	21	
		5903	0·299	5·6	339·4	+20·9	3	17	
		5903	0·318	8·5	338·3	+21·9	13	48	
		5903	0·335	13·4	336·4	+22·5	0	6	
		5903	0·353	15·3	335·4	+23·4	1	8	
		5903	0·349	19·5	334·0	+22·7	2	6	
		5903	0·369	19·0	333·7	+23·9	2	7	
		5903*	0·600	70·6	305·6	+14·4	2	6	
		5903*	0·600	73·3	305·2	+12·8	0	8	
		5903*	0·633	69·8	303·3	+15·4	0	6	
		5903*	0·635	73·2	302·7	+13·4	0	10	
		5908	0·774	70·5	291·6	+17·3	1	17	
		5908	0·793	69·2	289·9	+18·6	2	14	66*c*
		5908	0·802	68·5	289·1	+19·3	2	10	
		5907	0·867	86·1	281·1	+ 5·2	0	11	
		5907	0·880	86·1	279·6	+ 5·2	0	32	210*c*
		5907	0·896	84·9	277·6	+ 6·2	0	5	

Group 5906, July 5–6. Two very small spots, *sf* Group 5901. The Groups 5898, 5901, 5903, 5904, 5905 and 5906, are parts of one great area of disturbance of which 5898 is the leader.

Group 5907, July 5–9. A few very small unstable spots in a short stream.

Group 5908, July 5–15. A stream of spots undergoing much change. It is chiefly arranged in two clusters, each of which coalesces to form a large spot. Of these two spots, *a* and *b*, *b*, the rear spot, is the larger and more regular.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
186·447	CL, RF		0·785	59·5	292·7	+25·8			144
			0·877	43·4	287·7	+41·6			113
			0·884	91·9	279·3	+ 0·1			51
			0·908	78·6	276·0	+11·9			169
G.			0·926	56·0	275·6	+32·7			151
			0·925	67·8	274·0	+21·9			317
			0·945	102·4	271·7	−10·4			130
July 6			0·948	95·3	270·3	− 3·9			54
				(−0·6)	(341·2)	(+3·6)	(345)	(2146)	(3770)
187·729	AS, RF		0·944	246·3	31·8	−20·9			127
			0·906	284·4	29·1	+14·6			149
			0·885	292·2	25·6	+21·3			213
			0·852	239·0	17·1	−23·8			115
			0·804	294·0	16·2	+21·4			61
			0·757	245·8	9·9	−15·5			74
			0·706	232·7	1·6	−22·4			94
		5894*a*	0·985	280·1	44·7	+10·6	27	137	265*f*
		5895*a*	0·978	259·3	41·1	− 9·6	68	284	
		5895	0·970	258·3	39·1	−10·4	20	46	399*f*
		5895	0·965	257·3	37·8	−11·2	0	36	
		5901*a*	0·714	280·8	9·6	+10·3	11	35	180*c*
		5898*a*	0·695	296·5	5·8	+20·8	142	675	
		5898	0·701	299·4	5·6	+22·8	2	10	
		5905*c*	0·612	293·9	0·1	+17·4	7	68	
		5905	0·576	293·9	357·5	+16·6	4	13	
		5905	0·578	295·3	357·4	+17·4	0	7	
		5905	0·556	297·5	355·4	+18·0	1	20	
		5905	0·556	299·2	355·0	+18·9	4	16	
G.		5905	0·531	296·9	353·9	+17·1	3	11	
		5905	0·508	296·4	352·5	+16·3	0	16	283*c*
		5905	0·513	303·9	351·1	+19·8	0	11	
		5905*b*	0·498	301·8	350·7	+18·5	7	32	
		5905	0·471	296·6	350·1	+15·5	0	7	
		5904	0·599	283·3	0·6	+10·9	2	10	
		5904	0·592	285·1	359·9	+11·9	3	15	
		5904	0·516	280·3	355·0	+ 8·5	0	1	
		5904*a*	0·508	286·9	353·9	+11·7	19	109	
		5903	0·469	318·4	344·1	+24·0	0	8	
		5903*a*	0·427	315·0	343·1	+21·0	34	228	
		5903	0·399	318·0	340·8	+20·8	3	53	
		5903	0·387	319·9	339·7	+20·8	1	7	
		5903	0·372	320·1	339·0	+20·1	3	20	
		5903	0·377	322·7	338·4	+21·0	9	42	
		5903	0·393	325·2	338·3	+22·4	0	4	
		5903	0·391	330·0	336·5	+23·3	0	3	
		5903	0·362	337·5	332·9	+23·1	0	5	
		5903	0·343	337·1	332·5	+22·0	0	12	
1906.				°	°	°			
187·729	AS, RF	5908	0·534	62·9	294·6	+17·3	0	4	
		5908	0·548	62·8	293·7	+17·7	0	15	
		5908	0·562	63·8	292·5	+17·5	7	20	
		5908	0·583	64·9	290·9	+17·4	0	4	130*c*
		5908	0·596	67·0	289·5	+16·5	0	3	
		5908	0·611	63·1	289·3	+19·0	5	14	
		5908	0·620	65·2	288·1	+18·1	0	12	
		5907	0·664	86·9	282·8	+ 4·8	3	11	
		5907	0·706	86·5	279·5	+ 5·1	0	4	84*c*
		5907	0·714	86·3	278·8	+ 5·2	0	3	
G.			0·615	78·2	286·7	+10·2			107
			0·741	126·9	284·2	−23·5			90
			0·752	74·4	276·2	+14·1			229
			0·848	65·5	267·8	+22·6			250
			0·843	91·9	267·1	+ 0·4			112
			0·850	77·4	266·3	+12·7			57
			0·894	71·2	261·4	+18·4			54
			0·930	87·3	256·0	+ 3·9			114
			0·931	77·6	255·7	+12·9			98
			0·949	63·6	253·2	+26·2			237
July 7				(−0·1)	(324·3)	(+3·7)	(385)	(2031)	(3522)
188·660	CL, RF		0·992	258·7	33·6	−10·7			92
			0·977	282·8	29·9	+13·3			147
			0·965	276·5	26·8	+ 7·3			50
			0·943	289·0	22·4	+19·2			269
			0·927	303·6	17·8	+32·4			215
			0·910	271·0	17·3	+ 2·5			39
			0·889	279·4	14·7	+10·2			118
			0·919	243·6	14·6	−22·4			111
			0·881	291·0	13·0	+20·3			99
			0·826	284·4	7·2	+14·0			203
			0·788	271·9	3·8	+ 3·9			117
			0·823	237·5	1·0	−23·7			175
G.			0·702	241·9	351·9	−16·4			204
			0·684	308·1	349·3	+27·9			108
			0·719	222·5	345·4	−28·8			174
		5901*a*	0·845	279·8	9·5	+10·3	5	27	269*sf*
		5898*a*	0·816	292·7	5·2	+20·6	113	630	660*n*
		5904	0·684	279·2	354·9	+ 9·1	0	24	
		5904	0·680	281·9	354·4	+10·9	0	4	
		5904	0·681	285·1	354·2	+13·0	0	2	
		5904	0·677	280·7	354·2	+10·0	0	5	78*c*
		5904*a*	0·677	283·3	354·0	+11·8	11	56	
		5904	0·647	279·3	352·0	+ 8·9	0	2	
		5904	0·611	286·1	348·7	+12·8	0	7	
		5905*c*	0·758	289·8	0·1	+17·4	5	29	

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
188·660	CL, RF	5905	0·731	290·1	357·7	+17·2	0	35	
		5905	0·711	292·1	355·7	+18·3	2	13	
		5905	0·684	291·3	353·6	+17·2	0	9	260c
		5905b	0·662	294·0	351·4	+18·6	5	23	
		5905	0·660	297·3	350·5	+20·6	2	18	
		5903a	0·571	302·6	342·8	+21·2	32	215	
		5903	0·547	300·8	341·7	+19·5	0	2	
		5903	0·543	303·4	340·8	+20·7	8	54	
		5903	0·526	299·6	340·6	+18·3	0	3	
		5903	0·545	305·8	340·2	+21·9	0	3	
		5903	0·525	303·0	339·7	+19·9	0	9	
		5903	0·501	300·1	338·9	+17·9	0	1	
		5903	0·518	305·1	338·7	+20·7	3	8	
		5903	0·494	304·7	337·3	+19·7	0	5	
		5903	0·482	307·6	335·9	+20·5	0	18	
		5903	0·486	309·3	335·6	+21·4	0	20	
		5910a	0·568	239·5	342·0	−13·4	0	4	67c
		5910b	0·537	237·3	339·5	−13·4	0	9	
		5903*	0·215	22·4	307·1	+15·2	0	2	
		5903*	0·229	39·6	303·3	+13·9	0	3	
		5903*	0·237	47·7	301·6	+12·8	0	5	
		5908	0·395	51·2	293·1	+17·9	3	12	
		5908	0·406	52·3	292·2	+18·0	1	4	
		5908	0·419	51·1	291·8	+18·7	5	9	
G.		5908	0·411	56·5	291·0	+16·6	0	1	
		5908	0·444	53·0	290·0	+19·0	0	5	
		5908	0·452	55·6	288·9	+18·3	0	1	
		5908b	0·459	54·5	288·7	+18·9	4	22	
		5908	0·461	58·0	287·8	+17·6	0	1	
		5908	0·506	57·8	285·1	+19·0	0	1	
		5907	0·467	89·7	284·1	+ 3·5	0	8	
		5907	0·482	86·8	283·1	+ 4·9	0	5	
		5907	0·493	92·9	282·5	+ 1·9	0	6	
		5907	0·497	94·9	282·3	+ 0·9	0	3	
		5907	0·501	89·5	281·9	+ 3·5	0	3	
		5907	0·512	86·8	281·2	+ 4·9	0	6	
		5909a	0·733	64·4	267·0	+21·1	0	20	288c
		5909b	0·786	64·0	262·2	+22·6	4	19	
			0·686	128·3	276·5	−22·0			108
			0·621	62·6	276·2	+19·7			216
			0·705	57·8	270·9	+24·9			31
			0·845	129·2	263·1	−29·8			101
			0·815	79·8	257·4	+10·6			260
			0·882	46·7	256·0	+39·3			268
			0·882	55·7	253·1	+31·8			54
			0·875	63·9	252·4	+24·5			268
			0·942	102·3	242·9	−10·2			89
			0·960	119·8	242·7	−27·1			100
			0·952	59·9	240·5	+29·8			126
July 8				(+0·4)	(311·9)	(+3·8)	(203)	(1371)	(5364)

Greenwich Civil Time.	Measurers.	No. of Group and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
189·204	FS, AS		0·960	288·1	18·6	+18·4			231
			0·889	284·1	7·3	+14·3			250
			0·867	298·2	2·9	+26·2			345
			0·877	239·6	0·5	−24·2			239
			0·812	248·4	355·9	−14·9			161
		5901a	0·912	279·7	10·5	+10·4	3	13	309s
		5898a	0·882	291·6	5·8	+20·8	148	570	187c
		5904a	0·770	282·4	354·7	+12·0	11	59	105p
		5905c	0·832	288·4	0·3	+17·4	2	9	
		5905	0·770	289·3	354·1	+17·3	0	6	141c
		5905	0·763	292·5	352·9	+19·5	0	6	
		5905	0·743	291·9	351·2	+18·8	1	6	
		5910a	0·666	244·9	342·8	−13·3	3	22	
	M.	5903a	0·662	298·6	343·2	+21·5	45	222	
		5903	0·634	299·3	340·9	+21·2	2	22	103c
		5903	0·613	300·4	339·1	+21·2	3	13	
		5908a	0·322	36·9	293·0	+18·7	2	13	
		5908b	0·368	44·1	289·1	+19·0	6	21	
		5908	0·388	45·8	287·6	+19·4	0	3	
		5907	0·368	86·2	283·2	+ 5·0	1	4	
		5907	0·397	85·4	281·4	+ 5·4	0	9	
		5907	0·418	85·3	280·1	+ 5·5	0	6	
		5909a	0·645	60·1	267·8	+21·9	6	29	
		5909	0·686	62·7	264·0	+21·3	0	5	348f
		5909b	0·725	61·4	261·1	+23·1	0	3	
			0·930	58·9	237·8	+30·2			184
July 9				(+0·7)	(304·7)	(+3·9)	(233)	(1041)	(2603)
190·473	CL, AS		0·986	280·4	8·7	+10·9			367
			0·940	295·1	357·5	+24·9			395
			0·920	244·7	351·0	−21·3			226
			0·848	304·4	342·4	+30·9			138
			0·851	231·3	337·6	−29·5			239
			0·633	288·7	326·2	+14·9			135
		5898a	0·971	290·2	4·5	+20·6	138	560	194c
		5904a	0·916	281·3	354·4	+12·0	9	19	261c
		5905	0·914	287·5	354·0	+17·7	10	44	335c
	M.	5905	0·888	288·6	350·2	+18·3	0	4	
		5910a	0·854	251·6	344·2	−13·4	0	11	140f
		5903	0·840	289·4	344·4	+18·4	3	15	
		5903a	0·829	292·9	342·7	+21·1	31	236	
		5903	0·821	291·3	342·1	+19·7	0	8	231c
		5903	0·808	293·4	340·4	+21·1	0	11	
		5903	0·794	292·8	339·2	+20·4	2	15	
		5908a	0·262	342·1	292·8	+18·4	5	37	
		5908	0·272	343·7	292·6	+19·0	0	9	
		5908	0·245	346·4	291·5	+17·7	2	10	
		5908	0·246	350·8	290·4	+18·0	2	13	
		5908	0·309	355·1	289·6	+21·9	0	4	

Group 5909, July 8–16. A pair of small spots, *a* and *b*. on July 8. *b* has disappeared by July 10. The group is not seen on July 13 or 15.
Group 5910, July 8–10. A pair of small spots, *a* and *b*, on July 8. Only *a* remains on July 10.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
190·473	CL, AS	5908	0·237	354·4	289·4	+17·6	2	9	
		5908*b*	0·252	356·2	289·0	+18·6	19	57	
		5908	0·256	0·6	287·8	+18·7	2	25	
		5911*	0·272	137·6	277·4	− 7·6	0	7	
		5911*	0·298	130·7	274·9	− 7·3	0	2	
		5909*a*	0·448	45·9	267·8	+21·9	2	8	
		5909	0·497	52·9	263·0	+21·1	0	7	
M.		5909	0·529	52·6	261·1	+22·2	0	9	
		5911	0·473	119·8	263·5	− 9·9	5	14	
		5911	0·499	118·4	261·6	−10·1	0	3	
		5911	0·515	116·5	260·2	− 9·7	0	10	
			0·620	54·4	254·5	+24·5			206
			0·746	53·0	244·9	+29·6			251
July 10				(+1·3)	(288·0)	(+4·0)	(232)	(1147)	(3118)
191·134	CL, RF		0·979	246·6	354·6	−21·9			69
			0·962	277·8	353·5	+ 8·6			36
			0·933	299·5	347·2	+29·0			84
			0·924	254·4	344·8	−12·7			103
			0·943	237·2	344·0	−29·0			134
			0·927	226·4	336·9	−37·6			81
			0·794	293·9	330·2	+21·4			112
		5898*a*	0·995	291·0	4·5	+21·3	96	579	696*f*
		5905	0·960	288·1	353·2	+18·5	0	19	
		5905	0·965	282·5	354·3	+13·1	0	12	153*c*
		5903	0·908	290·9	343·9	+20·6	0	14	
		5903*a*	0·898	292·8	342·4	+22·2	35	220	237*c*
		5903	0·875	292·5	339·4	+21·6	0	8	
		5908	0·356	315·8	294·3	+18·7	2	8	
		5908	0·352	319·1	293·3	+19·3	0	10	
		5908*a*	0·337	318·1	292·9	+18·4	10	38	
K.		5908	0·316	320·9	291·3	+18·2	0	2	
		5908	0·301	323·4	290·0	+18·0	0	2	
		5908*b*	0·298	329·4	288·4	+18·9	32	142	
		5908	0·299	333·8	287·2	+19·5	3	11	
		5911	0·339	136·1	265·4	−10·2	0	3	
		5911	0·352	133·5	264·2	−10·0	6	14	
		5909*a*	0·356	31·3	267·8	+21·7	1	3	
		5909	0·374	33·3	266·5	+22·1	0	3	
		5909	0·382	41·6	263·6	+20·5	0	5	
		5909	0·412	43·2	261·7	+21·3	0	3	
		5909	0·460	45·8	258·4	+22·5	0	9	
		5909	0·514	43·8	256·1	+25·5	1	3	
		5912	0·994	71·0	202·2	+15·3	0	121	
		5912	0·980	71·6	200·1	+18·9	0	10	170*c*
		5912*a*	0·980	72·8	200·1	+17·7	31	214	
			0·895	66·8	217·2	+22·5			153
			0·970	84·9	203·1	+ 6·0			62
July 11				(+1·6)	(279·2)	(+4·1)	(217)	(1453)	(2090)
1906.				°	°	°			
192·670	AS, RF		0·979	285·8	337·5	+16·3			58
			0·936	290·9	328·0	+21·0			59
			0·925	280·9	326·6	+11·7			157
			0·920	299·8	324·5	+29·0			137
			0·932	247·2	324·3	−19·5			132
			0·902	288·7	323·0	+18·7			83
			0·753	286·8	307·0	+15·3			183
			0·688	293·9	300·4	+19·3			73
		5903*a*	0·986	291·0	339·9	+21·4	39	331	229*c*
		5908*a*	0·611	295·3	294·3	+18·5	6	33	
		5908	0·603	296·5	293·5	+19·0	2	5	
		5908	0·584	291·7	293·0	+16·0	0	4	
		5908	0·573	296·6	291·3	+18·4	4	19	
		5908	0·545	294·8	289·8	+16·8	0	3	
		5908	0·548	296·7	289·6	+17·8	0	3	
		5908*b*	0·531	299·9	287·8	+19·0	16	186	
		5908	0·489	300·5	285·0	+18·1	0	2	
		5908	0·458	299·6	283·3	+16·9	0	3	
		5911	0·237	206·8	265·0	− 8·0	0	9	
		5911	0·273	200·5	264·4	−10·6	0	5	
		5911	0·253	201·3	264·1	− 9·4	0	4	
G.		5909	0·301	342·6	264·3	+20·8	1	4	
		5909	0·302	355·4	260·3	+21·7	0	5	
		5909	0·333	356·7	260·0	+23·5	0	6	
		5909	0·254	357·4	259·5	+18·9	0	9	
		5912	0·817	73·2	204·5	+16·1	0	6	
		5912	0·827	71·0	203·7	+18·0	0	9	
		5912*a*	0·844	70·6	201·9	+18·6	38	222	
		5912	0·849	72·7	201·1	+16·9	0	9	
		5912	0·866	70·2	199·4	+19·2	0	2	
		5912	0·876	72·2	198·0	+17·6	2	10	484*c*
		5912	0·881	70·7	197·5	+19·0	2	15	
		5912	0·889	68·6	196·6	+20·9	5	20	
		5917*a*	0·911	69·9	193·5	+20·0	16	142	
		5917	0·922	68·4	191·9	+21·5	0	15	
		5915	0·914	80·6	192·6	+10·3	0	12	189*c*
		5916	0·986	108·7	180·6	−17·6	0	25	120*c*
		5913*a*	0·985	81·8	178·5	+ 8·8	14	68	125*c*
			0·841	61·1	206·8	+21·2			105
			0·855	87·0	200·1	+ 4·8			58
			0·954	71·9	186·1	+18·5			99
			0·977	66·9	180·5	+23·5			83
July 12				(+2·3)	(258·8)	(+4·2)	(145)	(1186)	(2374)
193·209	FS, AS		0·964	294·0	326·2	+24·2			176
K.			0·851	286·1	309·7	+16·0			141
			0·799	268·7	304·4	+ 1·6			105
			0·767	296·6	299·5	+22·9			189

Group 5911*, July 10. Some very small faint spots, *p* Group 5911.
Group 5911, July 10–14. A few small unstable spots.
Group 5912, July 11–22. A large regular spot, *a*, with a few small companions.
Group 5913, July 12–24. A large regular spot, *a*, with a number of small unstable companions.
Group 5915, July 12–19. A number of spots mostly small and unstable, in an irregular cluster, *p* Group 5913.
Group 5916, July 12–18. A few small unstable spots.
Group 5917, July 12–26. A regular spot, *a*, quickly diminishing in size, with a number of small unstable companions.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
193·209	FS, AS	5908*a*	0·702	291·3	294·8	+17·9	3	21	
		5908	0·690	292·9	293·6	+18·7	0	7	
		5908	0·669	292·6	292·0	+18·2	0	8	139*c*
		5908	0·642	295·2	289·4	+19·3	0	3	
		5908	0·633	297·6	288·2	+20·4	0	3	
		5908*b*	0·620	295·4	287·7	+18·9	36	190	
		5911	0·322	222·3	264·2	− 9·5	0	3	
		5914*a*	0·074	241·7	255·3	+ 2·3	0	4	
		5914	0·070	222·4	254·3	+ 1·4	0	2	
		5912*a*	0·773	69·5	202·0	+18·5	40	216	
		5912	0·803	69·1	199·2	+19·3	0	3	
		5912	0·821	70·6	197·2	+18·3	0	6	
K.		5912	0·822	70·5	197·1	+18·4	0	6	374*c*
		5912	0·841	67·6	195·4	+21·1	3	16	
		5917*a*	0·859	69·6	193·0	+19·7	16	127	
		5917	0·870	68·0	191·9	+21·2	4	22	
		5915	0·892	81·3	188·4	+ 9·7	2	12	
		5915	0·908	82·2	186·2	+ 8·9	0	13	125*c*
		5915	0·909	83·8	186·1	+ 7·5	5	22	
		5916	0·970	110·4	178·2	−18·6	0	11	275*c*
		5913*a*	0·963	81·9	177·0	+ 9·0	17	143	268*c*
		5913	0·981	80·0	172·3	+10·7	0	54	
			0·789	85·5	199·5	+ 6·2			258
			0·881	75·3	189·9	+15·0			255
July 13				(+2·5)	(251·6)	(+4·3)	(126)	(892)	(2305)
94·532	CL, RF		0·959	283·0	308·0	+13·7			251
			0·828	272·6	290·1	+ 4·6			203
		5908	0·816	292·2	287·8	+20·6	0	6	829*c*
		5908*b*	0·812	290·1	287·7	+18·8	25	153	
		5909	0·573	305·0	264·7	+22·9	0	4	201*c*
		5909	0·562	307·1	263·4	+23·7	0	8	
		5911	0·521	243·1	262·2	− 9·7	0	2	
		5911	0·519	238·5	260·9	−11·7	0	3	
		5914*a*	0·370	267·9	255·8	+ 3·3	2	7	
		5914	0·339	268·1	254·0	+ 3·5	0	2	45*c*
		5914	0·332	265·0	253·4	+ 2·5	0	12	
G.		5912*a*	0·558	62·9	202·8	+18·4	28	199	
		5912	0·612	61·5	199·3	+20·6	2	8	
		5917	0·668	63·8	194·6	+20·5	0	9	
		5917	0·681	64·0	193·5	+20·7	0	15	382*c*
		5917*a*	0·680	65·6	193·3	+19·6	9	70	
		5917	0·685	69·3	192·2	+17·3	0	7	
		5917	0·717	64·4	190·5	+21·2	0	5	
		5920	0·678	81·3	191·6	+ 9·2	0	9	
		5920*a*	0·682	83·3	191·3	+ 7·8	8	41	
		5920	0·687	84·2	190·8	+ 7·2	0	4	177*c*
		5920	0·704	81·9	189·5	+ 8·9	0	3	
		5920	0·707	80·6	189·3	+ 9·8	0	9	
1906.				°	°	°			
194·532	CL, RF	5915	0·728	83·7	187·5	+ 7·6	11	60	
		5915	0·752	82·2	185·5	+ 8·8	7	30	
		5913*a*	0·830	82·5	178·1	+ 8·7	26	155	498*c*
		5916	0·861	114·9	178·8	−18·8	0	16	
		5916	0·892	113·5	174·7	−18·6	0	20	343*c*
		5916	0·897	114·8	174·4	−19·9	11	41	
			0·782	74·0	183·2	+15·2			107
G.			0·827	64·3	180·0	+23·6			133
			0·915	130·2	177·0	−33·9			133
			0·865	102·1	175·7	− 8·1			167
			0·923	105·2	168·8	−12·2			62
			0·915	70·0	168·2	+20·0			118
			0·968	77·0	158·3	+13·7			52
July 14				(+3·1)	(234·2)	(+4·4)	(129)	(898)	(3701)
195·261	CL, AS		0·942	287·4	295·1	+17·9			233
			0·902	275·7	289·0	+ 7·1			182
			0·770	283·4	274·6	+13·1			90
			0·751	299·4	270·4	+24·7			99
		5908*b*	0·892	288·6	287·4	+18·6	16	111	151*c*
		5914*a*	0·524	269·0	256·0	+ 3·3	7	26	
		5914	0·497	265·4	254·1	+ 1·6	0	5	
		5914	0·487	269·0	253·6	+ 3·5	2	11	
		5912*a*	0·435	55·3	202·4	+18·5	36	220	
		5912	0·457	57·1	200·8	+18·4	0	5	
		5917	0·521	58·1	196·6	+19·9	0	7	
		5917	0·571	59·4	192·9	+20·8	0	6	
		5917*a*	0·569	61·3	192·6	+19·7	17	83	
		5920*a*	0·544	81·3	191·7	+ 8·5	18	108	
M.		5920	0·582	79·2	189·2	+ 9·9	3	21	
		5915	0·614	80·1	186·8	+ 9·6	0	8	
		5915	0·617	83·1	186·5	+ 7·8	19	70	
		5915	0·641	81·9	184·7	+ 8·6	5	34	
		5918	0·766	107·8	176·8	−10·5	0	4	101*c*
		5918	0·790	108·9	174·9	−11·9	8	23	
		5913*a*	0·732	82·1	177·5	+ 8·9	25	196	78*c*
		5913	0·794	81·2	171·9	+ 9·8	0	19	
		5916	0·795	117·6	176·7	−18·6	0	10	
		5916	0·821	117·3	174·1	−19·2	0	9	218*c*
		5916	0·832	118·5	173·3	−20·6	11	23	
			0·799	77·2	171·6	+12·9			278
			0·892	69·5	161·8	+20·3			121
			0·896	79·6	160·7	+11·3			118
July 15				(+3·5)	(224·5)	(+4·5)	(167)	(999)	(1669)
196·679	AS, RF		0·964	288·8	280·8	+19·3			212
			0·957	273·5	279·0	+ 4·7			154
G.			0·958	242·6	274·9	−24·6			176
			0·930	282·2	274·5	+13·1			97
			0·917	264·3	271·6	− 3·4			195

Group 5914, July 13–18. A few very small spots in a short stream. The leader, *a*, rapidly increases in size, and becomes a regular spot.
Group 5920, July 14–19. A composite spot, *a*, with a few small close companions. The group forms *p* Group 5915, and makes up with it and with Group 5913, a long procession.
Group 5918, July 15–24. A compact cluster of small spots, *n* of Group 5916. It develops into a long sparse stream, of which *a* and *b*, the first and last, are the most considerable members.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
196·679	AS, RF		0·901	257·0	268·5	− 9·6			138
			0·871	272·7	266·4	+ 4·7			110
			0·837	282·7	262·5	+13·1			110
			0·841	233·5	255·0	−27·0			122
			0·766	290·1	254·9	+18·3			65
			0·744	303·1	250·2	+27·3			189
		5909	0·849	295·2	262·6	+23·7	0	5	231*p*
		5909	0·837	296·5	261·0	+24·5	0	8	
		5914*a*	0·762	270·9	255·4	+ 3·7	11	84	
		5914	0·735	268·1	252·9	+ 1·8	11	26	148*c*
		5914	0·720	268·8	251·7	+ 2·4	0	10	
		5919	0·345	194·2	210·8	−14·9	3	18	
		5919	0·337	193·8	210·5	−14·4	0	1	
		5919	0·328	187·5	208·3	−14·3	4	12	
		5919	0·331	185·1	207·5	−14·6	0	5	
		5919	0·329	168·3	201·9	−14·1	0	5	
		5912*a*	0·234	14·1	202·4	+17·7	25	201	
		5912	0·261	17·6	201·0	+18·9	0	3	
		5917	0·290	27·5	197·7	+19·4	1	8	
		5917	0·258	42·8	195·4	+15·4	1	5	
		5917	0·299	36·1	195·1	+18·5	1	5	
		5917	0·325	34·2	194·6	+20·1	0	9	
		5917	0·320	39·0	193·6	+18·9	1	3	
		5917	0·330	39·1	193·1	+19·3	4	13	
		5917*a*	0·345	38·8	192·6	+20·0	3	37	
G.		5920	0·213	69·9	194·2	+ 8·7	0	4	
		5920*a*	0·218	74·7	193·6	+ 7·8	11	96	
		5920	0·250	73·8	191·8	+ 8·5	0	5	
		5920	0·275	77·4	190·2	+ 7·9	0	4	
		5915	0·335	76·1	186·7	+ 9·0	0	8	
		5915	0·337	81·1	186·3	+ 7·4	3	10	
		5915	0·350	79·9	185·5	+ 7·8	5	19	
		5915	0·361	78·4	184·9	+ 8·5	5	17	
		5921	0·431	57·5	183·5	+17·6	0	4	
		5921	0·457	57·3	182·0	+18·4	0	4	
		5913*a*	0·475	80·0	177·7	+ 8·8	21	178	
		5913	0·484	77·6	177·2	+10·0	0	3	
		5913	0·497	77·5	176·4	+10·2	0	3	
		5916	0·549	131·7	180·5	−17·2	0	4	
		5916	0·574	132·5	179·4	−18·6	0	7	
		5916	0·600	131·0	177·3	−19·1	3	26	133*c*
		5916	0·622	128·8	175·1	−18·9	2	6	
		5916	0·636	129·6	174·5	−20·0	0	10	
		5916	0·660	129·1	172·7	−20·7	2	6	
		5918*a*	0·535	119·9	177·7	−11·4	3	10	
		5918	0·550	122·4	177·4	−13·1	0	3	
		5918	0·535	117·7	177·1	−10·3	3	12	
		5918	0·551	119·2	176·5	−11·6	0	1	145*c*
		5918	0·551	117·1	176·0	−10·5	0	3	
		5918*b*	0·572	119·1	175·2	−12·1	10	30	
1906.				°	°	°			
196·679	AS, RF	5918	0·603	114·8	172·1	−10·8	0	6	
		5918	0·608	113·2	171·4	−10·0	0	12	
		5922	0·943	82·3	135·1	+ 8·8	4	14	180*f*
			0·776	122·3	161·3	−21·2			86
			0·744	86·2	157·7	+ 5·9			198
G.			0·805	110·6	155·2	−13·6			111
			0·859	60·0	148·7	+27·9			140
			0·842	77·0	148·5	+13·4			94
			0·909	119·5	145·8	−24·3			215
			0·873	84·3	144·9	+ 7·2			105
July 16				(+4·1)	(205·8)	(+4·6)	(137)	(963)	(3354)
197·619	AS, RF		0·960	257·3	265·5	−10·8			138
			0·950	292·3	265·3	+22·7			229
			0·914	280·8	259·6	+11·8			132
			0·936	246·5	259·1	−20·0			135
			0·947	232·7	257·1	−33·0			121
			0·859	289·2	252·1	+18·9			64
			0·868	305·3	250·4	+32·7			108
			0·858	253·3	250·1	−11·7			70
			0·835	297·4	248·2	+25·3			131
			0·803	263·8	246·1	− 2·1			80
			0·809	239·8	241·6	−20·9			296
			0·736	278·8	240·7	+ 9·7			146
		5914*a*	0·894	272·2	256·7	+ 4·1	11	72	260*c*
		5914	0·870	269·6	253·6	+ 2·0	5	22	
		5919	0·419	220·2	209·4	−14·1	3	25	
		5912*a*	0·269	326·4	202·2	+17·5	35	179	
		5912	0·269	342·1	198·3	+19·5	3	14	
		5920*a*	0·052	338·2	194·4	+ 7·5	11	38	
		5920	0·079	347·8	194·3	+ 9·2	0	3	
G.		5920	0·064	32·5	191·3	+ 7·8	0	4	
		5917	0·253	359·9	193·3	+19·3	4	9	
		5917*a*	0·270	0·0	193·3	+20·3	0	8	
		5917	0·251	4·1	192·2	+19·1	0	3	
		5917	0·269	4·2	192·1	+20·2	1	11	
		5917	0·276	11·6	189·9	+20·3	0	4	
		5915	0·141	53·9	186·7	+ 9·4	1	10	
		5915	0·151	63·8	185·5	+ 8·5	4	15	
		5921	0·264	29·9	185·4	+17·8	3	18	
		5921	0·275	34·8	183·9	+17·7	0	3	
		5921	0·297	38·1	182·2	+18·1	0	25	
		5913	0·215	65·5	181·9	+ 9·7	0	5	
		5913	0·216	82·9	180·9	+ 6·2	0	12	
		5913*a*	0·272	74·8	178·0	+ 8·6	36	175	
		5913	0·297	70·1	176·9	+10·3	0	3	
		5913	0·297	82·0	176·1	+ 6·9	0	4	
		5918	0·365	136·5	178·5	−10·8	0	7	
		5918*a*	0·380	135·3	177·6	−11·1	4	32	

Group 5919, July 16–18. A few small unstable spots.
Group 5921, July 16–23. A few small spots in an irregular stream, *f* Group 5917, and making up with it and with Group 5912 a long procession. The group is not seen on July 22.
Group 5922, July 16–25. Return of Group 5889. Third apparition. An irregular cluster.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
197·619	AS, RF	5918	0·398	134·5	176·5	−11·7	0	5	
		5918	0·414	135·3	176·0	−12·6	0	3	
		5918*b*	0·414	133·8	175·6	−12·1	5	31	
		5916	0·531	145·2	174·4	−21·3	0	6	
		5916	0·542	142·2	172·6	−20·9	1	10	
		5922	0·847	83·3	135·3	+ 8·2	7	52	} 188*c*
G.		5922	0·876	82·9	132·0	+ 8·5	6	77	
			0·793	77·0	141·0	+13·1			147
			0·837	100·4	137·6	− 6·0			131
			0·905	72·8	128·5	+17·5			239
			0·941	87·3	123·1	+ 4·2			167
			0·952	95·6	121·8	− 3·9			194
			0·974	82·1	116·1	+ 8·8			70
July 17				(+4·5)	(193·3)	(+4·7)	(140)	(885)	(3046)
198·641	CL, RF		0·961	289·0	254·1	+19·5			64
			0·958	259·7	251·8	− 8·5			176
			0·936	304·9	247·6	+34·2			144
			0·917	295·1	245·8	+24·9			188
			0·911	247·2	241·8	−18·5			232
			0·932	232·0	240·4	−32·8			345
			0·913	221·2	231·8	−40·5			190
			0·740	262·9	226·8	− 2·1			151
			0·836	213·1	216·6	−40·6			148
		5914*a*	0·972	273·0	256·2	+ 4·1	0	126	} 326*c*
		5914	0·965	271·8	254·5	+ 3·0	0	18	
		5914	0·959	270·8	253·1	+ 2·1	13	31	
		5919	0·601	236·8	211·0	−15·1	0	2	
		5919	0·560	240·2	209·4	−12·0	0	4	
		5919	0·560	238·2	208·8	−13·0	0	7	
		5919	0·572	234·4	208·4	−15·3	0	6	
		5912*a*	0·418	302·3	201·3	+17·3	31	179	
G.		5920*a*	0·251	280·2	194·0	+ 7·1	13	34	
		5920	0·216	276·8	192·1	+ 6·0	0	2	
		5917	0·380	312·9	196·8	+19·5	0	15	
		5917	0·331	308·3	195·3	+16·3	0	5	
		5917	0·378	318·6	195·2	+20·9	0	7	
		5917	0·374	323·7	193·5	+22·0	0	17	
		5917	0·330	320·3	192·5	+19·2	3	11	
		5917	0·345	325·5	191·7	+21·1	1	11	
		5917	0·319	327·5	190·2	+20·2	0	11	
		5921	0·300	342·5	185·2	+21·2	0	2	
		5921	0·234	341·3	184·2	+17·5	6	26	
		5921	0·262	345·7	183·6	+19·3	0	2	
		5921	0·223	345·4	183·1	+17·1	2	6	
		5921	0·246	348·1	182·8	+18·6	0	2	
		5921	0·218	351·4	181·6	+17·1	0	2	
		5921	0·239	353·2	181·4	+18·4	3	14	
		5921	0·251	355·9	180·8	+19·1	0	10	
1906.				°	°	°			
198·641	CL, RF	5915	0·116	299·7	185·5	+ 8·0	1	7	
		5915	0·058	281·4	183·0	+ 5·4	0	2	
		5915	0·050	333·2	181·0	+ 7·3	0	8	
		5915	0·030	310·1	181·0	+ 5·8	0	4	
		5918*a*	0·278	178·5	179·3	−11·4	7	25	
		5918	0·270	176·3	178·7	−10·9	3	13	
		5918	0·278	170·6	177·1	−11·1	3	12	
		5918	0·303	171·1	177·0	−12·7	0	6	
		5918*b*	0·311	166·3	175·4	−12·8	3	17	
		5918	0·293	165·4	175·4	−11·7	0	6	
		5918	0·314	162·4	174·1	−12·7	0	7	
		5913	0·101	9·4	178·7	+10·4	0	2	
		5913*a*	0·075	31·1	177·5	+ 8·4	33	190	
		5913	0·120	25·9	176·7	+10·9	0	2	
		5913	0·141	36·6	174·8	+11·1	0	1	
		5913	0·165	36·5	174·0	+12·3	1	10	
		5913	0·146	42·6	174·0	+10·9	0	6	
G.		5913	0·187	45·1	171·9	+12·3	0	3	
		5913	0·229	49·9	169·4	+13·1	0	7	
		5913	0·226	58·5	168·4	+11·4	0	20	
		5916	0·359	174·5	177·7	−16·2	0	4	
		5916	0·401	173·4	176·9	−18·7	1	14	
		5916	0·436	172·3	176·1	−20·8	0	8	
		5916	0·392	169·6	175·5	−18·0	0	7	
		5916	0·414	168·1	174·5	−19·1	0	3	
		5922	0·702	83·0	135·1	+ 8·3	14	101	} 150*c*
		5922	0·752	83·4	130·9	+ 8·1	5	54	
		5923*a*	0·976	87·2	102·3	+ 3·7	33	241	} 339*c*
		5923	0·987	87·7	99·0	+ 3·1	0	51	
		5924*a*	0·994	88·0	96·1	+ 2·5	84	280	
			0·759	73·0	130·9	+15·9			143
			0·913	46·7	118·0	+41·1			147
			0·886	85·7	117·2	+ 6·0			258
			0·898	70·0	116·0	+20·0			204
July 18				(+5·1)	(179·7)	(+4·7)	(260)	(1661)	(3205)
199·653	CL, RF		0·956	275·3	239·5	+ 6·5			122
			0·950	298·9	238·0	+28·9			95
			0·956	240·9	234·5	−26·0			213
			0·934	251·2	232·8	−15·6			38
			0·912	286·6	232·3	+17·1			87
			0·950	229·0	229·4	−36·5			65
G.			0·846	273·4	224·2	+ 5·5			90
			0·827	261·5	221·3	− 4·3			107
			0·797	293·4	218·0	+21·5			94
			0·635	278·4	205·7	+ 9·1			70
		5912*a*	0·591	293·2	201·0	+17·4	29	174	
		5912	0·551	296·2	197·6	+18·2	0	6	
		5920*a*	0·465	275·3	194·1	+ 6·7	0	7	

Group 5923, July 18–30. A large double spot, *a*, with close companions. The group lengthens out into an irregular stream, and *a* has divided into two regular spots, *b* and *c*, by July 23.
Group 5924, July 18–30. A large composite spot, *a*, with a few close companions, ∮ Group 5924.

Following 9

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
199·653	CL, RF	5917	0·478	305·6	190·8	+20·5	0	3	
		5917	0·466	304·1	190·5	+19·5	1	4	
		5915	0·357	272·3	187·3	+ 5·3	0	3	
		5921	0·368	305·8	184·5	+17·0	9	26	
		5921	0·350	313·7	181·8	+18·6	0	3	
		5921	0·332	314·9	180·7	+18·1	3	10	
		5921	0·335	318·4	180·0	+19·2	0	5	
		5918	0·341	227·1	181·0	− 8·7	0	4	
		5918*a*	0·366	221·6	180·7	−11·2	17	67	
		5918	0·314	226·2	179·6	− 7·9	0	4	
		5918	0·341	213·2	177·3	−11·8	4	11	
		5918	0·341	209·5	176·3	−12·5	0	4	
		5918*b*	0·334	204·0	174·4	−13·0	12	36	
		5918	0·271	209·8	174·2	− 8·8	0	1	
		5918	0·297	204·7	173·6	−10·9	1	4	
		5913	0·269	309·4	178·7	+14·5	0	4	
		5913*a*	0·209	286·7	178·0	+ 8·2	30	155	
G.		5913	0·214	321·3	174·3	+14·4	0	7	
		5913	0·172	307·9	174·3	+10·8	0	3	
		5913	0·189	315·8	174·1	+12·5	0	4	
		5913	0·165	318·1	172·8	+11·9	0	9	
		5922	0·505	83·4	136·1	+ 7·5	0	4	
		5922	0·518	81·6	135·3	+ 8·5	3	20	
		5922	0·559	82·0	132·5	+ 8·5	0	9	
		5922	0·578	80·9	131·2	+ 9·2	0	21	
		5922	0·583	83·2	130·8	+ 7·9	5	36	
		5923*a*	0·891	88·4	103·4	+ 3·6	42	313	747*c*
		5923	0·907	86·3	101·2	+ 5·4	16	85	
		5923	0·920	87·5	99·5	+ 4·2	0	35	
		5924*a*	0·940	88·9	96·5	+ 2·7	19	195	
			0·758	86·9	117·1	+ 5·5			247
			0·850	98·6	109·1	− 4·7			68
			0·931	66·4	97·9	+23·7			213
			0·941	75·3	95·8	+15·5			343
July 19				(+5·5)	(166·4)	(+4·8)	(191)	(1272)	(2599)
200·532	AS, RF		0·907	236·9	213·3	−27·2			185
			0·850	274·0	213·1	+ 6·0			136
			0·830	251·8	208·3	−12·1			226
			0·799	263·3	207·2	− 2·4			80
			0·763	219·8	189·8	−31·8			148
			0·579	244·6	186·8	−10·2			118
		5912	0·762	290·8	203·5	+19·0	0	24	
G.		5912	0·750	293·2	202·0	+20·5	0	9	
		5912*a*	0·723	289·7	200·2	+17·5	28	171	497*c*
		~~5917~~	~~0·644~~	~~293·0~~	~~193·3~~	~~+18·4~~	~~0~~	~~35~~	
		~~5917~~	~~0·605~~	~~296·9~~	~~189·7~~	~~+19·9~~	~~0~~	~~42~~	
		5921	0·517	294·4	184·1	+16·6	3	15	
		5921	0·466	296·8	180·4	+16·6	0	15	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
200·532	AS, RF	5918*a*	0·507	238·7	180·9	−10·8	15	90	
		5918	0·486	241·5	180·3	− 8·9	0	10	
		5918	0·478	238·3	179·1	−10·0	0	19	
		5918	0·417	229·7	173·6	−11·0	0	8	
		5918*b*	0·436	225·5	173·3	−13·1	7	42	
		5913*a*	0·391	279·4	177·6	+ 8·2	32	185	
		5913	0·357	278·4	175·6	+ 7·6	0	18	
		5925	0·519	215·7	173·6	−20·2	1	20	
		5925	0·499	214·6	172·2	−19·5	0	3	
		5925	0·508	210·7	170·9	−21·1	5	42	
		5925	0·464	214·7	170·8	−17·6	0	14	
		5925	0·501	203·0	167·0	−22·6	0	8	
		5925	0·462	203·5	166·1	−20·1	0	11	
		5922	0·367	75·5	133·8	+ 9·9	0	3	
		5922	0·371	78·5	133·3	+ 8·8	4	35	
		5922	0·375	80·8	132·9	+ 8·0	0	4	
		5922	0·395	79·4	131·8	+ 8·7	0	7	
		5922	0·413	79·0	130·7	+ 9·0	0	17	
		5922	0·416	77·6	130·6	+ 9·6	0	7	
G.		5922	0·417	82·0	130·3	+ 7·8	3	22	
		5923	0·757	89·4	105·7	+ 3·7	0	10	
		5923	0·763	91·0	105·2	+ 2·4	0	18	
		5923	0·768	88·1	104·6	+ 4·6	0	17	
		5923*a*	0·785	89·2	103·1	+ 3·7	41	313	
		5923	0·784	87·3	103·1	+ 5·2	0	25	
		5923	0·807	88·4	101·0	+ 4·2	0	17	670*c*
		5923	0·809	87·4	100·8	+ 5·0	8	65	
		5923	0·831	88·2	98·6	+ 4·3	0	24	
		5924*a*	0·859	89·2	95·7	+ 3·2	23	261	
		5924	0·860	87·1	95·5	+ 5·0	5	56	
		5924	0·863	85·6	95·1	+ 6·3	0	5	
		5924	0·880	89·0	93·2	+ 3·2	0	21	
		5926	0·985	86·5	74·7	+ 4·3	0	65	340*c*
			0·682	86·0	111·8	+ 6·3			78
			0·737	58·6	110·5	+26·1			125
			0·855	73·0	96·2	+17·1			196
			0·884	107·2	95·1	−12·7			141
			0·943	64·3	84·2	+25·9			269
			0·990	108·9	75·3	−17·9			248
July 20				(+5·8)	(154·8)	(+4·9)	(175)	(~~1773~~)	(3457)
201·088	AS, RF		0·938						81
			0·946						112
			0·920						193
			0·909						115
D.			0·882						126
			0·938						129
			0·915						140
			0·798						122

Group 5925, July 20–21. A number of small unstable spots forming, *of* Group 5918, and nearly in the place of Group 5916.
Group 5926, July 20–27. Return of Group 5893. A number of small spots in an irregular cluster.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
201·088	AS, RF		0·802						76
			0·787						137
			0·634						103
		5912*a*	0·808				27	178	337*c*
		5921	0·712				0	12	
		5921	0·663				0	5	80*c*
		5921	0·627				7	21	
		5921	0·651				1	6	
		5913*a*	0·522				23	153	
		5918*a*	0·617				14	72	
		5918	0·593				0	7	
		5918	0·553				0	4	
		5918*b*	0·534				5	20	
		5925	0·600				8	21	
		5925	0·612				0	8	
		5925	0·574				0	1	
		5925	0·575				7	31	
D.		5925	0·547				0	1	
		5922	0·242				8	31	
		5922	0·247				0	6	
		5922	0·266				0	9	
		5922	0·285				13	73	
		5923*a*	0·694				50	408	
		5923	0·714				0	3	
		5923	0·733				0	7	
		5924*a*	0·783				26	247	479*c*
		5924	0·785				0	15	
		5924	0·791				0	15	
		5924	0·806				0	5	
		5926	0·954				9	50	242*c*
		5926	0·963				0	16	
			0·565						83
			0·640						81
			0·819						266
			0·933						156
			0·955						236
			0·977						234
			0·990						86
July 21				(+6·0)	(147·4)	(+5·0)	(198)	(1425)	(3614)
202·651	CL, RF		0·894	277·1	190·4	+ 8·6			307
			0·838	288·4	183·4	+18·2			204
			0·817	238·6	175·3	−21·8			354
		5912*a*	0·958	287·4	200·7	+18·1	27	157	550*f*
		5912	0·906	290·1	191·8	+20·4	0	10	
G.		5918*a*	0·853	255·3	183·4	− 9·7	9	37	202*c*
		5918	0·831	253·9	180·8	−10·3	0	8	
		5918	0·820	252·3	179·5	−11·4	4	14	
		5913*a*	0·789	276·5	179·0	+ 8·3	25	152	226*f*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
202·651	CL, RF	5922	0·178	295·5	136·1	+ 9·5	0	11	
		5922	0·167	293·9	135·7	+ 8·9	0	2	
		5922	0·151	285·4	135·2	+ 7·4	0	3	
		5922	0·151	296·9	134·6	+ 9·0	10	37	
		5922	0·120	305·6	132·4	+ 9·1	1	2	
		5922	0·106	304·9	131·8	+ 8·5	0	4	
		5922	0·124	321·8	131·3	+10·7	0	1	
		5922	0·101	311·5	131·2	+ 8·9	0	16	
		5922	0·206	305·7	126·6	+11·9	0	1	
		5923	0·337	90·8	107·1	+ 4·6	0	5	
		5923	0·345	87·9	106·6	+ 5·5	0	4	
		5923	0·351	89·5	106·3	+ 5·0	1	6	
		5923	0·371	95·9	105·2	+ 2·6	2	8	
		5923*a*	0·399	92·3	103·4	+ 3·8	47	282	
		5923	0·411	99·6	103·0	+ 0·8	0	1	
		5923	0·448	93·1	100·3	+ 3·2	0	6	
		5923	0·448	90·0	100·2	+ 4·6	2	6	
		5924	0·481	90·4	98·1	+ 4·3	0	3	
		5924	0·497	89·1	97·0	+ 4·9	1	11	
G.		5924*a*	0·504	92·7	96·7	+ 3·1	30	168	
		5924	0·520	96·9	95·9	+ 0·8	0	2	
		5924	0·525	89·1	95·2	+ 4·8	4	17	
		5924	0·534	93·7	94·7	+ 2·4	0	4	
		5924	0·541	92·0	94·2	+ 3·2	3	7	
		5926	0·773	89·5	76·2	+ 3·7	0	12	
		5926	0·778	86·8	75·7	+ 5·7	6	45	
		5926	0·794	89·8	74·3	+ 3·3	0	17	172*c*
		5926	0·812	88·2	72·5	+ 4·4	6	15	
		5926	0·812	85·5	72·4	+ 6·6	6	16	
		5928*a*	0·978	82·0	48·4	+ 8·9	0	51	64*c*
			0·792	98·6	75·3	− 3·6			118
			0·809	65·6	74·0	+22·7			143
			0·821	79·9	71·5	+11·2			378
			0·875	115·8	70·3	−19·6			247
			0·883	106·5	67·1	−12·0			64
			0·936	87·0	57·3	+ 4·7			144
			0·965	74·6	51·4	+16·2			283
July 22				(+6·7)	(126·8)	(+5·1)	(184)	(1141)	(3456)
203·680	AS, RF		0·965	278·0	188·3	+ 9·1			339
			0·895	251·8	173·9	−13·7			127
			0·899	243·3	172·4	−21·2			355
		5921	0·953	287·0	186·0	+17·8	0	18	327*c*
		5918*a*	0·952	258·0	183·8	− 9·8	16	49	169*c*
G.		5918	0·927	255·3	179·1	−11·6	0	6	
		5913*a*	0·911	276·5	179·0	+ 8·1	32	148	326*f*
		5922	0·377	278·5	135·1	+ 8·0	0	3	
		5922	0·372	280·9	134·7	+ 8·9	8	27	
		5922	0·347	283·4	133·0	+ 9·5	0	4	

July 21. The orientation of the photograph taken at Dehra Dûn on this day appears to be in error.
Group 5928, July 22–30. Return of Group 5894. A regular spot, *a*, quickly diminishing in size. Several small faint companions are seen near *a* on July 27 and 30. Groups 5923, 5924, 5926, and 5928 make up a long, somewhat sparse procession.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
203·680	AS, RF	5922	0·325	280·7	131·9	+ 8·4	3	18	
		5923	0·111	111·6	107·2	+ 2·8	0	4	
		5923	0·112	107·1	107·0	+ 3·3	2	12	
		5923	0·107	94·8	107·0	+ 4·7	0	4	
		5923*b*	0·132	95·3	105·6	+ 4·5	23	104	
		5923	0·145	88·3	104·8	+ 5·4	1	11	
		5923*c*	0·185	97·9	102·6	+ 3·7	28	122	
		5923	0·208	92·0	101·1	+ 4·7	1	8	
		5924	0·277	88·7	97·0	+ 5·4	6	36	
		5924*a*	0·281	95·3	96·9	+ 3·5	23	158	
		5924	0·299	87·0	95·7	+ 5·9	0	3	
		5924	0·302	95·0	95·6	+ 3·5	1	6	
		5924	0·312	90·1	94·9	+ 4·9	0	5	
		5926	0·600	87·1	76·2	+ 5·9	7	28	
		5926	0·604	88·9	76·0	+ 4·8	0	5	
G.		5926	0·623	89·2	74·6	+ 4·6	0	5	46*c*
		5926	0·636	88·7	73·6	+ 4·8	2	6	
		5926	0·650	86·1	72·5	+ 6·5	7	16	
		5926	0·654	88·6	72·3	+ 4·9	2	20	
		5926*	0·693	75·8	69·5	+13·6	0	3	68*f*
		5926*	0·700	74·6	69·1	+14·5	2	7	
		5927	0·792	121·4	67·0	−20·8	0	5	150*p*
		5927	0·808	119·4	64·8	−19·9	5	13	
		5928*a*	0·903	82·5	48·3	+ 9·0	7	68	131*c*
		5929*a*	0·943	101·8	44·1	− 9·3	0	36	229*c*
			0·744	85·1	65·0	+ 7·1			144
			0·880	91·5	51·7	+ 1·2			82
			0·886	74·1	50·6	+16·5			348
			0·941	75·7	42·5	+15·2			97
			0·987	71·1	31·2	+19·5			73
July 23				(+7·2)	(113·1)	(+5·2)	(176)	(958)	(3011)
204·670	CL, RF		0·979	247·9	175·2	−20·3			636
			0·917	283·1	166·9	+14·1			158
			0·892	293·5	162·8	+23·3			66
			0·888	247·1	159·0	−17·5			75
		5918*a*	0·996	258·2	183·6	−11·2	0	109	157*f*
		5913*a*	0·980	277·6	179·0	+ 8·5	0	71	86*f*
		5922	0·617	281·3	138·0	+11·1	0	3	
		5922	0·608	278·8	137·5	+ 9·5	0	4	
G.		5922	0·589	278·2	136·1	+ 9·1	2	7	
		5922	0·527	280·7	131·7	+10·2	0	4	
		5922	0·525	279·2	131·6	+ 9·3	0	4	
		5923	0·128	257·5	107·3	+ 3·7	0	3	
		5923	0·124	272·6	107·2	+ 5·6	0	1	
		5923*b*	0·110	259·8	106·3	+ 4·2	21	117	
		5923	0·102	275·6	105·9	+ 5·9	0	1	
		5923	0·091	238·9	104·6	+ 2·6	1	7	
		5923	0·075	269·1	104·4	+ 5·2	2	6	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
204·670	CL, RF	5923	0·075	245·2	104·0	+ 3·5	0	2	
		5923*c*	0·056	240·2	102·9	+ 3·7	22	125	
		5923	0·009	343·3	100·3	+ 5·8	0	3	
		5924	0·070	149·4	98·1	+ 1·9	0	2	
		5924	0·041	87·9	97·8	+ 5·4	0	11	
		5924*a*	0·062	120·2	97·0	+ 3·5	21	133	
		5924	0·070	63·7	96·5	+ 7·1	0	5	
		5924	0·084	131·9	96·5	+ 2·1	0	3	
		5924	0·073	89·4	95·9	+ 5·4	0	5	
		5924	0·079	111·2	95·9	+ 3·7	0	3	
		5924	0·095	123·3	95·6	+ 2·3	2	10	
		5924	0·099	98·1	94·5	+ 4·5	0	8	
		5926	0·394	87·5	76·9	+ 5·9	3	8	
		5926	0·420	89·0	75·3	+ 5·2	0	4	
		5926	0·441	89·9	74·0	+ 4·8	1	5	
G.		5926	0·455	86·2	73·0	+ 6·5	0	11	
		5926	0·465	89·5	72·4	+ 5·0	3	8	
		5926	0·468	85·3	72·2	+ 6·9	0	5	
		5926	0·483	93·2	71·3	+ 3·1	0	1	
		5930*a*	0·504	118·8	73·6	− 9·3	12	44	
		5930	0·552	120·5	71·2	−11·6	3	7	
		5930	0·541	115·5	70·6	− 8·8	3	7	
		5930	0·559	115·9	69·6	− 9·5	0	5	
		5930	0·580	117·5	68·6	−11·0	2	10	
		5928*a*	0·787	82·9	48·1	+ 8·9	12	42	285*p*
		5929	0·842	103·8	44·5	− 8·6	0	4	289*c*
		5929*a*	0·846	104·5	44·2	− 9·2	11	35	
			0·850	93·4	42·3	− 0·1			66
			0·859	75·7	40·8	+15·0			87
			0·943	108·4	32·2	−15·4			72
			0·944	71·5	28·9	+19·2			162
July 24				(+7·6)	(100·1)	(+5·3)	(121)	(843)	(2139)
205·685	AS, RF		0·954	251·3	156·5	−16·0			198
			0·902	285·4	151·4	+16·2			139
		5922	0·779	278·3	138·0	+ 9·9	0	12	125*c*
		5922	0·720	277·0	132·8	+ 8·8	0	7	
		5923*b*	0·338	267·8	106·4	+ 4·4	20	106	
		5923	0·308	264·3	104·5	+ 3·5	1	15	
		5923*c*	0·277	265·6	102·7	+ 4·0	21	121	
		5923	0·252	255·0	100·7	+ 1·5	0	4	
G.		5924	0·202	268·0	98·3	+ 4·9	0	3	
		5924	0·182	275·1	97·2	+ 6·3	0	5	
		5924*a*	0·186	260·6	97·2	+ 3·6	26	129	
		5924	0·187	249·8	96·8	+ 1·6	0	2	
		5924	0·154	265·9	95·5	+ 4·7	0	16	
		5924	0·160	251·2	95·4	+ 2·4	2	7	
		5926	0·156	85·9	77·7	+ 6·0	0	2	
		5926	0·184	84·2	76·1	+ 6·4	0	2	

Group 5926*, July 23. Two very small faint spots, *nf* Group 5926.
Group 5927, July 23. Two small spots.
Group 5929, July 23–25. Return of Group 5895. A small spot, *a*, with a very small companion on July 24.
Group 5930, July 24–31. Several small spots in a sparse and irregular stream. The leader, *a*, is the largest and most stable member of the group.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
205·685	AS, RF	5926	0·225	91·2	73·7	+ 5·0	0	21	
		5926	0·228	84·7	73·6	+ 6·5	3	13	
		5926	0·242	74·9	73·1	+ 8·9	0	6	
		5930*a*	0·324	140·2	74·6	− 9·1	13	85	
		5930	0·360	138·2	72·6	−10·3	0	5	
		5930	0·391	135·4	70·5	−10·9	0	7	
G.		5930	0·409	132·0	68·8	−10·7	7	30	
		5928*a*	0·621	82·6	48·3	+ 8·8	9	39	121*c*
		5929*a*	0·704	109·4	44·6	− 9·5	7	27	285*c*
		5931*a*	0·990	68·1	3·5	+22·4	70	376	
			0·832	58·4	32·7	+29·1			97
			0·886	69·8	24·4	+20·4			226
			0·933	57·0	18·7	+32·6			99
July 25				(+8·0)	(86·7)	(+5·4)	(179)	(1040)	(1290)
206·640	CL, RF		0·963	254·3	146·4	−13·5			154
			0·949	284·8	146·3	+15·8			113
			0·857	276·6	133·3	+ 8·5			452
			0·868	261·4	133·3	− 4·7			90
			0·673	271·2	116·4	+ 4·9			102
		5923	0·548	267·6	107·2	+ 3·3	0	2	
		5923*b*	0·541	269·5	106·8	+ 4·4	15	87	
		5923	0·527	270·5	105·9	+ 5·0	2	14	
		5923	0·510	268·0	104·7	+ 3·7	1	15	
		5923*c*	0·491	269·1	103·5	+ 4·4	14	69	
		5924*a*	0·396	266·3	97·3	+ 3·6	18	105	
		5924	0·374	271·9	96·1	+ 5·8	0	8	
		5924	0·373	262·7	95·7	+ 2·4	0	4	
G.		5926	0·007	164·2	74·0	+ 5·1	0	2	
		5926	0·021	28·4	73·5	+ 6·6	0	3	
		5930*a*	0·250	184·2	75·2	− 8·9	12	60	
		5930	0·286	168·1	70·7	−10·7	0	4	
		5930	0·290	163·2	69·2	−10·6	1	7	
		5928*a*	0·436	81·0	48·4	+ 8·9	5	18	
		5932*a*	0·749	97·0	26·2	− 1·6	0	6	215*c*
		5931*a*	0·947	68·3	2·3	+22·3	94	477	} 927*c*
		5931	0·960	71·7	359·6	+19·1	0	68	
			0·759	70·6	25·4	+18·3			331
			0·903	132·2	20·4	−34·1			104
			0·912	119·9	14·1	−24·3			305
			0·872	88·8	13·5	+ 3·7			244
			0·966	59·5	358·4	+30·9			263
July 26				(+8·4)	(74·1)	(+5·5)	(162)	(949)	(3300)
207·658	CL, RF		0·954	277·3	133·4	+ 8·6			444
			0·946	257·3	129·9	−10·2			97
G.			0·900	285·5	124·9	+16·3			150
			0·934	239·2	123·6	−26·1			183
			0·949	224·7	120·5	−39·7			141

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
207·658	CL, RF		0·843	272·5	118·0	+ 5·1			322
		5923*b*	0·720	271·1	106·6	+ 4·7	13	74	}
		5923	0·718	273·3	106·4	+ 6·2	0	2	
		5923	0·701	270·5	105·0	+ 4·3	4	13	} 382*c*
		5923*c*	0·682	271·1	103·5	+ 4·8	14	55	
		5924*a*	0·597	268·5	97·1	+ 3·5	21	126	}
		5926	0·247	285·1	74·4	+ 9·1	0	6	
		5926	0·240	282·8	74·1	+ 8·4	2	9	
		5930	0·372	228·0	76·7	− 9·1	0	12	
		5930*a*	0·359	226·0	75·6	− 9·1	14	45	
		5930	0·287	219·9	71·1	− 7·3	0	1	
		5930	0·275	218·4	70·4	− 7·0	0	6	
		5928*a*	0·220	75·0	48·1	+ 8·6	5	12	
		5928	0·231	73·9	47·6	+ 9·1	0	6	
		5928	0·268	73·6	45·5	+ 9·6	0	2	
		5932*a*	0·561	99·8	27·1	− 0·9	8	20	} 70*c*
		5932	0·616	102·2	23·6	− 3·1	2	7	
		5933	0·666	122·3	24·7	−16·3	2	13	}
		5933	0·676	118·8	22·9	−14·6	0	3	
G.		5933	0·693	117·2	21·2	−14·2	0	7	} 129*c*
		5933	0·701	119·0	21·1	−15·6	0	2	
		5933	0·753	121·1	17·7	−18·9	0	5	}
		5931*	0·795	64·4	9·3	+23·5	0	18	
		5931*	0·809	64·3	7·8	+23·9	0	11	
		5931†	0·834	73·5	4·1	+16·8	0	6	
		5931†	0·861	73·9	1·0	+16·6	0	14	} 901*c*
		5931*a*	0·859	67·4	1·8	+22·2	80	496	}
		5931	0·873	70·8	359·8	+19·4	0	15	
		5931‡	0·974	66·7	342·7	+23·9	0	47	210*c*
			0·741	65·2	14·2	+21·9			43
			0·731	72·6	14·0	+16·5			114
			0·736	84·1	13·0	+ 8·1			115
			0·835	124·5	11·4	−24·7			141
			0·907	123·5	2·5	−27·1			78
			0·857	81·0	1·3	+10·6			122
			0·914	116·2	359·1	−21·2			75
			0·903	95·5	356·6	− 2·5			181
			0·916	56·7	355·4	+32·6			171
			0·909	88·2	355·1	+ 3·9			122
July 27				(+8·8)	(60·5)	(+5·5)	(165)	(1033)	(4191)
208·509	CL, RF		0·957	274·8	122·6	+ 6·3			133
			0·918	260·9	114·7	− 6·0			110
			0·663	240·6	85·7	−14·5			141
			0·536	221·2	71·0	−18·5			207
G.		5923*b*	0·843	272·4	106·7	+ 5·1	13	89	}
		5923*c*	0·817	272·0	104·0	+ 4·9	10	95	
		5923	0·812	274·0	103·6	+ 6·5	0	4	} 670*c*
		5924	0·761	273·8	98·9	+ 6·6	0	2	
		5924*a*	0·742	269·7	97·0	+ 3·6	15	125	}

Group 5931, July 25–August 7. Return of Group 5898. Third apparition. A very large regular spot, *a*, with some small companions.
Group 5932, July 26–29. A small spot. *a*, sometimes with a distant small companion.
Group 5933, July 27–August 5. A sudden outburst. A few small spots at first, rapidly developing into a fine stream, of which the leader, *a*, soon becomes a very large regular spot, the rest of the stream remaining small by comparison.
Group 5931*, July 27. Two small very faint spots, *np* Group 5931.
Group 5931†, July 27–28. Two small spots, *s* Group 5931.
Group 5931‡, July 27. A faint diffused marking, *r* Group 5931.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
208·509	CL, RF	5930*a*	0·506	241·1	75·7	− 9·1	7	22	70*c*
		5928*a*	0·060	21·2	47·9	+ 8·8	3	8	
		5932*a*	0·386	104·3	27·3	− 0·3	7	14	
		5933	0·531	134·2	25·9	−16·5	14	95	
		5933	0·545	129·3	23·4	−15·1	0	4	
		5933	0·546	128·0	22·9	−14·6	4	17	158*c*
		5933	0·577	127·1	20·8	−15·4	0	6	
		5931†	0·752	72·5	0·9	+16·8	0	4	
		5931†	0·756	71·0	0·7	+18·0	0	9	
		5931*a*	0·757	65·2	1·4	+22·3	94	505	1294*c*
G.		5931	0·773	62·4	0·5	+24·7	0	12	
		5931	0·766	69·0	0·0	+19·6	0	7	
			0·563	76·5	15·3	+12·2			175
			0·736	134·9	13·6	−26·7			221
			0·801	82·1	355·8	+ 9·7			200
			0·874	121·5	354·8	−23·9			615
			0·920	107·0	344·8	−13·2			129
			0·925	47·5	344·4	+41·2			219
			0·931	67·6	340·5	+22·8			416
			0·948	79·4	337·3	+11·8			80
July 28				(+9·2)	(49·2)	(+5·6)	(167)	(1018)	(4838)
209·271	FS, AS		0·710	273·2	84·4	+ 6·2			104
			0·756	242·3	83·2	−16·6			87
			0·742	229·3	77·1	−24·5			94
		5923*b*	0·926	272·9	106·9	+ 4·8	6	41	
		5923*c*	0·902	272·8	103·6	+ 5·0	0	96	436*c*
		5924*a*	0·853	270·4	97·6	+ 3·3	16	74	
		5930*a*	0·647	248·0	76·4	− 9·5	5	27	45*c*
		5928*a*	0·169	289·0	48·4	+ 8·7	0	10	
		5934	0·178	328·2	44·6	+14·3	0	8	
		5934	0·159	343·1	41·8	+14·3	0	8	
		5932*a*	0·224	115·2	27·5	0·0	2	12	
		5932	0·312	116·9	23·0	− 2·7	0	8	
		5933	0·436	151·5	26·6	−17·0	44	222	
M.		5933	0·449	147·4	24·5	−16·8	0	19	
		5933	0·459	144·3	23·0	−16·4	0	5	
		5933	0·432	141·4	23·0	−14·3	29	97	
		5933	0·455	140·0	21·5	−15·0	17	67	
		5933	0·482	142·6	21·3	−17·1	0	5	
		5933	0·472	140·1	20·8	−15·9	2	9	
		5931	0·611	61·3	4·1	+21·6	0	4	
		5931	0·636	64·9	1·4	+20·1	0	21	
		5931*a*	0·647	61·8	1·2	+22·2	96	425	
		5931	0·664	59·0	0·6	+24·3	0	6	
		5931	0·690	63·6	357·5	+22·0	0	9	
			0·765	53·8	353·4	+30·7			97
			0·842	64·0	342·8	+24·8			97
July 29				(+9·5)	(39·1)	(+5·6)	(217)	(1173)	(960)
1906.				°	°	°			
210·685	CL, RF		0·945	292·7	91·9	+23·3			109
			0·868	261·3	79·7	− 4·6			72
			0·857	301·6	77·6	+29·9			87
			0·830	275·1	76·7	+ 7·4			449
			0·871	242·5	75·9	−20·5			124
			0·808	296·0	73·1	+24·2			122
			0·714	292·8	64·8	+20·1			50
			0·772	234·7	63·3	−22·4			61
		5923*c*	0·988	272·8	101·7	+ 3·7	4	98	
		5924*a*	0·975	272·3	97·7	+ 3·6	16	98	592*c*
		5924	0·968	271·8	96·0	+ 3·2	0	38	
		5930*a*	0·846	255·6	76·4	− 9·0	2	9	206*f*
		5928*	0·584	294·5	54·5	+18·7	0	9	
		5928*	0·593	297·4	54·5	+20·5	0	3	
		5928*	0·531	298·7	50·0	+19·7	0	7	
		5928	0·527	283·9	51·9	+12·1	0	2	
		5928	0·505	279·5	50·7	+ 9·8	0	1	
		5928	0·498	281·6	50·1	+10·7	0	10	
		5928	0·466	280·0	48·1	+ 9·7	0	5	
		5928*a*	0·461	278·0	47·9	+ 8·8	0	8	
		5928	0·450	281·6	47·0	+10·3	0	4	
		5928	0·453	284·2	47·0	+11·5	0	4	
		5934	0·437	290·3	45·4	+13·8	0	1	
G.		5934	0·429	290·8	44·8	+14·0	3	11	
		5934	0·404	291·8	43·1	+13·9	0	2	
		5934	0·385	292·7	41·9	+13·8	2	11	
		5934*a*	0·366	295·3	40·4	+14·4	3	6	
		5933*a*	0·366	193·4	25·5	−15·1	152	939	
		5933	0·392	188·0	23·8	−17·1	1	10	
		5933	0·375	187·8	23·5	−16·0	1	7	
		5933	0·383	184·2	22·1	−16·6	1	4	
		5933	0·366	183·2	21·7	−15·6	15	121	
		5933	0·342	182·4	21·3	−14·2	3	12	
		5933	0·347	180·4	20·7	−14·6	11	42	
		5931	0·380	49·5	2·7	+19·5	1	4	
		5931*a*	0·417	46·4	1·6	+22·0	95	447	
		5931	0·396	52·2	1·2	+19·3	2	8	
		5931	0·474	49·9	357·4	+23·0	0	3	
		5931	0·495	51·5	355·7	+23·0	4	11	
		5931	0·507	57·9	353·3	+20·7	0	7	
			0·714	65·1	336·5	+21·6			181
			0·846	132·4	333·9	−30·9			185
			0·845	100·6	324·1	− 5·8			263
			0·845	66·7	323·4	+22·7			179
			0·904	89·8	315·9	+ 2·7			195
			0·949	75·8	308·2	+15·3			302
July 30				(+10·1)	(20·5)	(+5·7)	(316)	(1942)	(3177)
211·662	CL, RF		0·950	264·4	78·7	− 3·5			72
G.			0·942	292·8	78·5	+23·4			71

Group 5934, July 29–31. A few small spots in a short stream ; *a*, the last spot, is the most stable and alone remains on July 31.
Group 5928*, July 30. Several small faint spots, *ap* Group 5928.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
211·662	CL, RF		0·923	286·9	75·4	+17·8			42
			0·924	298·6	74·9	+28·6			138
			0·920	276·4	74·8	+ 8·2			380
			0·945	244·4	74·1	−21·9			127
			0·870	239·9	62·0	−22·5			73
			0·768	230·8	48·4	−24·7			47
		5930*a*	0·940	258·3	76·1	− 8·9	0	17	192*sf*
		5934*a*	0·553	286·6	40·6	+14·0	1	12	
		5933	0·555	236·5	35·8	−12·7	0	3	
		5933	0·514	231·8	32·0	−13·2	0	1	
		5933	0·448	225·6	26·7	−12·8	0	3	
		5933	0·447	223·8	26·1	−13·3	7	19	
		5933*a*	0·457	220·4	25·4	−14·8	170	1132	
		5933	0·467	215·4	23·9	−16·8	0	18	
		5933	0·453	214·2	22·9	−16·3	0	8	
		5933	0·422	212·9	21·3	−15·0	33	241	
		5933	0·379	213·2	19·8	−12·7	0	7	
		5933	0·420	208·7	19·7	−15·9	0	4	
		5933	0·388	211·2	19·5	−13·7	0	8	
		5933	0·420	206·7	18·9	−16·3	0	5	
		5933	0·442	202·6	17·9	−18·3	0	5	
		5933	0·451	201·7	17·7	−19·0	0	5	
G.		5933	0·416	203·1	17·4	−16·7	0	11	
		5931	0·298	11·3	4·0	+22·7	0	1	
		5931	0·265	14·3	3·6	+20·6	0	1	
		5931*a*	0·294	19·2	1·6	+21·9	93	464	
		5931	0·257	23·0	1·5	+19·4	0	3	
		5931	0·264	25·7	0·7	+19·5	0	4	
		5931	0·283	25·8	0·1	+20·4	0	3	
		5931	0·266	28·5	359·9	+19·2	1	4	
		5931	0·280	30·3	359·0	+19·7	0	4	
		5931	0·330	40·9	354·4	+20·0	0	5	
		5931	0·360	37·2	354·1	+22·2	0	5	
		5931	0·330	42·3	354·0	+19·7	0	4	
		5931	0·359	39·5	353·4	+21·6	0	4	
		5931	0·389	37·5	352·7	+23·5	0	1	
		5931	0·367	42·3	352·3	+21·3	0	8	
			0·830	90·7	311·6	+ 2·7			107
			0·831	76·6	311·2	+14·4			151
			0·934	97·1	299·5	− 4·5			85
			0·953	112·7	298·9	−19·5			156
			0·942	86·3	297·1	+ 5·4			168
			0·959	105·4	296·2	−13·0			136
			0·947	71·7	295·6	+19·2			379
			0·963	61·6	292·4	+28·9			99
July 31				(+10·5)	(7·6)	(+5·8)	(305)	(2010)	(2423)
212·675	CL, RF		0·990	275·1	76·3	+ 5·9			219
G.			0·988	257·0	73·6	−11·9			302
			0·971	284·2	71·2	+15·2			99
1906.				°	°	°			
212·675	CL, RF		0·951	292·4	66·9	+23·1			96
			0·935	277·8	63·8	+ 9·4			45
			0·848	285·9	52·3	+16·6			52
			0·836	277·2	51·2	+ 9·3			229
			0·816	260·7	47·8	− 4·1			78
			0·787	291·4	45·4	+20·4			87
			0·796	250·4	44·0	−11·7			118
			0·729	283·1	40·9	+13·6			154
		5933	0·589	241·3	25·9	−11·4	0	4	231c
		5933*a*	0·598	235·4	24·7	−14·7	171	1428	
		5933	0·624	229·8	24·3	−18·6	0	10	
G.		5931*a*	0·305	336·5	1·7	+22·0	79	443	
		5931	0·301	345·9	358·7	+22·8	0	4	
		5931	0·307	9·7	351·0	+23·5	0	4	
			0·790	61·5	303·9	+25·9			63
			0·841	108·7	299·8	−12·3			81
			0·885	100·7	293·3	− 6·6			83
			0·880	71·7	292·4	+18·9			195
			0·919	54·2	288·8	+35·1			136
			0·959	106·9	283·2	−14·3			209
			0·967	71·1	278·0	+19·8			58
Aug. 1				(+10·9)	(354·2)	(+5·9)	(250)	(1893)	(2535)
213·684	CL, RF		0·929	278·0	49·5	+ 9·6			208
			0·884	287·0	43·2	+17·8			216
			0·883	253·2	40·3	−11·8			209
			0·940	221·1	36·7	−41·8			61
		5933*a*	0·748	243·9	24·7	−14·9	121	1214	230c
		5933	0·706	241·7	20·7	−15·0	45	208	
		5931	0·483	312·0	3·9	+24·2	5	15	
		5931*a*	0·428	310·4	1·2	+21·6	88	444	
		5931	0·464	317·3	1·1	+25·4	5	11	
G.		5931	0·451	315·8	0·9	+24·3	4	11	
			0·684	69·6	298·6	+18·1			64
			0·773	58·5	292·8	+27·9			42
			0·817	71·6	286·2	+18·4			161
			0·870	110·4	283·6	−14·5			175
			0·911	55·7	276·4	+33·6			72
			0·948	105·1	271·5	−12·3			130
			0·946	68·0	269·1	+22·7			150
			0·962	82·3	266·1	+ 9·1			97
Aug. 2				(+11·3)	(340·8)	(+5·9)	(268)	(1903)	(1815)
214·688	CL, RF		0·968	281·6	43·7	+12·7			223
			0·948	294·3	39·5	+24·9			61
G.			0·943	257·9	36·3	− 9·3			151
			0·939	248·4	33·9	−17·9			47
			0·874	284·9	28·7	+15·9			178

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
214·688	CL, RF		0·863	264·7	26·5	− 1·5			88
			0·924	232·6	26·3	−31·1			202
			0·812	295·2	20·7	+23·8			62
			0·735	282·9	14·8	+13·6			212
			0·797	230·7	10·7	−26·0			117
			0·700	296·0	10·2	+22·3			42
		5933	0·893	251·1	27·8	−13·9	0	28	
		5933	0·881	251·7	26·4	−13·0	0	13	
		5933*a*	0·871	249·4	24·7	−14·6	131	1016	
		5933	0·858	245·1	22·1	−17·7	0	32	494*c*
G.		5933	0·853	245·9	21·8	−16·9	0	6	
		5933	0·837	247·8	20·6	−14·9	12	153	
		5933	0·832	246·0	19·6	−16·2	0	22	
		5931*a*	0·590	299·3	1·0	+21·8	81	448	164*c*
		5931	0·553	300·4	358·2	+21·4	0	2	
			0·706	67·3	283·8	+20·1			149
			0·745	115·0	283·6	−14·0			153
			0·812	127·4	282·1	−25·4			149
			0·832	49·1	276·0	+36·7			140
			0·852	107·0	271·6	−11·1			60
			0·932	128·6	267·8	−32·6			62
			0·867	66·4	267·8	+23·3			167
			0·925	88·0	259·8	+ 4·2			114
			0·926	77·3	259·2	+14·0			71
			0·960	63·7	252·8	+27·0			154
Aug. 3				(+11·7)	(327·5)	(+6·0)	(224)	(1720)	(3260)
215·647	CL, RF		0·952	286·1	27·9	+17·2			135
			0·944	265·0	24·9	− 2·7			93
			0·914	294·5	21·1	+24·9			69
			0·862	280·4	14·8	+12·0			147
			0·903	242·5	14·2	−21·6			55
			0·829	270·0	10·8	+ 3·5			86
			0·903	233·0	10·8	−29·6			65
			0·741	310·3	357·2	+33·2			267
			0·780	231·7	356·9	−24·3			76
		5933	0·963	254·6	27·0	−13·0	0	18	
G.		5933*a*	0·951	252·3	24·2	−14·7	117	1051	534*c*
		5933	0·932	252·4	21·0	−14·0	0	22	
		5931*a*	0·733	294·5	0·7	+22·0	66	427	401*c*
		5931	0·714	290·1	359·7	+18·6	0	5	
			0·605	68·3	278·9	+17·9			79
			0·752	70·3	266·7	+18·7			48
			0·827	89·2	259·1	+ 4·2			160
			0·852	62·2	257·5	+26·8			170
			0·867	74·7	254·5	+16·3			72
			0·968	58·4	238·4	+32·1			117
Aug. 4				(+12·1)	(314·9)	(+6·1)	(183)	(1523)	(2574)
1906.				°	°	°			
216·659	CL, RF		0·962	281·5	16·4	+12·7			114
			0·968	237·8	10·8	−29·0			47
			0·837	252·3	355·6	−11·1			131
			0·870	236·7	354·6	−24·9			121
			0·790	304·7	350·5	+30·9			117
		5933*a*	0·997	253·9	24·8	−15·4	0	599	202*f*
		5932*	0·914	285·3	8·1	+16·5	0	7	174*c*
G.		5932*	0·905	284·9	6·8	+16·1	0	3	
		5931*a*	0·857	291·8	0·3	+21·9	67	395	
		5931	0·832	292·6	357·3	+22·2	0	5	475*c*
		5931	0·820	293·1	356·0	+22·4	0	4	
			0·619	55·7	267·1	+25·5			54
			0·759	60·0	254·4	+26·6			106
			0·898	54·9	239·2	+34·1			155
			0·959	46·6	228·8	+43·2			38
Aug. 5				(+12·5)	(301·5)	(+6·2)	(67)	(1013)	(1734)
217·448	CL, RF		0·964	285·4	6·6	+16·5			133
			0·962	276·9	5·7	+ 8·4			43
			0·885	283·1	353·8	+14·5			100
			0·868	301·5	349·9	+30·3			335
			0·878	251·4	349·5	−13·0			81
			0·734	292·3	337·4	+20·6			97
G.			0·717	256·1	335·3	− 5·4			129
		5931*a*	0·930	291·0	0·2	+21·9	90	422	367*c*
		5936	0·984	72·8	210·2	+18·0	0	26	48*p*
			0·681	60·6	250·6	+24·3			115
			0·842	54·8	236·4	+32·8			122
			0·911	52·0	227·3	+37·0			86
Aug. 6				(+12·8)	(291·1)	(+6·3)	(90)	(448)	(1656)
218·676	CL, RF		0·968	285·5	351·3	+16·6			52
			0·952	300·0	347·6	+30·5			135
			0·909	291·5	340·5	+22·2			78
			0·907	304·4	338·7	+33·7			63
			0·811	288·0	328·9	+18·3			118
			0·780	299·1	324·1	+26·4			153
		5931*a*	0·993	291·2	359·6	+21·7	73	361	296*f*
G.		5935*a*	0·957	72·7	200·8	+18·3	12	80	148*c*
			0·844	65·3	217·8	+24·2			71
			0·887	72·5	212·0	+18·4			90
			0·911	55·6	210·1	+33·9			55
			0·942	61·5	204·0	+28·9			53
			0·959	79·6	200·6	+11·8			236
			0·977	66·2	195·6	+24·6			96
Aug. 7				(+13·2)	(274·8)	(+6·3)	(85)	(441)	(1644)

Group 5932*, August 5. Two very small spots, *sp* Group 5931.
Group 5936, August 6–17. A small spot, on August 6, not seen on August 7. On August 8 a small spot, *a*, followed by a train of small unstable spots. The group has disappeared by August 12, but has broken out afresh by August 13. The new leader, *b*, increases in size and becomes a regular spot.
Group 5935, August 7–19. A large regular spot, *a*, with occasionally a very small companion.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
219·662	CL, RF		0·960	289·9	336·7	+20·9			137
			0·884	294·2	323·8	+24·3			165
			0·866	251·8	318·9	−12·3			51
			0·818	246·8	312·7	−14·8			85
			0·777	261·6	311·9	− 2·4			133
		5936*a*	0·754	72·4	213·1	+17·5	0	11	86*c*
G.		5935*a*	0·878	72·5	200·1	+18·4	15	94	80*c*
			0·803	79·5	208·1	+12·3			151
			0·833	93·0	205·7	+ 1·1			113
			0·921	82·0	194·2	+ 9·9			320
			0·955	109·1	192·2	−16·0			146
			0·940	67·3	191·1	+23·5			147
			0·958	98·7	189·6	− 6·5			134
Aug. 8				(+13·6)	(261·8)	(+6·4)	(15)	(105)	(1748)
220·661	CL, RF		0·838	270·3	305·5	+ 3·7			110
			0·867	249·8	305·4	−14·0			87
			0·838	261·5	304·5	− 3·6			88
			0·743	247·9	293·1	−11·7			103
			0·708	291·6	292·8	+19·7			123
		5937*a*	0·076	245·8	252·6	+ 4·6	1	6	
		5936*a*	0·565	68·6	215·3	+17·2	4	9	} 74*c*
		5936	0·637	69·1	210·0	+18·1	0	2	
		5935*a*	0·749	71·3	200·5	+18·2	13	88	
		5938	0·858	113·8	193·8	−16·6	1	6	} 582*f*
G.		5938	0·892	112·2	189·3	−16·5	1	13	
			0·804	81·0	194·8	+11·1			372
			0·864	62·8	189·5	+26·7			163
			0·889	105·5	188·1	−10·7			95
			0·902	99·1	185·4	− 5·3			76
			0·890	72·6	185·3	+18·4			100
			0·909	93·7	183·7	− 0·7			68
			0·911	85·2	182·7	+ 7·0			108
			0·946	78·3	176·8	+13·1			183
			0·965	69·6	172·6	+21·4			86
			0·986	114·4	172·0	−22·7			329
Aug. 9				(+14·0)	(248·6)	(+6·4)	(20)	(124)	(2747)
221·493	CL, RF		0·971	241·0	308·4	−26·1			54
			0·911	279·4	303·8	+11·3			84
			0·856	289·0	296·6	+19·6			78
			0·849	236·7	288·2	−23·7			45
			0·800	247·1	286·8	−13·9			95
G.			0·744	290·8	285·1	+19·8			90
		5937	0·271	256·1	252·8	+ 2·6	2	5	
		5937*a*	0·255	260·9	252·2	+ 4·0	0	8	
		5936*a*	0·403	60·4	216·1	+17·5	5	15	} 68*f*
		5936	0·403	63·2	215·7	+16·5	0	2	
1906.				°	°	°			
221·493	CL, RF	5935*a*	0·620	68·3	200·4	+18·4	13	92	98*f*
		5938	0·748	119·3	194·8	−16·8	0	9	}
		5938	0·759	120·6	194·4	−18·0	0	10	
		5938	0·776	118·7	192·3	−17·3	0	9	} 193*c*
		5938	0·791	118·6	190·9	−17·8	0	11	
		5938	0·806	115·8	188·7	−16·3	0	11	}
			0·582	56·1	205·7	+24·4			56
			0·661	84·8	196·1	+ 8·3			92
			0·776	66·0	187·6	+22·7			113
			0·820	106·6	184·9	− 9·6			131
G.			0·800	84·8	184·2	+ 8·1			73
			0·875	115·4	181·4	−18·5			246
			0·856	78·5	178·3	+13·2			132
			0·921	121·5	177·2	−25·6			84
			0·911	65·8	171·7	+24·7			48
			0·955	113·2	168·9	−19·8			559
			0·937	75·9	167·4	+15·4			144
			0·969	104·6	164·1	−12·4			122
			0·969	60·7	160·5	+30·0			41
Aug. 10				(+14·3)	(237·6)	(+6·5)	(20)	(172)	(2646)
222·247	FS, CL		0·903	270·2	292·1	+ 3·0			175
			0·893	288·7	291·2	+19·6			196
			0·918	250·5	291·0	−15·0			144
			0·738	294·6	274·0	+22·4			132
		5936*a*	0·267	43·3	216·6	+17·5	0	5	
		5936	0·254	47·6	216·4	+16·2	0	6	
		5936	0·288	49·3	214·5	+17·1	0	6	
		5935*a*	0·495	63·8	199·8	+18·4	13	94	61*c*
		5938	0·641	126·7	195·2	−17·0	0	2	
		5938	0·671	126·3	193·1	−18·0	3	8	
		5938	0·682	125·0	191·8	−17·7	1	11	
M.		5938	0·683	122·4	190·8	−16·2	1	8	
		5938	0·709	120·8	188·4	−16·3	2	7	
		5938	0·717	122·5	188·3	−17·7	0	3	
			0·619	65·3	190·9	+20·2			120
			0·701	108·1	185·5	− 7·8			146
			0·800	121·4	181·1	−20·2			235
			0·759	76·4	178·1	+14·6			184
			0·882	118·1	171·4	−21·0			320
			0·874	68·5	166·6	+21·9			150
			0·932	107·1	161·5	−13·3			250
			0·952	114·2	159·7	−20·6			371
Aug. 11				(+14·6)	(227·6)	(+6·5)	(20)	(150)	(2484)
223·214	AS, CL		0·925	287·6	283·1	+18·7			137
			0·940	247·3	280·9	−18·7			181
M.			0·783	295·2	265·3	+23·7			130

Group 5937, August 9–10. A very small spot, *a*, with a very small companion on August 10.
Group 5938, August 9–18. A few small spots in a short stream. The leader, *a*, alone remains by August 16.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
223·214	AS, CL	5935*a*	0·323	49·6	199·9	+18·3	18	84	
		5938*a*	0·515	140·1	194·7	−17·1	9	63	
		5938	0·528	136·9	192·8	−16·6	0	15	
		5938	0·548	139·2	192·7	−18·4	0	16	
		5938	0·541	134·5	191·2	−16·3	0	9	
			0·653	130·9	183·3	−19·7			228
M.			0·620	73·8	176·9	+15·1			133
			0·786	123·1	170·2	−20·8			194
			0·837	110·5	161·4	−13·2			258
			0·885	116·7	157·7	−20·0			301
			0·924	80·4	146·7	+11·4			257
Aug. 12				(+14·9)	(214·8)	(+6·5)	(27)	(187)	(1819)
224·122	AS, RF		0·958	267·0	275·7	− 1·0			118
			0·938	258·7	270·9	− 8·2			83
			0·819	272·5	257·9	+ 5·8			174
			0·726	303·8	246·0	+28·6			84
		5937*	0·848	239·4	254·3	−21·5	8	34	
		5937*	0·835	238·3	252·5	−21·8	0	4	208*c*
		5937*	0·823	240·1	252·0	−19·9	0	2	
		5937*	0·823	237·3	251·0	−22·0	0	18	
K.		5936*b*	0·257	316·9	213·4	+17·3	0	8	
		5936	0·241	319·8	212·1	+17·1	0	1	
		5936	0·218	328·3	209·7	+17·2	2	16	
		5936	0·215	331·8	208·9	+17·4	0	2	
		5935*a*	0·211	14·2	199·7	+18·3	16	80	
		5938*a*	0·417	165·0	196·3	−17·1	12	41	
		5938	0·447	162·2	194·5	−18·6	2	9	
			0·777	119·4	157·7	−17·8			342
			0·908	80·3	137·0	+11·6			149
Aug. 13				(+15·2)	(202·8)	(+6·6)	(40)	(215)	(1158)
225·640	CL, RF		0·947	289·5	255·0	+20·6			83
			0·939	280·9	253·4	+12·6			146
			0·942	271·2	253·2	+ 3·5			58
			0·959	244·8	251·7	−21·8			125
			0·917	264·3	248·5	− 2·5			89
			0·888	298·3	245·0	+28·1			135
			0·859	309·4	238·7	+36·9			145
			0·819	278·3	238·1	+10·6			52
G.			0·719	284·6	228·7	+15·1			120
			0·711	245·2	224·0	−12·3			85
		5936	0·565	291·3	216·1	+17·4	0	2	140*c*
		5936*b*	0·538	291·5	214·2	+17·1	4	14	
		5935	0·389	306·6	202·1	+19·7	0	2	
		5935	0·363	310·5	199·8	+20·0	0	1	
		5935*a*	0·345	308·0	199·4	+18·7	13	72	
		5935	0·337	317·2	196·9	+20·8	0	2	
1906.				°	°	°			
225·640	CL, RF	5938*a*	0·462	210·6	197·0	−16·8	8	59	
		5938	0·473	206·1	195·4	−18·5	0	4	
		5938	0·446	205·3	194·3	−17·1	0	3	223*c*
		5938	0·421	203·3	192·7	−16·0	0	2	
G.		5938	0·432	202·4	192·7	−16·9	0	3	
		5938	0·395	204·8	192·6	−14·4	0	6	
			0·822	74·5	127·3	+16·6			209
			0·968	86·5	107·1	+ 5·1			995
Aug. 14				(+15·7)	(182·8)	(+6·7)	(25)	(170)	(2605)
226·609	CL, RF		0·940	294·9	240·7	+25·6			147
			0·745	242·0	212·9	−15·6			139
			0·822	222·4	210·8	−32·3			120
		5936*b*	0·726	287·7	216·2	+17·4	12	50	
		5936	0·702	286·9	214·3	+16·6	0	8	
		5936	0·703	288·8	214·2	+17·9	0	4	
		5936	0·685	288·3	212·8	+17·4	5	16	213*c*
		5936	0·680	290·0	212·2	+18·4	0	2	
		5936	0·667	288·1	211·4	+17·0	2	10	
		5936	0·654	288·2	210·3	+16·9	5	14	
G.		5935*a*	0·518	295·3	199·5	+18·6	11	67	87*c*
		5935	0·488	289·7	198·3	+15·4	0	1	
		5938*a*	0·590	228·4	197·4	−17·1	8	34	184*c*
		5938	0·579	226·6	196·1	−17·4	0	2	
		5939	0·224	84·2	157·1	+ 7·8	0	4	
		5939	0·263	82·7	154·8	+ 8·4	3	6	
			0·888	89·0	107·3	+ 4·0			826
			0·916	79·1	103·0	+12·7			148
			0·954	104·6	99·7	−11·7			143
			0·947	72·0	97·7	+19·2			110
			0·976	65·0	91·0	+25·8			89
Aug. 15				(+16·0)	(170·0)	(+6·7)	(46)	(218)	(2206)
227·507	CL, RF		0·936	299·8	227·8	+30·2			123
			0·933	255·3	224·7	−11·1			66
			0·912	310·7	221·8	+39·7			116
			0·857	261·4	215·9	− 3·8			40
			0·823	297·4	212·4	+26·3			42
			0·747	274·9	206·6	+ 8·2			58
		5936*b*	0·851	286·0	216·7	+17·2	17	91	
		5936	0·811	286·3	212·4	+17·2	0	3	366*c*
G.		5936	0·785	286·6	209·8	+17·2	4	18	
		5936	0·774	288·0	208·6	+18·2	0	5	
		5940	0·860	246·7	214·0	−16·0	0	18	184*c*
		5940	0·838	242·7	209·5	−18·4	0	9	
		5935*a*	0·674	290·3	199·7	+18·6	10	67	143*c*
		5935	0·647	293·3	197·1	+20·1	0	3	
		5938*a*	0·723	238·2	197·9	−17·2	9	35	194*f*

Group 5937*, August 13. A few spots in a short straight stream. A sudden outburst.
Group 5939, August 15–17. One or two very small spots.
Group 5940, August 16–17. One or two small unstable spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
227·507	CL, RF	5939	0·027	25·4	157·3	+ 8·2	3	8	
		5939	0·020	134·9	157·2	+ 6·0	0	1	
		5939	0·044	51·5	156·0	+ 8·4	0	2	
		5939	0·051	62·2	155·4	+ 8·2	0	5	
G.			0·787	87·8	106·0	+ 5·9			1206
			0·866	70·7	97·7	+20·1			107
			0·895	108·6	97·6	−13·3			85
			0·943	99·0	88·7	− 6·1			165
			0·950	79·2	85·5	+12·3			170
Aug. 16				(+16·4)	(158·0)	(+6·8)	(43)	(265)	(3065)
228·489	CL, RF		0·918	269·9	211·5	+ 2·6			150
			0·890	295·5	207·8	+25·7			55
			0·867	252·8	202·4	−11·3			90
			0·842	261·7	201·3	− 3·2			143
			0·801	278·9	198·6	+11·2			174
			0·873	223·5	191·8	−34·7			110
			0·723	260·0	190·3	− 2·4			74
			0·736	300·5	190·1	+26·8			150
			0·701	249·9	186·6	− 8·8			71
			0·669	233·9	179·4	−17·6			338
			0·718	215·3	173·5	−29·8			77
		5936*b*	0·945	286·1	216·8	+17·4	7	69	318*c*
		5936	0·927	285·4	213·7	+16·8	0	5	
		5940	0·950	250·8	213·7	−15·9	0	15	215*c*
		5940	0·938	249·6	211·2	−16·4	0	15	
		5935*a*	0·815	288·1	199·7	+18·7	10	56	166*c*
G.		5938*a*	0·842	243·8	197·3	−17·7	15	69	282*c*
		5939	0·186	277·3	155·7	+ 8·0	0	3	
		5943	0·620	88·6	106·6	+ 6·2	0	9	
		5943	0·664	88·7	103·3	+ 6·0	0	19	
		5943	0·689	88·7	101·4	+ 5·8	0	8	
			0·676	67·6	103·4	+20·1			113
			0·665	89·4	103.3	+ 5·5			960
			0·785	112·4	97·1	−12·8			77
			0·798	62·8	93·2	+25·7			59
			0·800	99·4	93·0	− 3·3			79
			0·845	81·1	86·9	+11·1			268
			0·882	66·7	83·0	+23·7			126
			0·920	113·8	82·5	−18·7			140
			0·907	104·5	82·1	−10·1			155
			0·913	94·7	79·7	− 1·5			116
			0·930	61·1	76·3	+29·3			85
			0·940	84·5	74·6	+ 7·5			161
Aug. 17				(+16·8)	(145·0)	(+6·8)	(32)	(268)	(4752)
229·344	FS, CL		0·975	285·7	212·2	+16·8			345
M.			0·876	279·9	195·5	+12·0			140
			0·867	271·3	194·0	+ 4·6			177
1906.				°	°	°			
229·344	FS, CL		0·852	298·1	191·4	+27·4			158
			0·837	253·8	188·2	− 9·5			114
			0·853	240·3	186·1	−20·9			169
			0·768	231·2	174·4	−23·5			186
		5935*a*	0·908	287·3	199·7	+18·6	12	58	145*n*
		5938*a*	0·928	247·8	198·0	−17·6	6	31	235*c*
		5941	0·639	228·0	163·9	−19·3	3	19	119*c*
M.		5941	0·636	225·4	162·6	−20·4	0	6	
		5943	0·468	96·5	106·2	+ 3·1	0	4	
		5942*a*	0·494	78·3	104·3	+11·8	4	13	
		5942*b*	0·527	80·6	102·0	+10·8	5	13	
			0·724	63·6	88·9	+23·7			121
			0·803	79·2	80·0	+12·8			131
			0·855	57·1	76·6	+31·6			130
Aug. 18				(+17·1)	(133·8)	(+6·9)	(30)	(144)	(2170)
230·510	CL, RF		0·944	260·0	187·7	− 7·0			152
			0·900	293·3	183·0	+24·0			115
			0·934	244·9	182·7	−20·5			437
			0·825	281·6	174·3	+13·4			158
			0·791	251·2	167·8	−10·3			56
			0·798	236·7	163·9	−21·2			364
			0·631	228·8	148·3	−18·6			177
		5935*a*	0·981	288·0	198·6	+18·9	33	108	285*f*
		5942*a*	0·235	68·9	105·5	+11·6	18	102	
G.		5942	0·257	68·9	104·3	+12·0	0	7	
		5942	0·295	70·7	101·9	+12·2	0	3	
		5942*b*	0·295	76·3	101·5	+10·6	7	43	
		5942*c*	0·312	77·5	100·4	+10·4	7	26	
			0·771	77·5	67·7	+14·0			79
			0·843	95·8	61·6	− 1·1			111
			0·936	106·2	51·6	−12·5			134
			0·916	78·7	51·4	+13·1			472
			0·931	68·6	49·0	+22·4			78
Aug. 19				(+17·4)	(118·4)	(+6·9)	(65)	(289)	(2618)
231·214	FS, AS		0·897	280·9	173·4	+12·8			187
			0·902	252·8	170·8	−12·3			132
			0·901	241·6	167·6	−21·9			550
			0·780	247·6	156·6	−12·6			100
			0·784	231·9	151·4	−23·8			117
		5943	0·073	169·1	108·3	+ 2·8	0	8	
M.		5943	0·059	156·0	107·7	+ 3·9	0	4	
		5942*a*	0·094	30·9	106·3	+11·6	20	133	
		5942	0·146	21·3	106·0	+14·7	0	4	
		5942	0·097	57·0	104·4	+ 9·9	0	13	
		5942	0·133	50·6	103·1	+11·7	2	11	
		5942*b*	0·141	62·6	101·8	+10·6	0	7	

Group 5943, August 17–20. A disturbed area, *s* Group 5942, wherein a few faint unstable markings form and disappear. The group is not seen on August 19.
Group 5941, August 18. A number of small spots in a short irregular stream.
Group 5942, August 18–25. A few small spots on August 18. The group rapidly develops into a straight stream, with, *a*, a large composite spot, as leader, and two spots very close together, *b* and *c*, as rear guard. The group speedily diminishes after August 21.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
231·214	FS, AS	5942	0·150	75·3	100·7	+ 9·1	0	5	
		5942*c*	0·160	66·0	100·6	+10·6	10	63	
		5945	0·282	93·9	92·8	+ 5·5	0	19	
		5945	0·345	95·0	89·0	+ 4·8	0	4	
M.		5945	0·375	93·6	87·1	+ 5·1	0	7	
			0·831	59·5	54·4	+29·0	.		150
			0·885	109·1	50·0	−13·4			178
			0·870	75·0	48·1	+16·5			231
			0·989	105·5	30·0	−14·1			291
Aug. 20				(+17·6)	(109·1)	(+6·9)	(32)	(278)	(1936)
232·407	CL, RF		0·943	248·7	160·1	−17·4			178
			0·901	298·6	157·5	+28·7			150
			0·921	240·5	154·2	−23·7			210
		5942*a*	0·232	291·7	106·0	+11·8	19	140	
		5942	0·182	294·8	103·0	+11·3	0	15	
		5942	0·160	288·1	102·1	+ 9·8	0	13	
		5942*b*	0·148	301·3	100·7	+11·4	2	31	
		5942*c*	0·131	299·0	100·0	+10·6	7	47	
		5945	0·117	97·3	86·6	+ 6·1	0	6	
		5945	0·164	95·7	83·9	+ 6·0	4	11	
		5947	0·459	148·6	78·9	−16·2	4	16	
G.		5947	0·473	143·6	76·4	−15·6	0	9	133*c*
		5947	0·492	145·3	76·3	−17·1	0	2	
		5944*b*	0·946	108·1	25·2	−14·6	20	127	1091*c*
		5944*a*	0·951	110·4	24·8	−16·9	80	174	
			0·627	77·3	54·5	+13·4			421
			0·775	118·7	48·2	−16·9			277
			0·763	81·1	43·3	+11·3			258
			0·823	61·5	39·0	+27·3			179
			0·858	85·7	33·9	+ 7·3			46
			0·877	74·5	31·5	+16·9			135
			0·952	64·3	19·9	+26·6			154
			0·970	78·3	16·4	+13·0			181
Aug. 21				(+18·0)	(93·3)	(+7·0)	(136)	(591)	(3413)
233·395	CL, AS		0·969	246·2	151·7	−20·9			186
		5942*a*	0·438	282·2	106·1	+11·7	17	111	
		5942	0·428	280·6	105·6	+10·9	0	4	
		5942	0·430	284·8	105·4	+12·7	0	2	
		5942*c*	0·348	282·3	100·5	+10·8	1	11	
		5945	0·133	262·1	87·9	+ 5·9	2	16	
M.		5945	0·108	252·7	86·2	+ 5·1	0	6	
		5945	0·081	251·1	84·7	+ 5·5	0	2	
		5947	0·410	178·7	79·7	−17·1	3	16	
		5947	0·398	176·5	78·9	−16·3	0	9	
		5947	0·401	170·7	76·4	−16·2	2	9	
		5947	0·421	168·6	75·3	−17·3	0	5	
1906.				°	°	°			
233·395	CL, AS	5944*b*	0·855	111·2	25·3	−14·0	10	72	
		5944	0·857	112·1	25·2	−14·9	0	4	580*c*
		5944*a*	0·866	114·1	24·8	−16·8	39	199	
M.		5946*a*	0·990	68·3	356·4	+22·4	39	321	181*p*
			0·728	81·0	33·3	+11·4			114
			0·802	66·9	27·4	+22·7			157
			0·890	78·6	16·8	+13·3			158
Aug. 22				(+18·4)	(80·3)	(+7·0)	(113)	(787)	(1376)
234·418	CL, RF		0·876	275·5	128·3	+ 8·2			55
		5942*a*	0·625	280·1	105·6	+11·7	12	83	
		5942	0·560	279·9	100·9	+11·3	0	7	652*sp*
		5942	0·549	279·1	100·2	+10·9	0	2	
		5945	0·377	265·6	88·9	+ 4·8	8	19	
		5945	0·329	265·6	85·9	+ 5·2	0	6	
		5947	0·476	209·8	81·1	−17·5	0	11	
G.		5944*b*	0·723	117·3	25·5	−14·1	10	55	1190*c*
		5944*a*	0·750	120·1	24·3	−16·9	18	283	
		5946*a*	0·934	69·0	356·8	+22·1	41	320	209*c*
			0·756	75·9	17·5	+15·2			391
			0·849	85·6	8·4	+ 7·4			162
			0·908	109·9	5·0	−14·7			183
			0·909	60·5	1·6	+29·6			185
			0·932	78·7	357·3	+13·1			196
Aug. 23				(+18·7)	(66·8)	(+7·0)	(89)	(786)	(3223)
235·586	CL, RF		0·872	250·0	108·7	−13·6			145
		5942*a*	0·807	279·6	105·6	+11·9	5	24	771*sp*
		5945	0·567	268·8	85·9	+ 5·2	2	7	
		5945	0·560	272·9	85·6	+ 7·5	0	3	
		5947	0·602	228·9	79·6	−17·0	1	3	
		5947	0·596	227·6	78·8	−17·4	0	9	
		5947	0·565	223·4	75·4	−17·7	1	13	
		5944	0·610	138·6	25·9	−20·8	0	3	
		5944	0·526	126·5	25·9	−11·8	0	3	
		5944*b*	0·549	129·0	25·4	−13·8	10	51	
		5944	0·612	136·9	25·1	−20·1	0	2	
G.		5944	0·605	135·9	25·0	−19·3	0	8	402*c*
		5944*a*	0·601	131·6	23·4	−17·2	37	294	
		5944	0·599	129·9	22·9	−16·3	0	3	
		5944	0·584	127·5	22·9	−14·6	0	3	
		5944	0·604	128·6	22·1	−15·9	0	1	
		5944	0·667	127·6	17·8	−18·1	0	8	
		5950	0·522	111·6	22·4	− 4·8	0	1	
		5950	0·539	109·8	21·0	− 4·4	0	3	
		5950	0·552	108·7	19·9	− 4·2	0	4	
		5950	0·565	110·7	19·5	− 5·5	7	35	
		5950	0·584	111·1	18·3	− 6·2	1	4	

Group 5945, August 20–25. Two or three very small spots, *f* Group 5942.
Group 5944, August 21–September 1. Return of Group 5933. A large regular spot, *a*, preceded by a large spot, *b*, on August 21. Other spots break out in the neighbourhood on the succeeding days forming, with *a* and *b*, a scattered irregular stream, much inclined to the equator.
Group 5947, August 21–24. A few very small spots forming a broken ring on August 21. The group quickly diminishes.
Group 5946, August 22–September 4. Return of Group 5931. Fourth apparition. A large regular spot, *a*, with occasionally a few small companions.
Group 5950, August 24–September 1. A fine irregular stream, *n*, of Group 5944. The leader, *a*, becomes a large regular spot; and *b*, a large composite spot, occupies the rear of the group.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
235·586	CL, RF	5951	0·679	113·1	12·2	−10·0	0	5	
		5951	0·699	111·4	10·3	− 9·4	0	4	
		5951	0·715	113·7	9·7	−11·4	3	12	126c
		5951	0·712	110·9	9·2	− 9·5	0	8	
		5951	0·723	111·2	8·4	−10·0	0	3	
G.		5946a	0·826	67·7	355·9	+22·4	40	247	
		5946	0·867	65·9	351·3	+24·4	0	10	355c
			0·824	128·9	5·9	−26·2			173
			0·847	55·0	355·6	+33·2			65
			0·939	57·3	341·0	+33·1			115
Aug. 24				(+19·0)	(51·4)	(+7·1)	(107)	(771)	(2152)
236·160	AS, RF		0·941						98
			0·927						207
			0·899						127
		5942a	0·877				5	21	621sp
		5945	0·691				2	8	
		5945	0·660				4	25	85c
		5944	0·410				1	8	
		5944	0·436				0	4	
		5944b	0·470				6	38	
		5944	0·541				0	4	
		5944a	0·520				34	206	
		5944	0·510				0	7	
		5944	0·547				7	56	
		5944	0·537				0	1	
		5944	0·499				0	3	
D.		5944	0·592				4	11	
		5950a	0·408				4	15	
		5950	0·430				0	10	
		5950b	0·465				12	71	
		5950	0·514				3	12	
		5951	0·574				3	5	
		5951	0·600				8	18	
		5951	0·619				0	1	64c
		5951	0·630				7	29	
		5946a	0·755				55	264	
		5946	0·804				0	4	479c
		5946	0·812				2	11	
			0·792						201
			0·711						143
			0·911						162
Aug. 25				(+19·2)	(43·8)	(+7·1)	(157)	(832)	(2187)
237·673	CL, RF		0·982	273·5	103·1	+ 4·8			317
G.			0·974	280·4	101·6	+11·7			270
			0·927	289·9	92·6	+21·1			115
			0·873	272·2	84·8	+ 5·4			237

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
237·673	CL, RF		0·832	282·0	80·5	+13·9			170
			0·860	245·7	78·5	−16·7			186
		5944	0·325	196·9	29·3	−11·0	0	13	
		5944	0·371	190·1	27·6	−14·3	0	5	
		5944	0·356	190·2	27·5	−13·3	0	3	
		5944b	0·364	185·0	25·7	−14·1	8	26	
		5944a	0·410	180·1	23·8	−17·0	26	178	
		5944	0·467	178·6	23·1	−20·6	0	1	
		5944	0·491	178·2	22·8	−22·2	0	2	
		5944	0·440	175·0	21·5	−18·8	0	6	
		5944	0·439	173·7	20·9	−18·7	1	3	
		5944	0·453	173·8	20·8	−19·6	5	19	
		5950	0·195	192·7	26·3	− 3·9	0	3	
		5950a	0·187	183·7	24·5	− 3·6	22	108	
		5950	0·210	182·5	24·3	− 5·0	0	3	
		5950	0·210	178·8	23·5	− 5·0	0	3	
		5950	0·176	175·1	22·9	− 2·9	2	5	
		5950	0·206	173·8	22·5	− 4·7	0	4	
G.		5950	0·198	168·9	21·6	− 4·1	0	5	
		5950	0·216	167·1	21·0	− 5·0	0	4	
		5950b	0·229	158·5	19·0	− 5·2	37	145	
		5950	0·258	150·5	16·5	− 5·9	6	25	
		5950	0·254	139·7	14·4	− 4·1	0	2	
		5953	0·115	43·8	19·2	+11·9	2	8	
		5952a	0·324	154·9	15·8	−10·0	13	77	
		5952	0·322	151·9	15·0	− 9·5	0	3	
		5951	0·349	145·6	12·3	− 9·8	0	3	
		5951	0·317	140·4	12·1	− 7·1	0	1	
		5951	0·380	140·5	9·6	−10·2	1	6	
		5951	0·392	136·6	8·0	− 9·6	0	2	
		5951	0·399	137·7	8·0	−10·3	9	52	
		5946a	0·525	57·1	355·4	+22·8	35	243	
		5954	0·867	109·1	326·9	−12·7	0	6	
		5954	0·903	108·4	322·4	−13·2	0	6	109c
			0·783	110·1	335·5	−10·9			62
			0·887	116·0	326·4	−19·1			161
			0·867	68·9	323·4	+21·8			77
Aug. 26			0·866	81·1	323·3	+11·3			83
				(+19·6)	(23·8)	(+7·1)	(167)	(970)	(1787)
238·647	CL, RF		0·941	298·9	82·0	+29·6			87
			0·936	280·4	81·1	+12·3			273
			0·946	249·2	78·3	−17·0			142
		5944	0·428	219·8	27·1	−12·3	0	4	
G.		5944b	0·439	214·6	25·7	−14·1	0	11	
		5944a	0·458	207·6	23·7	−16·8	32	186	
		5944	0·480	198·9	20·4	−19·8	3	5	
		5950a	0·321	233·8	25·9	− 3·9	21	158	
		5950	0·310	228·6	24·3	− 4·8	0	8	

Group 5951, August 24–30. A few small spots, *sf* Group 5950.
August 25. The orientation of the photograph taken at Dehra Dûn on this day appears to be in error.
Group 5952, August 26–September 2. A regular spot, *a*, forming *p* Group 5951. Occasionally *a* is accompanied by some small attendants. Groups 5944, 5950, 5951 and 5952 form one great area of disturbance.
Group 5953, August 26–30. One or two very small spots. The group is not seen on August 28.
Group 5954, August 26–September 2. A pair of very small spots on August 26. The group is not seen on August 27. It has revived by August 28, as a number of small spots in an elliptical ring. The group gradually straightens out to form a short stream of normal type.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
238·647	CL, RF	5950	0·294	232·0	24·3	− 3·4	4	14	
		5950	0·280	233·8	23·9	− 2·5	2	16	
		5950	0·294	227·4	23·4	− 4·4	3	18	
		5950	0·275	228·5	22·8	− 3·4	0	1	
		5950	0·283	223·9	22·2	− 4·7	0	4	
		5950	0·256	229·5	22·1	− 2·5	0	4	
		5950	0·253	225·3	21·2	− 3·2	0	5	
		5950	0·261	222·5	21·0	− 4·0	2	7	
		5950*b*	0·261	215·7	19·7	− 5·1	39	180	
		5950	0·239	215·3	18·8	− 4·1	7	23	
		5950	0·240	204·7	16·7	− 5·4	0	10	
		5950	0·252	203·2	16·6	− 6·2	0	3	
G.		5953	0·166	298·5	19·4	+11·7	0	6	
		5953	0·130	296·3	17·7	+10·4	0	5	
		5952*a*	0·299	198·1	16·3	− 9·3	21	98	
		5951	0·305	178·6	10·5	−10·5	0	3	
		5951	0·299	175·1	9·4	−10·0	3	11	
		•5951	0·302	170·4	8·0	−10·0	5	35	
		5946	0·279	46·9	358·6	+18·0	0	3	
		5946	0·311	42·6	358·0	+20·2	0	2	
		5946*a*	0·374	42·7	355·0	+22·8	39	245	
		5946	0·368	46·5	354·3	+21·5	0	3	
		5954*	0·737	122·1	330·1	−17·6	0	2	} 1 *nf*
		5954*	0·752	121·3	328·6	−17·7	0	4	
			0·896	114·2	311·8	−18·0			80
Aug. 27				(+19·8)	(10·9)	(+7·2)	(181)	(1074)	(~~734~~) 583
239·654	CL, AS		0·958	254·2	68·3	−12·8			55
			0·958	235·3	63·2	−30·3			82
			0·946	227·5	57·4	−36·3			100
			0·806	282·8	51·7	+14·6			120
			0·864	241·5	51·4	−20·1			118
			0·927	215·2	46·1	−44·6			150
			0·600	186·7	2·2	−29·3			82
		5944	0·622	224·2	25·0	−20·1	0	11	
		5944	0·596	224·6	23·7	−18·6	0	4	
		5944*a*	0·581	226·6	23·7	−17·1	26	191	
		5944	0·601	222·3	23·0	−19·8	0	8	
G.		5950*a*	0·511	248·0	25·9	− 4·7	22	213	
		5950	0·487	250·9	24·9	− 2·7	3	27	
		5950	0·478	248·2	23·9	− 3·7	0	22	
		5950	0·455	251·1	23·0	− 2·0	0	9	
		5950	0·457	247·9	22·6	− 3·3	3	15	
		5950	0·438	251·8	22·1	− 1·3	0	2	
		5950*b*	0·430	242·4	20·0	− 4·8	40	195	
		5950	0·405	235·7	17·2	− 6·3	0	8	
		5952*a*	0·424	229·2	16·5	− 9·2	18	117	
		5952	0·415	225·9	15·1	− 9·9	1	9	
		5952	0·404	227·3	15·0	− 9·0	2	8	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
239·654	CL, AS	5952	0·412	224·1	14·5	−10·3	1	7	
		5952	0·384	222·8	12·9	− 9·3	4	22	
		5951	0·344	210·8	7·9	−10·0	1	6	
		5946*a*	0·277	10·1	354·6	+22·9	37	242	
G.		5954	0·591	120·8	326·5	−11·4	3	17	
		5954	0·611	123·4	326·1	−13·5	0	13	
			0·932	61·2	288·2	+29·4			57
			0·941	71·5	286·3	+19·8			192
Aug. 28		Centre		(+20·1)	(357·6)	(+7·2)	(161)	(1146)	(956)
240·479	CL, RF		0·960	239·0	54·0	−27·0			63
			0·916	249·9	49·5	−15·1			206
			0·878	283·2	48·7	+15·0			216
			0·744	246·6	30·8	−12·0			248
		5944	0·729	237·6	26·7	−17·5	0	10	} 448*c*
		5944	0·740	235·4	26·7	−19·3	0	11	
		5944*a*	0·697	236·0	23·8	−17·2	29	182	
		5944	0·699	231·5	22·1	−19·9	3	10	
		5950*a*	0·672	254·4	27·1	− 5·0	22	182	
		5950	0·660	256·9	26·6	− 3·1	2	24	
		5950	0·655	255·0	25·9	− 4·2	0	3	
		5950	0·643	254·6	25·0	− 4·2	0	126	
		5950	0·625	253·6	23·5	− 4·4	0	8	
		5950	0·614	254·6	22·9	− 3·6	0	5	
		5950	0·609	252·9	22·3	− 4·4	0	27	
		5950	0·601	254·4	22·0	− 3·5	0	7	
		5950*b*	0·583	251·1	20·2	− 4·9	37	168	
		5950	0·555	249·8	18·1	− 4·9	0	2	
		5953	0·521	282·0	18·0	+12·4	0	4	} 86*c*
G.		5953	0·499	280·9	16·6	+11·7	0	3	
		5953	0·484	283·9	15·4	+13·0	0	3	
		5952*a*	0·556	241·5	16·2	− 9·1	21	100	
		5952	0·554	239·7	15·6	− 9·9	1	5	
		5952	0·543	241·0	15·3	− 8·9	0	6	
		5951	0·515	238·0	12·9	− 9·3	6	14	
		5951	0·486	234·2	10·2	− 9·9	0	7	
		5946*a*	0·303	336·7	354·2	+23·3	39	214	
		5954	0·437	135·4	328·5	−11·2	14	41	
		5954	0·454	133·2	327·1	−11·3	0	5	
		5954	0·479	135·9	326·8	−13·3	0	2	
		5954	0·492	133·5	325·3	−13·1	7	37	
		5955*a*	0·865	104·1	288·9	− 8·4	7	24	} 212*c*
		5955	0·880	104·0	287·2	− 8·7	0	7	
		5956*a*	0·970	86·2	270·5	+ 5·5	43	209	422*c*
			0·744	88·4	298·5	+ 6·0			274
			0·847	69·4	288·7	+21·2			137
			0·887	80·9	283·6	+11·4			90
			0·929	113·2	282·7	−18·4			116
			0·964	65·4	270·6	+25·6			117

Group 5954*, August 27. Two very small faint spots, *s*, of the place of Group 5954.
Group 5955, August 29–30. A small spot, *a*, with a very small attendant on August 29.
Group 5956, August 29–September 8. A large double spot, *a*, breaking up, little by little, to form a compact stream.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
240·479	CL, RF		0·967	76·0	270·4	+15·3			311
G.			0·991	101·0	266·0	− 9·9			164
Aug. 29				(+20·4)	(346·7)	(+7·2)	(231)	(1446)	(3110)
241·529	CL, RF		0·964	284·9	48·6	+16·3			308
			0·888	296·1	35·5	+26·4			225
			0·852	283·2	31·8	+15·0			79
		5944	0·856	246·0	27·2	−16·3	9	30	781*c*
		5944	0·851	245·4	26·5	−16·6	0	6	
		5944*a*	0·830	243·6	23·7	−17·2	31	184	
		5950*a*	0·821	258·5	26·5	− 5·2	27	341	364*c*
		5950*b*	0·762	257·6	20·9	− 4·6	16	112	
		5950	0·740	255·6	18·7	− 5·6	0	17	
		5953	0·687	281·9	16·3	+13·4	0	7	122*c*
		5952*a*	0·722	250·1	16·1	− 9·0	17	128	236*c*
		5952	0·705	250·3	14·8	− 8·4	0	10	
G.		5951	0·682	248·0	12·5	− 9·3	3	17	
		5946*a*	0·434	310·4	353·8	+23·0	34	232	
		5946	0·420	313·3	352·2	+23·5	0	5	
		5954	0·322	169·4	329·4	−11·2	11	54	
		5954	0·337	160·7	326·3	−11·3	3	11	
		5954	0·365	157·0	324·4	−12·4	4	38	
		5955*a*	0·721	108·6	289·3	− 8·1	0	9	138*c*
		5956*a*	0·879	87·4	271·1	+ 5·7	27	237	285*c*
		5957	0·902	77·3	267·6	+14·6	5	20	374*c*
		5958	0·939	102·4	264·8	− 9·0	0	11	177*c*
			0·800	120·2	286·0	−18·8			227
			0·922	65·1	265·0	+25·7			160
			0·954	83·9	259·8	+ 8·0			488
Aug. 30				(+20·7)	(332·8)	(+7·2)	(187)	(1469)	(3964)
242·647	CL, RF		0·939	287·8	29·1	+19·2			214
			0·902	239·5	15·8	−23·5			205
			0·827	284·9	14·2	+16·3			306
		5944*a*	0·948	249·6	26·0	−16·7	44	295	607*c*
		5950*a*	0·936	261·6	26·3	− 5·2	58	444	607*c*
		5950	0·904	262·0	21·7	− 4·1	0	19	
		5950*b*	0·895	261·9	20·5	− 4·0	15	93	
		5952*a*	0·870	255·4	16·3	− 8·9	14	100	165*f*
G.		5946*a*	0·610	298·8	353·5	+23·0	32	212	308*p*
		5954	0·375	213·7	330·3	−11·1	3	24	
		5954	0·346	204·6	326·5	−11·1	0	6	
		5954	0·358	200·1	325·3	−12·4	6	41	
		5956*a*	0·721	89·1	271·9	+ 5·6	27	222	245*c*
		5957	0·749	77·6	269·4	+14·0	2	8	318*f*
		5958	0·825	106·6	265·1	− 9·3	0	16	420*c*
		5958	0·859	107·4	261·7	−10·9	0	16	
			0·677	66·4	276·6	+21·2			36
1906.				°	°	°			
242·647	CL, RF		0·808	61·7	265·3	+27·0			141
G.			0·855	84·8	259·0	+ 8·2			319
			0·956	62·4	244·0	+28·4			120
Aug. 31				(+20·9)	(318·1)	(+7·2)	(201)	(1496)	(4011)
243·528	CL, RF		0·934	281·1	16·2	+12·9			115
			0·923	290·1	14·6	+21·3			104
		5944	0·991	253·2	26·2	−15·5	0	82	540*c*
		5944*a*	0·984	250·9	23·0	−17·2	29	189	
		5950*a*	0·984	263·3	25·1	− 5·2	20	182	530*c*
		5952*a*	0·948	257·8	16·0	− 9·2	20	127	192*f*
		5946*a*	0·733	294·7	352·5	+22·9	26	200	146*c*
		5954	0·498	232·3	330·0	−11·1	4	10	
		5954	0·482	229·0	328·1	−11·7	0	7	
		5954	0·459	223·0	325·0	−12·8	1	4	
		5956*a*	0·562	91·1	272·2	+ 5·4	28	214	129*c*
G.		5957	0·606	76·4	269·2	+14·0	1	3	227*f*
		5957	0·629	76·7	267·4	+14·0	0	2	
		5958*a*	0·675	113·6	267·6	−10·0	6	24	137*c*
		5958	0·690	112·0	266·1	− 9·5	3	10	
		5958	0·699	110·9	265·2	− 9·1	9	37	
		5958	0·723	109·6	263·0	− 8·8	0	7	
		5958	0·743	109·5	261·4	− 9·3	0	2	
		5958	0·760	111·7	260·5	−11·3	0	8	
		5959	0·703	85·2	261·5	+ 8·5	2	10	338*f*
		5960*a*	0·996	73·3	219·6	+17·2	0	82	41*p*
			0·914	60·8	240·1	+29·6			77
			0·985	69·5	224·4	+21·4			54
Sept. 1				(+21·2)	(306·4)	(+7·2)	(149)	(1200)	(2630)
244·420	CL, RF		0·931	237·6	356·0	−26·6			153
			0·877	302·3	355·0	+31·7			67
		5952*a*	0·993	259·8	16·3	− 9·2	29	165	228*c*
		5946*a*	0·848	292·6	352·6	+23·0	31	187	329*c*
		5954	0·646	243·3	330·5	−11·0	0	7	
		5956	0·367	87·1	273·0	+ 7·8	0	2	
		5956*a*	0·373	93·4	272·7	+ 5·4	24	183	
		5957	0·402	72·2	271·5	+13·7	0	4	
		5957	0·439	75·9	268·8	+12·7	1	11	
G.		5958*a*	0·526	122·2	267·9	− 9·8	18	81	
		5958	0·521	119·9	267·5	− 8·6	3	13	
		5958	0·553	122·8	266·4	−11·0	0	1	
		5958	0·545	119·9	266·1	− 9·5	3	13	
		5958	0·558	117·6	264·7	− 8·8	14	76	
		5959	0·514	87·9	263·6	+ 7·3	0	1	
		5960*a*	0·965	73·5	218·5	+17·8	9	132	603*c*
			0·887	59·7	232·5	+30·1			113
			0·978	107·6	219·5	−15·4			385
Sept. 2				(+21·5)	(294·6)	(+7·2)	(132)	(876)	(1878)

Group 5957, August 30–September 4. One or two very small faint unstable spots, *nf* Group 5956.
Group 5958, August 30–September 9. A few spots, mostly small, in a short stream. The leader, *a*, is the most stable member of the group.
Group 5959, September 1–2. A small spot.
Group 5960, September 1–12. Return of Group 5957. A regular spot, *a*, at first quickly diminishing in size. The group develops later into a straight stream, which diminishes again after September 7.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
245·655	CL, RF		0·959	284·0	352·0	+15·4			93
			0·942	302·5	348·5	+33·0			122
			0·841	307·1	332·0	+34·8			137
			0·797	250·0	327·0	−11·2			250
		5946*a*	0·950	291·4	350·4	+22·5	24	150	} 287*c*
		5946	0·942	290·6	348·9	+21·8	0	7	
		5956	0·034	174·8	277·2	+ 5·3	0	4	
		5956	0·058	138·8	275·2	+ 4·7	0	2	
		5956	0·096	117·6	272·5	+ 4·7	0	2	
		5956*a*	0·093	111·1	272·4	+ 5·3	30	159	
		5956	0·089	86·7	272·3	+ 7·5	2	9	
		5956	0·132	92·2	269·8	+ 6·9	0	2	
		5957	0·133	38·8	272·5	+13·1	0	5	
G.		5957	0·151	38·1	271·9	+14·0	0	3	
		5957	0·222	59·0	266·2	+13·6	0	5	
		5957	0·249	53·6	265·5	+15·5	0	2	
		5958	0·319	148·3	267·7	− 8·6	0	1	
		5958*a*	0·342	148·6	267·0	− 9·8	15	89	
		5958	0·352	140·5	264·4	− 8·7	2	8	
		5958	0·362	138·7	263·5	− 8·8	9	33	
		5960*a*	0·858	73·4	217·8	+18·0	6	64	592*c*
			0·817	58·3	224·3	+29·9			116
			0·816	69·4	222·8	+20·9			82
			0·905	111·6	216·5	−16·0			386
			0·928	52·1	209·9	+37·7			141
			0·965	78·1	201·6	+13·3			111
			0·981	69·5	196·7	+21·5			152
Sept. 3				(+21·7)	(277·4)	(+7·2)	(88)	(545)	(2469)
246·149	CL, RF		0·969	248·6	343·8	−18·6			83
			0·886	305·3	332·9	+34·5			117
			0·865	250·6	328·4	−12·8			264
		5946*a*	0·975	291·3	350·7	+22·3	18	131	191*f*
		5956	0·036	282·9	273·8	+ 7·7	2	8	
		5956*a*	0·051	221·0	273·7	+ 5·0	17	105	
		5956	0·028	248·8	273·3	+ 6·6	3	13	
		5956	0·024	233·3	272·9	+ 6·4	0	5	
K.		5957	0·133	12·7	270·1	+14·6	1	2	
		5957	0·107	19·9	269·7	+13·0	0	2	
		5957	0·078	42·1	268·8	+10·5	0	4	
		5958*a*	0·305	166·9	267·8	−10·0	13	73	
		5958	0·311	161·6	266·1	− 9·9	0	4	
		5958	0·294	157·3	265·2	− 8·5	0	2	
		5958	0·307	155·4	264·4	− 9·1	2	16	
		5960*a*	0·798	73·2	218·7	+17·7	8	33	530*f*
		5961	0·980	112·3	197·1	−20·1	0	17	228*c*
			0·841	113·8	219·0	−15·6			346
			0·834	51·6	218·4	+35·7			42

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
246·149	CL, RF		0·954	101·4	201·0	− 8·6			65
K.			0·956	72·3	197·7	+19·0			88
Sept. 4				(+21·8)	(271·8)	(+7·2)	(64)	(415)	(1954)
247·611	CL, RF		0·974	254·4	327·3	−13·4			257
			0·907	259·4	316·4	− 6·5			91
		5956	0·410	266·6	277·0	+ 5·2	8	37	
		5956	0·388	265·5	275·6	+ 5·0	0	5	
		5956	0·369	261·0	274·1	+ 3·5	0	11	
		5956	0·358	266·5	273·7	+ 5·5	0	8	
		5958*a*	0·390	221·8	268·0	− 9·9	13	78	
		5958	0·354	216·8	265·2	− 9·4	0	1	
		5958	0·291	221·9	264·0	− 5·4	0	2	
		5960	0·532	69·7	221·5	+16·8	0	2	} 264*f*
G.		5960*a*	0·561	69·7	219·5	+17·2	0	10	
		5961	0·853	119·4	200·5	−20·4	0	3	}
		5961	0·865	117·7	198·6	−19·6	0	8	} 510*f*
		5961	0·872	120·0	198·6	−21·7	0	5	
			0·700	124·3	215·6	−17·5			266
			0·834	71·7	196·0	+19·2			190
			0·883	104·7	193·1	− 9·4			132
			0·951	77·9	179·9	+13·7			123
			0·958	69·5	178·2	+21·6			88
Sept. 5				(+22·2)	(252·8)	(+7·2)	(21)	(170)	(1921)
248·678	CL, RF		0·931	268·3	305·7	+ 1·1			114
			0·907	284·5	303·3	+16·2			46
			0·858	277·2	296·9	+ 9·9			224
		5956	0·627	270·0	276·3	+ 5·6	8	36	
		5956	0·614	270·5	275·4	+ 6·0	0	14	
		5956	0·613	268·9	275·2	+ 5·0	0	8	
		5958*a*	0·551	240·2	266·3	− 9·6	9	77	240*f*
		5962	0·308	149·5	228·4	− 8·2	2	6	
		5960	0·361	63·4	217·9	+16·1	0	7	
		5960	0·369	60·6	217·8	+17·2	3	7	
		5960	0·394	58·9	216·7	+18·4	0	5	
G.		5960	0·402	57·8	216·4	+19·1	7	21	
		5960	0·410	61·6	215·2	+17·9	0	9	
		5960	0·426	59·9	214·6	+19·0	0	17	
		5960	0·444	58·7	213·7	+19·9	4	29	
		5961*a*	0·761	125·1	195·9	−20·6	11	66	}
		5961	0·763	122·8	194·8	−19·2	0	18	} 350*c*
		5961	0·776	122·1	193·4	−19·2	6	43	
		5961	0·768	119·9	193·3	−17·4	0	2	
			0·708	71·6	192·6	+18·1			143
			0·870	58·9	177·8	+30·5			69
			0·865	73·4	177·0	+18·0			306

Group 5961, September 4–15. Return of Group 5938. An irregular cluster of small spots developing later into a straight stream. The leader, *a*, has become a large regular spot by September 8.
Group 5962, September 6–8. A small spot.

Errata: Sep. 3 — increase longitudes by 1 degree.
Sep. 5 — decrease longitudes by 0.4 degree.
Sep. 6 — increase longitudes by 1 degree.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
248·678	CL, RF		0·908	114·0	176·7	−18·3			420
G.			0·968	65·1	160·2	+25·9			116
			0·975	66·8	158·4	+24·2			105
Sept. 6				(+22·4)	(237·4)	(+7·2)	(50)	(365)	(2133)
249·648	CL, RF		0·928	270·6	293·7	+ 3·3			52
			0·870	289·0	286·5	+20·1			54
			0·655	284·1	266·5	+14·7			188
		5956	0·788	271·3	277·7	+ 5·6	0	14	129*c*
		5956	0·745	271·0	273·9	+ 5·6	0	13	
		5956	0·747	268·6	273·9	+ 3·9	2	6	
		5958*a*	0·710	249·1	267·6	− 9·2	7	59	269*c*
		5963	0·478	312·1	248·6	+25·4	0	8	
		5963	0·463	317·5	246·0	+26·8	0	5	
		5963*a*	0·449	317·6	245·2	+26·2	15	61	
		5963	0·407	322·2	241·6	+25·7	0	4	
		5962	0·289	201·5	231·7	− 8·3	4	12	
		5960	0·201	31·2	219·4	+17·1	0	2	
		5960	0·233	31·9	218·2	+18·6	5	21	
		5960	0·229	37·8	217·2	+17·7	0	17	
		5960	0·260	32·9	217·0	+19·8	0	5	
G.		5960	0·289	38·3	214·6	+20·3	3	32	
		5960	0·309	42·3	212·8	+20·3	0	4	
		5961*a*	0·634	135·7	197·5	−20·4	27	92	418*c*
		5961	0·635	133·8	196·6	−19·7	0	5	
		5961	0·650	132·5	195·1	−19·7	0	11	
		5961	0·681	131·7	192·8	−20·8	0	6	
		5961	0·674	130·3	192·6	−19·7	19	60	
		5961*	0·721	81·3	179·2	+11·3	0	6	35*c*
		5961*	0·735	82·2	178·0	+10·7	0	6	
			0·771	70·5	175·3	+19·7			167
			0·883	125·6	172·3	−26·7			132
			0·830	58·1	171·1	+30·3			117
			0·939	119·2	161·8	−24·2			145
			0·900	78·2	160·7	+13·8			141
			0·953	111·5	157·1	−17·9			193
			0·931	71·9	156·0	+19·5			93
Sept. 7				(+22·6)	(225·6)	(+7·3)	(82)	(449)	(2133)
250·515	CL, RF		0·953	289·4	287·8	+20·7			92
			0·960	248·5	284·1	−18·3			110
			0·779	283·1	265·6	+14·8			127
			0·727	272·1	260·9	+ 6·6			181
G.		5956	0·901	271·9	278·6	+ 5·0	0	3	192*f*
		5958*a*	0·828	253·4	267·4	− 9·3	7	33	357*c*
		5958	0·823	249·8	266·1	−12·0	0	8	
		5963*a*	0·576	305·6	245·3	+25·8	7	21	
		5963	0·580	307·1	245·2	+26·8	1	3	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
250·515	CL, RF	5963	0·525	309·9	240·7	+26·2	1	3	
		5962	0·409	229·8	232·4	− 8·4	1	10	
		5960	0·236	337·7	219·5	+19·9	0	5	
		5960	0·202	338·3	218·6	+18·0	1	8	
		5960	0·186	343·2	217·3	+17·5	0	9	
		5960	0·216	345·8	217·3	+19·3	0	3	
		5960	0·221	354·5	215·4	+20·0	0	3	
		5960	0·228	5·3	212·8	+20·4	6	27	
		5961	0·501	151·7	199·6	−19·0	0	3	
G.		5961*a*	0·533	150·9	198·1	−20·6	26	145	
		5961	0·559	145·4	194·4	−20·4	0	30	
		5961	0·571	142·1	192·3	−19·9	7	50	
		5964	0·749	77·8	165·3	+14·0	0	10	127*f*
		5965	0·937	82·8	144·0	+ 9·3	0	13	55*p*
			0·841	124·0	164·9	−23·3			120
			0·864	62·6	154·7	+27·2			181
			0·913	116·9	153·6	−20·9			187
			0·921	75·7	146·2	+16·0			90
Sept. 8				(+22·9)	(214·1)	(+7·3)	(57)	(387)	(1819)
251·551	CL, RF		0·956	273·0	273·6	+ 5·1			195
			0·908	295·9	266·1	+26·6			137
			0·927	245·8	263·8	−19·2			218
			0·859	273·1	259·9	+ 6·5			218
			0·852	283·0	259·4	+14·9			224
			0·899	238·5	257·4	−24·2			131
			0·808	225·1	241·3	−29·3			115
			0·468	234·1	222·9	− 9·2			95
		5958*a*	0·936	257·1	267·8	− 9·3	0	9	261*c*
		5963	0·752	298·0	247·7	+25·7	2	10	165*c*
		5963	0·713	300·1	243·7	+26·3	0	7	
G.		5960	0·350	308·9	217·1	+19·7	6	67	
		5960	0·329	316·7	214·3	+20·9	19	101	
		5960	0·304	319·2	212·6	+20·4	0	24	
		5961*a*	0·475	175·8	198·3	−20·9	28	174	
		5961	0·458	166·8	194·1	−19·2	7	78	
		5961	0·478	160·7	190·8	−19·5	0	4	
		5964	0·584	76·6	164·8	+13·7	0	9	
		5965	0·839	84·2	142·9	+ 8·9	0	11	124*np*
			0·779	131·0	160·0	−25·2			118
			0·786	117·3	153·9	−16·2			95
			0·823	71·4	144·8	+19·5			94
Sept. 9				(+23·1)	(200·4)	(+7·3)	(62)	(494)	(2190)
252·646	CL, RF		0·981	259·2	263·2	− 9·1			92
			0·951	297·9	259·3	+28·8			85
G.			0·949	275·6	258·1	+ 7·7			269

Group 5961*, September 7. A pair of very small faint spots.
Group 5963, September 7–10. A regular spot, *a*, with a few very small companions. The group appears suddenly, and quickly diminishes.
Group 5964, September 8–10. A small spot.
Group 5965, September 8–18. A few small spots, that have developed by September 11 into a straight stream. The leader, *a*, is a large regular spot from September 13 to September 16, after which it breaks up.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
252·646	CL, RF		0·935	286·5	256·2	+18·0			215
			0·889	255·1	246·4	− 9·6			122
			0·685	227·7	218·8	−21·3			146
		5963	0·844	296·8	243·1	+26·5	0	4	174*c*
		5960	0·548	293·0	218·0	+18·6	10	50	
		5960	0·511	299·7	214·3	+21·1	8	67	
		5961*a*	0·520	202·8	198·5	−21·4	17	175	
		5961	0·477	199·9	195·9	−19·3	0	9	
		5961	0·518	195·0	194·3	−22·7	0	5	
G.		5961	0·475	193·7	192·9	−20·1	0	22	
		5964	0·347	71·2	166·4	+13·3	4	13	
		5965	0·636	84·0	146·3	+ 9·5	0	8	
		5965	0·661	84·2	144·4	+ 9·3	0	31	
		5965	0·681	82·6	142·8	+10·4	2	14	
		5965	0·700	85·4	141·3	+ 8·5	2	10	
		5966*a*	0·996	86·2	100·9	+ 4·4	0	239	
			0·923	89·6	118·7	+ 3·2			290
			0·965	80·4	110·4	+11·1			189
Sept. 10				(+23·3)	(186·0)	(+7·3)	(43)	(647)	(1582)
253·685	CL, RF		0·949	295·7	245·1	+26·6			204
			0·862	254·5	229·5	− 9·5			116
			0·829	242·4	222·7	−18·0			148
			0·717	233·4	209·8	−19·6			161
		5960	0·730	288·3	219·0	+18·3	7	23	
		5960	0·680	291·5	214·4	+19·8	0	14	277*c*
		5960	0·681	293·5	214·2	+21·2	6	42	
		5967	0·473	267·2	200·5	+ 5·1	0	2	
		5961	0·621	222·7	199·0	−20·7	0	9	
		5961*a*	0·637	221·0	199·0	−22·2	31	136	
		5961	0·613	220·1	197·3	−21·4	0	8	
		5961	0·597	216·5	194·7	−21·9	0	6	250*c*
		5961	0·568	216·2	193·2	−20·5	0	12	
G.		5961	0·553	217·4	193·1	−19·2	0	29	
		5961	0·540	218·1	192·8	−18·3	0	5	
		5965	0·419	83·1	147·5	+ 9·5	14	79	
		5965	0·447	82·2	145·7	+ 9·9	0	11	
		5965	0·461	84·0	144·8	+ 9·2	9	40	
		5965	0·490	80·0	143·0	+11·1	0	9	
		5965	0·491	82·3	142·8	+10·0	2	19	
		5966*a*	0·950	87·4	100·3	+ 4·8	11	165	187*c*
		5968	0·989	83·4	90·3	+ 7·6	0	43	
			0·820	90·9	117·3	+ 3·4			155
			0·888	83·6	109·2	+ 9·0			209
			0·928	77·0	103·4	+14·7			118
			0·974	65·8	93·5	+25·2			115
Sept. 11				(+23·5)	(172·3)	(+7·2)	(80)	(652)	(1940)
1906.				°	°	°			
254·620	CL, RF		0·978	296·7	239·9	+27·6			208
			0·950	258·9	230·0	− 8·1			108
			0·875	245·5	216·2	−17·4			219
		5960	0·850	286·8	218·5	+18·0	0	4	653*c*
		5960	0·802	290·9	213·1	+21·0	0	5	
		5967*a*	0·664	269·7	201·5	+ 5·2	0	7	
		5967*b*	0·620	269·4	198·3	+ 5·4	0	7	
		5961*a*	0·751	230·9	198·9	−22·7	23	148	
		5961	0·697	230·7	194·9	−20·3	0	4	330*c*
G.		5961	0·671	230·4	193·0	−19·3	4	13	
		5965	0·257	80·2	145·1	+ 9·5	24	191	
		5965	0·312	76·3	142·0	+11·1	0	3	
		5966*a*	0·861	88·6	100·4	+ 4·9	16	154	250*c*
		5968	0·915	84·3	93·3	+ 8·1	0	11	93*c*
		5968	0·938	83·8	89·7	+ 8·3	0	10	
			0·801	81·2	106·3	+11·3			260
			0·920	67·9	92·1	+23·2			139
			0·956	77·1	85·9	+14·4			62
Sept. 12				(+23·7)	(159·9)	(+7·2)	(67)	(557)	(2322)
255·208	CL, RF		0·929	248·1	216·4	−17·2			105
			0·875	290·4	213·5	+21·3			642
			0·904	226·9	204·6	−33·9			116
		5967*a*	0·776	271·4	203·1	+ 5·6	2	11	
		5967*b*	0·745	269·8	200·3	+ 4·7	0	11	
		5961*a*	0·823	236·0	199·5	−22·5	23	132	216*c*
		5961	0·807	236·3	198·2	−21·7	0	11	
		5965*a*	0·071	61·8	148·5	+ 9·1	16	89	
		5965	0·121	67·5	145·6	+ 9·8	4	18	
		5965	0·148	74·3	143·8	+ 9·5	2	26	
K.		5965	0·155	85·1	143·2	+ 7·9	0	3	
		5965	0·177	72·7	142·3	+10·1	12	48	
		5966*a*	0·786	89·9	100·2	+ 4·6	24	180	
		5968	0·844	85·2	94·2	+ 8·0	0	10	241*c*
		5968	0·861	85·2	92·3	+ 7·8	1	16	
		5968	0·887	84·9	89·2	+ 7·8	0	34	
			0·689	79·1	108·4	+12·7			118
			0·797	104·5	101·3	− 7·0			146
			0·892	77·4	88·3	+14·5			114
			0·923	109·6	88·1	−15·0			121
			0·921	68·2	84·3	+22·8			76
Sept. 13				(+23·8)	(152·1)	(+7·2)	(84)	(589)	(1895)
256·482	CL, RF		0·972	289·5	213·2	+20·6			567
			0·874	278·7	196·8	+11·1			109
			0·836	291·1	192·0	+21·5			262
G.		5967*a*	0·926	273·2	203·3	+ 5·7	9	76	175*c*
		5967*b*	0·903	271·9	200·0	+ 4·8	15	72	

Group 5966, September 10–21. A large double spot. *a*. until September 14, after which it breaks up. The group is not detected on September 19.
Group 5967, September 11–14. A very small spot on September 11. A pair of very small spots. *a* and *b*, on September 12. The two spots rapidly increase in size.
Group 5968. September 11–24. Return or revival of Group 5942. A few small spots. *a f* Group 5966. on September 11, rapidly developing into a very fine stream.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
256·482	CL, RF	5961*a*	0·940	242·2	199·7	−23·0	21	166	} 459*f*
		5961	0·931	241·7	198·1	−23·0	0	6	
		5965*a*	0·229	280·3	148·4	+ 9·3	24	141	
		5965	0·164	287·3	144·4	+ 9·9	0	4	
		5965	0·144	290·7	143·1	+10·0	10	39	
		5966*a*	0·559	91·9	101·3	+ 5·0	49	99	} 380*c*
G.		5968	0·630	85·8	96·0	+ 8·3	11	74	
		5968	0·709	86·2	89·9	+ 7·8	7	85	
			0·618	70·1	97·8	+17·9			195
			0·772	73·5	84·7	+17·3			241
			0·869	56·8	76·3	+32·2			273
			0·917	72·7	68·0	+18·7			227
Sept. 14				(+24·0)	(135·3)	(+7·2)	(146)	(762)	(2888)
257·538	AS, RF		0·984	274·0	201·4	+ 5·2			129
			0·945	291·5	193·5	+22·7			161
			0·887	238·8	177·0	−23·4			127
			0·793	286·1	174·1	+17·2			111
			0·807	299·9	173·8	+28·2			109
			0·724	227·1	156·6	−23·6			128
		5961*a*	0·988	245·9	198·5	−22·4	0	59	340*c*
		5965*a*	0·453	275·7	148·4	+ 9·0	17	118	
		5965	0·423	277·0	146·5	+ 9·5	3	23	
		5965	0·408	279·1	145·5	+10·3	0	4	
		5965	0·392	277·9	144·5	+ 9·7	1	9	
		5965	0·385	281·0	143·9	+10·9	0	14	
		5965	0·369	278·6	143·0	+ 9·9	5	26	
G.		5966	0·312	97·9	103·4	+ 4·4	0	1	
		5966	0·337	95·3	101·8	+ 5·0	10	71	
		5968	0·368	86·2	99·7	+ 8·1	0	3	
		5968	0·386	84·7	98·6	+ 8·7	26	106	
		5968	0·432	85·4	95·7	+ 8·5	7	21	
		5968	0·447	86·9	94·7	+ 7·8	0	7	
		5968	0·472	86·7	93·1	+ 8·0	0	6	
		5968	0·489	83·8	92·0	+ 9·3	1	11	
		5968	0·512	85·7	90·5	+ 8·4	16	142	
		5969	0·943	112·6	55·0	−18·5	0	11	} 157*c*
		5969	0·966	112·2	50·3	−19·2	0	16	
			0·913	78·9	54·7	+13·1			287
			0·952	51·5	48·7	+38·8			162
Sept. 15				(+24·2)	(121·4)	(+7·2)	(86)	(648)	(1711)
258·297	FS, AS		0·945	302·1	183·0	+32·6			171
			0·911	285·4	177·8	+16·9			174
			0·852	296·8	169·3	+26·4			151
M.			0·862	236·6	163·2	−24·0			151
			0·816	220·8	150·5	−32·6			158
		5965*a*	0·613	275·6	149·4	+ 9·1	12	70	
1906.				°	°	°			
258·297	FS, AS	5965	0·590	276·5	147·7	+ 9·6	6	34	
		5965	0·547	277·3	144·7	+10·0	0	7	
		5965	0·546	278·8	144·6	+10·8	0	20	
		5966	0·173	104·8	101·8	+ 4·5	7	44	
		5966	0·199	96·5	100·0	+ 5·7	0	2	
		5968	0·207	82·3	99·5	+ 8·5	29	168	
		5968	0·218	90·3	98·8	+ 6·9	0	6	
		5968	0·246	88·8	97·1	+ 7·2	0	3	
		5968	0·260	82·8	96·3	+ 8·7	6	28	
M.		5968	0·266	87·4	95·9	+ 7·5	0	6	
		5968	0·294	83·5	94·3	+ 8·7	0	15	
		5968	0·337	84·3	91·7	+ 8·6	17	106	
		5968	0·341	87·6	91·4	+ 7·5	0	4	
		5968	0·374	86·2	89·4	+ 8·0	17	132	
		5969	0·883	116·7	54·7	−19·6	0	12	} 210*c*
		5969*a*	0·921	115·5	49·3	−20·1	12	92	
		5970	0·970	99·5	36·9	− 7·4	0	42	253*f*
			0·689	74·4	67·9	+15·9			92
			0·847	78·8	53·0	+13·3			365
Sept. 16				(+24·4)	(111·4)	(+7·1)	(106)	(791)	(1725)
259·220	FS, CL		0·911	284·5	165·6	+16·1			198
			0·874	241·6	154·2	−20·6			163
		5965	0·763	276·0	149·2	+ 9·2	7	41	} 105*c*
		5965	0·743	276·4	147·5	+ 9·5	3	18	
		5965	0·700	278·2	143·9	+10·9	0	10	
		5966	0·068	225·0	102·0	+ 4·3	0	11	
		5966	0·051	194·0	99·9	+ 4·3	0	7	
		5968	0·042	316·4	100·9	+ 8·8	27	182	
		5968	0·023	2·8	99·1	+ 8·5	0	6	
		5968	0·024	60·8	98·0	+ 7·8	5	15	
		5968	0·025	100·7	97·8	+ 6·9	0	2	
		5968	0·039	62·2	97·2	+ 8·1	10	36	
		5968	0·061	75·8	95·8	+ 8·0	12	45	
M.		5968	0·081	81·3	94·6	+ 7·8	0	14	
		5968	0·090	66·1	94·4	+ 9·2	2	10	
		5968	0·111	83·2	92·8	+ 7·8	4	15	
		5968	0·137	78·7	91·4	+ 8·6	43	213	
		5968	0·164	80·2	89·8	+ 8·6	6.	29	
		5968	0·165	88·2	89·7	+ 7·3	1	6	
		5968	0·183	83·4	88·7	+ 8·2	15	78	
		5969	0·772	123·6	56·1	−20·1	0	7	} 170*c*
		5969	0·791	121·3	53·6	−19·3	0	3	
		5969	0·814	119·9	51·0	−19·3	1	4	
		5969*a*	0·839	119·8	48·5	−20·2	8	71	
		5970	0·893	102·1	37·7	− 7·4	9	45	182*f*
			0·726	76·6	52·5	+14·6			130
			0·883	73·8	36·6	+17·6			130

Group 5969, September 15–23. A number of spots, mostly small and unstable, in a long sparse stream. The rear spot, *a*, is the largest, but has broken up into two portions, *b* and *c*, by September 19.
Group 5970, September 16–19. A few very small unstable spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
259·220	FS, CL		0·946	113·1	32·4	−19·1			173
M.			0·953	98·4	28·1	− 5·8			385
			0·983	110·1	23·0	−18·2			205
Sept. 17				(+24·5)	(99·2)	(+7·1)	(153)	(868)	(1841)
260·470	CL, RF		0·935	284·0	152·8	+15·6			84
			0·942	239·9	146·8	−25·2			82
		5965	0·910	276·4	148·7	+ 8·8	6	20	249*f*
		5965	0·894	276·8	146·5	+ 9·3	0	5	
		5966	0·293	259·3	99·4	+ 3·7	0	5	
		5968	0·294	275·4	99·8	+ 8·4	48	358	
		5968	0·213	282·6	94·8	+ 9·6	0	4	
		5968	0·178	261·3	92·8	+ 5·5	0	4	
		5968	0·151	272·4	91·4	+ 7·4	2	12	
G.		5968	0·137	281·2	90·5	+ 8·5	50	317	
		5969	0·632	133·0	53·5	−19·3	0	11	78*c*
		5969	0·652	132·2	51·9	−19·8	3	6	
		5969	0·661	129·7	50·3	−19·0	7	19	
		5969*a*	0·683	128·3	48·3	−19·2	10	58	
		5970	0·728	106·7	38·3	− 7·0	11	39	146*c*
			0·831	119·6	32·7	−19·7			148
			0·899	108·7	21·8	−13·4			574
			0·909	82·6	16·8	+ 9·7			171
Sept. 18				(+24·7)	(82·7)	(+7·1)	(137)	(858)	(1532)
261·218	AS, CL		0·991	283·7	156·5	+14·5			167
			0·955	278·4	146·2	+10·1			291
		5968	0·497	274·3	102·7	+ 8·3	42	224	
		5968	0·462	273·3	100·4	+ 7·8	0	7	
		5968	0·450	275·6	99·6	+ 8·8	10	46	
		5968	0·433	272·6	98·6	+ 7·5	9	34	
		5968	0·379	276·1	95·1	+ 8·9	0	6	
		5968	0·350	276·5	93·3	+ 8·9	0	7	
		5968	0·331	272·6	92·2	+ 7·6	3	20	
		5968	0·323	277·5	91·6	+ 9·2	26	151	
		5968	0·302	273·5	90·4	+ 7·8	2	12	
M.		5968	0·284	275·7	89·3	+ 8·5	21	114	
		5969	0·534	145·6	54·2	−19·3	2	21	
		5969	0·559	144·1	52·4	−20·2	0	3	
		5969	0·552	141·8	51·7	−19·0	0	6	
		5969*b*	0·577	139·9	49·7	−19·6	7	43	
		5969*c*	0·592	137·6	47·9	−19·4	8	48	
		5970	0·607	112·6	38·5	− 7·7	0	13	85*c*
		5970	0·642	110·1	35·5	− 7·1	0	11	
		5970	0·715	107·3	29·5	− 7·1	0	13	104*c*
			0·740	126·8	33·6	−20·9			84
			0·754	114·5	28·2	−13·1			116
			0·856	120·4	20·5	−21·4			228
1906.				°	°	°			
261·218	AS, CL		0·815	103·9	20·1	− 7·0			282
M.			0·885	74·2	9·9	+17·3			142
Sept 19				(+24·8)	(72·8)	(+7·1)	(130)	(779)	(1499)
262·388	FS, CL		0·882	265·5	118·7	− 0·7			367
			0·798	280·8	110·7	+12·8			254
		5966	0·703	268·3	102·0	+ 3·8	0	10	
		5968	0·730	273·5	104·5	+ 7·4	30	183	
		5968	0·686	275·0	100·9	+ 8·5	11	27	
		5968	0·660	273·0	98·9	+ 7·3	3	23	
		5968	0·596	275·6	94·2	+ 9·0	1	15	
		5968	0·590	273·4	93·7	+ 7·7	0	11	
		5968	0·547	275·4	90·7	+ 8·8	52	295	
		5968	0·546	273·5	90·6	+ 7·8	2	21	
M.		5969	0·451	180·1	57·5	−19·7	10	39	
		5969	0·464	177·7	56·3	−20·5	0	3	
		5969	0·436	176·0	55·6	−18·7	0	18	
		5969	0·438	172·6	54·0	−18·6	0	2	
		5969	0·442	168·5	52·1	−18·6	2	26	
		5969*b*	0·459	163·0	49·3	−19·0	0	10	
		5969*c*	0·465	159·3	47·4	−18·8	7	23	
		5971	0·929	70·8	348·2	+20·4	0	6	291*c*
			0·644	106·8	19·3	− 5·2			346
			0·829	72·7	1·2	+18·3			110
Sept. 20				(+25·0)	(57·4)	(+7·0)	(118)	(712)	(1368)
263·215	FS, AS		0·884	280·4	109·2	+12·4			174
		5966	0·828	272·2	102·5	+ 5·8	0	12	
		5966	0·826	270·2	102·2	+ 4·2	0	7	
		5968	0·850	274·1	105·0	+ 7·2	25	198	
		5968	0·815	274·8	101·4	+ 8·0	0	8	
		5968	0·779	274·5	97·9	+ 7·9	0	7	555*c*
		5968	0·754	275·4	95·7	+ 8·6	0	9	
		5968	0·726	275·7	93·3	+ 8·9	0	9	
		5968	0·692	273·7	90·5	+ 7·6	0	9	
		5968	0·689	276·0	90·3	+ 9·2	42	259	
		5968	0·684	278·2	89·9	+10·7	0	3	
M.		5969	0·509	203·3	58·9	−20·9	0	5	
		5969	0·490	202·7	58·1	−20·0	11	43	
		5969	0·454	199·6	55·7	−18·3	0	6	
		5969	0·457	196·7	54·4	−18·9	0	3	
		5969	0·442	190·6	51·4	−18·7	0	9	
		5969	0·437	184·9	48·7	−18·7	1	7	
		5969	0·435	181·2	47·1	−18·7	5	11	
		5973	0·080	298·6	50·6	+ 9·2	0	8	
		5971*b*	0·855	70·5	347·5	+20·3	0	7	134*p*
		5972	0·972	104·6	332·3	−12·4	0	17	125*c*
			0·944	73·9	334·8	+17·5			154
Sept. 21				(+25·1)	(46·5)	(+7·0)	(84)	(637)	(1142)

Group 5971, September 20–22. Return of Group 5946. Fifth apparition. Two small faint spots, *a* and *b*, on September 20. Only *b* remains on September 21.
Group 5972, September 21–25. A short irregular stream, of which all the members are very small, except *a* and *b*, the first and last spots. The following part of the group has disappeared by September 25.
Group 5973, September 21–24. A few small faint unstable spots in an irregular cluster.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
264·554	AS, RF		0·729	239·3	69·5	−16·5			138
		5968	0·968	276·0	104·7	+ 7·5	0	138	
		5968	0·885	276·0	91·4	+ 8·6	0	34	538c
		5968	0·869	276·1	89·5	+ 8·8	28	170	
		5969	0·637	225·9	57·9	−20·2	8	46	91c
		5969	0·549	219·5	50·3	−18·5	0	11	
		5969	0·555	217·4	49·7	−19·5	0	12	
G.		5969	0·509	213·2	45·8	−18·4	3	14	
		5973	0·405	285·9	52·2	+12·8	0	10	
		5974	0·339	284·8	48·3	+11·6	0	6	
		5971*b*	0·677	66·6	347·3	+20·9	0	9	88*f*
		5972*a*	0·866	107·7	331·6	−11·6	9	40	252c
		5972*b*	0·896	107·9	328·1	−12·6	3	37	
			0·815	74·0	334·0	+17·1			172
Sept. 22				(+25·3)	(28·8)	(+7·0)	(51)	(527)	(1279)
265·325	CL, AS		0·908	290·9	84·4	+21·9			218
			0·823	240·2	67·7	−19·6			135
		5968	0·942	277·3	89·5	+ 9·2	21	151	537c
		5969	0·740	235·2	58·6	−19·7	0	5	
		5969	0·666	231·1	51·7	−18·9	0	5	263c
		5969	0·604	226·3	45·9	−18·4	0	7	
		5973	0·577	283·2	53·7	+13·3	0	11	
		5973	0·549	284·9	51·6	+14·0	0	11	
M.		5975*a*	0·390	168·1	13·8	−15·4	2	24	
		5975*b*	0·401	164·2	12·1	−15·6	10	26	
		5972*a*	0·765	111·7	332·2	−11·6	8	56	184c
		5972*b*	0·822	111·7	327·0	−13·4	3	15	
			0·812	137·4	338·7	−31·3			201
			0·710	68·0	334·2	+20·4			145
			0·905	104·0	315·9	− 9·5			131
Sept. 23				(+25·4)	(18·6)	(+7·0)	(44)	(311)	(1814)
266·531	CL, RF		0·828	240·4	52·4	−19·7			193
		5968	0·996	278·6	88·5	+ 9·2	0	113	76*f*
		5973	0·797	279·0	55·9	+11·4	0	4	
		5973	0·791	280·4	55·3	+12·5	0	10	60c
		5973	0·766	280·1	53·0	+12·3	0	5	
		5975*a*	0·432	207·7	14·7	−15·6	10	50	
G.		5975	0·395	207·0	13·3	−13·7	0	2	
		5975	0·402	204·8	12·7	−14·4	3	6	
		5975*b*	0·413	201·5	11·7	−15·6	6	25	
		5972*a*	0·569	120·8	333·0	−10·9	6	14	
		5972*b*	0·652	119·6	327·2	−13·1	6	17	
		5976	0·971	86·9	286·3	+ 4·7	0	10	172c
			0·955	103·2	292·0	−10·3			74
Sept. 24				(+25·5)	(2·7)	(+7·0)	(31)	(256)	(575)
1906.				°	°	°			
267·667	AS, RF		0·911	283·4	54·0	+15·0			282
			0·934	245·5	52·2	−20·0			324
		5975*a*	0·579	230·0	15·0	−15·7	7	41	
		5975*b*	0·542	226·4	11·6	−15·6	0	27	
		5975	0·518	223·7	9·4	−15·5	0	21	
		5978*a*	0·008	256·5	348·1	+ 6·8	0	9	
G.		5978	0·021	77·7	346·5	+ 7·1	0	6	
		5972	0·375	142·5	334·3	−10·6	0	4	
		5972	0·387	140·6	333·3	−10·7	0	7	
		5972	0·364	132·6	332·1	− 7·6	0	6	
		5976	0·900	86·1	283·2	+ 6·6	0	11	485c
			0·923	105·3	282·7	−11·2			287
Sept. 25				(+25·6)	(347·7)	(+6·9)	(7)	(132)	(1378)
268·638	CL, RF		0·980	282·1	54·4	+13·2			104
			0·975	248·4	48·5	−19·2			168
			0·850	237·9	25·9	−22·5			276
		5977*a*	0·850	252·8	30·4	−10·7	5	16	441c
		5977	0·839	251·0	28·9	−11·8	0	9	
		5975	0·695	239·0	12·9	−15·5	11	44	77c
		5975	0·660	235·8	9·4	−16·0	0	4	
		5978*a*	0·252	268·1	349·5	+ 6·2	0	2	
G.		5981*a*	0·239	315·0	345·0	+16·5	0	3	
		5981*b*	0·250	324·1	343·7	+18·4	0	3	
		5976	0·771	89·0	284·4	+ 5·2	0	3	54c
		5976	0·785	86·9	283·0	+ 6·7	2	10	
		5983	0·878	117·6	279·1	−20·2	0	6	101c
			0·915	104·8	271·0	−10·6			144
			0·897	84·4	270·8	+ 8·1			289
			0·958	71·9	260·4	+19·3			81
Sept. 26				(+25·7)	(334·9)	(+6·9)	(18)	(100)	(1735)
269·465	AS, RF		0·937	260·0	32·1	− 6·9			332
			0·910	240·9	23·5	−22·9			350
			0·833	263·6	19·7	− 1·5			148
			0·784	286·4	15·7	+17·1			170
		5977*a*	0·938	255·8	31·5	−10·7	3	27	182*f*
		5975	0·821	249·3	15·7	−12·6	2	13	
		5975	0·807	249·3	14·4	−12·2	0	8	
		5975	0·819	244·8	14·3	−16·0	2	15	
G.		5975	0·808	247·4	14·0	−13·7	0	10	293c
		5975	0·805	242·4	12·2	−17·3	0	7	
		5975*c*	0·796	244·0	11·9	−15·8	4	31	
		5975*d*	0·765	241·7	8·4	−16·3	18	89	
		5978*a*	0·416	270·0	348·6	+ 6·3	0	3	
		5980	0·468	234·7	346·7	− 9·3	0	10	
		5981*b*	0·380	301·2	343·9	+17·8	0	4	
		5976	0·651	87·5	283·2	+ 6·9	2	8	77c

Group 5974, September 22. A very small faint spot, *f* Group 5973.
Group 5975, September 23–29. A pair of very small spots, *a* and *b*, on September 23. The group has become a short stream of the usual type by September 24, but undergoes several changes on September 25 and the succeeding days, and a new stream has formed by September 28, of which two new spots, *c* and *d*, are the first and last members.
Group 5976, September 24–29. Usually one very small spot. A small cluster on September 29.
Group 5978, September 25–27. Two very small spots on September 25. The leader, *a*, alone remains on September 26.
Group 5977, September 26–27. A small spot, *a*, with a small companion on September 26.
Group 5981, September 26–27. A pair of very small spots, *a* and *b*. Only *b* remains on September 27.
Group 5983, September 26–October 7. A number of small unstable spots in a sparse stream. The first and last spots, *a* and *b*, are the most stable members of the group.
Group 5980, September 27. A very small faint spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
269·465	AS, RF	5983	0·776	122·3	280·1	−19·5	2	22	123c
		5979a	0·821	122·8	276·2	−21·8	0	16	
			0·836	105·2	269·5	− 8·7			202
G.			0·859	88·1	264·7	+ 5·2			397
			0·889	74·5	260·7	+16·9			216
			0·953	63·4	250·6	+27·4			162
Sept. 27				(+25·8)	(324·0)	(+6·9)	(33)	(263)	(2652)
270·648	CL, RF		0·972	263·1	23·8	− 5·1			83
			0·911	285·5	14·7	+16·9			54
		5975c	0·924	249·3	12·4	−16·2	12	59	209c
		5975	0·906	246·9	9·1	−17·5	0	5	
		5975d	0·892	247·6	7·5	−16·5	12	75	
G.		5976	0·427	89·1	283·1	+ 6·6	1	4	
		5983	0·620	133·3	280·0	−19·2	4	26	106c
		5979a	0·684	131·9	275·4	−21·4	4	14	
			0·920	115·9	246·4	−20·6			56
			0·908	60·8	243·3	+29·3			69
Sept. 28				(+25·9)	(308·4)	(+6·8)	(33)	(183)	(577)
271·111	AS, CL		0·810	225·1	343·5	−29·8			96
		5975	0·979	253·9	17·9	−14·1	0	10	125f
		5975c	0·965	250·0	13·7	−17·2	8	50	352c
		5975	0·943	248·0	8·9	−18·1	0	11	
		5975	0·941	249·0	8·8	−17·1	0	8	
		5975d	0·932	247·8	7·0	−17·8	6	67	
		5976	0·320	91·4	283·5	+ 6·0	0	6	
		5983	0·546	140·9	281·0	−18·7	2	11	
K.		5983	0·569	139·8	279·4	−19·4	0	2	
		5985a	0·655	144·7	277·4	−26·1	7	16	123f
		5985	0·674	144·0	275·9	−26·9	1	8	
		5985	0·687	145·2	275·9	−28·2	3	11	
		5979a	0·634	136·6	274·4	−21·4	5	16	79c
			0·677	71·7	260·1	+17·3			126
			0·880	60·8	241·2	+28·8			118
			0·946	105·4	233·6	−12·1			94
			0·982	69·9	221·5	+21·0			239
Sept. 29				(+26·0)	(302·2)	(+6·8)	(32)	(216)	(1352)
272·518	AS, RF		0·886	273·1	346·3	+ 5·9			82
			0·868	296·8	343·5	+26·6			164
G.			0·836	284·0	340·8	+15·4			202
			0·773	248·9	330·9	−11·6			156
		5984	0·091	86·8	278·5	+ 7·1	0	9	
1906.				°	°	°			
272·518	AS, RF	5983	0·438	179·3	283·4	−19·0	1	9	101c
		5983a	0·445	175·4	281·5	−19·5	2	18	
		5983b	0·478	166·5	276·9	−20·9	3	10	
		5985a	0·547	170·4	277·9	−25·8	0	21	
G.		5979a	0·508	165·5	275·8	−22·6	3	24	
		5979	0·499	161·5	273·9	−21·4	0	8	
			0·786	60·9	233·5	+26·9			108
			0·903	72·0	218·5	+19·2			420
Sept. 30				(+26·1)	(283·7)	(+6·8)	(9)	(99)	(1233)
273·487	CL, RF		0·941	295·5	341·8	+26·2			125
			0·918	286·0	338·2	+17·4			85
			0·896	252·4	331·7	−12·5			203
		5983a	0·485	205·1	283·5	−19·4	4	29	
		5983	0·466	200·5	280·8	−19·2	0	13	
		5983b	0·470	194·7	278·2	−20·3	5	18	
		5983	0·446	194·1	277·5	−18·9	0	4	
		5985a	0·550	191·9	278·1	−25·8	3	13	
		5984	0·113	270·5	277·4	+ 6·7	0	5	
G.		5979	0·477	191·4	276·7	−21·1	1	5	
		5979a	0·507	189·5	276·1	−23·2	0	4	
			0·796	116·3	223·1	−16·2			58
			0·793	71·0	218·6	+19·1			282
			0·899	87·0	206·7	+ 5·7			252
			0·927	62·2	202·7	+28·2			155
			0·940	74·0	200·0	+17·3			80
			0·965	111·9	199·8	−19·0			187
Oct. 1				(+26·1)	(270·9)	(+6·7)	(13)	(91)	(1427)
274·108	FS, CL		0·948	295·4	335·1	+26·2			215
			0·925	285·8	331·2	+17·2			215
			0·936	252·6	329·3	−13·7			347
			0·909	241·1	322·1	−22·7			159
			0·785	249·0	311·0	−11·9			182
		5983a	0·564	218·8	284·7	−19·8	10	27	
		5983	0·528	215·3	281·5	−19·1	1	8	
		5983	0·524	213·5	280·5	−19·4	0	19	
		5983b	0·517	208·7	278·0	−20·4	20	67	
K.		5983	0·496	207·6	276·8	−19·5	0	5	
		5985a	0·585	204·6	278·3	−25·5	0	8	
		5979a	0·537	203·0	275·8	−23·0	0	2	
			0·711	73·2	217·6	+16·6			363
			0·829	86·5	206·5	+ 6·7			375
			0·859	61·1	204·4	+28·1			169
			0·925	114·8	199·6	−19·9			350
			0·894	72·3	198·8	+18·8			272
Oct. 2				(+26·2)	(262·7)	(+6·7)	(31)	(136)	(2647)

Group 5979, September 27–October 2. A small spot, *a*, with occasionally a small companion. *s f* Group 5983.
Group 5985, September 29–October 2. A small spot, *a*, with a small companion on September 29; *s* of Group 5979.
Group 5984, September 30–October 1. A very small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
275·216	FS, AS		0·943	256·2	316·5	−10·6			114
			0·819	199·4	270·3	−44·4			159
		5986*a*	0·789	242·6	294·8	−16·8	12	92	
		5986	0·768	243·3	293·3	−15·6	0	6	
		5986*b*	0·764	241·7	292·4	−16·6	5	20	96*c*
		5986	0·746	241·8	290·9	−15·8	0	12	
		5983*a*	0·726	235·0	287·0	−19·5	7	38	
M.		5983	0·691	233·8	283·9	−18·7	3	27	
		5983	0·670	232·4	281·9	−18·6	0	8	177*c*
		5983	0·671	230·3	281·2	−19·8	0	9	
		5983*b*	0·645	226·9	278·0	−20·4	24	120	
			0·649	69·0	208·4	+18·6			116
			0·716	109·8	205·1	− 9·2			175
			0·854	118·9	195·3	−20·4			340
			0·920	73·1	180·4	+18·1			148
Oct. 3				(+26·3)	(248·0)	(+6·6)	(51)	(332)	(1325)
276·230	FS, CL		0·857	281·5	294·1	+13·3			167
			0·758	270·6	284·0	+ 4·8			163
			0·643	228·7	265·4	−19·4			119
		5986*a*	0·911	249·0	296·8	−16·0	12	110	
		5986*b*	0·877	247·4	292·0	−16·2	0	63	179*c*
		5983*a*	0·856	242·1	288·0	−19·7	4	17	
		5983	0·841	242·1	286·4	−19·1	9	28	
		5983	0·808	241·6	283·0	−18·3	5	67	
		5983	0·796	239·5	281·1	−19·3	3	22	237*c*
		5983	0·785	238·1	279·6	−19·8	3	16	
M.		5983*b*	0·763	236·7	277·2	−19·9	16	96	
		5987	0·579	81·7	199·3	+10·2	0	5	
		5987	0·596	78·6	198·2	+12·1	0	3	69*c*
		5987	0·600	84·6	197·7	+ 8·5	0	3	
		5988	0·857	74·5	175·4	+16·7	0	14	358*n*
			0·691	126·2	198·8	−18·7			231
			0·766	109·6	187·7	−10·4			111
			0·844	128·0	186·6	−27·0			113
			0·847	116·3	181·9	−18·1			133
			0·945	78·1	163·0	+13·4			239
Oct. 4				(+26·3)	(234·7)	(+6·6)	(52)	(444)	(2119)
277·475	AS, RF		0·870	273·6	278·8	+ 6·3			212
			0·854	253·8	274·4	−10·2			84
		5986*a*	0·989	252·3	297·1	−16·4	15	119	
		5986*b*	0·973	250·9	291·8	−16·8	0	20	
G.		5983*a*	0·961	246·6	288·1	−20·3	12	102	
		5983	0·938	247·0	283·9	−18·9	20	123	470*c*
		5983	0·914	244·5	279·5	−20·1	14	66	
		5983*b*	0·893	242·7	276·1	−20·8	6	67	
		5992	0·383	222·6	233·4	−10·0	0	5	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
277·475	AS, RF	5988*	0·450	120·7	195·3	− 7·3	0	4	
			0·823	77·8	162·5	+13·7			123
G.			0·892	69·5	154·8	+21·2			129
			0·909	57·1	153·5	+32·6			126
			0·922	81·0	150·5	+10·8			202
Oct. 5				(+26·3)	(218·2)	(+6·5)	(67)	(506)	(1346)
278·500	CL, RF		0·964	236·4	272·5	−30·0			52
			0·900	276·9	269·2	+ 9·0			252
			0·777	283·9	255·8	+14·8			31
		5983	0·988	249·5	282·7	−19·0	11	294	311*c*
G.		5983	0·970	247·2	276·9	−20·2	0	137	
		5987	0·132	55·6	198·4	+10·7	0	4	
			0·821	83·2	149·3	+ 9·2			163
			0·909	75·7	138·8	+15·7			83
Oct. 6				(+26·4)	(204·7)	(+6·4)	(11)	(435)	(892)
279·118	FS, AS		0·912	274·6	262·6	+ 6·9			235
			0·907	289·4	262·1	+20·3			289
			0·915	248·2	259·0	−17·0			151
		5983	0·991	247·3	275·4	−21·4	0	96	269*c*
		5987*	0·421	288·9	220·6	+13·7	0	4	
		5987	0·075	299·5	200·3	+ 8·5	0	6	
K.		5989	0·459	161·9	187·8	−19·5	0	1	
		5989	0·441	160·1	187·5	−18·1	0	5	
		5989	0·471	156·7	185·2	−19·3	0	10	
			0·743	79·9	148·3	+11·8			289
			0·827	122·8	147·9	−22·4			146
			0·904	86·8	131·7	+ 5·6			166
Oct. 7				(+26·4)	(196·5)	(+6·4)	(0)	(122)	(1545)
280·544	AS, RF	5989*a*	0·453	200·2	187·2	−18·9	3	26	
		5989	0·437	196·2	185·1	−18·4	0	2	
		5989*b*	0·464	194·7	184·9	−20·3	3	10	
		5990*a*	0·203	316·6	186·0	+14·7	0	10	
G.		5991	0·171	348·7	179·7	+15·9	0	6	
			0·936	71·7	107·6	+19·3			107
			0·945	83·9	106·4	+ 7·8			618
Oct. 8				(+26·5)	(177·7)	(+6·3)	(6)	(54)	(725)
281·220	AS, CL		0·913	254·0	232·4	+11·9			111
			0·783	288·1	220·2	+18·1			212
M.			0·656	226·8	199·6	−21·2			168
		5989*a*	0·529	216·8	188·4	−19·0	6	28	
		5989	0·475	221·4	187·8	−14·9	0	7	
		5989	0·520	213·9	186·7	−19·5	0	4	

Group 5986, October 3–5. A sudden outburst, *p* Group 5983, and consisting chiefly of two spots, *a* and *b*, *a* being the larger. The four groups 5979, 5983, 5985, and 5986 form parts of a wide area of feeble disturbance.
Group 5987, October 4–7. One or two very small spots. The group is not seen on October 5.
Group 5988, October 4. A small spot.
Group 5988*, October 5. A very small spot.
Group 5992, October 5–10. A very small spot on October 5. The group is not seen again until October 10, when two spots are observed close to the west limb.
Group 5987*, October 7. A very small spot, *np* Group 5987.
Group 5989, October 7–12. A few small unstable spots, mostly in two small clusters, *a* and *b*.
Group 5990, October 8–11. A small spot, *a*, with two very small followers on October 9.
Group 5991, October 8. A very small faint spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
281·220	AS, CL	5989*b*	0·522	211·3	185·6	−20·4	1	5	
		5990*a*	0·336	297·1	186·8	+14·7	2	8	
M.		5990	0·312	299·9	185·1	+15·0	0	3	
		5990	0·279	301·0	183·1	+14·3	0	10	
			0·911	85·3	103·0	+ 6·9			683
Oct. 9				(+26·5)	(168·9)	(+6·3)	(9)	(65)	(1174)
282·114	CL, AS		0·875	287·4	218·4	+18·3			243
			0·804	266·7	210·3	+ 1·1			353
			0·761	235·2	199·0	−21·2			338
		5992	0·984	256·2	234·9	−12·3	0	53	239*n*
		5990*a*	0·522	287·0	187·9	+14·1	0	16	
K.		5989*a*	0·643	229·5	188·2	−19·3	3	13	} 96*c*
		5989*b*	0·614	225·3	184·7	−20·1	0	10	
			0·754	86·0	108·0	+ 7·1			426
			0·859	84·5	97·6	+ 8·0			358
			0·917	74·8	90·0	+16·5			242
Oct. 10				(+26·5)	(157·1)	(+6·2)	(3)	(92)	(2295)
283·118	FS, AS		0·928	290·4	212·4	+21·2			230
			0·923	274·8	211·4	+ 6·8			238
			0·888	240·3	200·4	−22·8			198
			0·778	279·7	195·1	+11·4			300
		5989*a*	0·782	238·8	188·9	−19·6	8	31	} 134*c*
		5989	0·769	237·8	187·4	−19·8	0	11	
K.		5989*b*	0·740	235·9	184·3	−19·8	3	41	
		5990	0·643	284·2	183·6	+13·8	0	5	56*c*
			0·631	89·3	104·6	+ 5·2			257
			0·766	78·7	93·7	+12·6			215
			0·831	93·0	87·9	+ 0·9			146
			0·878	74·5	82·1	+16·5			74
			0·898	59·7	80·7	+29·8			173
Oct. 11				(+26·5)	(143·8)	(+6·1)	(11)	(88)	(2021)
284·118	FS, CL		0·944	276·8	201·7	+ 8·4			184
			0·950	246·5	198·5	−20·1			322
			0·909	291·4	196·2	+21·9			389
			0·787	284·8	182·5	+15·3			198
			0·879	229·1	181·6	−31·4			111
K.		5989*a*	0·895	243·8	189·2	−20·2	2	12	} 209*c*
		5989*b*	0·852	242·5	183·8	−19·6	4	13	
		5989	0·853	240·9	183·4	−20·9	0	5	
			0·585	80·9	94·8	+10·2			248
			0·715	53·8	89·2	+29·5			102
			0·804	66·6	77·9	+22·3			265
			0·903	53·5	68·0	+35·3			142
1906.				°	°	°			
284·118	FS, CL		0·953	111·8	61·7	−18·7			183
K.			0·938	89·1	61·0	+ 3·0			117
			0·935	75·5	60·8	+15·7			171
Oct. 12				(+26·5)	(130·6)	(+6·0)	(6)	(30)	(2641)
285·358	FS, CL		0·967	248·1	186·0	−19·3			342
			0·929	283·5	183·1	+14·7			190
			0·829	292·4	169·7	+21·8			199
			0·759	53·7	69·0	+30·9			148
M.			0·872	119·4	59·5	−22·0			165
			0·829	78·0	58·1	+13·3			154
			0·941	113·2	47·9	−19·5			164
			0·941	103·0	45·9	−10·1			164
Oct. 13				(+26·5)	(114·3)	(+5·9)	(0)	(0)	(1526)
286·277	FS, AS		0·886	282·4	164·8	+13·7			119
			0·902	250·2	163·4	−15·0			186
		5997*a*	0·799	295·3	154·0	+23·7	0	15	} 57*c*
		5997*b*	0·766	296·8	150·5	+24·2	0	16	
		5997	0·764	298·4	149·9	+25·3	0	6	
M.			0·767	123·6	59·1	−20·8			173
			0·869	116·9	46·8	−19·8			127
			0·897	66·9	38·4	+23·3			125
			0·915	104·2	37·9	−10·4			212
			0·938	77·6	31·8	+13·7			145
Oct. 14				(+26·5)	(102·1)	(+5·9)	(0)	(37)	(1144)
287·121	AS, RF		0·975						101
			0·950						87
			0·932						112
			0·915						135
			0·877						339
			0·847						77
		5997*a*	0·903				10	63	} 151*c*
		5997	0·897				0	6	
		5997*b*	0·861				7	27	
D.		5993	0·252				0	23	
		5993	0·227				0	3	
		5993	0·202				0	3	
		5993	0·201				1	11	
			0·762						160
			0·757						183
			0·853						260
			0·875						168
			0·878						73
			0·947						277
Oct. 15				(+26·4)	(91·1)	(+5·8)	(18)	(136)	(2123)

Group 5997, October 14–16. A pair of spots, *a* and *b*, on October 14. The group is seen as a short stream on October 15. Only *a* is seen on October 16.
Group 5993, October 15. A few very small spots.
October 15. The orientation of the photograph taken at Dehra Dûn on this day appears to be in error.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
288·124	AS, CL		0·944	278·9	149·1	+10·3			184
			0·917	263·5	143·6	− 3·6			114
			0·923	240·3	139·5	−24·5			185
			0·749	265·3	126·0	+ 0·3			153
		5997*a*	0·985	293·2	159·3	+23·8	0	58	218*f*
K.		5998	0·801	247·5	127·4	−14·1	0	5	93*c*
			0·761	110·1	31·3	−11·2			156
			0·769	97·2	28·3	− 1·9			119
			0·891	119·7	20·7	−23·2			201
			0·873	78·1	16·8	+13·2			177
			0·926	109·5	13·1	−15·6			141
Oct. 16				(+26·3)	(77·9)	(+5·7)	(0)	(63)	(1741)
289·238	FS, AS		0·942	288·8	134·1	+19·6			120
			0·941	274·1	133·6	+ 5·8			178
			0·942	253·0	131·2	−14·0			239
			0·739	275·9	111·0	+ 8·1			263
M.			0·769	241·5	108·2	−17·5			142
			0·836	114·6	10·8	−16·9			192
			0·914	104·1	359·1	−10·4			136
			0·928	70·4	354·7	+20·3			135
			0·942	88·0	352·8	+ 3·8			150
Oct. 17				(+26·3)	(63·2)	(+5·6)	(0)	(0)	(1555)
290·126	CL, RF		0·814						458
			0·711						151
			0·841						95
D.			0·896						146
			0·921						160
			0·953						75
			0·960						106
Oct. 18				(+26·3)	(51·4)	(+5·5)	(0)	(0)	(1191)
291·645	AS, RF		0·900	277·2	95·9	+ 8·9			224
G.									
Oct. 19				(+26·2)	(31·4)	(+5·5)	(0)	(0)	(224)
292·353	FS, CL		0·968	279·0	98·0	+10·1			433
		5994*a*	0·828	75·4	326·1	+15·1	0	9	95*s*
			0·684	114·5	342·6	−12·3			110
M.			0·806	109·9	331·3	−12·5			101
			0·833	55·6	328·7	+31·3			109
			0·928	107·6	316·4	−14·1			107
			0·931	82·2	313·1	+ 9·3			218
Oct. 20				(+26·2)	(22·0)	(+5·4)	(0)	(9)	(1173)
1906.				°	°	°			
293·123	CL, RF		0·983						110
			0·934						68
			0·727						213
		5995	0·430				0	6	
		5995	0·474				1	4	
D.		5994*b*	0·712				0	3	111*c*
		5994*a*	0·728				3	17	
			0·746						57
			0·836						114
			0·977						133
Oct. 21				(+26·1)	(11·9)	(+5·3)	(4)	(30)	(806)
294·222	AS, CL		0·905	277·0	62·5	+ 8·6			82
			0·901	244·6	57·3	−20·1			196
			0·877	303·4	56·5	+31·6			125
			0·780	250·9	45·9	−11·3			120
M.		5994*b*	0·490	72·3	328·9	+13·1	0	8	53*c*
		5994*a*	0·519	70·1	327·2	+14·7	1	15	
			0·888	86·7	294·7	+ 5·4			141
			0·945	109·5	289·3	−16·5			612
Oct. 22				(+26·0)	(357·4)	(+5·2)	(1)	(23)	(1329)
295·608	AS, RF		0·929	258·5	45·9	− 8·7			185
			0·832	253·0	33·1	−11·1			67
			0·770	238·2	23·2	−20·3			135
		5999*	0·185	339·9	342·9	+15·0	0	6	
G.		5994*a*	0·258	50·6	327·3	+14·4	0	7	
			0·811	117·8	290·0	−18·9			286
			0·926	117·8	276·2	−23·3			515
			0·950	79·7	266·9	+11·4			183
Oct. 23				(+25·9)	(339·1)	(+5·1)	(0)	(13)	(1371)
296·213	FS, CL		0·967	245·8	42·7	−21·8			155
			0·883	257·6	31·6	− 8·5			320
			0·872	290·8	31·4	+20·6			224
			0·857	243·1	25·3	−19·9			184
			0·821	230·7	16·9	−27·9			175
			0·724	241·3	12·4	−16·6			116
		5999	0·502	287·3	0·4	+12·9	2	14	
		5999	0·488	284·8	359·8	+11·6	0	5	
M.		5999	0·486	287·1	359·4	+12·6	0	4	
		5994*a*	0·188	23·4	326·7	+14·9	0	6	
		5996	0·762	68·6	282·5	+19·5	0	6	
			0·772	120·9	286·5	−19·8			340
			0·710	83·3	285·8	+ 8·3			135
			0·896	122·0	273·8	−25·7			675
			0·873	67·0	270·9	+22·5			153
			0·878	82·2	269·5	+ 9·2			426
Oct. 24				(+25·8)	(331·1)	(+5·0)	(2)	(35)	(2903)

Group 5998, October 16. A very small spot.
October 18. The orientation of the photograph taken at Dehra Dûn on this day appears to be in error.
Group 5994, October 20–25. A small regular spot, *a*, with a small companion, *b*, on October 21 and 22.
October 21. The orientation of the photograph taken at Dehra Dûn on this day appears to be in error.
Group 5995, October 21. A few very small faint spots.
Group 5999*, October 23. A very small faint spot, *p*, the place of Group 5999.
Group 5996, October 24. A very small spot.
Group 5999, October 24–26. A few very small spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

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1906.				°	°	°			
297·190	CL, RF		0·958						224
			0·945						164
			0·947						276
			0·789						53
		5999	0·680				2	6	
		5999	0·670				0	7	
		5999	0·670				0	3	94c
D.		5999	0·638				0	2	
		5994	0·238				1	4	
		5994	0·203				0	1	
		6000	0·761				2	13	460f
			0·803						96
			0·903						57
			0·963						214
Oct. 25				(+25·7)	(318·2)	(+4·9)	(5)	(36)	(1638)
298·209	CL, RF		0·962						167
			0·945						164
			0·927						79
D.		5999	0·813				0	7	
		6000	0·645				0	6	152c
		6000	0·633				0	2	
			0·913						331
Oct. 26				(+25·5)	(304·7)	(+4·8)	(0)	(15)	(893)
299·223	FS, AS		0·935	283·4	1·0	+14·2			140
			0·868	291·5	351·1	+20·9			151
M.		6000*	0·405	170·7	287·6	−18·8	0	3	
			0·789	107·8	241·8	−10·9			285
			0·934	74·2	222·1	+16·5			222
Oct. 27				(+25·4)	(291·5)	(+4·7)	(0)	(3)	(798)
300·417	FS, CL		0·823	251·5	328·6	−12·4			169
			0·837	228·8	322·4	−30·3			102
			0·782	103·4	225·8	− 7·5			212
K.			0·787	78·9	223·9	+11·6			156
			0·811	68·6	222·4	+20·0			234
			0·946	76·6	204·4	+14·1			186
Oct. 28				(+25·3)	(275·7)	(+4·6)	(0)	(0)	(1059)
301·400	FS, AS		0·933	282·4	331·8	+13·2			151
			0·907	251·5	325·3	−14·7			189
M.		6001	0·983	76·6	182·7	+14·0	0	13	215c
			0·938	115·7	197·0	−22·2			229
			0·944	55·7	193·2	+33·8			135
Oct. 29				(+25·2)	(262·7)	(+4·5)	(0)	(13)	(919)
1906.				°	°	°			
302·118	FS, AS		0·936	280·9	322·8	+11·7			199
			0·918	249·2	316·8	−17·1			177
			0·801	250·2	303·7	−13·0			92
K.		6001a	0·940	75·1	183·0	+15·5	6	26	166f
			0·848	115·7	199·5	−19·0			323
			0·876	57·0	194·6	+30·8			140
Oct. 30				(+25·1)	(253·2)	(+4·4)	(6)	(26)	(1097)
303·544	CL, RF	6002	0·783	271·2	285·9	+ 3·6	6	37	
		6002	0·746	271·8	282·6	+ 4·2	5	28	
		6001a	0·783	75·0	183·3	+14·4	7	68	
G.		6001	0·800	75·0	181·6	+14·6	10	21	97c
		6001b	0·819	73·0	179·9	+16·3	19	69	
			0·939	79·3	164·2	+11·6			116
			0·954	66·4	161·8	+23·8			125
Oct. 31				(+24·8)	(234·4)	(+4·3)	(47)	(223)	(338)
304·256	FS, CL		0·923	247·4	289·1	−19·0			387
			0·829	235·9	274·0	−24·9			356
		6002	0·878	273·1	286·4	+ 4·7	0	18	
		6002	0·865	272·4	284·8	+ 4·2	0	6	134c
		6002	0·843	272·1	282·4	+ 4·1	0	17	
		6002	0·840	273·8	282·1	+ 5·5	0	9	
M.		6001a	0·667	73·2	183·9	+14·3	7	72	
		6001	0·679	73·0	183·0	+14·6	12	36	112c
		6001b	0·723	71·6	179·6	+16·2	22	113	
			0·869	80·9	164·6	+10·0			110
			0·930	72·9	156·6	+17·4			161
			0·937	62·1	156·1	+27·6			185
Nov. 1				(+24·7)	(225·0)	(+4·2)	(41)	(271)	(1445)
305·299	AS, CL		0·976	249·1	286·1	−19·3			428
			0·877	280·5	272·6	+11·2			104
			0·909	241·9	271·9	−23·3			547
		6002	0·980	274·1	289·9	+ 4·9	0	20	241f
M.		6001a	0·480	67·8	184·1	+14·1	23	127	
		6001	0·506	68·0	182·4	+14·5	0	3	117c
		6001	0·528	67·9	181·0	+15·0	0	4	
		6001b	0·566	66·2	178·7	+16·6	17	179	
			0·932	60·9	143·6	+28·5			299
Nov. 2				(+24·6)	(211·3)	(+4·1)	(40)	(333)	(1736)
306·509	AS, RF		0·966	246·0	267·1	−21·9			318
			0·811	254·4	247·6	−10·2			115
G.		6001a	0·245	43·6	185·3	+14·1	22	100	
		6001	0·267	51·2	183·0	+13·5	0	5	

October 25 and 26. The orientation of the photograph taken at Dehra Dûn on these days appears to be in error.
Group 6000, October 25–26. One or two very small faint spots.
Group 6000*. October 27. A few very small faint spots, *np*, the place of Group 6000.
Group 6001. October 29–November 10. A revival of Group 5990. A fine straight stream up to the time of its reaching the central meridian, after which it diminishes, and its component spots are small and widely scattered. The first and last spots, *a* and *b*, are the largest.
Group 6002, October 31–November 2. A few small spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
306·509	AS, RF	6001	0·294	48·0	182·3	+15·2	3	14	
		6001	0·303	49·8	181·5	+15·1	0	2	
		6001	0·320	50·7	180·5	+15·5	1	10	
G.		6001*b*	0·360	50·1	178·6	+17·1	18	131	
		6001	0·349	53·0	178·5	+15·9	2	12	
			0·830	59·7	141·9	+27·1			144
			0·929	91·9	127·3	− 0·3			122
			0·985	78·4	114·9	+12·1			182
Nov. 3				(+24·4)	(195·3)	(+4·0)	(46)	(274)	(881)
307·132	CL, AS		0·934	243·3	252·1	−23·2			223
			0·892	255·9	248·6	−10·7			150
			0·815	247·8	238·4	−15·4			87
		6001*a*	0·175	6·3	186·0	+13·9	14	106	
		6001	0·184	18·0	183·8	+14·0	0	6	
		6001	0·201	19·0	183·2	+14·9	3	18	
		6001	0·222	27·2	181·1	+15·2	0	4	
K.		6001	0·249	31·8	179·3	+16·0	0	7	
		6001	0·273	30·3	178·8	+17·4	9	43	
		6001	0·280	33·9	177·7	+17·2	8	61	
		6001	0·263	37·1	177·6	+15·9	0	4	
			0·752	57·1	142·2	+26·8			214
			0·867	128·6	135·6	−30·3			126
			0·911	90·9	121·7	+ 0·8			170
			0·954	79·9	114·3	+10·9			158
Nov. 4				(+24·3)	(187·1)	(+3·9)	(34)	(249)	(1128)
308·498	CL, RF		0·834	282·6	225·4	+12·6			53
			0·841	244·4	222·2	−19·0			99
			0·856	231·9	219·6	−29·5			424
		6001	0·374	299·5	188·6	+14·2	0	3	
		6001*a*	0·351	301·7	187·0	+14·2	16	56	
		6001	0·314	309·2	183·6	+15·1	0	12	
G.		6001	0·291	316·6	181·0	+15·9	2	6	
		6001	0·276	324·5	178·7	+16·7	0	2	
		6001	0·296	329·3	178·2	+18·4	1	7	
		6001*b*	0·283	331·9	177·1	+18·2	10	52	
			0·817	81·9	114·4	+ 8·8			130
			0·917	83·5	102·6	+ 7·5			281
Nov. 5				(+24·0)	(169·1)	(+3·8)	(29)	(138)	(987)
309·196	FS, CL		0·970	258·2	234·6	−10·5			242
			0·884	291·6	221·2	+20·8			180
M.		6001	0·509	289·1	189·3	+12·8	0	4	
		6001*a*	0·502	291·3	188·6	+13·7	7	41	
		6001	0·487	292·3	187·4	+13·9	0	6	
1906.				°	°	°			
309·196	FS, CL	6001	0·477	294·3	186·5	+14·6	0	9	
		6001	0·449	296·6	184·4	+15·0	2	11	
		6001	0·409	301·4	181·1	+15·7	0	4	
		6001	0·423	309·1	180·1	+18·9	0	6	
M.		6001	0·386	308·2	178·3	+17·3	0	10	
		6001*b*	0·383	311·0	177·5	+18·1	5	28	
			0·874	30·2	115·0	+51·6			183
			0·731	76·0	113·4	+12·7			124
			0·856	81·0	101·1	+ 9·6			192
Nov. 6				(+23·9)	(159·9)	(+3·7)	(14)	(119)	(921)
310·181	FS, AS		0·930	290·6	214·9	+20·4			174
			0·835	240·1	198·2	−22·3			207
		6001*a*	0·691	287·3	189·7	+14·5	2	18	
		6001	0·624	292·0	183·8	+16·3	0	3	121*c*
M.		6001*b*	0·561	296·5	178·5	+17·5	1	11	
		6001	0·551	298·2	177·5	+18·1	0	5	
			0·757	78·4	98·0	+11·1			137
			0·984	100·4	68·2	− 9·6			205
Nov. 7				(+23·7)	(146·9)	(+3·6)	(3)	(37)	(844)
311·345	CL, AS		0·907	292·4	195·8	+21·7			212
			0·925	243·7	195·3	−22·7			222
		6001*a*	0·855	285·3	189·9	+14·9	2	11	381*c*
		6001*b*	0·750	290·2	178·8	+17·4	0	10	
		6003	0·917	102·0	66·3	− 9·5	2	40	124*p*
M.		6004*a*	0·964	102·6	58·2	−11·2	59	424	
		6006	0·989	101·9	51·1	−11·2	29	137	403*c*
		6006	0·991	104·1	50·4	−13·5	0	86	
			0·908	86·8	66·3	+ 4·4			212
			0·945	75·2	60·6	+15·1			136
Nov. 8				(+23·4)	(131·5)	(+3·5)	(92)	(708)	(1690)
312·274	FS, AS		0·910	238·4	179·4	−26·8			143
		6001*a*	0·944	284·8	189·9	+15·0	0	18	257*c*
		6001	0·915	285·7	185·3	+15·7	0	18	
		6001*b*	0·869	288·1	179·0	+17·4	0	12	167*c*
		6003	0·816	104·6	66·2	− 9·9	0	17	89*c*
M.		6004*a*	0·882	104·9	59·1	−11·5	50	397	
		6006	0·942	103·6	50·4	−11·6	9	85	687*c*
		6006	0·944	104·9	50·2	−12·9	0	102	
		6006	0·950	106·0	49·2	−14·1	8	49	
			0·869	71·0	59·7	+18·1			109
			0·897	116·1	59·5	−21·5			179
Nov. 9				(+23·2)	(119·3)	(+3·3)	(67)	(698)	(1631)

Group 6003, November 8–13. One or two small spots, *p* Group 6004. The group is not seen on November 11.
Group 6004, November 8–19. A large well-defined composite spot, *a*, occasionally closely followed by some small companions.
Group 6006, November 8–17. A number of spots irregularly arranged, but principally collected in a single cluster. The group forms a train to Group 6004, at first curved, but later long and straight.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
313·475	CL, RF		0·958	292·9	176·4	+22·8			55
			0·823	300·5	155·8	+26·6			94
		6001	0·979	288·0	182·0	+18·3	5	28	225*c*
		6007	0·199	181·3	103·8	− 8·2	0	3	
		6007	0·222	180·9	103·7	− 9·6	0	4	
		6005	0·681	74·1	61·4	+13·1	0	9	
		6003	0·657	110·5	64·9	−10·8	0	3	
		6003	0·681	109·4	62·9	−10·6	0	3	
		6004*a*	0·718	108·3	59·7	−10·7	54	405	
		6006	0·793	107·6	53·1	−11·9	2	18	
G.		6006	0·823	108·6	50·4	−13·3	16	111	326*c*
		6006	0·823	106·7	50·1	−11·7	14	71	
		6006	0·823	105·4	49·9	−10·7	0	4	
		6006	0·840	109·8	48·9	−14·7	0	7	
		6008	0·938	84·3	33·8	+ 6·5	0	40	212*f*
			0·838	95·9	47·1	− 3·2			64
			0·930	99·6	36·0	− 7·7			127
			0·938	89·3	34·0	+ 1·8			44
			0·980	109·3	26·9	−18·2			53
			0·988	81·0	22·3	+ 9·4			195
Nov. 10				(+22·8)	(103·5)	(+3·2)	(91)	(706)	(1395)
314·547	AS, RF		0·926	297·3	155·9	+26·4			141
			0·871	307·6	145·3	+33·8			43
			0·808	301·3	139·9	+26·8			91
		6007	0·362	228·5	105·4	−10·9	0	4	
		6009	0·389	57·4	69·7	+15·0	2	6	
		6009	0·405	62·1	67·9	+13·7	0	3	
		6009	0·417	61·6	67·3	+14·3	0	4	
		6012	0·590	72·1	54·4	+13·0	0	3	
		6012	0·594	71·2	54·2	+13·6	0	9	
		6012	0·619	72·4	52·2	+13·3	0	1	
		6004*a*	0·530	114·9	60·3	−10·2	69	355	
		6006	0·586	112·6	56·2	−10·4	1	5	
G.		6006	0·613	111·9	54·2	−10·7	0	7	
		6006	0·629	112·2	53·1	−11·3	0	1	
		6006	0·649	114·9	52·3	−13·4	0	4	
		6006	0·644	112·4	52·1	−11·7	1	10	
		6006	0·648	111·2	51·6	−11·1	0	1	
		6006	0·662	112·2	50·8	−12·0	0	4	
		6006	0·671	114·4	50·6	−13·7	9	72	
		6006	0·669	110·9	50·0	−11·4	13	72	
		6006	0·688	112·5	48·9	−12·9	15	68	
		6006	0·705	115·1	48·2	−15·1	0	6	
		6006	0·706	115·0	48·1	−15·0	0	5	
		6008	0·831	83·5	33·3	+ 7·1	0	16	
		6008	0·846	82·9	31·7	+ 7·7	0	15	166*c*
		6008	0·850	80·8	31·3	+ 9·5	0	10	
			0·775	75·2	39·2	+13·4			101
1906.				°	°	°			
314·547	AS, RF		0·828	104·5	35·1	−10·2			143
			0·929	115·3	24·6	−22·1			115
G.			0·927	80·4	21·5	+10·0			184
			0·949	106·4	19·5	−14·5			101
Nov. 11				(+22·6)	(89·4)	(+3·1)	(110)	(681)	(1085)
315·517	CL, RF		0·972	298·8	152·6	+28·7			70
			0·888	301·6	136·4	+29·2			127
		6007	0·582	250·7	110·2	− 8·5	5	20	
		6007	0·583	249·5	110·0	− 9·2	0	5	
		6007	0·546	249·0	107·5	− 8·7	0	1	
		6007	0·538	247·0	106·6	− 9·5	11	39	
		6009	0·230	24·0	71·1	+15·1	1	4	
		6009	0·236	28·0	70·0	+15·0	0	14	
		6009	0·259	36·3	67·5	+15·0	1	6	
		6003	0·271	144·5	67·5	− 9·8	0	9	
		6003	0·287	144·5	66·9	−10·5	0	6	
		6010*a*	0·308	59·3	61·0	+11·9	7	43	
		6010	0·333	59·0	59·7	+12·7	0	5	
		6010*b*	0·337	62·2	58·9	+11·9	2	16	
		6004*a*	0·349	132·4	61·5	−10·7	63	383	
G.		6006	0·412	126·3	56·9	−11·3	0	4	
		6006	0·420	123·7	55·9	−10·6	4	40	
		6006	0·466	123·2	53·2	−12·0	9	28	
		6006	0·468	120·1	52·4	−10·8	0	5	
		6006	0·534	131·2	51·7	−17·8	0	8	
		6006	0·524	128·1	51·3	−16·1	0	4	
		6006	0·517	126·0	51·1	−14·9	8	46	
		6006	0·499	121·9	51·0	−12·6	9	50	
		6006	0·489	119·4	51·0	−11·1	2	11	
		6006	0·527	122·9	49·6	−13·9	18	86	
		6006	0·556	125·5	48·6	−16·1	0	3	
		6008	0·704	84·5	32·0	+ 6·0	3	23	141*c*
			0·836	120·9	25·3	−23·5			126
			0·816	81·8	22·1	+ 8·4			148
			0·890	110·4	16·3	−16·6			122
Nov. 12				(+22·4)	(76·6)	(+3·0)	(143)	(859)	(734)
316·226	FS, CL	6007	0·708	254·4	110·7	− 8·8	0	18	
		6007	0·665	253·8	107·2	− 8·5	0	9	
		6007	0·660	250·0	106·2	−10·8	0	24	
		6009	0·233	341·2	71·7	+15·6	0	5	
		6009	0·215	346·9	70·1	+14·9	0	5	
M.		6009	0·213	356·2	68·0	+15·1	0	9	
		6003	0·234	176·0	66·3	−10·6	0	11	
		6010*a*	0·175	30·4	62·0	+11·6	5	30	
		6010*b*	0·208	40·4	59·3	+12·0	6	22	
		6004*a*	0·255	156·0	61·2	−10·6	57	382	

Group 6005, November 10. A small faint spot.
Group 6007, November 10–15. A few small, very faint, unstable spots.
Group 6008, November 10–18. One or two small spots.
Group 6012, November 11. Some very small spots, *f* Group 6010.
Group 6009, November 11–14. Two or three very small spots.
Group 6010, November 12–17. A number of spots, mostly small, in a short stream, *p* Group 6012. The two largest spots, *a* and *b*, are also the most stable.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
316·226	FS, CL	6004	0·276	150·0	59·2	−10·9	4	27	
		6004	0·243	142·0	58·5	− 8·1	0	3	
		6006	0·297	138·1	55·6	− 9·9	6	35	
		6006	0·322	132·4	53·3	− 9·7	0	7	
		6006	0·345	133·9	52·6	−11·0	0	27	
		6006	0·366	135·2	52·0	−12·2	0	5	
		6006	0·391	137·2	51·4	−13·8	0	5	
		6006	0·417	136·6	50·0	−14·8	7	49	
		6006	0·398	132·6	49·8	−12·8	19	95	
	M.	6006	0·417	132·7	48·9	−13·6	0	3	
		6006	0·430	132·4	48·2	−14·0	0	9	
		6006	0·451	134·2	47·7	−15·6	0	5	
		6008	0·579	82·1	32·1	+ 6·9	2	15	85c
		6008	0·579	83·3	32·0	+ 6·2	0	6	
			0·705	78·9	22·8	+ 9·9			231
			0·816	112·1	15·5	−16·1			214
			0·857	124·8	14·9	−27·5			298
			0·850	76·0	9·4	+13·4			169
			0·964	81·3	352·6	+ 9·2			258
Nov. 13				(+22·2)	(67·2)	(+2·9)	(106)	(806)	(1255)
317·395	AS, CL		0·896	279·2	115·3	+ 9·5			222
			0·782	281·3	102·9	+10·6			207
		6007	0·872	259·2	111·4	− 8·0	2	7	
		6007	0·854	258·2	109·3	− 8·5	0	4	
		6007	0·837	258·9	107·6	− 7·7	0	5	183c
		6007	0·833	257·4	107·0	− 8·9	0	4	
		6007	0·825	255·4	105·8	−10·3	2	9	
		6009	0·351	313·5	67·1	+16·6	0	3	
		6010*a*	0·244	310·0	62·8	+11·7	12	62	
		6010	0·233	307·5	62·6	+10·9	0	7	
		6010	0·225	313·5	61·4	+11·7	0	4	
		6010*b*	0·225	321·6	60·0	+12·9	8	42	
		6004*a*	0·276	216·5	61·4	−10·0	45	338	
		6004	0·233	213·5	59·2	− 8·4	0	7	
	M.	6004	0·257	208·9	59·0	−10·2	2	10	
		6004	0·248	206·8	58·3	−10·0	0	3	
		6004	0·213	211·7	58·3	− 7·6	0	5	
		6006	0·226	202·3	56·8	− 9·2	1	6	
		6006	0·215	189·0	53·7	− 9·4	0	11	
		6006	0·230	180·8	52·0	−10·4	0	8	
		6006	0·275	178·7	51·4	−13·1	0	5	
		6006	0·228	174·3	50·5	−10·3	0	6	
		6006	0·290	175·2	50·4	−13·9	3	19	
		6006	0·261	172·0	49·7	−12·1	12	99	
		6006	0·278	171·0	49·3	−13·1	0	2	
		6006	0·312	171·9	49·2	−15·1	0	8	
		6006	0·291	167·8	48·2	−13·7	0	12	
		6008	0·317	78·5	33·7	+ 6·3	0	7	
1906.				°	°	°			
317·395	AS, CL	6008	0·340	76·2	32·4	+ 7·3	2	8	
		6013	0·493	126·0	27·6	−14·2	0	9	
	M.	6013	0·486	124·6	27·6	−13·4	0	2	
		6013	0·530	122·0	24·4	−13·7	0	4	
			0·933	72·9	343·2	+17·0			205
Nov. 14				(+21·8)	(51·8)	(+2·8)	(89)	(716)	(817)
318·224	FS, CL		0·959	281·4	114·4	+11·7			155
			0·868	278·9	100·9	+ 9·1			279
		6007	0·912	256·6	105·4	−11·0	0	12	257*np*
		6010*a*	0·404	290·5	63·4	+10·6	11	73	
		6010	0·391	290·5	62·7	+10·3	0	5	
		6010*b*	0·361	299·8	59·6	+12·8	10	29	
		6004	0·442	235·1	62·6	−12·1	0	6	
		6004*a*	0·419	236·7	61·7	−10·7	55	323	
	M.	6004	0·387	233·3	59·2	−10·8	0	9	
		6006	0·313	214·0	51·2	−12·3	2	11	
		6006	0·311	209·7	50·0	−13·0	9	83	
		6006	0·316	206·1	49·1	−13·7	0	17	
		6006	0·325	202·6	48·3	−14·7	0	8	
		6008	0·154	64·1	32·9	+ 6·6	0	3	
			0·870	61·8	342·8	+25·7			140
			0·867	74·7	341·3	+14·6			297
Nov. 15				(+21·7)	(40·9)	(+2·7)	(87)	(579)	(1128)
319·137	FS, AS		0·977	259·0	105·6	−10·2			219
			0·936	282·0	98·1	+12·1			176
		6010*a*	0·584	284·4	63·9	+10·5	3	30	
		6010*b*	0·531	291·1	59·4	+13·3	0	7	
		6004*a*	0·577	247·5	61·6	−10·6	55	322	
		6004	0·587	242·2	61·1	−13·6	0	4	
		6004	0·528	248·5	58·6	− 8·9	0	7	
	K.	6006	0·445	234·4	50·6	−12·6	0	12	
		6006	0·429	232·9	49·3	−12·5	3	34	
		6008	0·137	324·1	33·5	+ 8·9	0	6	
		6008	0·106	318·4	32·9	+ 7·1	0	20	
		6014	0·466	72·8	2·1	+10·2	0	7	
		6014	0·494	75·0	0·1	+ 9·6	0	7	
			0·888	73·4	326·9	+15·9			119
Nov. 16				(+21·4)	(28·9)	(+2·6)	(61)	(456)	(514)
320·203	FS, AS		0·906	268·8	79·5	0·0			128
			0·852	282·3	72·8	+11·8			104
			0·814	256·4	67·9	− 9·6			128
	M.	6010	0·769	281·4	64·6	+10·3	0	3	
		6010	0·765	283·1	64·1	+11·6	0	3	169c
		6010	0·724	287·8	60·0	+14·5	0	3	

Group 6013, November 14. Some small spots.
Group 6014, November 16–18. Two or three very small spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
320·203	FS, AS	6004*a*	0·747	253·7	61·4	−10·4	70	377	103*c*
		6004	0·706	254·7	58·2	− 8·9	0	8	
		6006	0·604	247·0	49·2	−11·6	0	4	64*p*
		6008	0·369	289·4	35·4	+ 9·4	0	5	
M.		6008	0·330	283·3	33·6	+ 6·7	0	12	
		6014	0·236	58·6	3·1	+ 9·5	0	9	
			0·840	91·9	317·9	− 0·3			109
			0·878	104·2	314·8	−11·2			124
Nov. 17				(+21·1)	(14·8)	(+2·5)	(70)	(424)	(929)
321·124	FS, CL		0·927	287·0	70·1	+16·6			225
			0·859	283·0	61·5	+12·4			272
			0·748	245·7	47·8	−16·2			159
			0·588	286·0	37·7	+11·3			81
		6004*a*	0·865	256·7	61·3	−10·2	51	297	500*c*
		6008	0·518	278·9	33·6	+ 6·7	1	9	
K.		6014	0·128	334·2	5·9	+ 9·0	0	5	
		6014	0·123	353·4	3·5	+ 9·4	0	2	
		6014	0·124	7·6	1·8	+ 9·4	0	2	
		6015*a*	0·964	115·8	291·0	−24·1	22	196	329*c*
			0·885	106·7	302·2	−13·6			300
			0·916	87·8	296·5	+ 3·0			186
Nov. 18				(+20·8)	(2·7)	(+2·4)	(74)	(511)	(2052)
322·223	CL, AS		0·965	281·6	63·0	+11·9			288
			0·905	253·1	51·3	−14·2			371
			0·890	258·6	50·1	− 9·1			189
			0·744	273·5	36·1	+ 4·2			216
		6004*a*	0·963	258·1	61·6	−10·8	43	344	185*c*
		6011	0·646	111·7	310·5	−12·0	0	7	99*c*
		6011	0·643	109·7	310·3	−10·7	0	6	
M.		6015*a*	0·882	118·3	290·5	−23·5	42	221	338*c*
		6015	0·896	117·3	288·5	−23·1	2	11	
		6017	0·872	78·4	287·9	+11·3	0	5	118*f*
		6018	0·959	117·5	278·0	−25·5	0	21	455*c*
			0·679	73·0	306·6	+13·1			102
			0·806	84·7	294·7	+ 5·6			184
			0·861	110·1	291·1	−16·0			146
Nov. 19				(+20·5)	(348·2)	(+2·3)	(87)	(615)	(2691)
323·227	FS, AS		0·966	254·8	48·8	−14·1			697
			0·927	241·9	39·2	−25·0			157
			0·897	265·4	38·4	− 3·2			155
M.			0·852	275·6	33·3	+ 5·9			282
			0·806	288·0	27·6	+15·7			199
			0·811	245·8	25·9	−18·0			134
		6015*a*	0·765	124·0	291·3	−23·7	39	302	123*c*
1906.				°	°	°			
323·227	FS, AS		0·785	116·7	287·2	−19·2			128
			0·777	76·5	284·7	+11·8			126
M.			0·882	124·7	279·2	−29·0			314
			0·942	117·8	268·2	−25·2			234
Nov. 20				(+20·2)	(335·0)	(+2·1)	(39)	(302)	(2549)
324·224	FS, CL		0·944	274·7	32·4	+ 5·1			208
			0·943	263·3	31·8	− 5·7			148
			0·863	243·8	17·8	−21·3			171
		6015*a*	0·627	132·9	291·9	−23·5	30	227	115*c*
M.		6015	0·658	131·3	289·1	−24·1	0	7	
			0·770	126·7	278·6	−26·0			124
			0·859	120·8	267·5	−25·0			230
			0·933	102·1	253·9	−10·6			102
Nov. 21				(+19·9)	(321·8)	(+1·9)	(30)	(234)	(1098)
325·223	AS, CL	6019	0·295	334·5	316·3	+17·2	0	4	
		6020	0·195	43·3	300·9	+ 9·9	0	5	
		6020	0·232	50·8	298·2	+10·2	0	4	
		6015*b*	0·504	149·7	292·6	−24·0	14	101	133*c*
		6015*c*	0·519	146·4	290·5	−23·8	15	98	
M.		6015	0·535	144·0	288·7	−23·8	2	18	
			0·768	127·6	266·0	−26·6			400
			0·856	109·6	252·0	−15·7			353
			0·905	126·3	250·2	−31·4			139
			0·878	94·0	247·7	− 2·7			133
Nov 22				(+19·6)	(308·7)	(+1·8)	(31)	(230)	(1158)
326·233	FS, CL		0·909	255·8	359·4	−12·1			201
			0·894	245·3	355·6	−21·1			220
			0·813	280·8	349·2	+ 9·8			179
			0·794	292·8	345·8	+19·0			130
		6019	0·366	305·7	313·1	+14·0	0	18	
		6019	0·337	313·3	309·9	+15·0	2	13	
		6015*b*	0·434	175·3	293·1	−23·8	12	88	128*c*
		6015	0·431	172·4	291·8	−23·5	0	10	
		6015	0·441	170·2	290·6	−24·0	0	4	
M.		6015*c*	0·435	169·6	290·4	−23·5	7	72	
		6015	0·448	165·8	288·4	−23·9	0	7	
		6015	0·466	165·4	287·9	−25·0	0	5	
		6021	0·997	79·9	209·9	+10·2	0	194	
			0·515	159·7	283·8	−27·1			104
			0·652	137·1	265·5	−27·0			223
			0·696	109·7	253·3	−12·3			214
			0·781	130·3	252·5	−29·0			158
			0·880	106·8	235·3	−13·9			151
Nov 23				(+19·3)	(295·3)	(+1·7)	(21)	(411)	(1708)

Group 6015, November 18–27. A fine well-defined spot, *a*, with double nucleus, eventually breaking up into two regular spots, *b* and *c*, of which *c* speedily disappears. A few small companions are generally seen with the principal spot.
Group 6011, November 19. Two very small spots.
Group 6017, November 19. A very small faint spot.
Group 6018, November 19. A few small spots, *sf* Group 6015.
Group 6020, November 22. Two very small spots.
Group 6019, November 22–27. A stream of small spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
327·209	FS, AS		0·884	282·1	344·0	+11·4			243
			0·876	294·2	341·6	+21·9			400
		6019	0·565	292·1	314·9	+13·6	0	5	
		6019	0·551	294·6	313·5	+14·6	0	4	
		6019	0·544	293·0	313·3	+13·6	3	11	65c
		6019	0·530	295·1	312·0	+14·4	0	6	
		6019	0·506	297·7	309·9	+15·0	0	10	
M.		6015b	0·464	202·1	293·4	−23·8	11	76	
		6015	0·450	199·2	291·6	−23·5	0	6	
		6015	0·475	196·5	291·0	−25·4	0	3	
		6015c	0·446	196·0	290·1	−23·7	6	45	
		6021	0·954	80·1	210·1	+ 9·9	26	183	
		6021	0·962	79·4	208·4	+10·7	18	132	347c
		6023	0·985	80·9	202·4	+ 9·3	0	73	
Nov. 24				(+18·9)	(282·4)	(+1·6)	(64)	(554)	(1055)
328·241	CL, AS		0·957	290·5	341·3	+20·1			219
			0·915	258·2	334·2	−10·2			281
			0·841	304·9	321·2	+29·6			293
			0·678	295·9	308·7	+18·3			203
		6019	0·745	286·4	315·9	+13·2	0	22	181c
		6015b	0·575	221·0	293·2	−24·3	10	50	
		6015c	0·547	217·3	290·1	−24·3	6	30	
M.		6022	0·486	220·5	288·5	−20·2	0	10	
		6021	0·859	80·1	210·1	+ 9·2	28	167	
		6021	0·875	79·4	208·3	+10·0	8	113	
		6023a	0·911	80·7	203·5	+ 9·1	10	61	594c
		6023	0·917	81·8	202·6	+ 8·2	0	11	
		6024a	0·964	72·8	194·8	+17·0	44	294	478c
			0·815	64·5	216·9	+21·4			145
Nov. 25				(+18·5)	(268·9)	(+1·5)	(106)	(758)	(2394)
329·218	FS, AS		0·969	281·2	331·5	+11·2			217
		6019	0·888	284·2	317·9	+13·2	4	77	239c
		6019	0·847	288·0	312·7	+15·9	0	5	
		6025	0·862	257·3	314·5	−10·2	0	11	97f
		6015b	0·697	232·5	293·1	−24·0	18	54	94c
		6015c	0·663	230·7	290·0	−23·7	3	11	
		6015*	0·578	220·6	280·4	−24·7	0	9	91f
		6026	0·617	55·8	222·9	+21·3	0	6	97f
M.		6026	0·618	59·2	221·9	+19·5	0	3	
		6021	0·726	77·7	210·2	+ 9·8	35	190	
		6021	0·745	77·1	208·6	+10·4	16	123	
		6023a	0·785	79·2	204·8	+ 9·3	6	34	361c
		6023	0·796	78·2	203·9	+10·2	0	7	
		6023	0·816	80·4	201·8	+ 8·6	8	23	
		6024a	0·880	70·7	195·7	+17·5	41	263	294c
		6024	0·892	72·2	193·9	+16·4	8	62	
1906.				°	°	°			
329·218	FS, AS	6030	0·945	72·6	185·7	+16·9	0	27	
		6030a	0·947	73·8	185·4	+15·7	6	113	680c
		6030	0·947	75·4	185·3	+14·2	0	14	
M.		6027a	0·977	72·1	178·6	+17·8	16	132	
			0·854	116·6	200·9	−21·7			217
			0·864	104·5	197·5	−11·9			215
			0·896	75·3	193·1	+13·7			177
Nov. 26				(+18·2)	(256·0)	(+1·3)	(161)	(1164)	(2779)
330·216	FS, CL		0·952	255·9	314·1	−13·1			48
			0·938	242·9	309·7	−24·9			120
			0·801	284·2	295·3	+12·1			139
			0·719	229·9	280·7	−26·6			207
		6019	0·985	286·2	322·7	+16·2	0	17	154c
		6019	0·974	283·1	319·6	+13·1	26	150	
		6019	0·949	283·8	314·1	+13·5	0	19	396c
		6019	0·933	286·5	311·1	+15 9	0	7	
		6025	0·958	258·4	315·4	−10·7	0	22	
		6025	0·933	257·3	310·9	−11·4	5	15	117c
		6028	0·803	251·1	294·3	−14·3	3	12	299s
		6015b	0·816	238·9	292·7	−24·1	0	9	
		6015c	0·789	238·0	289·7	−23·8	0	7	255c
		6029	0·338	84·3	223·3	+ 3·1	0	3	
		6029	0·358	77·0	222·5	+ 5·8	0	5	
		6026	0·440	42·4	224·6	+20·0	2	11	
		6026	0·463	42·6	223·4	+21·0	1	7	
		6026	0·459	46·5	222·3	+19·5	0	4	
		6026	0·482	44·8	221·6	+21·1	2	17	
		6026	0·500	48·2	219·6	+20·5	8	20	
M.		6021	0·559	74·3	209·9	+ 9·7	38	210	
		6021	0·562	78·1	209·3	+ 7·6	0	5	
		6021	0·583	73·3	208·4	+10·6	31	132	
		6021	0·587	76·9	207·7	+ 8·6	0	12	
		6023a	0·622	76·3	205·3	+ 9·4	8	60	241c
		6023	0·630	74·6	204·9	+10·6	0	3	
		6023	0·647	75·5	203·5	+10·2	0	6	
		6023	0·672	74·8	201·7	+11·1	0	8	
		6023	0·667	78·3	201·7	+ 8·7	8	40	
		6024a	0·762	68·0	195·3	+17·4	52	243	
		6024	0·780	69·4	193·4	+16·7	1	13	279c
		6024	0·805	68·2	191·2	+18·1	0	6	
		6030	0·850	70·7	186·1	+16·9	1	10	
		6030	0·849	74·4	185·8	+13·8	0	10	
		6030a	0·852	72·8	185·6	+15·2	11	79	799c
		6030	0·863	73·1	184·3	+15·1	0	16	
		6027a	0·912	71·1	178·2	+17·7	10	53	
			0·846	124·0	190·8	−27·5			278
			0·913	81·0	177·3	+ 8·8			139
			0·922	88·4	175·9	+ 2·0			127
Nov. 27				(+17·9)	(242·9)	(+1·2)	(207)	(1231)	(3598)

Group 6021, November 24–December 5. A fine double spot, *a*, eventually breaking up into two regular spots, *b* and *c*. *a* is followed by a few very small companions.
Group 6023, November 24–29. An irregular stream of spots closely following Group 6021. The leader, *a*, is the largest member of the group.
Group 6022, November 25. A very small spot, *nf* Group 6015. Group 6024, November 25–December 6. A large regular spot, *a*, usually with one or two small companions.
Group 6015*, November 26. A small spot, *sf* Group 6015. Group 6025, November 26–28. One or two small spots.
Group 6026, November 26–December 4. A few small spots on November 26. The group has developed by November 28 into a long irregular stream.
Group 6027, November 26–December 3. A small spot, *a*, *nf* Group 6030, and forming with it, and with Group 6024, a long straggling stream. A few small companions are sometimes seen near *a*. Group 6030, November 26–December 4. A small stream, *f* Group 6024. The rear spot, *a*, is the largest at first, but has broken up by November 29, after which the stream rapidly diminishes.
Group 6028, November 27. Two very small spots, *np* Group 6015. Group 6029, November 27. Two very small faint spots.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
331·218	AS, CL		0·952	286·6	301·2	+16·2			175
			0·912	252·6	293·9	−15·3			191
			0·889	275·8	292·1	+ 5·7			204
			0·907	241·0	290·9	−25·5			396
			0·818	285·0	283·5	+12·8			103
			0·816	238·1	279·2	−24·8			357
		6025	0·990	258·5	310·8	−11·2	0	68	208c
		6026	0·332	8·3	226·7	+20·2	0	9	
		6026	0·337	14·8	224·4	+20·0	9	92	
		6026	0·365	20·5	221·8	+21·0	0	6	
		6026	0·346	23·6	221·2	+19·5	8	35	
		6026	0·371	26·7	219·4	+20·4	5	41	
		6026	0·349	32·6	218·2	+18·1	0	5	
		6021a	0·373	65·7	209·5	+ 9·9	58	326	
		6021	0·389	69·7	208·0	+ 8·8	0	5	
M.		6023a	0·424	69·8	205·9	+ 9·4	4	18	
		6023	0·453	72·3	203·8	+ 8·9	0	2	
		6023	0·479	68·8	202·6	+11·0	0	5	
		6023	0·477	72·7	202·3	+ 9·1	0	4	
		6023	0·480	74·4	201·9	+ 8·4	5	35	
		6023	0·529	69·3	199·4	+11·7	0	6	
		6024a	0·606	62·6	195·5	+17·1	41	244	256c
		6024	0·626	65·2	193·5	+16·1	0	5	
		6030a	0·712	69·8	186·0	+15·0	8	63	
		6030	0·719	67·4	185·9	+16·8	0	9	719c
		6030	0·730	70·4	184·4	+14·9	0	6	
		6027a	0·800	68·6	178·3	+17·7	5	38	
			0·872	83·4	169·2	+ 6·3			241
			0·895	98·2	166·7	− 6·8			94
Nov. 28				(+17·5)	(229·6)	(+ 1·1)	(143)	(1022)	(2944)
332·236	FS, CL		0·971	250·2	290·9	−18·9			265
			0·970	241·1	289·6	−27·7			300
			0·870	287·4	275·5	+15·6			219
			0·886	241·3	274·7	−24·6			477
			0·796	234·8	262·7	−26·5			171
		6026	0·381	331·4	227·4	+20·4	1	16	
		6026	0·367	334·3	225·9	+20·2	14	61	
		6026	0·362	337·5	224·7	+20·4	9	41	
		6026	0·346	336·3	224·6	+19·3	0	5	
M.		6026	0·344	341·9	222·7	+20·0	2	10	
		6026	0·330	347·0	220·7	+19·7	12	68	
		6026	0·322	350·7	219·4	+19·5	0	4	
		6026	0·340	351·5	219·3	+20·6	5	28	
		6021b	0·191	36·4	209·6	+ 9·8	31	185	
		6021	0·238	30·7	209·1	+12·8	1	6	
		6021c	0·219	36·3	208·6	+11·1	17	121	
		6023	0·279	61·6	201·9	+ 8·6	5	9	
		6023	0·301	62·4	200·6	+ 9·0	0	2	

Greenwich Civil Time.	Measurers.	No. of Group and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
332·236	FS, CL	6024a	0·441	49·9	195·6	+17·4	48	273	
		6024	0·449	55·8	193·6	+15·5	0	3	
		6030a	0·550	63·4	185·7	+15·1	4	23	
		6027	0·637	61·2	180·3	+18·6	0	5	170c
M.		6027	0·640	63·9	179·4	+17·1	0	4	
		6027a	0·654	63·4	178·5	+17·8	5	26	
			0·788	101·5	165·1	− 8·4			232
			0·867	64·2	158·6	+22·7			197
			0·936	97·2	147·3	− 6·4			181
Nov. 29				(+17·1)	(216·2)	(+ 1·0)	(154)	(890)	(2212)
333·218	FS, AS		0·944	286·3	273·3	+15·7			163
			0·938	242·2	269·9	−25·5			594
			0·817	256·7	257·0	−10·3			137
			0·829	235·8	253·5	−27·1			115
		6026	0·526	310·7	228·4	+20·8	0	6	
		6026	0·511	311·6	227·3	+20·6	9	55	
		6026	0·497	314·3	225·6	+21·1	3	23	
		6026	0·453	315·9	222·8	+19·8	0	13	
		6026	0·427	318·7	220·6	+19·5	9	78	
		6026	0·432	323·1	219·4	+21·0	2	19	
		6021b	0·195	324·5	209·9	+10·0	27	175	
		6021c	0·209	332·4	208·9	+11·5	11	110	
M.		6021	0·168	332·2	207·8	+ 9·4	0	3	
		6024a	0·305	23·7	196·0	+17·1	50	274	
		6024	0·323	34·0	192·5	+16·4	4	21	
		6024	0·317	38·1	191·7	+15·3	2	7	
		6030	0·365	47·6	187·2	+15·1	5	25	
		6030	0·400	50·2	184·8	+15·6	0	9	
		6030	0·420	46·4	184·8	+17·6	0	5	
		6027a	0·489	53·5	179·0	+17·7	2	23	
			0·860	101·1	144·8	− 9·1			125
			0·924	112·0	137·9	−19·8			167
			0·970	101·6	128·0	−11·0			180
Nov. 30				(+16·7)	(203·3)	(+0·9)	(124)	(846)	(1481)
334·448	CL, RF	6026	0·716	298·6	229·1	+20·6	11	101	
		6026	0·682	299·5	226·1	+20·1	0	5	
		6026	0·614	301·6	220·6	+19·3	6	36	
		6021b	0·420	293·8	210·0	+10·4	21	160	
		6021c	0·415	298·1	209·0	+11·9	13	89	
		6024	0·344	327·3	198·3	+17·4	0	6	
G.		6024a	0·320	330·9	196·4	+16·9	37	249	
		6024	0·382	338·5	195·7	+21·4	0	4	
		6024	0·286	340·0	192·9	+16·3	0	17	
		6030	0·286	357·1	188·0	+17·2	0	2	
		6030	0·252	356·8	187·9	+15·2	2	12	
		6027	0·306	19·4	181·0	+17·4	0	9	
		6027a	0·315	23·7	179·5	+17·4	2	28	

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
334·448	CL, RF	6031*	0·344	129·6	171·4	−12·0	1	7	
		6031*	0·400	126·9	168·0	−13·2	0	3	
		6031	0·360	117·1	168·3	− 8·8	0	4	
		6031	0·380	112·9	166·5	− 7·8	0	4	
G.		6032*	0·685	86·9	144·1	+ 2·7	0	6	
		6032*	0·726	89·6	140·7	+ 0·8	0	7	
			0·928	101·8	119·8	−10·6			106
			0·986	86·8	107·0	+ 3·3			299
Dec. 1				(+16·2)	(187·1)	(+0·7)	(93)	(749)	(405)
335·236	FS, AS		0·932	267·1	245·1	− 2·5			162
			0·937	298·2	243·8	+26·5			126
			0·903	253·7	240·0	−14·4			114
		6026	0·830	295·1	230·1	+20·9	19	101	
		6026	0·798	295·7	226·7	+20·6	0	20	333c
		6026	0·732	296·4	220·5	+19·3	6	40	
		6021b	0·572	288·2	210·1	+10·8	18	108	
		6021c	0·563	291·4	209·0	+12·4	19	88	
		6021	0·549	289·8	208·3	+11·2	0	5	
		6021	0·530	286·2	207·6	+ 9·0	0	9	
		6024a	0·433	311·0	196·6	+17·0	45	213	
		6024	0·410	312·2	195·1	+16·5	3	37	
		6024	0·365	312·6	192·8	+14·9	0	8	
		6030	0·319	323·5	188·0	+15·4	2	8	
		6027	0·328	337·5	184·3	+18·2	0	6	
		6027	0·306	342·4	182·2	+17·5	0	4	
		6027	0·322	344·6	181·9	+18·6	3	11	
M.		6027	0·308	347·5	180·7	+18·0	0	15	
		6027	0·298	350·6	179·6	+17·7	0	5	
		6027	0·269	356·1	177·8	+16·1	0	6	
		6027	0·289	357·6	177·4	+17·3	0	7	
		6031*	0·228	161·8	172·5	−11·9	0	4	
		6031	0·182	147·3	171·0	− 8·2	0	6	
		6031	0·215	131·0	167·3	− 7·5	0	5	
		6031	0·231	134·6	167·2	− 8·7	0	3	
		6031	0·241	126·8	165·5	− 7·7	3	12	
		6032	0·943	83·8	106·4	+ 6·1	9	51	229c
			0·664	84·1	135·4	+ 4·4			99
			0·721	98·7	131·1	− 5·9			143
			0·778	76·7	126·5	+10·7			250
			0·807	89·6	123·1	− 0·7			100
			0·894	98·9	113·9	− 7·7			252
			0·925	88·0	109·3	+ 2·2			168
			0·958	76·5	103·9	+13·1			255
Dec. 2				(+15·9)	(176·7)	(+0·6)	(127)	(772)	(2231)
336·242	CL, AS		0·880	272·8	224·8	+ 2·7			145
M.			0·856	305·0	217·1	+29·7			115
1906.				°	°	°			
336·242	CL, AS	6026	0·933	291·6	230·8	+20·3	68	275	
		6026	0·904	292·1	226·3	+20·1	11	119	385c
		6026	0·863	292·8	220·9	+19·8	0	20	
		6021b	0·744	284·4	210·4	+11·0	22	119	
		6021c	0·737	286·8	209·5	+12·6	16	105	140c
		6021	0·720	283·1	208·6	+ 9·8	0	4	
		6024a	0·600	298·8	196·7	+17·2	59	257	74c
		6030	0·480	302·8	188·1	+15·5	0	6	
		6027	0·439	314·4	182·6	+18·3	0	3	
M.		6031	0·199	225·8	171·6	− 7·4	0	3	
		6031	0·156	202·8	166·9	− 7·7	0	30	
		6031	0·152	198·5	166·2	− 7·7	0	10	
		6032	0·847	83·0	105·9	+ 6·2	5	47	
		6032	0·861	83·0	104·3	+ 6·3	0	8	281c
		6032	0·887	84·4	101·2	+ 5·2	0	4	
			0·694	79·8	120·0	+ 7·4			240
			0·743	104·0	116·5	−10·0			426
			0·821	89·5	108·4	+ 0·7			168
			0·833	95·9	107·4	− 4·6			134
			0·897	74·8	100·6	+13·8			322
Dec. 3				(+15·5)	(163·4)	(+0·5)	(18)	(101)	(2430)
337·202	FS, AS		0·913	247·1	214·5	−20·7			108
			0·889	268·2	213·2	− 1·5			128
			0·880	255·1	211·2	−12·9			238
			0·812	280·9	204·3	+ 9·0			186
			0·766	240·9	196·6	−21·6			222
			0·701	283·0	194·3	+ 9·3			124
		6026	0·987	290·4	230·8	+20·2	36	287	
		6026	0·966	290·5	224·6	+19·8	17	88	557c
		6026	0·964	292·5	223·9	+21·7	0	44	
		6021b	0·866	282·5	210·0	+11·0	18	126	
		6021c	0·864	284·4	209·5	+12·6	14	60	252c
		6021	0·852	283·4	208·3	+11·6	0	8	
		6021	0·844	280·7	207·6	+ 9·2	0	4	
M.		6024a	0·751	292·9	196·9	+17·1	27	186	253c
		6030	0·675	293·6	190·6	+15·9	0	5	59c
		6030	0·648	294·1	188·4	+15·6	0	5	
		6031	0·330	245·1	168·2	− 7·7	0	6	
		6031	0·311	244·3	167·0	− 7·4	3	27	
		6033	0·421	111·7	127·5	− 8·6	2	9	
		6032	0·715	80·9	105·6	+ 6·7	8	56	
		6032	0·730	81·2	104·3	+ 6·6	0	9	365c
		6032	0·752	82·2	102·4	+ 6·0	0	5	
			0·835	89·4	94·3	+ 0·7			90
			0·895	100·6	87·9	− 9·3			154
			0·949	75·2	79·9	+14·1			295
Dec. 4				(+15·1)	(150·7)	(+0·3)	(125)	(925)	(3031)

Group 6032*, December 1. A pair of very small spots.
Group 6031*, December 1–2. One or two very small spots, *s* of Group 6031.
Group 6031, December 1–5. A few very small faint spots in a straight stream.
Group 6032, December 2–8. A few unstable spots in a short, changing stream. The group is not seen on December 6 or 7.
Group 6033, December 4–6. A very small spot.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
338·535	CL, RF		0·830	294·1	186·7	+19·9			102
		6021*b*	0·975	281·9	210·0	+11·7	0	45	227*f*
		6021*c*	0·973	280·7	209·4	+10·4	29	145	
		6024*a*	0·910	288·5	197·3	+16·8	39	218	127*c*
		6031	0·587	256·2	168·2	− 7·8	0	4	
		6031	0·574	256·1	167·3	− 7·7	0	9	
G.		6033	0·168	158·1	129·6	− 8·8	0	4	
		6032	0·469	76·2	106·0	+ 6·6	0	4	
		6032	0·486	76·9	104·9	+ 6·5	0	12	
		6034*a*	0·945	102·6	63·0	−11·9	7	71	506*c*
		6037	0·973	101·2	57·1	−10·9	0	17	
			0·882	77·4	72·1	+11·2			72
Dec. 5				(+14·7)	(133·2)	(+0·2)	(75)	(529)	(1034)
339·504	CL, RF		0·947	244·5	189·5	−24·0			114
			0·929	293·3	186·8	+21·6			167
			0·874	288·3	179·9	+16·0			280
			0·819	300·7	171·0	+24·7			178
		6024*a*	0·980	287·3	198·1	+16·9	28	198	173*f*
G.		6033	0·237	230·4	131·0	− 8·5	0	5	
		6034*a*	0·851	104·0	63·1	−11·8	15	42	
		6037	0·856	101·1	62·3	− 9·4	0	4	
		6037	0·878	101·2	59·7	− 9·8	0	5	750*c*
		6037	0·905	102·2	56·3	−11·0	0	9	
		6037	0·935	102·5	51·9	−11·6	0	10	
Dec. 6				(+14·3)	(120·4)	(+0·1)	(43)	(273)	(1662)
340·464	CL, RF		0·941	291·6	176·4	+20·2			448
			0·923	280·9	174·5	+10·0			58
			0·886	258·5	169·5	−10·2			189
		6036*a*	0·210	10·3	105·6	+11·8	3	10	
G.		6036	0·245	18·8	103·2	+13·3	0	4	
		6034*a*	0·725	106·7	62·7	−12·1	8	35	399*c*
		6037	0·795	104·0	56·2	−11·1	0	8	
			0·919	81·5	41·5	+ 7·8			114
			0·956	69·9	36·2	+19·1			115
Dec. 7				(+13·9)	(107·8)	(−0·1)	(11)	(57)	(1323)
341·205	FS, CL		0·967	291·5	171·9	+20·7			410
			0·926	260·9	165·3	− 8·5			272
			0·926	283·2	165·0	+12·1			142
			0·732	259·1	144·4	− 8·1			94
M.		6035	0·683	290·9	138·9	+13·9	0	9	90*c*
		6035	0·653	292·8	136·3	+14·4	0	10	
		6038	0·603	258·3	134·4	− 7·2	0	6	52*c*
		6038	0·571	257·4	132·0	− 7·3	0	5	
1906.				°	°	°			
341·205	FS, CL	6036*a*	0·254	326·4	106·2	+12·0	0	9	
		6032	0·162	327·3	103·0	+ 7·7	0	4	
		6032	0·138	325·1	102·5	+ 6·3	0	20	
		6039	0·474	69·9	71·3	+ 9·2	0	3	
		6039	0·505	71·8	69·1	+ 8·9	1	9	
		6034*a*	0·609	111·3	62·6	−12·9	9	25	
M.		6037	0·693	106·8	55·5	−11·7	0	9	168*sf*
			0·699	122·8	58·7	−22·4			207
			0·766	62·9	51·5	+20·3			306
			0·840	115·1	43·6	−21·0			353
			0·830	86·2	42·2	+ 3·1			150
			0·841	100·4	41·4	− 8·8			400
			0·879	77·8	37·3	+10·6			133
			0·974	72·4	22·0	+17·1			214
Dec. 8				(+13·5)	(98·0)	(−0·2)	(10)	(109)	(2991)
342·244	AS, CL		0·933	270·8	153·0	+ 0·7			285
			0·919	257·2	150·4	−11·9			322
			0·831	286·4	139·1	+13·4			142
		6038	0·742	260·3	131·6	− 7·4	6	31	204*c*
		6036*a*	0·433	299·2	106·9	+11·9	1	7	
		6039	0·242	51·7	73·3	+ 8·3	1	6	
		6034*a*	0·418	121·4	62·9	−12·8	5	23	
M.		6034	0·477	122·8	59·9	−15·2	0	6	
		6041	0·436	60·6	61·5	+12·0	0	4	
		6041	0·478	63·0	58·6	+12·2	6	16	
		6037	0·537	113·8	54·2	−12·7	0	5	
			0·620	113·7	48·5	−14·6			275
			0·747	82·8	36·4	+ 5·2			132
			0·820	74·1	30·5	+12·8			239
			0·899	84·1	20·6	+ 5·2			156
Dec. 9				(+13·0)	(84·3)	(−0·3)	(19)	(98)	(1755)
343·484	CL, RF		0·896	294·6	129·0	+21·6			127
			0·881	305·4	124·1	+30·3			83
			0·815	283·1	121·6	+10·3			201
			0·804	258·3	120·8	− 9·7			76
		6035	0·954	283·9	139·7	+13·1	11	73	116*c*
		6038	0·901	261·5	131·9	− 7·9	0	29	71*p*
G.		6036	0·579	291·6	101·2	+11·9	0	5	
		6034*a*	0·215	160·1	63·7	−12·1	5	21	
		6034	0·279	154·1	60·8	−15·0	0	4	
		6041	0·270	33·2	59·3	+12·6	2	8	
		6037	0·313	134·9	54·9	−13·2	0	8	
		6037	0·319	130·4	53·7	−12·4	0	22	
Dec. 10				(+12·5)	(68·0)	(−0·5)	(18)	(170)	(674)

Group 6034, December 5–12. Return of Group 6004. A small regular spot, *a*, with a few very small companions on December 9 and the succeeding days.
Group 6037, December 5–13. Return of Group 6006. A cluster of very small spots, *f* Group 6034. The group is not seen on December 12.
Group 6036, December 7–10. A small regular spot, *a*, usually with a very small companion. *a* has disappeared by December 10, but a very small spot is seen *f* the place of the group.
Group 6039, December 8–9. Two very small spots on December 8; one on December 9.
Group 6035, December 8–11. Some small spots in an irregular cluster. The group is not seen on December 9.
Group 6038, December 8–11. A few very small unstable spots.
Group 6041, December 9–14. A few small unstable spots in rapid change.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
344·221	FS, CL		0·969	248·1	133·0	−21·4			187
			0·943	299·0	125·7	+26·9			279
			0·900	262·7	122·2	− 6·9			258
			0·900	284·7	121·3	+12·9			280
			0·816	296·6	109·5	+21·0			237
			0·732	284·1	104·2	+ 9·9			331
		6035	0·986	283·6	138·0	+13·3	0	69	191*f*
		6038	0·960	262·5	131·8	− 7·4	0	28	132*c*
		6034*a*	0·216	206·6	63·9	−11·7	3	11	
		6034	0·240	189·3	60·6	−14·3	0	10	
M.		6034	0·251	185·7	59·8	−15·0	0	5	
		6044	0·195	345·1	61·2	+10·3	3	15	
		6044	0·206	350·7	60·2	+11·1	0	10	
		6041	0·234	357·2	59·0	+12·9	0	4	
		6041	0·215	357·4	58·9	+11·8	0	8	
		6037*	0·061	159·1	57·1	− 3·9	0	3	
		6037	0·217	158·7	53·7	−12·2	0	9	
		6042	0·962	76·1	345·0	+13·2	4	30	278*c*
			0·939	66·5	350·6	+21·7			128
			0·938	106·5	349·5	−15·7			148
Dec. 11				(+12·2)	(58·3)	(−0·6)	(10)	(202)	(2449)
345·522	CL, RF		0·910	288·9	104·9	+16·8			149
			0·899	278·4	104·6	+ 7·3			199
		6043	0·804	293·8	91·8	+18·5	0	11	
		6043	0·768	294·7	88·2	+18·2	0	6	
		6034*a*	0·425	242·4	63·6	−12·0	0	5	
		6044	0·420	296·4	63·5	+10·1	0	11	
		6044	0·394	296·2	62·0	+ 9·3	0	11	
		6044	0·384	298·8	61·0	+10·0	4	17	
		6041	0·393	304·4	60·4	+12·1	0	5	
G.		6041	0·357	306·8	58·0	+11·7	0	2	
		6042*	0·363	60·3	22·5	+ 9·7	0	5	
		6042*	0·394	61·7	20·6	+10·1	0	4	
		6042	0·811	74·2	348·3	+12·3	15	49	
		6042	0·818	73·3	347·7	+13·1	4	21	178*c*
		6042	0·834	73·3	346·1	+13·4	0	22	
		6042	0·869	73·8	342·1	+13·7	8	48	
		6046*a*	0·978	105·5	323·6	−15·3	91	876	326*c*
		6045*a*	0·981	75·6	323·0	+14·0	17	192	361*p*
Dec. 12				(+11·7)	(41·1)	(−0·7)	(139)	(1285)	(1213)
346·124	AS, CL		0·934	282·2	101·4	+11·1			385
			0·883	257·8	94·6	−11·1			126
K.			0·720	295·5	75·9	+17·4			186
		6043	0·878	291·6	92·3	+18·4	0	6	248*c*
		6043	0·849	292·3	88·8	+18·3	0	7	
1906.				°	°	°			
346·124	AS, CL	6044	0·553	290·1	64·9	+10·2	4	14	
		6044	0·519	289·8	62·7	+ 9·4	0	6	
		6044	0·495	291·1	61·0	+ 9·5	0	3	
		6044	0·498	292·5	61·0	+10·3	3	14	144*c*
		6041	0·498	296·4	60·2	+12·1	4	31	
		6041	0·474	295·1	59·0	+10·9	0	6	
		6041	0·457	297·5	57·5	+11·4	0	15	
		6037	0·428	242·4	55·9	−12·1	0	4	
		6042*	0·249	42·9	23·3	+ 9·8	0	7	
K.		6042	0·726	71·7	348·4	+12·6	16	90	
		6042	0·754	71·1	346·2	+13·6	0	3	
		6042	0·753	73·4	345·9	+11·9	5	15	306*c*
		6042	0·780	73·3	343·5	+12·4	0	22	
		6042	0·797	72·0	342·1	+13·8	8	79	
		6045*a*	0·947	74·6	323·0	+14·3	23	244	496*c*
		6046*a*	0·938	105·6	324·2	−14·9	144	843	386*c*
		6046	0·966	107·5	318·9	−17·1	0	15	
			0·795	62·1	344·5	+21·3			205
Dec. 13				(+11·4)	(33·2)	(−0·8)	(207)	(1424)	(2482)
347·148	FS, CL		0·910	288·7	83·4	+16·5			415
			0·851	265·6	77·7	− 4·2			284
			0·807	285·0	72·1	+11·5			134
			0·742	252·1	66·1	−13·8			414
			0·670	238·3	57·2	−21·3			154
		6044	0·741	285·2	66·1	+10·6	0	6	
		6044	0·704	284·8	63·1	+ 9·7	1	7	
		6044	0·685	285·7	61·5	+10·0	5	21	
		6041	0·686	289·1	61·0	+12·3	0	3	260*c*
		6041	0·666	292·0	58·9	+13·7	0	3	
		6041	0·653	290·8	58·2	+12·7	8	35	
		6041	0·634	289·3	57·1	+11·4	0	3	
		6042	0·560	66·1	348·1	+12·3	20	79	
		6042	0·571	67·8	347·1	+11·7	1	5	
K.		6042	0·606	67·9	344·6	+12·4	3	9	
		6042	0·626	68·5	343·1	+12·6	0	11	
		6042	0·647	68·1	341·7	+13·2	5	48	
		6048	0·770	71·6	331·1	+13·4	2	6	
		6048	0·771	72·6	330·8	+12·7	0	7	81*c*
		6048	0·791	72·8	329·0	+12·9	0	6	
		6045	0·850	71·5	323·2	+15·1	0	23	301*f*
		6045*a*	0·853	72·7	322·7	+14·2	27	177	
		6046*a*	0·844	108·0	323·4	−15·6	145	837	
		6046	0·882	108·5	319·0	−16·6	0	18	544*c*
		6046	0·893	108·9	317·6	−17·2	0	13	
			0·708	63·3	338·1	+17·8			120
			0·803	67·8	328·7	+17·1			125
			0·885	67·0	319·8	+19·8			133
			0·972	105·6	303·6	−15·4			197
Dec. 14				(+10·9)	(19·6)	(−0·9)	(217)	(1317)	(3162)

Group 6037*, December 11. A very small spot, *np* Group 6037.
Group 6044, December 11–16. A few small unstable spots, *sp* Group 6041. The two groups form together an irregular straggling stream from December 11 to December 13.
Group 6042, December 11–22. A fine straight stream in constant change.
Group 6042*, December 12–13. A pair of very small spots forming midway between Groups 6041 and 6042.
Group 6043, December 12–13. A few very small unstable spots.
Group 6045, December 12–25. Return of Group 6019. A large regular spot, *a*, with occasionally several very small companions.
Group 6046, December 12–25. A very large composite spot, *a*, behind which a fine train of spots gradually forms. The train undergoes many changes.
Group 6048, December 14–22. A stream of spots forming between Groups 6042 and 6045. The group undergoes great changes, but gradually becomes a straight stream parallel to the equator.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
348·217	FS, AS		0·961	290·6	78·0	+19·5			353
			0·944	280·3	75·6	+ 9·4			141
			0·893	237·3	64·9	−29·3			164
			0·853	253·5	63·1	−14·6			529
			0·798	286·8	57·0	+12·7			163
			0·759	254·0	53·8	−12·7			175
			0·715	239·3	47·0	−22·1			213
		6044	0·867	282·8	64·7	+10·6	0	11	258*c*
		6047	0·494	275·6	34·9	+ 1·9	9	32	
		6047	0·485	277·6	34·2	+ 2·8	0	13	
		6047*a*	0·445	277·7	31·7	+ 2·5	13	49	
		6042	0·366	52·2	348·5	+12·0	6	26	
		6042	0·378	55·3	347·2	+11·4	11	78	
		6042	0·405	55·2	345·8	+12·4	3	35	
K.		6042	0·403	57·2	345·5	+11·6	0	6	
		6042	0·428	58·6	343·8	+11·9	3	36	
		6042	0·461	59·7	341·6	+12·6	7	62	
		6048	0·603	66·9	331·1	+12·8	32	133	
		6048	0·630	64·7	329·7	+14·7	3	15	
		6048	0·635	67·6	328·7	+13·1	0	20	152*c*
		6048	0·633	70·4	328·3	+11·4	9	44	
		6048	0·655	70·3	326·7	+12·0	0	19	
		6046*a*	0·698	112·2	323·5	−16·0	157	856	429*c*
		6045*a*	0·711	69·4	322·5	+13·7	27	182	155*c*
			0·780	68·0	316·9	+16·3			269
			0·863	121·2	309·8	−27·1			146
			0·889	70·0	304·8	+17·2			258
			0·927	103·5	298·2	−12·9			197
			0·970	114·5	290·7	−24·0			280
Dec. 15				(+10·4)	(5·6)	(−1·0)	(280)	(1617)	(3882)
349·125	CL, AS		0·986	285·8	73·0	+15·3			148
			0·939	254·7	62·8	−14·7			399
			0·903	283·9	57·0	+12·0			183
			0·866	255·7	52·8	−13·0			335
			0·789	248·5	43·7	−17·5			153
			0·707	241·0	34·9	−20·9			116
		6044	0·962	280·7	67·0	+ 9·9	0	16	214*f*
		6047	0·676	273·4	35·9	+ 1·5	3	16	
		6047	0·658	272·1	34·5	+ 0·5	0	8	
K.		6047	0·637	273·9	32·9	+ 1·6	0	4	99*c*
		6047*a*	0·619	275·3	31·5	+ 2·4	13	73	
		6042	0·238	21·5	348·5	+11·6	18	103	
		6042	0·263	26·2	346·8	+12·4	2	13	
		6042	0·257	31·7	345·7	+11·4	0	1	
		6042	0·278	32·1	344·9	+12·4	9	56	
		6042	0·283	35·7	343·9	+12·1	5	11	
		6042	0·307	38·5	342·4	+12·7	8	48	
		6048	0·431	53·7	332·8	+13·6	18	110	
1906.				°	°	°			
349·125	CL, AS	6048	0·447	54·5	331·7	+13·8	0	7	
		6048	0·441	57·1	331·4	+12·7	18	90	
		6048	0·448	59·0	330·6	+12·2	1	9	
		6048	0·485	54·3	329·6	+15·3	3	18	
		6048	0·472	57·6	329·5	+13·6	1	12	
		6048	0·468	61·8	328·8	+11·6	12	49	
		6048	0·490	56·8	328·7	+14·4	7	29	
		6048	0·500	62·9	326·6	+12·1	3	14	
		6048	0·519	63·9	325·3	+12·1	0	2	
		6045	0·546	66·1	323·1	+11·7	0	2	
		6045	0·566	60·6	323·0	+15·1	2	12	
K.		6045*a*	0·564	62·7	322·6	+14·0	21	150	
		6046	0·528	113·4	323·9	−13·1	0	3	
		6046*a*	0·553	117·4	323·1	−15·7	142	708	
		6046	0·600	116·1	319·6	−16·3	0	11	
		6046	0·626	117·4	318·1	−17·7	0	8	
		6046*	0·882	99·6	292·1	− 9·1	0	8	85*c*
			0·719	59·6	312·3	+20·4			113
			0·752	77·0	305·9	+ 8·9			128
			0·837	70·4	298·9	+15·6			145
			0·846	89·4	296·0	− 0·1			143
			0·857	107·4	295·7	−15·5			124
			0·929	117·2	287·4	−25·6			398
Dec. 16				(+10·1)	(353·6)	(−1·2)	(286)	(1591)	(2783)
350·226	FS, AS		0·981	283·6	57·0	+13·0			223
			0·948	253·1	49·8	−16·4			398
			0·889	277·9	41·3	+ 6·5			107
			0·824	259·0	34·1	− 9·8			156
		6047	0·837	272·3	35·6	+ 1·3	0	18	
		6047*a*	0·805	274·7	32·3	+ 3·0	10	54	162*c*
		6047	0·797	272·8	31·7	+ 1·5	0	4	
		6042	0·282	323·7	348·9	+11·8	14	71	
		6042	0·256	327·4	347·1	+11·1	0	12	
		6042	0·291	332·5	347·0	+13·6	0	16	
		6042	0·255	341·5	343·8	+12·7	29	117	
		6048	0·280	27·3	331·6	+13·1	39	260	
M.		6048	0·318	32·0	329·1	+14·3	0	11	
		6048	0·300	35·0	329·0	+12·9	5	49	
		6048	0·325	34·5	328·2	+14·3	0	4	
		6048	0·290	40·8	328·0	+11·4	0	10	
		6045	0·318	44·1	326·1	+11·9	0	10	
		6045*a*	0·384	48·5	322·0	+13·4	18	161	
		6046	0·392	142·7	324·6	−19·3	0	4	
		6046	0·340	130·6	323·7	−14·0	0	15	
		6046	0·412	141·1	323·2	−19·9	0	12	
		6046*a*	0·378	135·0	323·0	−16·7	139	622	
		6046	0·372	125·3	321·0	−13·6	0	7	
		6046	0·423	131·5	319·8	−17·5	0	7	

Group 6047, December 15–18. A straggling changing stream of which, *a*, the last spot is the largest and most stable member.
Group 6046*, December 16. A few small faint spots, *nf* Group 6046.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
350·226	FS, AS	6046	0·452	130·2	317·9	−18·1	0	11	
		6046	0·429	123·6	317·5	−14·9	13	68	
		6046	0·463	125·4	316·0	−16·7	4	12	
		6046	0·465	123·4	315·4	−16·0	2	14	
M.		6046	0·488	125·1	314·5	−17·4	6	17	
			0·828	122·4	287·5	−27·1			429
			0·910	74·8	274·9	+13·3			212
			0·950	117·5	269·2	−26·4			373
Dec. 17				(+9·5)	(339·1)	(−1·3)	(279)	(1586)	(2060)
351·209	CL, AS		0·913	256·3	31·5	−13·1			240
		6047*a*	0·911	273·6	31·4	+ 2·7	7	32	246*p*
		6042	0·443	295·4	349·9	+ 9·6	8	40	
		6042	0·448	300·6	349·2	+11·9	22	94	
		6042	0·423	294·2	349·0	+ 8·7	0	10	
		6042	0·419	299·4	347·8	+10·6	4	26	
		6042	0·438	305·8	347·4	+13·5	7	58	
		6042	0·399	299·8	346·6	+10·1	0	6	
		6042	0·412	307·6	345·6	+13·2	0	18	
		6042	0·395	309·3	344·3	+13·1	30	210	
		6048	0·275	337·7	332·2	+13·3	10	134	
		6048	0·259	343·4	330·4	+12·9	15	80	
		6048	0·262	351·2	328·5	+13·6	5	53	
		6048	0·237	359·0	326·3	+12·3	0	6	
M.		6045*a*	0·268	15·3	321·9	+13·5	23	135	
		6046	0·232	174·6	324·8	−14·7	0	5	
		6046*a*	0·269	169·1	323·1	−16·7	114	607	
		6046	0·309	158·4	319·3	−18·0	0	36	
		6046	0·276	154·4	319·0	−15·7	10	122	
		6046	0·314	147·1	315·9	−16·6	1	14	
		6046	0·283	141·1	315·6	−14·0	2	21	
		6046	0·301	143·1	315·3	−15·3	0	3	
		6046	0·332	143·9	314·4	−16·9	11	118	
		6049	0·423	46·1	307·7	+15·7	0	9	
			0·754	137·1	287·7	−34·5			432
			0·738	125·4	284·1	−26·3			540
			0·858	117·6	269·9	−24·2			344
			0·935	123·3	260·0	−31·4			509
			0·918	94·7	259·7	− 4·9			123
Dec. 18				(+9·0)	(326·1)	(−1·4)	(269)	(1837)	(2434)
352·136	CL, M		0·981	270·7	32·5	+ 0·4			144
		6042	0·622	284·9	351·1	+ 8·0	14	88	
		6042	0·624	289·2	350·6	+10·6	0	11	
K.		6042	0·602	284·4	349·8	+ 7·4	0	2	
		6042	0·612	291·0	349·4	+11·4	25	128	
		6042	0·597	287·6	349·0	+ 9·2	0	5	
		6042	0·587	286·7	348·4	+ 8·5	0	7	
		6042	0·603	293·4	348·3	+12·6	0	11	
1906.				°	°	°			
352·136	CL, M	6042	0·591	289·7	348·2	+10·2	9	89	
		6042	0·570	289·4	346·8	+ 9·6	8	58	
		6042	0·577	294·0	346·4	+12·3	0	2	
		6042	0·565	293·4	345·7	+11·7	0	8	
		6042	0·570	295·3	345·7	+12·8	0	17	
		6042	0·549	295·0	344·4	+12·1	31	171	
		6042	0·532	297·0	342·9	+12·7	0	7	
		6048	0·400	307·9	332·7	+12·8	9	66	
		6048	0·371	310·7	330·6	+12·6	11	63	
		6048	0·381	315·8	329·7	+14·4	0	7	
		6048	0·357	314·5	329·0	+13·0	8	45	
		6045	0·280	325·3	323·2	+11·8	0	2	
		6045*a*	0·294	330·4	322·4	+13·3	26	160	
		6045	0·254	328·7	321·6	+11·0	0	2	
		6045	0·270	330·9	321·6	+12·1	0	3	
		6046	0·300	219·7	325·3	−14·8	0	1	
		6046	0·294	214·7	323·9	−15·4	2	7	
K.		6046*a*	0·294	205·3	321·4	−16·9	124	661	
		6046	0·248	199·5	318·8	−15·0	2	12	
		6046	0·299	195·6	318·7	−18·2	3	23	
		6046	0·286	196·2	318·7	−17·4	0	2	
		6046	0·252	194·1	317·5	−15·6	0	3	
		6046	0·266	189·5	316·5	−16·6	1	8	
		6046	0·202	189·7	315·9	−13·0	0	6	
		6046	0·211	186·4	315·3	−13·6	1	10	
		6046	0·225	184·7	315·0	−14·4	0	2	
		6046	0·265	180·3	314·0	−16·8	18	112	
		6049	0·280	9·8	311·1	+14·5	4	12	
		6049	0·298	22·1	307·3	+14·5	0	4	
		6051*a*	0·973	68·0	239·0	+21·0	15	88	189*f*
			0·716	136·4	278·2	−32·4			199
			0·829	121·3	261·8	−26·4			317
			0·925	104·3	246·8	−13·8			129
			0·961	74·8	241·1	+14·2			74
Dec. 19				(+8·6)	(313·9)	(−1·5)	(311)	(1903)	(1052)
353·140	RF, M		0·862	263·4	0·0	− 6·6			87
			0·834	253·9	356·3	−14·3			49
		6042	0·793	280·7	352·3	+ 7·4	7	34	
		6042	0·786	283·6	351·3	+ 9·6	0	6	
		6042	0·777	283·2	350·5	+ 9·1	10	120	
		6042	0·773	287·8	349·5	+12·6	0	16	
		6042	0·764	287·9	348·6	+12·4	0	5	
K.		6042	0·749	284·9	347·8	+ 9·9	0	2	*340*c*
		6042	0·745	283·7	347·6	+ 9·0	0	4	
		6042	0·749	287·0	347·5	+11·4	39	305	
		6042	0·743	288·3	346·7	+12·3	0	3	
		6042	0·731	288·7	345·7	+12·4	0	5	
		6042	0·717	288·4	344·6	+11·8	28	155	

Group 6049, December 18–25. A very small spot, *f* Group 6045 on December 18. The group has developed suddenly by December 21 into a fine stream of which *a* and *b*, two large spots, are the principal members. On December 25, the spots 6045*a* and 6049*a* appear as if fused together by the effect of the excessive foreshortening. They have been therefore measured as a single object, and the positions and areas of the two separate spots have been inferred from the one measure by estimation.

Group 6051, December 19–29. A regular spot, *a*, with occasionally one or two very small companions.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
353·140	RF, M	6048	0·569	295·4	332·4	+12·7	5	14	
		6048	0·542	294·5	330·8	+11·5	0	1	
		6048	0·542	296·5	330·4	+12·5	8	31	
		6048	0·537	299·7	329·3	+13·9	0	2	
		6048	0·524	298·5	328·8	+13·0	3	21	
		6045*a*	0·444	~~295·2~~	~~324·6~~	+ ~~0·8~~	22	122	
		6046	0·478	226·4	322·3	−20·8	1	5	
		6046*a*	0·423	230·5	320·6	−17·2	116	649	
		6046	0·444	226·2	320·5	−19·5	0	10	
		6046	0·386	227·8	318·0	−16·6	0	2	
K.		6046	0·386	226·1	317·5	−17·1	0	4	
		6046	0·363	222·9	315·6	−17·1	4	25	
		6046	0·361	220·0	314·7	−17·7	0	5	
		6046	0·341	219·2	313·7	−16·9	7	103	
		6049	0·316	325·8	311·2	+13·4	2	9	
		6049	0·304	325·9	310·7	+12·9	0	1	
		6049	0·297	334·7	308·2	+13·8	0	7	
		6051*a*	0·901	65·7	239·4	+20·9	26	120	631*f*
			0·909	73·4	236·9	+14·3			94
Dec. 20				(+8·2)	(300·7)	(−1·7)	(278)	(1786)	(1201)
354·296	AS, RF		0·915						72
			0·884						91
			0·776						118
			0·603						80
		6042	0·933				0	10	
		6042	0·905				0	25	
		6042	0·901				111	815	
		6042	0·894				0	2	
		6042	0·869				0	6	403*c*
		6042	0·870				8	39	
		6042	0·864				0	13	
		6042	0·843				0	2	
		6048	0·750				0	8	
		6048	0·745				0	2	192*c*
D.		6048	0·737				9	35	
		6045*a*	0·645				18	131	
		6045	0·642				0	3	83*c*
		6045	0·621				0	3	
		6045	0·641				1	4	
		6046	0·660				0	10	
		6046	0·663				0	3	
		6046	0·671				0	4	
		6046	0·621				0	5	
		6046	0·651				0	4	
		6046*a*	0·621				154	676	
		6046	0·631				0	5	
		6046	0·596				1	4	
		6046	0·584				0	10	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
354·296	AS, RF	6046	0·577				3	10	
		6046	0·573				1	9	
		6046	0·550				15	60	
		6046	0·536				11	91	
		6049*a*	0·529				20	142	
		6049	0·510				0	5	
		6049	0·489				0	5	
		6049	0·476				1	6	
		6049	0·487				2	7	
		6049*b*	0·457				29	160	
		6049	0·468				1	6	
D.		6049	0·426				1	5	
		6049	0·416				4	13	
		6051*a*	0·775				18	119	97*c*
		6053	0·847				0	15	
		6052	0·900				0	8	881*c*
		6052*a*	0·928				17	98	
		6052	0·936				0	12	
			0·907						176
			0·961						86
			0·974						196
Dec. 21				(+7·7)	(285·6)	(−1·9)	(425)	(2590)	(2475)
355·468	CL, RF		0·797	300·9	317·8	+22·8			94
			0·662	217·4	298·8	−33·4			347
		6042	0·994	279·6	353·2	+ 9·3	0	84	
		6042	0·991	280·6	351·6	+10·2	0	115	
		6042	0·978	279·5	347·4	+ 8·9	0	32	417*c*
		6042	0·974	282·7	346·0	+11·9	49	434	
		6048	0·882	286·5	330·3	+13·5	0	5	198*c*
		6045*a*	0·819	288·7	323·0	+14·0	13	129	69*c*
		6046*a*	0·793	251·3	321·2	−15·9	145	731	
		6046	0·761	253·8	318·7	−13·6	0	23	
		6046	0·769	248·4	318·5	−17·7	0	4	
		6046	0·751	249·3	317·1	−16·8	0	13	328*c*
G.		6046	0·738	254·2	316·7	−13·0	6	34	
		6046	0·737	248·9	315·8	−16·8	0	5	
		6046	0·719	248·4	314·2	−16·8	9	78	
		6049*a*	0·753	291·5	316·3	+14·6	32	181	
		6049	0·724	293·1	313·5	+15·0	12	75	
		6049	0·698	292·7	311·5	+14·1	0	2	
		6049	0·704	295·4	311·4	+16·0	3	20	
		6049	0·661	290·8	309·1	+12·0	0	2	98*c*
		6049	0·648	293·5	307·6	+13·3	0	3	
		6049	0·660	298·1	307·3	+16·5	0	2	
		6049*b*	0·646	295·8	306·9	+14·7	38	263	
		6051	0·582	54·2	240·4	+18·1	0	1	
		6051*a*	0·601	52·6	239·8	+19·7	13	92	

December 21. The orientation of the photograph taken at Dehra Dûn on this day appears to be in error.
Group 6052, December 21–25. Return of Group 6026. A regular spot, *a*, with some very small distant and unstable companions, *f* Group 6051. *a* rapidly diminishes in size.
Group 6053, December 21–31. A rapidly changing stream of spots forming between Groups 6051 and 6052. The group becomes one large, complex, and almost continuous stream.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
355·468	CL, RF	6053	0·721	63·4	227·8	+17·4	5	20	
		6053	0·746	62·3	226·0	+18·8	5	29	
		6053	0·761	63·7	224·3	+18·3	3	13	688c
		6052a	0·805	63·1	220·5	+20·0	5	25	
		6052	0·846	66·8	215·3	+18·3	0	2	
G.		6052	0·853	65·2	214·9	+19·8	2	6	
			0·876	78·1	210·0	+ 9·4			123
			0·958	74·5	198·0	+14·3			245
			0·961	87·9	196·5	+ 1·5			133
Dec. 22				(+7·1)	(270·1)	(−2·0)	(340)	(2423)	(2740)
356·235	FS, AS		0·959	286·2	332·1	+14·9			410
		6045a	0·906	287·3	323·2	+14·7	14	109	193c
		6046a	0·894	251·8	322·5	−17·2	41	255	
		6046a	0·883	254·3	321·3	−14·8	89	472	
		6046	0·885	248·9	321·0	−19·6	0	4	
		6046	0·882	250·7	320·9	−18·0	0	8	
		6046	0·868	255·6	319·6	−13·5	0	10	660c
		6046	0·864	256·6	319·3	−12·7	0	4	
		6046	0·850	256·9	317·7	−12·2	4	39	
		6046	0·851	251·0	317·2	−17·2	2	14	
		6046	0·829	251·6	314·9	−16·4	7	61	
		6049a	0·862	288·8	317·5	+15·0	29	193	
		6049	0·839	289·9	314·7	+15·4	11	51	
		6049	0·832	290·7	313·8	+15·9	0	13	337c
		6049	0·816	291·9	311·9	+16·4	2	20	
M.		6049b	0·765	292·1	307·1	+15·3	43	312	122c
		6051a	0·494	42·3	239·4	+19·4	14	99	129c
		6051	0·544	43·7	236·3	+21·1	0	9	
		6053	0·597	57·9	228·3	+16·7	37	182	
		6053	0·613	59·9	226·6	+16·1	0	6	
		6053	0·635	56·0	226·3	+19·0	0	4	
		6053	0·633	57·4	226·0	+18·2	6	43	119c
		6053	0·633	59·3	225·4	+17·1	10	50	
		6053	0·658	57·5	224·2	+18·9	3	10	
		6052a	0·707	59·5	220·0	+19·3	8	18	338c
		6052	0·762	61·9	214·7	+19·5	0	5	
			0·668	49·3	226·5	+24·0			356
			0·813	75·3	207·1	+10·7			235
			0·948	70·7	190·5	+17·5			566
Dec. 23				(+6·7)	(260·0)	(−2·1)	(320)	(1991)	(3465)
357·230	FS, CL		0·817	254·7	300·9	−13·7			102
		6045a	0·975	285·7	322·8	+14·7	11	87	
		6046a	0·961	254·5	320·6	−15·5	116	765	
		6046	0·944	256·1	317·3	−13·8	0	16	
M.		6046	0·943	257·8	317·3	−12·3	0	23	850c
		6046	0·941	252·4	316·6	−17·3	0	6	
		6046	0·932	253·3	315·1	−16·3	0	11	
		6049a	0·952	286·0	317·6	+14·5	44	257	
1906.				°	°	°			
357·230	FS, CL	6049	0·943	285·0	316·1	+13·4	0	31	
		6049	0·936	287·0	314·6	+15·0	0	33	
		6049	0·918	288·2	311·6	+15·7	0	39	668c
		6049	0·904	287·2	309·8	+14·5	0	18	
		6049b	0·889	288·9	307·5	+15·6	26	183	
		6049	0·876	287·9	306·1	+14·4	0	16	
		6051a	0·387	17·7	239·8	+19·4	12	88	
		6053	0·449	43·3	228·2	+16·9	42	316	
		6053	0·490	42·7	226·4	+19·0	0	5	
M.		6053	0·459	49·0	225·9	+15·4	0	3	
		6053	0·494	47·7	224·5	+17·4	52	243	
		6052	0·557	46·7	221·4	+20·4	0	4	
		6052	0·570	49·9	219·5	+19·5	0	8	
			0·639	55·7	213·1	+19·2			115
			0·688	74·0	205·0	+ 9·3			272
			0·867	58·8	191·9	+25·4			118
			0·889	67·5	187·0	+18·7			671
			0·927	105·2	179·4	−14·9			221
Dec. 24				(+6·2)	(246·9)	(−2·2)	(303)	(2152)	(3017)
358·128	AS, M		0·896	255·4	298·2	−14·1			123
			0·818	238·6	286·3	−26·6			255
		6046a	0·994	253·9	319·1	−16·3	61	857	662f
		6045a	0·999	283·3	321·9	+13·2	20	100	
		6049a	0·994	283·3	317·8	+12·9	48	268	
		6049	0·986	284·7	314·4	+14·1	6	69	
		6049	0·971	285·2	309·9	+14·1	0	12	410c
		6049	0·969	284·2	309·6	+13·1	0	8	
		6049b	0·964	286·5	308·2	+15·2	16	139	
		6049	0·962	285·2	307·9	+14·0	0	36	
		6051a	0·383	345·6	240·9	+19·4	13	69	
		6053	0·348	15·3	229·6	+17·2	51	299	
		6053	0·416	16·5	227·9	+21·2	0	4	
		6053	0·338	22·7	227·3	+15·8	0	1	
K.		6053	0·369	21·3	227·0	+17·8	1	24	
		6053	0·394	21·9	226·2	+19·1	0	3	
		6053	0·343	27·2	225·8	+15·4	0	2	
		6053	0·400	24·0	225·2	+19·1	1	4	
		6053	0·380	26·9	224·8	+17·4	49	198	
		6053	0·397	28·9	223·5	+18·0	0	11	
		6053	0·432	28·0	222·7	+20·1	0	2	
		6052a	0·445	32·2	220·6	+19·8	0	7	
		6052	0·487	30·2	219·8	+22·6	0	2	
		6052	0·466	42·4	215·9	+17·9	2	8	
		6054	0·851	102·1	177·2	−11·5	0	3	84c
		6054	0·867	102·1	175·4	−11·6	0	3	
			0·855	61·8	180·6	+22·5			567
			0·932	70·5	168·4	+17·2			108
Dec. 25				(+5·9)	(235·1)	(−2·3)	(268)	(2129)	(2209)

Group 6054, December 25–27. A pair of very small spots on December 25. A small regular spot, *a*, followed by a distant companion, *b*, on December 26.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
359·241	AS, CL		0·945	252·3	290·9	−17·5			283
			0·908	238·4	282·9	−29·5			431
			0·793	238·4	269·0	−26·2			145
		6055*a*	0·872	262·0	280·9	− 8·2	2	10	137*c*
		6055*b*	0·855	261·1	278·9	− 8·9	2	9	
		6051*a*	0·499	318·9	240·7	+19·7	6	36	
		6053	0·365	339·2	228·2	+17·4	48	339	
		6053	0·340	344·5	225·8	+16·6	0	3	
		6053	0·369	350·8	224·0	+18·7	0	13	
		6053	0·346	351·1	223·6	+17·4	33	186	
M.		6053	0·384	352·4	223·5	+19·8	1	6	
		6053	0·359	354·4	222·5	+18·3	0	5	
		6053	0·389	355·7	222·2	+20·3	0	6	
		6053	0·373	355·9	222·0	+19·2	2	10	
		6054*a*	0·687	106·2	178·0	−12·9	3	12	83*c*
		6054*b*	0·720	105·7	175·2	−13·0	0	7	
			0·710	53·4	182·3	+23·0			196
			0·844	60·7	167·6	+22·8			302
			0·971	77·3	145·3	+11·7			527
			0·986	97·0	140·0	− 7·3			546
Dec. 26				(+5·3)	(220·4)	(−2·5)	(97)	(642)	(2650)
360·311	FS, AS		0·963	238·9	279·2	−30·5			189
			0·911	260·9	271·8	− 9·4			166
			0·919	287·9	271·1	+15·3			186
			0·910	246·5	270·6	−22·4			306
			0·837	235·4	258·8	−30·0			297
		6051*a*	0·656	305·0	241·0	+20·0	3	18	52*c*
		6051	0·649	307·5	239·6	+21·0	0	4	
		6053	0·520	312·3	230·1	+18·0	31	158	
		6053	0·477	312·4	227·7	+16·3	0	2	
		6053	0·504	316·7	227·7	+19·0	2	15	
		6053	0·493	315·2	227·6	+18·0	9	86	
M.		6053	0·488	317·4	226·6	+18·5	2	12	
		6053	0·465	316·7	225·7	+17·3	0	28	
		6053	0·475	323·8	223·6	+20·0	25	166	
		6053	0·452	321·8	223·3	+18·2	30	157	
		6053	0·455	326·7	221·6	+19·8	2	13	
		6053	0·438	330·8	219·4	+19·8	0	7	
		6054*a*	0·477	110·9	179·3	−12·1	4	13	
		6056	0·876	73·7	146·9	+12·9	4	20	455*c*
			0·747	52·6	165·6	+25·0			294
			0·856	106·5	148·2	−15·4			90
			0·928	96·6	138·3	− 7·1			367
			0·941	71·3	138·1	+16·6			403
Dec. 27				(+4·8)	(206·3)	(−2·6)	(112)	(699)	(2805)
Dec. 28		No	Photo	graph					
1906.				°	°	°			
362·132	FS, AS		0·960	271·7	255·7	+ 0·8			183
			0·959	242·1	254·9	−27·5			224
			0·851	285·8	238·9	+11·9			132
			0·830	304·0	232·0	+25·8			239
		6051*a*	0·883	293·1	241·2	+18·8	0	9	173*c*
		6053	0·780	295·3	229·8	+17·5	24	145	
		6053	0·759	295·5	227·9	+17·1	0	11	
		6053	0·742	295·9	226·4	+16·9	4	56	
		6053	0·744	297·8	226·0	+18·2	4	62	
		6053	0·727	297·1	224·8	+17·2	0	19	200*c*
		6053	0·715	299·7	223·1	+18·6	0	9	
		6053	0·702	297·3	222·8	+16·6	0	2	
K.		6053	0·704	298·5	222·5	+17·4	0	18	
		6053	0·714	301·5	222·4	+19·7	0	14	
		6056	0·604	63·3	148·8	+13·4	0	6	
		6056	0·597	66·1	148·6	+11·7	0	2	
		6056	0·628	62·9	147·2	+14·3	0	4	57*c*
		6056	0·642	64·5	145·8	+13·7	0	8	
		6057	0·849	98·5	124·4	− 8·7	0	8	108*c*
		6059	0·965	80·5	108·3	+ 8·4	80	506	
		6059	0·977	81·9	105·3	+ 7·3	9	114	505*c*
		6059	0·990	83·1	101·1	+ 6·5	14	136	
		6059	0·992	80·9	100·3	+ 8·7	23	363	
			0·704	97·0	137·7	− 6·9			91
Dec. 29				(+3·9)	(182·3)	(−2·8)	(158)	(1492)	(1912)
363·270	FS, CL		0·941	295·1	234·3	+22·4			317
			0·923	302·8	229·2	+28·6			267
			0·829	266·0	223·2	− 5·0			88
			0·852	303·2	219·6	+25·9			187
			0·767	298·4	212·7	+19·2			168
		6053	0·910	292·4	229·9	+18·9	26	148	398*c*
		6053	0·884	292·2	226·5	+18·0	4	61	
		6053	0·886	293·9	226·4	+19·5	6	40	
		6060	0·561	302·6	196·5	+15·0	0	13	
		6060	0·532	306·4	193·6	+15·7	2	8	
		6056	0·434	49·4	147·6	+13·6	2	8	
		6056	0·460	52·2	145·4	+13·5	0	4	
M.		6058	0·617	95·0	129·3	− 5·5	5	13	125*c*
		6059*a*	0·861	79·9	108·9	+ 7·1	83	465	261*c*
		6059	0·878	80·8	106·8	+ 6·6	5	33	
		6059	0·884	81·8	106·0	+ 5·8	5	40	
		6059	0·900	81·1	104·0	+ 6·7	0	4	
		6059	0·916	80·6	101·9	+ 7·4	15	182	
		6059	0·915	83·0	101·7	+ 5·2	7	51	559*c*
		6059	0·932	79·5	99·6	+ 8·6	8	70	
		6059	0·934	81·8	99·0	+ 6·6	57	295	
			0·688	102·8	124·4	−11·0			75
			0·903	68·6	105·5	+17·8			125
Dec. 30				(+3·3)	(167·3)	(−3·0)	(225)	(1435)	(2570)

Group 6055, December 26. A pair of small spots, *a* and *b*.
Group 6056, 1906 December 27–1907 January 3. A number of spots, most of them very small, in a short irregular stream. The group is not seen on 1906 December 31 and 1907 January 2.
Group 6057, December 29. A close pair of very small spots.
Group 6059, 1906 December 29–1907 January 9. A magnificent stream, chiefly composed of two very large composite spots, *a* and *b*. Of these *a* has become regular in form by January 3, and *b* has broken up, and the group has taken the form of a great circular leader spot, followed by a long straight train of small spots.
Group 6058, 1906 December 30–1907 January 7. A number of small spots in a straggling stream.
Group 6060, 1906 December 30–31. A few small spots, *sf* Group 6053.

Measures of Positions and Areas of Sun Spots and Faculæ on Photographs—*continued.*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1906.				°	°	°			
364·503	AS, RF		0·881	280·0	212·0	+ 7·3			54
		6053	0·986	289·1	229·9	+18·3	20	99	
		6053	0·974	289·3	226·2	+18·0	20	64	
		6053	0·973	288·2	226·0	+16·9	12	87	438*f*
		6053	0·962	289·8	223·2	+18·1	0	55	
		6060	0·756	291·4	197·5	+13·8	0	2	
		6060	0·743	291·6	196·3	+13·7	2	11	139*c*
G.		6061	0·459	295·0	176·0	+ 8·4	7	20	
		6061	0·418	296·8	173·2	+ 8·0	0	5	
		6061	0·392	294·1	172·2	+ 6·3	0	2	
		6061	0·400	298·8	171·9	+ 8·2	0	6	
		6061	0·360	297·0	170·0	+ 6·5	0	2	
		6062	0·282	120·6	136·9	−11·3	0	5	
		6062	0·300	122·6	136·3	−12·3	0	4	
1906.				°	°	°			
364·503	AS, RF	6062	0·329	120·7	134·4	−12·6	1	6	
		6063	0·415	115·4	128·7	−13·1	0	7	
		6058	0·364	96·8	130·0	− 5·4	5	22	
		6059	0·671	75·0	110·5	+ 7·7	0	3	
		6059*a*	0·693	76·3	108·6	+ 7·1	79	444	
		6059	0·725	73·0	106·6	+10·0	0	9	
		6059	0·725	77·9	105·9	+ 6·6	6	35	376*c*
G.		6059	0·751	79·4	103·5	+ 5·9	0	5	
		6059*b*	0·793	78·3	99·9	+ 7·3	56	488	
			0·829	62·9	99·5	+20·3			162
			0·901	76·2	88·4	+11·0			78
			0·945	69·8	82·7	+17·9			479
			0·949	81·2	80·4	+ 7·4			98
Dec. 31				(+2·7)	(151·2)	(−3·1)	(208)	(1381)	(1824)

Group 6061, 1906 December 31–1907 January 4. A few small unstable spots in a short stream, *sf* Group 6060.
Group 6062, 1906 December 31–1907 January 7. A few small unstable spots, *sp* Group 6058.
Group 6063, 1906 December 31–1907 January 3. A few small unstable spots, *sf* Group 6058 and *f* Group 6062, and forming with the latter group an irregular straggling stream.

ROYAL OBSERVATORY, GREENWICH.

LEDGERS

OF

AREAS AND POSITIONS OF GROUPS OF SUN SPOTS

DEDUCED FROM THE MEASUREMENT

OF THE

SOLAR PHOTOGRAPHS

FOR EACH DAY IN THE YEAR

1906.

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS DEDUCED FOR EACH DAY from the MEASUREMENTS of the PHOTOGRAPHS taken at the ROYAL OBSERVATORY, GREENWICH, at the OBSERVATORY, KODAI-KÁNAL, and at DEHRA DÛN IN INDIA, and at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1906.

NOTE.—The Greenwich Civil Time at which the photograph was taken is expressed by the month, day of the month (civil reckoning), and decimal of a day, reckoned from Greenwich Mean Midnight.

The place where the photograph was taken is indicated in the second Column. A photograph taken at Greenwich is indicated by the letter G, one taken at Kodai-kánal by the letter K, one taken at Dehra Dûn by the letter D, and one taken in Mauritius by the letter M.

The Projected Area of the Umbræ and Whole Spots is the area as it is measured on the photograph, uncorrected for the effect of foreshortening, and expressed in millionths of the Sun's apparent disk.

The Column "Longitude from the Central Meridian" gives the Mean heliographic longitude of the group, reckoned from the meridian passing through the centre of the Sun's disk at the moment of observation; longitudes west of the centre being reckoned as positive.

The decimal of the day is not given for 1906 December 28, no photographic Record being at present available for that date. In this case the means have been taken of the areas and positions of the spot-groups as measured on the day immediately preceding, and that immediately following the day for which the photograph is lacking. These interpolated values are enclosed in brackets, but are used in taking the final means for each spot-group.

Date. Greenwich Civil Time.	Where taken.	Projected Area of		Area for Group.		Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
		Umbra.	Whole Spot.	Umbra.	Whole Spot.			
Group 5768. A very small spot.								
1906. d Jan. 2·279	M	0	6	0	5	° 215·5	° −25·9	° −49·7
Means ...	...	...	...	0	5	215·5	−25·9	...
Group 5769. A regular spot, slowly diminishing in size.								
Jan. 3·218	M	5	33	11	72	176·8	+10·6	−76·1
4·473	G	21	77	21	76	178·2	+10·3	−58·2
5·196	M	14	83	11	65	178·6	+10·7	−48·2
6·261	M	15	99	9	61	179·7	+10·7	−33·2
7·529	G	18	61	10	33	180·3	+ 9·9	−15·8
8·151	K	15	66	8	34	180·8	+ 9·9	− 7·1
9·216	M	4	18	2	9	181·5	+ 9·5	+ 7·6
Means ...	...	...	...	10	50	179·41	+10·23	...
Group 5770. A few small spots forming near the centre of the disc.								
Jan. 5·196	M	0	18	0	9	225·0	+10·4	− 1·8
6·261	M	1	41	1	22	224·1	+11·2	+11·2
7·529	G	0	44	0	27	228·3	+10·9	+32·2
Group 5770—*continued*.								
1906. d Jan. 8·151	K	0	15	0	9	° 230·9	° +10·0	° +43·0
9·216	M	3	15	3	13	228·0	+10·3	+54·1
10·482	G	5	12	7	18	226·0	+11·3	+68·8
Means ...	...	...	...	2	16	227·05	+10·68	...
Group 5771. A very small spot.								
Jan. 5·196	M	0	4	0	6	156·9	+13·1	−69·9
Means ...	...	...	...	0	6	156·9	+13·1	...
Group 5772. Some small spots in a compact little cluster.								
Jan. 6·261	M	2	28	2	22	161·8	+ 6·1	−51·1
7·529	G	5	27	3	17	160·6	+ 5·6	−35·5
8·151	K	3	12	2	7	160·8	+ 6·1	−27·1
Means ...	...	...	...	2	15	161·07	+ 5·93	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5773.

A very small spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Jan. 8·151	K	0	11	0	6	190·5	+ 8·5	+ 2·6
Means ...	...	...	...	0	6	190·5	+ 8·5	...

Group 5774.

A stream of small spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Jan. 8·151	K	0	21	0	38	115·7	+13·7	−72·2
9·216	M	15	67	15	66	116·8	+13·0	−57·1
10·482	G	15	104	11	73	115·9	+12·8	−41·3
11·483	G	5	53	3	32	113·2	+12·1	−30·8
12·256	M	4	33	2	17	113·6	+12·4	−20·3
13·515	G	6	17	3	9	113·2	+11·9	− 4·1
14·499	G	22	103	11	55	114·0	+11·6	+ 9·7
15·448	G	2	39	1	22	115·0	+11·8	+23·1
16·490	G	0	18	0	12	114·0	+11·1	+35·9
Means ...	...	...	...	5	36	114·60	+12·27	...

Group 5775.

Return of Group 5747. A large regular spot, *a*, followed by a short train of spots of which *b*, a composite spot, is the largest. *b* breaks up, and *a* alone remains by January 18. The group lies *sf* Group 5774.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Jan. 8·151	K	15	64	90	392	103·4	+ 9·2	−84·5
9·216	M	47	308	77	509	102·3	+ 8·5	−71·6
10·482	G	100	545	87	487	102·6	+ 8·2	−54·6
11·483	G	135	701	92	477	103·1	+ 7·9	−40·9
12·256	M	120	768	71	459	103·7	+ 8·5	−30·2
13·515	G	142	730	75	384	103·9	+ 7·9	−13·4
14·499	G	134	629	69	324	104·3	+ 8·1	0·0
15·448	G	112	606	60	320	104·4	+ 8·0	+12·5
16·490	G	101	511	58	294	104·2	+ 7·9	+26·1
17·473	G	73	402	49	271	105·0	+ 8·1	+39·9
18·468	M	46	273	40	237	105·4	+ 7·8	+53·4
19·497	G	39	245	51	323	105·1	+ 8·2	+66·6
20·118	K	20	137	38	260	104·2	+ 8·1	+73·9
Means ..	...	...	...	66	364	103·97	+ 8·18	...

Group 5777.

A few small unstable spots in a cluster *nf* Group 5775.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Jan. 9·216	M	0	9	0	29	93·9	+12·8	−80·0
10·482	G	0	9	0	11	93·4	+12·8	−63·8
11·483	G	0	17	0	14	93·5	+12·4	−50·5
12·256	M	4	22	3	15	94·0	+12·9	−39·9
13·515	G	9	68	5	39	93·0	+11·9	−24·3

Group 5777—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Jan. 14·499	G	6	56	3	29	92·7	+11·3	−11·6
15·448	G	0	52	0	27	92·7	+11·8	+ 0·8
16·490	G	0	2	0	1	93·9	+11·4	+15·8
Means ...	...	...	...	1	21	93·39	+12·16	...

Group 5776.

A few very small spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Jan. 12·256	M	0	6	0	4	162·6	+12·8	+28·7
13·515	G	7	31	5	22	161·5	+12·8	+44·2
14·499	G	0	18	0	17	160·0	+12·5	+55·7
15·448	G	0	5	0	7	160·0	+13·3	+68·1
Means ...	...	...	...	1	13	161·03	+12·85	...

Group 5778.

Return of Group 5762. A small regular spot, *a*, with occasionally a small companion.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Jan. 12·256	M	0	20	0	71	53·8	+17·9	−80·1
13·515	G	9	48	12	60	53·3	+17·5	−64·0
14·499	G	7	32	6	28	53·3	+17·9	−51·0
15·448	G	7	25	5	17	53·3	+17·7	−38·6
16·490	G	5	13	3	8	53·2	+17·6	−24·9
17·473	G	2	35	1	19	52·5	+18·4	−12·6
18·468	M	0	28	0	15	52·6	+20·2	+ 0·6
Means ...	...	...	...	4	31	53·14	+18·17	...

Group 5779.

One or two small unstable spots, *n* of Group 5775. It is not seen on January 15, 17 or 19.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Jan. 13·515	G	1	38	1	21	101·3	+11·3	−16·0
14·499	G	0	73	0	39	100·3	+11·2	− 4·0
15·448	G	0	0	0	0	...	...	...
16·490	G	0	19	0	11	101·0	+11·2	+22·9
17·473	G	0	0	0	0	...	...	...
18·468	M	1	23	1	18	100·0	+10·4	+48·0
19·497	G	0	0	0	0	...	...	...
20·118	K	0	16	0	26	100·7	+12·3	+70·4
Means ...	...	...	...	0	14	100·66	+11·28	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5777*.

One or two small unstable spots, *s* of Group 5777.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Jan. 14·499	G	0	32	0	16	95·2	+ 6·8	− 9·1
15·448	G	0	20	0	11	94·7	+ 7·5	+ 2·8
Means ...	...	...	...	0	14	94·95	+ 7·15	...

Group 5780.

One or two small spots.

Jan. 17·473	G	0	18	0	18	126·0	−12·4	+60·9
Means ...	...	...	...	0	18	126·0	−12·4	...

Group 5781.

A small spot.

Jan. 18·468	M	0	12	0	10	2·2	+ 9·5	−49·8
Means ...	...	...	...	0	10	2·2	+ 9·5	...

Group 5782.

A small spot.

Jan. 20·118	K	6	22	4	16	347·5	+14·5	−42·8
Means ...	...	...	...	4	16	347·5	+14·5	...

Group 5783.

Return of Group 5767. A number of small spots in a long straggling stream. *a*, the leader, a small regular spot, alone remains after January 26.

Jan. 20·118	K	0	16	0	24	320·9	+13·2	−69·4
21·243	M	8	85	8	76	322·0	+13·4	−53·5
22·267	M	31	220	21	149	323·4	+12·6	−38·7
23·118	K	39	175	22	103	324·3	+11·8	−26·5
24·307	M	31	264	16	140	326·5	+12·2	− 8·8
25·118	K	28	281	15	149	326·5	+12·0	+ 2·0
26·490	G	14	240	8	136	327·2	+11·8	+20·8
27·543	G	9	34	6	23	331·5	+11·1	+38·9
28·122	K	4	42	3	31	327·0	+13·0	+42·0
29·495	G	0	9	0	11	331·5	+11·4	+64·6
Means ...	...	...	...	10	84	326·08	+12·25	...

Group 5784.

A pair of very small spots.

1906. d						°	°	°
Jan. 20·118	K	0	11	0	6	48·7	+ 7·6	+18·4
Means ...	...	...	...	0	6	48·7	+ 7·6	...

Group 5785.

A very fine stream consisting chiefly of *a* and *b*, two very large spots of elliptical shape. The group develops very rapidly, and diminishes again nearly as fast.

Jan. 21·243	M	18	74	12	52	330·5	−11·6	−45·0
22·267	M	98	690	58	406	331·0	−11·3	−31·1
23·118	K	204	1162	110	622	331·3	−11·8	−19·5
24·307	M	191	1619	96	820	332·2	−11·7	− 3·1
25·118	K	235	1475	121	756	332·8	−11·7	+ 8·3
26·490	G	145	1182	83	672	333·6	−11·5	+27·2
27·543	G	91	955	62	634	333·4	−11·2	+40·8
28·122	K	89	662	66	494	333·1	−11·1	+48·1
29·495	G	45	454	57	562	333·7	−11·0	+66·8
30·449	G	17	213	42	482	332·5	−11·1	+78·1
Means ...	...	...	...	71	550	332·41	−11·40	...

Group 5786.

A small spot, *a*, usually followed by a small companion.

Jan. 21·243	M	0	14	0	14	315·5	+ 4·1	−60·0
22·267	M	5	24	4	18	315·9	+ 4·7	−46·2
23·118	K	5	24	3	15	316·3	+ 3·9	−34·5
24·307	M	2	6	1	3	317·1	+ 4·7	−18·2
Means ...	...	...	..	2	13	316·20	+ 4·35	...

Group 5787.

A few small spots in a short stream, *f* Group 5785. The leader, *a*, is a small regular spot, and alone remains on January 26.

Jan. 21·243	M	0	10	0	17	301·7	−10·3	−73·8
22·267	M	1	24	1	22	305·3	−10·4	−56·8
23·118	K	16	71	11	50	305·2	−11·1	−45·6
24·307	M	16	81	9	46	307·0	−10·7	−28·3
25·118	K	11	102	6	54	307·6	−11·4	−16·9
26·490	G	14	72	7	36	309·3	−11·9	+ 2·9
27·543	G	9	44	5	23	308·8	−11·5	+16·2
28·122	K	12	28	7	15	309·5	−11·3	+24·5
29·495	G	2	18	1	12	310·0	−11·4	+43·1
Means ...	...	...	...	5	31	307·16	−11·11	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of		Area for Group.		Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
		Umbra.	Whole Spot.	Umbra.	Whole Spot.			
Group 5788. Return of Group 5766. A regular spot, *a*, slowly closing up after January 30. A few very small companions are seen on January 25.								
1906. d						°	°	°
Jan. 22·267	M	7	41	14	84	285·9	− 7·4	−76·2
23·118	K	13	74	15	86	286·0	− 8·2	−64·8
24·307	M	22	126	17	96	286·2	− 7·3	−49·1
25·118	K	30	185	19	119	285·8	− 7·7	−38·7
26·490	G	26	191	14	102	286·8	− 7·8	−19·6
27·543	G	25	204	13	103	286·6	− 7·4	− 6·0
28·122	K	27	173	13	86	286·6	− 7·5	+ 1·6
29·495	G	31	180	16	96	286·8	− 7·3	+19·9
30·449	G	20	175	12	105	287·5	− 7·1	+33·1
31·290	M	20	110	14	78	288·1	− 6·9	+44·8
Feb. 1·309	M	13	96	12	90	288·0	− 6·7	+58·2
2·412	M	7	19	12	31	288·5	− 7·0	+73·1
Means ...	...	...	...	14	90	286·90	− 7·36	...
Group 5789. Two very small spots.								
Jan. 23·118	K	0	15	0	8	13·1	−12·8	+22·3
Means ...	...	...	...	0	8	13·1	−12·8	...
Group 5790. A few spots in an irregular, straggling stream. Two spots, *a* and *b*, are larger and more stable than the rest. The leader, *a*, has become a well-marked regular spot by January 28, whilst the rest of the group has disappeared by January 30.								
Jan. 23·118	K	20	72	19	68	296·2	+14·6	−54·6
24·307	M	21	124	14	88	295·9	+16·0	−39·4
25·118	K	42	277	25	167	297·3	+15·2	−27·2
26·490	G	48	190	26	103	299·9	+15·7	− 6·5
27·543	G	28	275	16	150	301·8	+15·0	+ 9·2
28·122	K	36	247	20	140	302·7	+15·0	+17·7
29·495	G	24	210	16	141	302·4	+15·3	+35·5
30·449	G	16	81	14	70	305·2	+15·1	+50·8
31·290	M	12	35	14	42	305·7	+15·1	+62·4
Feb. 1·309	M	3	9	7	21	305·4	+14·9	+75·6
Means ...	...	...	...	17	99	301·25	+15·19	...
Group 5791. A group of striking appearance, consisting of three principal spots, *a*, *b*, and *c*, with a number of smaller attendants, not drawn out into a stream of the usual form, but scattered over a wide area.								
Jan. 26·490	G	50	457	98	969	232·7	+17·6	−73·7
27·543	G	90	776	101	869	232·8	+17·6	−59·8
Group 5791—*continued.*								
1906. d						°	°	°
Jan. 28·122	K	109	1004	98	915	232·5	+17·3	−52·5
29·495	G	196	1086	130	718	233·4	+17·3	−33·5
30·449	G	163	1237	96	724	233·8	+17·1	−20·6
31·290	M	191	1007	107	561	233·5	+18·0	− 9·8
Feb. 1·309	M	200	1080	109	593	233·5	+17·6	+ 3·7
2·412	M	157	792	91	478	234·1	+16·9	+18·7
3·138	K	101	797	63	489	232·3	+16·8	+26·5
4·494	G	48	332	37	261	233·0	+17·2	+45·1
5·546	G	14	163	15	182	233·7	+16·3	+59·6
6·214	M	9	53	12	74	230·8	+17·9	+65·5
Means ...	...	...	...	80	569	233·01	+17·30	...
Group 5792. A small spot.								
Jan. 26·490	G	0	22	0	20	2·3	−21·2	+55·9
Means ...	...	...	...	0	20	2·3	−21·2	...
Group 5793. A small faint spot, *sf* Group 5787.								
Jan. 27·543	G	0	23	0	12	300·8	−13·8	+ 8·2
Means ...	...	...	...	0	12	300·8	−13·8	...
Group 5794. A small spot, *a*, followed by one or two distant attendants. The group lies *sp* Group 5791.								
Jan. 31·290	M	9	38	5	20	255·1	+ 9·8	+11·8
Feb. 1·309	M	25	102	15	60	256·4	+ 8·5	+26·6
2·412	M	16	90	11	63	258·1	+ 6·5	+42·7
3·138	K	17	107	14	90	257·7	+ 6·3	+51·9
4·494	G	3	35	5	56	258·7	+ 6·1	+70·8
Means ...	...	...	...	10	58	257·20	+ 7·44	...
Group 5795. A cluster of very small spots, *n* of Group 5791.								
Jan. 31·290	M	0	8	0	5	236·1	+22·2	− 7·2
Feb. 1·309	M	0	17	0	10	236·7	+22·3	+ 6·9
Means ...	...	...	...	0	8	236·40	+22·25	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5796.

A small spot, not seen on February 3 or 4.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Feb. 2·412	M	0	7	0	4	236·0	− 8·2	+20·6
3·138	K	0	0	0	0	...	...	...
4·494	G	0	0	0	0	...	...	...
5·546	G	0	31	0	31	235·2	− 7·6	+61·1
Means ...	...	...	...	0	9	235·60	− 7·90	...

Group 5797.

A small spot.

Feb. 4·494	G	0	17	0	10	154·5	−16·2	−33·4
Means ...	...	...	...	0	10	154·5	−16·2	...

Group 5798.

Return of Group 5775. Third and last appearance. A large regular spot, *a*. A number of small spots have broken out by February 8 on all sides of *a*, but principally on the south, where they form by February 9 an unstable stream, the largest and most stable member of which, *b*, is immediately south of *a*. A small spot, *c*, has formed to the rear of *a* by February 11.

Feb. 4·494	G	13	68	54	278	105·9	+ 8·4	−82·0
5·546	G	23	137	31	186	107·0	+ 8·5	−67·1
6·214	M	28	168	27	167	107·4	+ 9·0	−57·9
7·508	G	38	244	26	169	107·0	+ 8·8	−41·2
8·128	K	46	289	28	179	107·3	+ 9·1	−32·8
9·438	M	86	467	47	252	107·1	+ 8·8	−15·7
10·201	M	52	408	27	213	107·6	+ 8·4	− 5·1
11·462	G	52	430	27	227	106·9	+ 8·4	+10·7
12·391	M	34	213	19	121	107·4	+ 8·3	+23·5
13·474	G	17	154	11	101	106·4	+ 8·5	+36·8
14·475	G	9	70	7	57	106·8	+ 8·8	+50·4
15·122	K	7	39	7	39	107·1	+ 8·1	+59·1
Means ...	...	...	...	26	166	106·99	+ 8·59	...

Group 5800.

Two or three small spots.

Feb. 5·546	G	0	21	0	32	102·8	− 7·2	−71·3
6·214	M	0	16	0	17	102·6	− 7·9	−62·7
7·508	G	0	17	0	12	104·0	− 7·6	−44·2
Means ...	...	...	...	0	20	103·13	− 7·57	...

Group 5799.

A small regular spot, *a*, with a very small companion.

1906. d						°	°	°
Feb. 6·214	M	4	18	3	12	199·6	−27·1	+34·3
Means ...	...	...	...	3	12	199·6	−27·1	...

Group 5799*.

Two very small faint spots.

Feb. 6·214	M	1	5	1	3	134·1	−16·3	−31·2
Means ...	...	...	...	1	3	134·1	−16·3	...

Group 5791*.

A small spot, *sf* Group 5791, and seen only when close to the west limb.

Feb. 7·508	G	0	17	0	19	211·1	+ 5·1	+62·9
Means ...	...	...	...	0	19	211·1	+ 5·1	...

Group 5798*.

Two very small spots, *n* of Group 5798.

Feb. 8·128	K	0	7	0	5	106·8	+21·5	−33·3
Means ...	...	...	...	0	5	106·8	+21·5	...

Group 5801.

One or two small unstable spots, *n* of Group 5798. The group is not seen on February 13.

Feb. 11·462	G	0	21	0	11	103·4	+15·2	+ 7·2
12·391	M	0	13	0	8	105·5	+16·2	+21·6
13·474	G	0	0	0	0	...	...	...
14·475	G	0	21	0	17	105·0	+12·6	+48·6
15·122	K	0	26	0	26	105·5	+12·0	+57·5
Means ...	...	...	...	0	12	104·85	+14·00	...

Group 5798†.

A cluster of small spots, *np* Group 5798; first seen close to the west limb.

Feb. 13·474	G	0	39	0	65	138·5	+18·3	+68·9
14·475	G	0	13	0	55	137·0	+19·9	+80·6
Means ...	...	...	...	0	60	137·75	+19·10	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5802.

Return of Group 5785. A large regular spot, *a*, frequently with a number of very small companions.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Feb. 14·475	G	15	88	30	181	339·6	−10·4	−76·8
15·122	K	16	128	21	166	339·8	−10·2	−68·2
16·126	K	34	158	30	137	339·2	−10·1	−55·5
17·125	K	37	220	25	149	339·2	−10·7	−42·3
18·097	K	58	280	34	162	339·2	−10·4	−29·6
19·383	M	60	277	31	143	338·8	−10·7	−13·0
20·455	G	53	287	26	144	338·5	−10·8	+ 0·8
21·506	G	46	241	24	126	338·7	−10·8	+14·8
22·133	K	48	245	26	133	337·7	−11·3	+22·1
23·398	M	30	176	20	115	339·1	−11·4	+40·2
24·480	G	18	151	16	129	339·3	−11·0	+54·5
25·655	G	10	82	13	111	338·4	−11·2	+69·1
26·200	M	7	45	14	91	339·0	−11·6	+76·9
Means ...	...	...	...	24	137	338·96	−10·82	...

Group 5800*.

A few very faint small markings.

Feb. 15·122	K	0	65	0	39	18·9	−25·4	−29·1
Means ...	...	...	...	0	39	18·9	−25·4	...

Group 5801*.

A number of small, very faint markings in a compact cluster.

Feb. 15·122	K	2	56	1	41	2·4	−22·3	−45·6
Means ...	...	...	...	1	41	2·4	−22·3	...

Group 5802*.

A number of small, very faint markings in a compact cluster.

Feb. 16·126	K	0	25	0	18	350·6	−17·9	−44·1
Means ...	...	...	...	0	18	350·6	−17·9	...

Group 5803.

A large regular spot, *a*, followed by a short train of small spots. Only *a* remains after February 24.

Feb. 17·125	K	6	70	15	173	305·3	+12·8	−76·2
18·097	K	19	158	23	190	306·1	+13·3	−62·7
19·383	M	29	215	22	163	307·3	+12·8	−44·5

Group 5803—*continued.*

1906. d						°	°	°
Feb. 20·455	G	56	379	34	235	307·8	+13·0	−29·9
21·506	G	62	564	34	313	309·0	+13·3	−14·9
22·133	K	78	520	42	280	309·3	+13·5	− 6·3
23·398	M	73	496	40	271	310·0	+13·1	+11·1
24·480	G	71	473	42	282	309·9	+13·6	+25·1
25·655	G	53	382	37	272	309·7	+13·5	+40·4
26·200	M	44	269	36	220	310·4	+13·6	+48·3
27·439	G	19	165	25	211	309·9	+13·6	+64·2
28·383	M	12	78	30	196	309·8	+12·9	+76·5
Means ...	...	...	...	32	234	308·71	+13·25	...

Group 5804.

Two small spots.

Feb. 18·097	K	2	24	1	17	321·9	− 6·5	−46·9
Means ...	...	...	...	1	17	321·9	− 6·5	...

Group 5806.

With Group 5803, a return of Group 5790. A regular spot, *a*, with a short irregular stream close to it on the *s* side, making up with Group 5803 a very long straggling stream. Most of the smaller spots are very unstable, and the group changes in appearance rapidly.

Feb. 18·097	K	18	102	32	186	297·7	+16·5	−71·1
19·383	M	25	141	25	137	297·3	+16·7	−54·5
20·455	G	31	231	23	169	296·9	+16·2	−40·8
21·506	G	23	201	14	123	297·9	+16·2	−26·0
22·133	K	34	269	19	158	296·9	+16·7	−18·7
23·398	M	17	105	10	58	298·6	+16·2	− 0·3
24·480	G	0	42	0	24	298·5	+16·5	+13·7
25·655	G	5	46	3	29	298·7	+15·7	+29·4
26·200	M	4	23	3	16	299·8	+15·6	+37·7
27·439	G	0	5	0	4	299·2	+16·0	+53·5
28·383	M	0	3	0	4	299·2	+17·1	+65·9
Means ...	...	...	...	12	83	298·25	+16·31	...

Group 5805.

A few very small spots.

Feb. 19·383	M	2	24	1	12	357·8	− 6·7	+ 6·0
20·455	G	5	63	2	34	357·9	− 7·5	+20·2
Means ...	...	...	...	2	23	357·85	− 7·10	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of		Area for Group.		Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
		Umbra.	Whole Spot.	Umbra.	Whole Spot.			
Group 5807. A number of small unstable spots in a scattered group which changes quickly.								
1906. d						°	°	°
Feb. 20·455	G	0	16	0	9	307·2	−12·8	−30·5
21·506	G	10	45	5	24	306·9	−13·3	−17·0
22·133	K	21	92	11	46	306·8	−13·5	− 8·8
23·398	M	11	82	6	41	306·5	−13·5	+ 7·6
24·480	G	19	111	11	60	306·6	−14·1	+21·8
25·655	G	31	235	19	146	305·6	−14·4	+36·3
26·200	M	21	112	15	79	307·4	−14·5	+45·3
27·439	G	0	6	0	6	309·5	−14·3	+63·8
Means ...	...	...	...	8	51	307·06	−13·80	...
Group 5807*. A very small faint spot.								
Feb. 22·133	K	0	6	0	5	263·8	+ 6·6	−51·8
Means ...	...	...	...	0	5	263·8	+ 6·6	...
Group 5808. A small spot with a very small companion.								
Feb. 24·480	G	5	25	5	24	336·3	+24·2	+51·5
Means ...	...	...	...	5	24	336·3	+24·2	...
Group 5808*. A small spot with a very small companion, *nf* Group 5808.								
Feb. 24·480	G	4	17	3	13	314·6	+31·4	+29·8
Means ...	...	...	...	3	13	314·6	+31·4	...
Group 5809*. Two very small spots.								
Feb. 24·480	G	0	11	0	5	283·0	−20·2	− 1·8
Means ...	...	...	...	0	5	283·0	−20·2	...
Group 5809. A few small spots in a small cluster.								
Feb. 27·439	G	0	22	0	14	282·0	− 5·0	+36·3
28·383	M	0	23	0	18	283·6	− 7·5	+50·3
Group 5809—*continued.*								
1906. d						°	°	°
Mar. 1·198	M	0	18	0	19	284·9	− 7·1	+62·3
2·122	K	0	73	0	115	282·3	− 6·9	+71·9
Means ...	...	...	...	0	42	283·20	− 6·63	...
Group 5812. A few very small spots.								
Feb. 27·439	G	0	9	0	8	190·2	+ 9·1	−55·5
28·383	M	2	31	1	23	190·7	+10·4	−42·6
Mar. 1·198	M	4	21	2	13	192·1	+ 9·7	−30·5
Means ...	...	...	...	1	15	191·00	+ 9·73	...
Group 5813. A few very small spots.								
Feb. 28·383	M	0	7	0	10	166·3	+12·0	−67·0
Means ...	...	...	...	0	10	166·3	+12·0	...
Group 5810. A few small spots in a short stream.								
Feb. 28·383	M	16	93	10	56	260·2	+13·4	+26·9
Mar. 1·198	M	25	171	17	116	259·7	+14·5	+37·1
2·122	K	18	170	15	145	260·3	+14·4	+49·9
3·483	G	10	73	17	117	261·8	+13·1	+69·3
4·510	G	0	44	0	150	258·4	+14·4	+79·4
Means ...	...	...	...	12	117	260·08	+13·96	...
Group 5813*. A number of very small faint spots in a straggling stream.								
Mar. 2·122	K	0	8	0	5	227·1	+17·3	+16·7
Means ...	...	...	...	0	5	227·1	+17·3	...
Group 5815. A regular spot, *a*, accompanied by a short train of small spots.								
Mar. 2·122	K	10	72	17	124	136·2	−13·4	−74·2
3·483	G	22	177	19	154	136·9	−13·6	−55·6

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5815—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Mar. 4·510	G	28	185	18	123	137·7	−14·3	−41·3
5·289	M	24	191	14	112	138·2	−14·9	−30·5
6·462	G	25	195	13	101	137·9	−14·6	−15·3
7·607	G	20	67	10	34	139·5	−15·0	+ 1·3
8·118	K	18	95	9	48	137·7	−15·0	+ 6·3
9·221	M	4	18	2	10	139·0	−15·2	+22·1
10·115	K	0	38	0	23	138·3	−15·6	+33·2
Means ...	...	...	...	11	81	137·93	−14·62	...

Group 5811*.

A very small faint spot, *n* of Group 5811.

Mar. 3·483	G	0	2	0	2	232·3	+17·7	+39·8
Means ...	...	...	...	0	2	232·3	+17·7	...

Group 5811.

A few very faint small spots.

Mar. 3·483	G	0	21	0	13	229·0	+ 7·3	+36·5
Means ...	...	...	...	0	13	229·0	+ 7·3	...

Group 5814.

A few small unstable spots in an irregular stream.

Mar. 5·289	M	0	44	0	26	147·8	+20·6	−20·9
6·462	G	0	45	0	25	149·0	+19·4	− 4·2
7·607	G	13	61	7	35	148·5	+20·0	+10·3
8·118	K	11	76	6	46	147·4	+21·0	+16·0
9·221	M	2	25	1	16	148·0	+20·2	+31·1
Means ...	...	...	...	3	30	148·14	+20·24	...

Group 5816.

A large regular spot, *a*, with occasionally some small companions.

Mar. 6·462	G	21	152	61	444	73·8	+ 4·8	−79·4
7·607	G	39	289	47	345	73·9	+ 4·7	−64·3
8·118	K	61	365	59	352	73·7	+ 4·5	−57·7
9·221	M	80	460	57	327	73·6	+ 4·6	−43·3
10·115	K	84	522	50	312	74·1	+ 4·5	−31·0
11·118	K	91	566	49	305	74·1	+ 4·7	−17·7
12·607	G	53	457	27	233	74·6	+ 5·0	+ 2·4
13·111	K	59	394	30	204	75·1	+ 4·8	+ 9·5

Group 5816—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Mar. 14·186	M	49	300	28	169	75·7	+ 4·9	+24·3
15·228	M	42	263	28	174	76·7	+ 5·5	+39·0
16·118	K	30	197	25	159	76·3	+ 5·2	+50·4
17·232	M	18	143	23	178	76·4	+ 5·6	+65·2
18·284	M	7	52	21	153	76·7	+ 5·2	+79·3
Means ...	...	...	...	39	258	74·98	+ 4·92	...

Group 5815*.

A very small spot, *n* Group 5815.

Mar. 7·607	G	1	9	1	5	141·5	− 7·1	+ 3·3
Means ...	...	...	...	1	5	141·5	− 7·1	...

Group 5817.

A few small spots rapidly developing into a compact stream. The leader, *a*, on March 10 and the succeeding days, is a large regular spot.

Mar. 8·118	K	0	36	0	23	107·0	+20·2	−24·4
9·221	M	34	126	20	75	104·3	+20·7	−12·6
10·115	K	89	410	51	235	103·8	+21·2	− 1·3
11·118	K	67	537	39	314	104·8	+20·3	+13·0
12·607	G	58	460	39	309	104·7	+19·8	+32·5
13·111	K	85	460	63	339	105·2	+19·0	+39·6
14·186	M	53	430	52	425	105·4	+19·6	+54·0
15·228	M	39	332	68	550	106·1	+19·6	+68·4
16·118	K	10	99	36	377	105·4	+19·3	+79·5
Means ...	...	...	...	41	294	105·19	+19·97	...

Group 5818.

A few small spots in a short irregular stream. The stream develops quickly, and the leader, *a*, becomes a regular spot. The following part of the group soon disappears, and *a* remains alone on March 12. A very small companion is sometimes seen near it later.

Mar. 8·118	K	0	12	0	9	82·7	− 4·8	−48·7
9·221	M	14	100	8	60	85·0	− 6·7	−31·9
10·115	K	71	283	38	152	84·7	− 5·6	−20·4
11·118	K	59	296	29	150	86·6	− 5·9	− 5·2
12·607	G	23	225	12	118	88·8	− 6·3	+16·6
13·111	K	25	163	14	89	89·0	− 6·8	+23·4
14·186	M	18	91	12	59	90·8	− 6·7	+39·4
15·228	M	11	56	9	47	91·3	− 6·1	+53·6
16·118	K	8	24	9	28	90·6	− 6·0	+64·7
17·232	M	0	8	0	19	90·1	− 6·0	+78·9
Means ...	...	...	...	13	73	87·96	− 6·09	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5816*.

Four very small spots, *n* of Group 5816.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Mar. 10·115	K	2	45	1	28	73·8	+14·0	−31·3
Means ...	...	...	...	1	28	73·8	+14·0	...

Group 5816†.

Three very small spots, *f* Group 5816.

Mar. 10·115	K	0	28	0	24	54·2	+ 7·4	−50·9
Means ...	...	...	...	0	24	54·2	+ 7·4	...

Group 5819.

A very small spot, *p* Group 5817.

Mar. 11·118	K	0	8	0	5	122·7	+19·6	+30·9
Means ...	...	....	...	0	5	122·7	+19·6	...

Group 5819*.

A pair of spots suddenly appearing close to the west limb.

Mar. 14·186	M	4	22	14	72	133·4	− 8·5	+82·0
Means ...	...	...	...	14	72	133·4	− 8·5	...

Group 5820.

A straight stream developing suddenly and declining as quickly. The leader, *a*, is the largest and most stable member of the group.

Mar. 14·186	M	1	16	1	9	47·8	+23·1	− 3·6
15·228	M	26	183	16	109	49·1	+23·3	+11·4
16·118	K	39	170	25	107	49·1	+22·8	+23·2
17·232	M	16	82	13	66	54·1	+22·5	+42·9
18·284	M	6	39	7	42	53·4	+22·2	+56·0
19·518	G	1	34	2	52	47·4	+22·7	+66·2
Means ...	...	...	...	11	64	50·15	+22·77	...

Group 5820*.

A very small spot.

Mar. 14·186	M	0	4	0	6	339·7	−12·0	−71·7
15·228	M	0	4	0	4	340·2	−11·6	−57·5
Means ...	...	...	...	0	5	339·95	−11·80	...

Group 5821*.

A few very small unstable spots.

1906. d						°	°	°
Mar. 15·228	M	0	6	0	9	325·7	− 8·6	−72·0
16·118	K	0	8	0	8	326·3	− 8·9	−59·6
17·232	M	4	49	3	36	323·7	− 8·9	−47·5
18·284	M	0	11	0	6	326·0	− 8·9	−31·4
Means ...	...	...	...	1	15	325·43	− 8·83	...

Group 5821.

Return, or rather new outbreak, of Group 5803. A number of spots at first, scattered over a wide area. The spots mostly increase and coalesce, forming by March 22 a very large complex spot, *a*, with but little umbra.

Mar. 16·118	K	8	53	16	105	313·9	+18·9	−72·0
17·232	M	16	114	17	125	315·0	+17·6	−56·2
18·284	M	26	167	20	132	312·2	+16·8	−45·2
19·518	G	38	253	24	157	313·0	+17·2	−28·2
20·307	M	92	499	55	288	313·5	+16·9	−17·3
21·488	G	145	1065	79	581	313·4	+15·7	− 1·8
22·542	G	266	1737	148	967	313·1	+15·2	+11·9
23·656	G	174	1768	106	1074	312·4	+15·6	+25·8
24·125	K	109	1450	69	932	312·6	+15·7	+32·2
25·196	M	72	934	57	744	312·0	+16·4	+45·7
26·224	M	38	533	42	585	311·7	+16·5	+59·0
27·231	M	15	236	30	458	311·7	+16·2	+72·3
Means ...	...	...	...	55	512	312·88	+16·56	...

Group 5822.

A short stream of spots almost at right angles to the equator. The two principal members of the group, *a* and *b*, are regular spots.

Mar. 17·232	M	18	176	41	390	293·4	− 8·5	−77·8
18·284	M	39	215	44	244	292·9	− 8·2	−64·5
19·518	G	61	371	44	271	293·8	− 8·1	−47·4
20·307	M	61	364	38	227	293·8	− 8·2	−37·0
21·488	G	55	342	29	184	294·8	− 7·6	−20·4
22·542	G	51	276	26	139	294·8	− 7·6	− 6·4
23·656	G	21	218	11	111	294·8	− 8·2	+ 8·2
24·125	K	18	162	9	83	295·0	− 8·3	+14·6
25·196	M	20	137	12	79	295·4	− 8·0	+29·1
26·224	M	6	49	4	34	295·6	− 7·4	+42·9
27·231	M	0	7	0	6	296·3	− 7·9	+56·9
Means ...	...	...	...	23	161	294·60	− 8·00	...

Group 5820†.

A small spot, *nf* Group 5820.

Mar. 17·232	M	4	12	3	8	43·0	+24·8	+31·8
Means ...	...	...	...	3	8	43·0	+24·8	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5826.

A very fine pair of regular spots, *a* and *b*. They have coalesced to form one very large double spot, *c*, by March 21. *c* is sometimes attended by some very small companions.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Mar. 18·284	M	8	84	29	305	277·2	+12·8	−80·2
19·518	G	86	486	121	693	274·2	+13·1	−67·0
20·307	M	116	663	115	660	274·2	+13·3	−56·6
21·488	G	190	1008	135	716	274·8	+13·6	−40·4
22·542	G	220	1186	133	715	274·9	+13·6	−26·3
23·656	G	197	1195	108	654	275·1	+13·8	−11·5
24·125	K	202	1196	108	639	275·2	+13·9	− 5·2
25·196	M	213	1265	117	693	275·0	+14·2	+ 8·7
26·224	M	186	1056	109	621	275·5	+14·8	+22·8
27·231	M	163	801	109	538	275·4	+14·8	+36·0
28·491	G	112	670	101	607	275·6	+14·5	+52·8
29·541	G	65	380	91	528	275·3	+14·6	+66·3
30·240	M	24	173	57	405	275·2	+14·9	+75·5
Means ...	...	...	...	103	598	275·20	+13·99	...

Group 5823.

A pair of small spots, *a* and *b*, sometimes with a very small spot between them. *a* remains alone after March 21.

Mar. 19·518	G	7	61	4	33	349·5	−30·5	+ 8·3
20·307	M	3	43	2	24	347·5	−30·5	+16·7
21·488	G	27	172	18	113	350·1	−30·1	+34·9
22·542	G	9	46	8	38	352·0	−29·1	+50·8
23·656	G	16	84	20	102	352·8	−28·8	+66·2
24·125	K	8	39	12	61	352·9	−28·4	+72·5
25·196	M	0	16	0	66	351·9	−27·9	+85·6
Means ...	...	...	...	9	62	350·96	−29·33	...

Group 5824.

A cluster of small spots, not seen on March 23.

Mar. 19·518	G	3	45	2	26	313·6	−12·6	−27·6
20·307	M	9	90	5	46	314·9	−12·3	−15·9
21·488	G	16	111	8	56	315·8	−12·3	+ 0·6
22·542	G	15	88	8	45	316·1	−11·9	+14·9
23·656	G	0	0	0	0	...	...	...
24·125	K	0	21	0	13	315·2	−12·0	+34·8
Means ...	...	...	...	4	31	315·12	−12·22	...

Group 5825.

A few faint spots rapidly developing into a scattered stream with three principal spots, *a*, *b* and *c*. The leader, *a*, develops into a regular spot.

Mar. 19·518	G	0	35	0	21	308·5	−18·3	−32·7
20·307	M	71	358	39	196	309·1	−18·1	−21·7
21·488	G	86	578	45	297	310·3	−17·8	− 4·9

Group 5825—*continued.*

1906. d						°	°	°
Mar. 22·542	G	92	448	47	233	311·4	−17·3	+10·2
23·656	G	46	242	26	138	313·9	−16·8	+27·3
24·125	K	34	223	21	135	314·0	−17·0	+33·6
25·196	M	18	165	14	127	316·3	−16·3	+50·0
26·224	M	10	65	12	74	317·8	−16·8	+65·1
27·231	M	0	8	0	17	317·8	−17·8	+78·4
Means ...	...	...	...	23	138	313·23	−17·36	...

Group 5829.

A few small unstable spots in a short stream, *s* of Group 5822.

Mar. 19·518	G	1	14	1	10	294·3	−13·0	−46·9
20·307	M	2	49	1	31	294·2	−13·6	−36·6
21·488	G	27	122	15	67	295·0	−13·4	−20·2
22·542	G	8	128	4	64	294·6	−14·0	− 6·6
23·656	G	19	119	10	62	298·4	−13·5	+11·8
24·125	K	17	69	9	36	296·9	−13·2	+16·5
25·196	M	7	34	4	21	299·8	−12·4	+33·5
26·224	M	6	22	4	16	300·2	−11·9	+47·5
27·231	M	0	5	0	5	300·3	−11·6	+60·9
Means ...	...	...	...	5	35	297·08	−12·96	...

Group 5833.

A cluster of very faint small spots, *p* Group 5826. The group is not seen from March 21 to March 23 inclusive.

Mar. 19·518	G	0	19	0	18	287·2	+13·5	−54·0
20·307	M	0	13	0	9	286·7	+13·2	−44·1
21·488	G	0	0	0	0	...	...	...
22·542	G	0	0	0	0	...	...	...
23·656	G	0	0	0	0	...	...	...
24·125	K	0	30	0	15	286·8	+10·8	+ 6·4
25·196	M	2	6	1	3	286·4	+10·0	+20·1
Means ...	...	...	...	0	6	286·78	+11·88	...

Group 5827.

A small spot, *a*, *s* of Group 5826. *a* is not seen on March 22, but a cluster of very small spots is seen in its neighbourhood.

Mar. 19·518	G	3	23	5	36	271·3	+ 8·4	−69·9
20·307	M	4	16	4	16	271·9	+ 8·2	−58·9
21·488	G	0	9	0	7	272·7	+ 7·9	−42·5
22·542	G	0	10	0	6	275·9	+10·4	−25·3
Means ...	...	...	...	2	16	272·95	+ 8·73	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5828.

A large regular spot, *a*, *f* Group 5826. The spot becomes composite in structure and has begun to break up by March 24. It has entirely broken up by March 26, after which it quickly disappears.

Date. Greenwich Civil Time.	Where taken.	Projected Area of		Area for Group.		Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
		Umbra.	Whole Spot.	Umbra.	Whole Spot.			
1906. d						°	°	°
Mar. 19·518	G	0	109	0	342	262·5	+15·0	−78·7
20·307	M	16	139	25	219	262·1	+15·0	−68·7
21·488	G	22	206	20	190	261·9	+14·9	−53·3
22·542	G	42	250	30	177	261·7	+15·3	−39·5
23·656	G	29	300	18	181	261·8	+15·5	−24·8
24·125	K	36	269	21	153	261·8	+15·3	−18·6
25·196	M	23	170	13	93	261·7	+15·5	− 4·6
26·224	M	18	113	9	61	261·4	+14·7	+ 8·7
27·231	M	3	22	2	13	262·1	+16·0	+22·7
Means ...	...	...	...	15	159	261·89	+15·24	...

Group 5830.

A regular spot, *a*, with occasionally one or two very small companions.

Mar. 21·488	G	20	132	29	198	244·0	− 8·0	−71·2
22·542	G	42	197	38	181	243·8	− 7·9	−57·4
23·656	G	49	222	33	151	243·8	− 8·0	−42·8
24·125	K	39	235	24	147	243·4	− 8·0	−37·0
25·196	M	52	275	28	151	243·2	− 8·2	−23·1
26·224	M	65	308	33	157	243·0	− 8·4	− 9·7
27·231	M	51	287	26	145	243·1	− 8·5	+ 3·7
28·491	G	54	309	29	166	243·9	− 8·8	+21·1
29·541	G	36	233	22	143	244·4	− 8·6	+35·4
30·240	M	18	221	13	156	244·8	− 9·0	+45·1
31·118	K	24	131	22	120	245·2	− 9·0	+57·1
Apr. 1·279	M	9	63	15	102	245·5	− 9·1	+72·7
Means ...	...	...	...	26	151	244·01	− 8·46	...

Group 5831.

A small unstable cluster, *sf* Group 5830.

Mar. 22·542	G	7	42	8	48	236·2	−13·0	−65·0
23·656	G	7	70	5	54	237·0	−12·9	−49·6
24·125	K	16	85	11	58	237·3	−12·3	−43·1
25·196	M	11	65	6	37	237·4	−12·2	−28·9
26·224	M	2	13	1	7	235·2	−10·5	−17·5
27·231	M	0	10	0	5	232·5	−11·0	− 6·9
Means ...	...	...	...	5	35	235·93	−11·98	...

Group 5832.

A very small spot, *sf* Group 5822, not seen on March 26.

1906. d						°	°	°
Mar. 25·196	M	0	36	0	19	287·5	− 4·7	+21·2
26·224	M	0	0	0	0	...	...	...
27·231	M	6	14	4	10	283·8	− 6·2	+44·4
Means ...	...	...	...	1	10	285·65	− 5·45	...

Group 5834.

A number of small unstable spots in an irregular stream. The group has condensed into two clusters, *a* and *b*, by March 29. The leader, *a*, develops into a regular spot; *b* breaks up and has almost disappeared by March 31.

Mar. 25·196	M	16	74	13	61	213·3	−16·8	−53·0
26·224	M	23	90	15	58	212·7	−16·5	−40·0
27·231	M	42	169	24	96	212·6	−16·6	−26·8
28·491	G	56	283	29	145	212·6	−16·9	−10·2
29·541	G	43	240	22	123	214·9	−16·4	+ 5·9
30·240	M	26	133	14	71	216·5	−16·3	+16·8
31·118	K	30	165	17	95	216·6	−16·5	+28·5
Apr. 1·279	M	5	25	4	18	216·7	−16·7	+43·9
Means ...	...	...	...	17	83	214·49	−16·59	...

Group 5835.

A few very small spots in a sparse stream.

Mar. 26·224	M	3	53	2	27	272·2	−11·3	+19·5
27·231	M	8	23	5	14	272·1	−10·7	+32·7
Means ...	...	...	...	4	21	272·15	−11·00	...

Group 5836.

A pair of small unstable spots. The group is not seen on March 29 or 30.

Mar. 27·231	M	0	17	0	9	241·2	+ 8·5	+ 1·8
28·491	G	2	61	1	33	241·4	+ 7·4	+18·6
29·541	G	0	0	0	0	...	...	...
30·240	M	0	0	0	0	...	...	...
31·118	K	9	33	8	29	241·7	+ 6·6	+53·6
Apr. 1·279	M	3	13	5	20	243·1	+ 6·0	+70·3
Means ...	...	...	...	2	15	241·85	+ 7·13	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5837.

A fine stream, consisting of a large regular spot, *a*, followed by a long train of small spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Mar. 27·231	M	0	16	0	26	166·4	−15·7	−73·0
28·491	G	20	165	18	136	169·7	−13·9	−53·1
29·541	G	65	495	43	320	169·6	−14·6	−39·4
30·240	M	106	796	60	459	170·4	−14·1	−29·3
31·118	K	116	839	61	442	171·1	−14·0	−17·0
Apr. 1·279	M	133	807	67	407	172·0	−13·8	− 0·8
2·381	M	148	912	77	473	171·7	−13·7	+13·4
3·194	K	139	696	78	387	172·1	−13·3	+24·6
4·211	M	85	544	55	350	173·3	−13·4	+39·2
5·475	G	47	332	42	298	174·1	−12·7	+56·7
6·525	G	21	223	31	327	174·4	−12·7	+70·8
7·504	G	4	112	16	429	174·6	−12·7	+83·9
Means ...	...	...	...	46	338	171·62	−13·72	...

Group 5839.

A cluster of very small spots, gradually extending into an irregular stream.

Mar. 29·541	G	0	36	0	19	207·7	+11·3	− 1·3
30·240	M	9	71	5	38	207·1	+12·1	+ 7·4
31·118	K	32	191	18	108	207·7	+11·9	+19·6
Apr. 1·279	M	36	144	24	95	208·5	+12·0	+35·7
2·381	M	18	107	16	93	210·2	+11·9	+51·9
3·194	K	4	23	5	29	211·9	+11·9	+64·4
4·211	M	0	7	0	16	209·5	+12·6	+75·4
Means ...	...	...	...	10	57	208·94	+11·96	...

Group 5838.

A very small spot, not seen on April 1.

Mar. 30·240	M	1	5	1	4	144·2	− 6·3	−55·5
31·118	K	0	6	0	4	144·3	− 5·9	−43·8
Apr. 1·279	M	0	0	0	0	...	...	...
2·381	M	1	14	1	7	144·7	− 5·6	−13·6
Means ...	...	...	...	1	4	144·40	− 5·93	...

Group 5843.

Return of Group 5817. A large regular spot, *a*, with occasionally some very small companions.

Mar. 31·118	K	10	60	35	208	109·1	+18·7	−79·0
Apr. 1·279	M	27	172	39	243	107·4	+19·0	−65·4
2·381	M	47	171	43	157	106·6	+19·4	−51·7

Group 5843—*continued.*

1906. d						°	°	°
Apr. 3·194	K	41	367	30	270	106·9	+19·0	−40·6
4·211	M	54	406	34	258	106·3	+19·5	−27·8
5·475	G	77	439	44	248	106·2	+19·0	−11·2
6·525	G	75	470	42	261	106·1	+18·7	+ 2·5
7·504	G	61	404	35	231	106·0	+18·6	+15·3
8·473	G	73	353	46	222	106·0	+18·9	+28·1
9·639	G	41	266	32	203	105·7	+19·0	+43·2
10·474	G	32	206	31	199	105·6	+19·3	+54·1
11·526	G	13	107	20	164	105·3	+19·3	+67·6
12·479	G	0	19	0	90	106·8	+19·6	+81·7
Means ...	...	...	...	33	212	106·46	+19·08	...

Group 5841.

A few small spots in an irregular stream.

Apr. 1·279	M	22	55	12	31	196·8	+ 7·4	+24·0
2·381	M	18	114	12	74	196·4	+ 8·2	+38·1
3·194	K	6	69	6	54	196·7	+ 7·4	+49·2
4·211	M	2	46	3	56	198·5	+ 7·5	+64·4
Means ...	...	...	...	8	54	197·10	+ 7·63	...

Group 5842.

A few small spots in an irregular stream. The leader, *a*, develops into a regular spot.

Apr. 1·279	M	0	22	0	12	161·2	+11·5	−11·6
2·381	M	41	153	22	82	162·1	+12·7	+ 3·8
3·194	K	15	186	9	103	164·6	+12·2	+17·1
4·211	M	28	154	17	96	166·1	+12·5	+32·0
5·475	G	25	84	20	69	166·2	+12·4	+48·8
6·525	G	8	51	9	62	166·6	+12·2	+63·0
7·504	G	0	13	0	28	166·0	+12·1	+75·3
Means ...	...	...	...	11	65	164·69	+12·23	...

Group 5840.

Two small spots, *np* Group 5839.

Apr. 2·381	M	0	12	0	14	218·5	+19·8	+60·2
Means ...	...	...	...	0	14	218·5	+19·8	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of		Area for Group.		Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
		Umbra.	Whole Spot.	Umbra.	Whole Spot.			
Group 5845. Two very small spots.								
1906. d Apr. 2·381	M	0	19	0	11	° 176·9	° −19·2	° +18·6
Means ...	...	...	...	0	11	176·9	−19·2	...
Group 5846. Two very small spots.								
Apr. 4·211	M	0	18	0	9	145·6	− 6·2	+11·5
Means ...	...	...	...	0	9	145·6	− 6·2	...
Group 5847. A few small spots in an unstable stream. It has disappeared by April 11, but one or two small markings are seen near its place on April 12 and 13.								
Apr. 4·211	M	0	23	0	25	76·2	+18·7	−57·9
5·475	G	9	74	7	54	77·3	+18·3	−40·1
6·525	G	53	255	33	159	76·7	+18·5	−26·9
7·504	G	12	99	7	57	76·1	+18·3	−14·6
8·473	G	30	229	17	129	75·0	+19·0	− 2·9
9·639	G	0	38	0	22	74·5	+19·4	+12·0
10·474	G	0	15	0	9	71·9	+21·1	+20·4
11·526	G	0	0	0	0	...	...	...
12·479	G	0	5	0	4	76·3	+16·4	+51·2
13·277	M	0	12	0	12	68·8	+19·2	+54·3
Means ...	...	...	...	6	47	74·76	+18·77	...
Group 5848. A small spot.								
Apr. 4·211	M	0	6	0	8	69·1	+19·3	−65·0
5·475	G	0	21	0	18	69·1	+18·8	−48·3
Means ...	...	...	...	0	13	69·10	+19·05	...
Group 5849. Return of Group 5821. A fine stream of unusual form, the largest and most stable spots, *a* and *b*, being in the rear of the stream. The preceding part of the group has disappeared by April 13. *a* and *b* are both regular in shape.								
Apr. 5·475	G	12	108	25	228	45·2	+23·8	−72·2
6·525	G	51	470	60	551	44·8	+24·1	−58·8
7·504	G	82	601	71	513	44·5	+23·8	−46·2
8·473	G	108	678	77	478	43·7	+23·8	−34·2
Group 5849—*continued.*								
1906. d Apr. 9·639	G	152	1039	94	641	° 42·9	° +24·1	° −19·6
10·474	G	139	932	81	550	42·1	+24·0	− 9·4
11·526	G	113	748	65	436	41·8	+24·0	+ 4·1
12·479	G	106	630	64	382	41·4	+24·5	+16·3
13·277	M	74	532	48	346	41·7	+24·6	+27·2
14·478	G	52	353	41	282	41·7	+24·3	+43·0
15·323	M	40	228	41	233	41·8	+24·3	+54·3
16·503	G	8	103	16	175	40·6	+24·1	+68·6
17·224	M	0	11	0	46	42·8	+22·7	+80·4
Means ...	...	...	...	53	374	42·69	+24·01	...
Group 5848*. A small spot.								
Apr. 7·504	G	2	11	2	9	140·9	+ 8·2	+50·2
Means ...	...	...	...	2	9	140·9	+ 8·2	...
Group 5849*. Two very small spots.								
Apr. 7·504	G	0	30	0	17	114·9	+12·0	+24·2
Means ...	...	...	...	0	17	114·9	+12·0	...
Group 5850. A few very small spots in a sparse stream.								
Apr. 7·504	G	18	47	10	25	75·3	+ 7·7	−15·4
8·473	G	0	32	0	17	75·3	+ 7·5	− 2·6
Means ...	...	...	...	5	21	75·30	+ 7·60	...
Group 5850*. A very small faint spot.								
Apr. 7·504	G	0	5	0	4	41·8	−18·6	−48·9
Means ...	...	...	...	0	4	41·8	−18·6	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5852.

A straggling stream, soon becoming little more than two distant spots, *a* and *b*, the original leader and rearguard. *a* alone remains by April 13. A fresh outburst occurs in the rear of the group on April 16.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Apr. 7·504	G	0	8	0	12	20·1	−18·7	−70·6
8·473	G	14	90	13	87	18·8	−19·4	−59·1
9·639	G	47	330	33	232	18·6	−19·0	−43·9
10·474	G	35	292	22	179	18·7	−19·2	−32·8
11·526	G	29	223	16	121	20·4	−19·6	−17·3
12·479	G	35	156	18	81	21·1	−19·6	− 4·0
13·277	M	23	80	12	41	22·2	−19·6	+ 7·7
14·478	G	0	28	0	16	22·8	−19·1	+24·1
15·323	M	0	13	0	8	22·5	−18·7	+35·0
16·503	G	25	122	19	88	16·8	−19·7	+44·8
17·224	M	12	49	11	43	17·6	−19·5	+55·2
18·216	M	0	8	0	12	20·3	−18·6	+71·0
Means ...	...	...	...	12	77	19·99	−19·23	...

Group 5851.

A very small spot.

Apr. 8·473	G	0	7	0	7	135·8	−14·8	+57·9
Means ...	...	...	...	0	7	135·8	−14·8	...

Group 5853.

A regular spot, *a*, with occasionally one or two small companions.

Apr. 9·639	G	25	129	17	88	22·7	+ 7·9	−39·8
10·474	G	14	108	8	64	23·4	+ 7·5	−28·1
11·526	G	0	48	0	25	24·8	+ 7·4	−12·9
12·479	G	7	36	4	19	24·9	+ 7·8	− 0·2
Means ...	...	...	...	7	49	23·95	+ 7·65	...

Group 5854.

A very small spot on April 10. The group is not seen on April 11, but has re-appeared by April 12 as a straggling stream, which soon resolves itself into two distant spots, *a* and *b*. *b* has broken up by April 16.

Apr. 10·474	G	0	4	0	3	0·9	+11·1	−50·6
11·526	G	0	0	0	0	...	...	...
12·479	G	21	93	12	54	1·1	+11·3	−24·0
13·277	M	48	190	26	102	1·9	+11·3	−12·6
14·478	G	9	116	5	60	3·8	+10·7	+ 5·1
15·323	M	31	90	17	49	3·6	+11·2	+16·1
16·503	G	9	50	6	31	3·0	+11·2	+31·0
17·224	M	8	41	6	29	2·6	+12·2	+40·2
18·216	M	1	16	1	15	4·2	+11·2	+54·9
Means ...	...	...	...	8	38	2·64	+11·28	...

Group 5855.

Return of Group 5826. A large cluster of which a close pair of large regular spots, *a* and *b*, forms the chief item. *a* and *b* alone remain after April 25.

1906. d						°	°	°
Apr. 14·478	G	9	102	39	448	277·0	+15·7	−81·7
15·323	M	32	178	63	355	274·3	+15·6	−73·2
16·503	G	64	344	64	346	275·0	+15·9	−57·0
17·224	M	71	478	57	387	274·6	+16·1	−47·8
18·216	M	100	629	65	412	275·2	+16·1	−34·1
19·656	G	114	825	64	461	274·3	+16·1	−15·9
20·227	M	127	794	69	431	274·4	+16·6	− 8·3
21·451	G	86	552	47	299	274·7	+15·6	+ 8·1
22·675	G	67	499	39	291	273·4	+15·6	+23·0
23·449	G	73	430	48	277	273·6	+15·7	+33·4
24·603	G	60	361	50	299	274·0	+16·1	+49·1
25·509	G	25	192	27	210	273·0	+15·7	+60·0
26·233	M	13	132	22	219	273·7	+16·0	+70·3
Means ...	...	...	...	50	341	274·40	+15·91	...

Group 5854*.

A small cluster of very faint spots.

Apr. 15·323	M	0	57	0	37	315·5	+15·1	−32·0
Means ...	...	...	...	0	37	315·5	+15·1	...

Group 5856.

A pair of small spots.

Apr. 16·503	G	27	104	24	91	23·5	+15·4	+51·5
17·224	M	7	40	9	47	24·2	+16·0	+61·8
18·216	M	2	22	6	61	27·3	+15·3	+78·0
Means ...	...	...	...	13	66	25·00	+15·57	...

Group 5857.

A few very small unstable spots. The group is not seen on April 18 and 21.

Apr. 16·503	G	2	8	1	5	306·5	−22·8	−25·5
17·224	M	2	13	1	7	306·8	−21·8	−15·6
18·216	M	0	0	0	0	...	...	...
19·656	G	0	54	0	29	304·3	−21·7	+14·1
20·227	M	3	32	2	18	304·3	−21·7	+21·6
21·451	G	0	0	0	0	...	...	...
22·675	G	0	7	0	6	304·3	−21·2	+53·9
Means ...	...	...	...	1	9	305·24	−21·84	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of		Area for Group.		Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
		Umbra.	Whole Spot.	Umbra.	Whole Spot.			
Group 5857*. A very small spot.								
1906. d						°	°	°
Apr. 20·227	M	0	4	0	3	336·4	−13·2	+53·7
Means ...	...	...	...	0	3	336·4	−13·2	...
Group 5855*. Two very small spots, *sf* Group 5855.								
Apr. 22·675	G	1	26	1	14	259·8	+13·8	+ 9·4
Means ...	...	...	...	1	14	259·8	+13·8	...
Group 5855†. Two very small spots, *sf* Group 5855*.								
Apr. 23·449	G	0	11	0	5	240·6	+ 9·4	+ 0·4
Means ...	...	...	...	0	5	240·6	+ 9·4	...
Group 5855‡. A very small spot, *f* Group 5855†.								
Apr. 23·449	G	0	5	0	3	220·7	+10·3	−19·5
Means ...	...	...	...	0	3	220·7	+10·3	...
Group 5858. Return of Group 5842. A few small spots in a very irregular stream. The group is not seen on April 29.								
Apr. 23·449	G	0	30	0	99	160·2	+10·9	−80·0
24·603	G	25	155	32	196	159·8	+11·4	−65·1
25·509	G	33	214	29	194	158·8	+12·0	−54·2
26·233	M	22	123	16	90	159·1	+11·9	−44·3
27·515	G	18	96	10	55	161·3	+12·1	−25·1
28·540	G	5	40	3	22	160·1	+12·1	−12·8
29·476	G	0	0	0	0	...	...	...
30·674	G	0	19	0	10	159·2	+10·7	+14·5
Means ...	...	...	...	11	83	159·79	+11·59	...
Group 5859. An irregular stream, undergoing great and frequent changes, forming immediately in advance of Group 5858. The leader, *a*, has become a large regular spot by April 27, but has divided into two portions by April 30, though the two parts are still measured together.								
1906. d						°	°	°
Apr. 25·509	G	5	41	3	30	170·6	+13·5	−42·4
26·233	M	84	424	53	267	171·3	+13·5	−32·1
27·515	G	70	481	38	258	176·4	+12·3	−10·0
28·540	G	87	677	45	355	174·2	+11·7	+ 1·3
29·476	G	64	521	35	282	174·9	+11·4	+14·4
30·674	G	63	690	38	409	173·4	+11·1	+28·7
May 1·432	G	76	530	52	356	174·1	+11·4	+39·4
2·358	M	35	426	30	367	174·9	+11·6	+52·5
3·370	M	27	153	36	202	175·3	+11·8	+66·3
4·508	G	10	61	31	199	174·4	+11·4	+80·4
Means ...	...	...	...	36	273	173·95	+11·97	...
Group 5860. One or two very small faint unstable spots, *nf* Group 5858.								
Apr. 25·509	G	0	24	0	56	137·8	+20·2	−75·2
26·233	M	0	16	0	23	138·0	+20·0	−65·4
27·515	G	2	33	2	26	140·6	+19·8	−45·8
28·540	G	0	33	0	23	135·9	+19·5	−37·0
Means ...	...	...	...	1	32	138·08	+19·88	...
Group 5861. A very close pair of small spots.								
Apr. 26·233	M	5	25	6	28	265·9	−29·9	+62·5
Means ...	...	...	...	6	28	265·9	−29·9	...
Group 5861*. A very small spot.								
Apr. 26·233	M	0	7	0	4	180·1	−14·5	−23·3
Means ...	...	...	...	0	4	180·1	−14·5	...
Group 5862. Two spots seen only close to the west limb.								
Apr. 27·515	G	14	47	22	78	256·8	+14·8	+70·4
Means ...	...	...	...	22	78	256·8	+14·8	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5863.

A few spots in a short stream, *f* Group 5858.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Apr. 27·515	G	6	23	4	14	153·0	+10·7	−33·4
28·540	G	2	10	1	6	153·0	+10·7	−19·9
29·476	G	29	164	15	87	152·0	+11·2	− 8·5
30·674	G	27	135	15	70	151·9	+10·8	+ 7·2
May 1·432	G	12	117	7	64	153·0	+11·3	+18·3
2·358	M	3	25	2	15	154·2	+11·9	+31·8
3·370	M	0	21	0	16	155·6	+12·3	+46·6
Means ...	...	...	...	6	39	153·24	+11·27	...

Group 5864.

A small stream, *nf* Group 5863. The leading spot, *a*, is the largest and most stable member of the stream.

May 1·432	G	15	96	9	56	143·9	+24·7	+ 9·2
2·358	M	34	166	21	104	145·0	+24·9	+22·6
3·370	M	17	120	12	88	145·6	+25·4	+36·6
4·508	G	5	54	5	50	144·9	+25·3	+50·9
5·400	G	0	4	0	6	146·5	+25·2	+64·3
Means ...	...	...	...	9	61	145·18	+25·10	...

Group 5864*.

A very small spot, seen only near the west limb.

May 4·508	G	0	7	0	7	152·3	− 6·8	+58·3
Means ...	...	...	...	0	7	152·3	− 6·8	...

Group 5865.

Return of Group 5854. A large regular spot, *a*, with occasionally a few small companions.

May 4·508	G	7	45	23	148	13·5	+ 8·8	−80·5
5·400	G	15	79	21	104	15·2	+ 8·4	−67·0
6·290	M	23	172	21	157	14·7	+ 8·3	−55·8
7·325	M	27	277	19	191	14·8	+ 8·2	−42·0
8·447	G	52	345	30	197	15·1	+ 7·2	−26·8
9·239	M	52	387	27	203	15·6	+ 7·3	−15·9
10·403	M	59	347	30	175	15·6	+ 6·3	− 0·5
11·213	M	41	285	21	146	16·2	+ 6·7	+10·8
12·516	G	31	312	18	179	16·1	+ 6·2	+28·0
13·302	M	22	213	14	139	17·0	+ 6·6	+39·3
14·663	G	22	160	20	148	16·5	+ 6·6	+56·7
15·469	G	10	51	13	69	16·8	+ 6·2	+67·7
16·445	G	10	36	29	108	16·3	+ 6·5	+80·2
Means ...	..	...	...	22	151	15·65	+ 7·18	...

Group 5866.

A very large regular spot, *a*, closely followed by a train of small spots.

1906. d						°	°	°
May 4·508	G	10	71	46	342	8·7	−20·8	−85·3
5·400	G	26	355	51	778	5·0	−21·4	−77·2
6·290	M	50	514	61	633	4·9	−21·3	−65·6
7·325	M	80	598	66	499	5·2	−21·1	−51·6
8·447	G	94	621	60	399	6·2	−21·2	−35·7
9·239	M	79	641	46	373	6·2	−21·0	−25·3
10·403	M	79	635	42	341	5·6	−21·5	−10·5
11·213	M	89	633	46	329	6·2	−20·8	+ 0·8
12·516	G	96	635	53	351	5·8	−20·6	+17·7
13·302	M	71	564	43	338	6·2	−20·9	+28·5
14·663	G	54	454	40	339	5·5	−20·8	+45·7
15·469	G	41	332	38	309	5·1	−21·2	+56·0
16·445	G	22	191	31	273	5·0	−21·4	+68·9
17·204	M	0	92	0	250	5·6	−22·0	+79·5
Means ...	...	...	...	45	397	5·80	−21·14	...

Group 5867.

A few very small spots in an irregular stream. The group suddenly develops after May 13 into a fine stream which quickly consists of three large spots, *a*, *b* and *c*. *b* and *c* soon coalesce to form a large composite spot, *d*.

May 6·290	M	4	18	8	35	356·5	+12·5	−74·0
7·325	M	3	17	3	19	355·2	+12·8	−61·6
8·447	G	0	15	0	12	355·5	+12·7	−46·4
9·239	M	3	29	2	19	355·4	+13·4	−36·1
10·403	M	2	8	1	5	355·5	+13·1	−20·6
11·213	M	2	8	1	4	355·9	+13·9	− 9·5
12·516	G	5	23	3	12	354·7	+12·5	+ 6·6
13·302	M	12	92	7	49	354·7	+12·5	+17·0
14·663	G	135	777	87	497	355·5	+12·0	+35·7
15·469	G	120	954	90	718	355·4	+12·2	+46·3
16·445	G	112	876	114	881	354·8	+12·3	+58·7
17·204	M	113	643	171	945	355·1	+12·0	+69·0
18·603	G	13	105	70	559	351·6	+11·9	+84·0
Means ...	...	...	...	43	289	355·06	+12·60	...

Group 5865*.

A few small spots.

May 7·325	M	17	62	9	32	57·2	+15·2	+ 0·4
8·447	G	0	29	0	16	58·6	+14·2	+16·7
9·239	M	0	31	0	18	57·8	+15·2	+26·3
Means ...	...	...	...	3	22	57·87	+14·87	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5868.

A few very small spots, *f* Group 5865.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
May 7·325	M	6	37	5	28	9·8	+10·3	−47·0
8·447	G	0	15	0	9	9·5	+10·2	−32·4
9·239	M	0	59	0	32	10·5	+10·0	−21·0
Means ...	...	...	...	2	23	9·93	+10·17	...

Group 5869.

A very interesting group commencing as some faint markings. It is not seen on May 12, but breaks out afresh on May 13 as a nearly circular ring of spots enclosing a great area of the surface. The spots of the ring draw out on May 14 and 15, to form a very compact stream, of which *a* and *b*, the first and the last spots, are the largest.

May 11·213	M	0	11	0	12	306·4	+14·2	−59·0
12·516	G	0	0	0	0	...	...	...
13·302	M	100	449	64	284	304·7	+14·9	−33·0
14·663	G	155	1274	84	695	303·9	+14·5	−15·9
15·469	G	161	1494	85	783	303·3	+14·2	− 5·8
16·445	G	197	1498	104	791	303·9	+14·5	+ 7·8
17·204	M	314	1775	173	984	304·0	+14·2	+17·9
18·603	G	184	1127	120	735	303·9	+14·3	+36·3
19·637	G	130	857	107	712	304·7	+14·6	+50·7
20·205	M	107	759	108	770	305·0	+14·4	+58·6
21·212	M	60	403	108	718	305·8	+14·0	+72·7
22·394	M	0	17	0	52	297·6	+13·3	+80·1
Means ...	...	...	...	79	545	303·93	+14·28	...

Group 5869*.

A very small spot, *np* Group 5869.

May 13·302	M	0	7	0	4	323·3	+21·0	−14·4
Means ...	...	...	...	0	4	323·3	+21·0	...

Group 5870.

Return of Group 5859. Third apparition. A long irregular stream, divided into three principal sections. *a*, the principal spot in the first section, is a large, well-defined, composite spot. *b*, the principal spot in the second section, soon breaks up into a number of small spots. The two following sections of the group have disappeared by May 29.

May 18·603	G	7	55	36	292	183·3	+ 8·8	−84·3
19·637	G	44	355	85	762	178·0	+ 9·2	−76·0
20·205	M	71	565	90	787	178·1	+ 9·3	−68·3
21·212	M	115	829	102	736	178·6	+ 9·4	−54·5
22·394	M	160	1167	105	769	178·7	+ 9·6	−38·8
23·468	G	155	973	87	544	179·8	+ 9·6	−23·4

Group 5870—*continued.*

1906. d						°	°	°
May 24·645	G	131	857	69	447	180·0	+10·1	− 7·7
25·679	G	93	823	49	426	180·9	+ 9·8	+ 6·9
26·207	M	149	882	79	466	181·6	+ 9·8	+14·6
27·343	M	123	848	74	519	183·5	+ 9·1	+31·5
28·711	G	64	486	51	388	184·2	+ 9·1	+50·3
29·486	G	34	302	35	316	184·3	+ 9·5	+60·7
30·116	K	33	184	55	312	(184·9)	(+ 9·5)	(+69·6)
31·133	K	6	66	30	313	185·6	+ 9·6	+83·8
Means ...	...	...	...	68	505	181·54	+ 9·46	...

Group 5871.

Two large spots, *a* and *b*, with a few small companions. *a* is at first a double spot, but its two sections soon completely coalesce. *b* gradually breaks up.

May 23·468	G	38	335	70	606	129·9	+11·1	−73·3
24·645	G	96	596	94	574	130·2	+11·3	−57·5
25·679	G	128	874	93	627	130·1	+11·4	−43·9
26·207	M	152	949	98	612	130·4	+11·9	−36·6
27·343	M	190	1140	106	633	130·6	+11·8	−21·4
28·711	G	150	1056	78	545	131·5	+11·6	− 2·4
29·486	G	135	918	71	479	131·7	+11·8	+ 8·1
30·116	K	139	896	76	487	(131·7)	(+11·8)	(+16·4)
31·133	K	177	948	106	566	131·6	+11·9	+29·8
June 1·519	G	98	663	75	511	131·7	+12·2	+48·2
2·343	M	66	457	67	469	132·6	+12·6	+60·0
3·159	K	34	272	56	421	132·5	+12·6	+70·7
4·131	K	7	70	39	333	133·0	+12·8	+84·1
Means ...	...	...	...	79	528	131·35	+11·91	...

Group 5872.

A few small spots in an irregular stream, *f* Group 5870. The leader, *a*, is the largest and most stable member of the group at first. The group diminishes in size up to May 27, after which it revives, and becomes a straight stream of the ordinary type; *a* and *b*, the first and last spots, being the largest.

May 24·645	G	11	134	6	82	154·5	+ 8·3	−33·2
25·679	G	47	218	26	117	155·2	+ 7·7	−18·8
26·207	M	30	142	16	74	154·9	+ 8·2	−12·1
27·343	M	26	155	12	80	154·5	+ 7·9	+ 2·5
28·711	G	62	394	33	213	153·6	+ 7·8	+19·7
29·486	G	61	412	36	243	154·3	+ 7·7	+30·7
30·116	K	58	394	40	268	(154·8)	(+ 7·7)	(+39·5)
31·133	K	39	306	33	262	155·4	+ 7·6	+53·6
June 1·519	G	20	109	36	182	155·8	+ 7·0	+72·3
2·343	M	0	21	0	63	153·0	+ 8·1	+80·4
Means ...	...	...	...	24	158	154·60	+ 7·80	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5874.

A few small unstable spots, not seen on May 28.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
May 25·679	G	12	127	8	86	141·3	+26·0	−32·7
26·207	M	6	97	4	62	141·1	+27·3	−25·9
27·343	M	0	36	0	21	141·8	+26·2	−10·2
28·711	G	0	0	0	0	...	...	...
29·486	G	0	37	0	21	136·1	+27·1	+12·5
Means ...	...	...	...	2	38	140·08	+26·65	...

Group 5873.

A few small unstable spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
May 25·679	G	12	88	14	103	111·2	+16·7	−62·8
26·207	M	14	97	13	94	110·3	+17·2	−56·7
27·343	M	7	74	5	52	110·1	+17·6	−41·9
28·711	G	11	74	6	42	110·2	+16·8	−23·7
29·486	G	12	33	6	18	111·8	+16·4	−11·8
30·116	K	11	34	6	18	(111·9)	(+16·5)	(− 3·4)
31·133	K	2	19	1	9	112·1	+16·7	+10·3
Means ...	...	...	...	7	48	111·09	+16·84	...

Group 5875.

A few small spots, seen only close to the west limb.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
May 26·207	M	0	19	0	15	216·3	+16·9	+49·3
27·343	M	8	92	10	118	217·4	+17·0	+65·4
Means ...	...	...	...	5	67	216·85	+16·95	...

Group 5876.

A few small spots in a short stream. *a* and *b*, the first and last spots, are the largest and most stable members.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
May 27·343	M	0	21	0	16	103·1	−12·4	−48·9
28·711	G	29	176	17	104	104·3	−12·0	−29·6
29·486	G	44	313	24	170	104·3	−11·8	−19·3
30·116	K	58	243	30	125	(104·5)	(−11·4)	(−10·8)
31·133	K	28	186	14	96	104·8	−10·9	+ 3·0
June 1·519	G	10	121	6	67	105·5	−10·4	+22·0
2·343	M	0	91	0	56	105·2	− 9·6	+32·6
3·159	K	0	4	0	3	102·2	−10·7	+40·4
Means ...	...	...	...	11	80	104·24	−11·15	...

Group 5877.

A few small spots on May 29. The group is not seen on May 30 or 31, but has revived by June 1. It then consists of a small dark spot, *a*, followed by a train of very small unstable spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
May 29·486	G	0	25	0	51	47·5	−11·4	−76·1
30·116	K	0	0	0	0	...	...	...
31·133	K	0	0	0	0	...	...	...
June 1·519	G	14	71	9	44	50·0	−14·0	−33·5
2·343	M	24	102	13	58	49·7	−14·3	−22·9
3·159	K	9	43	5	23	50·1	−14·0	−11·7
4·131	K	2	59	1	31	49·2	−13·5	+ 0·3
Means ...	...	...	...	4	30	49·30	−13·44	...

Group 5879*.

A very small spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
May 29·486	G	0	6	0	5	72·9	−17·0	−50·7
Means ...	...	...	...	0	5	72·9	−17·0	...

Group 5878.

A stream of small spots in a beautiful serpentine curve at first, but straightening out into a stream of normal type; *a* and *b*, the first and last spots, being the largest. *b* has disappeared by June 8, but a revival takes place in this part of the group on June 9 and 10.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
May 31·133	K	0	12	0	21	29·7	+14·8	−72·1
June 1·519	G	0	29	0	26	28·3	+15·3	−55·2
2·343	M	24	161	17	122	26·4	+15·1	−46·2
3·159	K	19	242	12	153	27·1	+15·1	−34·7
4·131	K	30	233	17	130	27·8	+15·5	−21·1
5·678	G	42	331	22	173	28·9	+15·2	+ 0·4
6·518	G	25	335	13	178	28·5	+15·4	+11·1
7·414	G	19	141	11	83	32·7	+15·0	+27·3
8·675	G	19	71	14	53	35·5	+14·7	+46·7
9·476	G	25	94	22	87	34·0	+14·8	+55·8
10·170	K	5	47	7	62	35·8	+14·8	+66·8
Means ...	...	...	...	12	99	30·43	+15·06	...

Group 5877*.

A very small faint spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
June 1·519	G	0	6	0	3	71·0	−11·5	−12·5
Means ...	...	...	...	0	3	71·0	−11·5	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5880.

A small faint spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d June 2·343	M	0	10	0	14	° 5·7	° +11·7	° −66·9
Means ...	...	...	...	0	14	5·7	+11·7	...

Group 5881.

Return of Group 5866. A number of small scattered unstable spots.

June 2·343	M	0	11	0	19	2·6	−26·8	−70·0
3·159	K	0	30	0	32	1·8	−24·5	−60·0
4·131	K	0	58	0	47	0·7	−23·1	−48·2
5·678	G	25	217	16	135	0·4	−24·4	−28·1
6·518	G	72	422	42	247	0·4	−25·6	−17·0
7·414	G	37	218	21	122	359·8	−25·2	− 5·6
8·675	G	2	60	1	33	358·9	−26·6	+10·1
9·476	G	5	21	2	13	358·9	−25·7	+20·7
10·170	K	0	7	0	5	358·9	−24·3	+29·9
Means ...	...	...	...	9	73	0·27	−25·13	...

Group 5879.

A pair of very small spots near the place of Group 5879*.

June 2·343	M	4	20	2	10	78·2	−14·1	+ 5·6
Means ...	...	...	...	2	10	78·2	−14·1	...

Group 5880*.

A very small spot, *f* the place of Group 5880.

June 5·678	G	0	5	0	3	354·0	+11·7	−34·5
Means ...	...	...	...	0	3	354·0	+11·7	...

Group 5882.

A number of small unstable spots in an irregular stream, *np* Group 5881. The leader, *a*, is the largest and most stable spot.

June 3·159	K	1	7	1	7	5·6	−17·2	−56·2
4·131	K	6	32	4	22	7·4	−17·3	−41·5
5·678	G	19	230	10	133	5·9	−17·9	−22·6
6·518	G	20	191	11	101	8·6	−17·1	− 8·8
7·414	G	36	192	19	102	8·0	−17·2	+ 2·6
8·675	G	18	82	10	45	7·8	−17·1	+19·0
9·476	G	12	40	7	24	8·3	−17·2	+30·1
10·170	K	1	30	1	20	7·8	−16·5	+38·8
11·670	G	0	41	0	37	2·1	−20·9	+52·9
Means ...	...	...	...	7	55	6·83	−17·60	...

Group 5883.

A few small unstable spots in two clusters, *a* and *b*, *f* Group 5881. Groups 5881, 5882, and 5883 together form a wide area of small disturbances.

1906. d June 4·131	K	5	56	5	52	° 354·5	° −20·9	° −54·4
5·678	G	10	127	6	82	354·7	−20·6	−33·8
6·518	G	8	40	5	23	352·7	−21·1	−24·7
7·414	G	0	35	0	20	352·4	−21·0	−13·0
Means ...	...	...	...	4	44	353·58	−20·90	...

Group 5884.

A regular spot diminishing in size.

June 4·131	K	8	46	20	109	331·9	+17·7	−77·0
5·678	G	10	46	9	43	332·5	+17·6	−56·0
6·518	G	11	70	8	52	331·5	+17·7	−45·9
7·414	G	5	31	3	20	331·3	+18·3	−34·1
Means ...	...	...	...	10	56	331·80	+17·83	...

Group 5884*.

A few small spots, *p* Group 5884.

June 6·518	G	0	22	0	13	347·7	+19·5	−29·7
7·414	G	2	34	1	19	347·6	+19·5	−17·8
Means ...	...	...	...	1	16	347·65	+19·50	...

Group 5885.

Return of Group 5869. A large regular spot, *a*, followed by several small companions on June 9 and the succeeding days.

June 5·678	G	19	76	56	221	308·7	+14·1	−79·8
6·518	G	37	152	58	236	306·7	+14·1	−70·7
7·414	G	41	205	41	208	306·0	+14·1	−59·4
8·675	G	32	283	23	199	306·0	+13·9	−42·8
9·476	G	53	352	32	216	305·6	+14·2	−32·6
10·170	K	59	362	33	205	305·5	+13·9	−23·5
11·670	G	76	498	40	258	304·5	+13·6	− 4·7
12·670	G	64	410	33	214	304·4	+13·8	+ 8·4
13·201	M	62	372	33	197	304·8	+14·3	+16·0
14·283	M	42	327	25	196	305·1	+14·7	+30·5
15·686	G	37	205	29	159	304·4	+14·4	+48·4
16·500	G	22	157	21	156	304·1	+14·5	+58·9
17·518	G	10	77	17	137	305·3	+14·4	+73·5
Means ...	...	...	...	34	200	305·47	+14·15	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5885*.

A small spot seen only close to the east limb in the midst of bright faculæ.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d June 6·518	G	0	12	0	20	° 305·5	° − 9·0	° −71·9
Means ...	...	...	...	0	20	305·5	− 9·0	...

Group 5886.

A number of spots in a short broad stream, appearing suddenly and developing quickly. The two principal spots on the north side of the stream are *a* and *b*. *b* has divided into a cluster of spots by June 11, of which the leader, *c*, is measured by itself, and the rest of the cluster, *d*, is usually measured as one object.

June 8·675	G	47	184	26	102	3·5	+21·3	+14·7
9·476	G	98	368	58	221	3·6	+21·1	+25·4
10·170	K	80	428	48	268	2·8	+21·2	+33·8
11·670	G	67	418	59	374	2·8	+20·4	+53·6
12·670	G	52	539	68	694	1·7	+20·6	+65·7
13·201	M	33	274	59	511	2·6	+20·5	+73·8
14·283	M	7	53	27	190	356·6	+19·7	+82·0
Means ...	...	...	...	49	337	1·94	+20·69	...

Group 5887.

A cluster of small spots.

June 14·283	M	6	37	4	19	261·8	−10·0	−12·8
15·686	G	8	79	4	41	261·9	−10·1	+ 5·9
16·500	G	0	88	0	48	264·3	−12·3	+19·1
17·518	G	0	46	0	29	266·8	−14·9	+35·0
Means ...	...	...	...	2	34	263·70	−11·83	...

Group 5887*.

A pair of very small spots.

June 14·283	M	1	25	1	15	244·3	+11·8	−30·3
Means ...	...	...	...	1	15	244·3	+11·8	...

Group 5888*.

A very small spot, *p*, the place of Group 5888. The spot is not seen on June 16 and 17.

June 15·686	G	0	6	0	7	189·0	+ 9·5	−67·0
16·500	G	0	0	0	0	...	...	...
17·518	G	0	0	0	0	...	...	...
18·458	M	0	30	0	18	186·5	+10·3	−32·9
Means ...	...	...	...	0	6	187·75	+ 9·90	...

Group 5889*.

A compact cluster of small faint spots.

1906. d June 16·500	G	0	30	0	17	° 225·6	° −16·4	° −19·6
17·518	G	0	72	0	38	222·7	−13·6	− 9·1
Means ...	...	...	...	0	28	224·15	−15·00	...

Group 5888†.

A small spot, *sp* the place of Group 5888, and *n* that of Group 5888*.

June 16·500	G	0	46	0	44	186·8	+14·9	−58·4
17·518	G	0	22	0	16	187·8	+15·1	−44·0
Means ...	...	...	...	0	30	187·30	+15·00	...

Group 5888.

A cluster of small spots, not seen on June 25 and 26.

June 19·500	G	13	42	8	25	173·5	+ 8·8	−32·0
20·539	G	25	128	14	70	170·9	+ 9·1	−20·9
21·226	M	11	113	5	67	171·0	+ 9·4	−11·6
22·523	G	22	111	11	56	171·6	+ 8·9	+ 6·1
23·542	G	5	56	3	30	171·2	+ 9·6	+19·2
24·651	G	5	78	3	48	171·5	+ 8·4	+34·2
25·648	G	0	0	0	0	...	...	...
26·712	G	0	0	0	0	...	...	...
27·505	G	0	31	0	46	169·6	+10·4	+70·1
Means ...	...	...	...	5	38	171·33	+ 9·23	...

Group 5889.

Return of Group 5871. A regular spot, *a*, with occasionally one or two small companions.

June 19·500	G	19	72	26	97	137·4	+11·4	−68·1
20·539	G	9	80	8	72	135·9	+11·1	−55·9
21·226	M	15	78	11	58	135·4	+11·4	−47·2
22·523	G	18	158	11	92	135·6	+11·2	−29·9
23·542	G	14	111	8	58	135·9	+11·3	−16·1
24·651	G	15	98	8	49	135·6	+11·4	− 1·7
25·648	G	14	98	7	50	135·1	+11·4	+10·9
26·712	G	8	75	4	42	135·0	+11·6	+24·9
27·505	G	8	67	5	41	134·7	+11·6	+35·2
28·688	G	10	54	8	43	134·5	+12·1	+50·6
29·637	G	5	28	5	31	135·1	+11·9	+63·8
30·443	G	4	35	8	58	133·3	+12·7	+72·6
Means ...	...	...	...	9	58	135·29	+11·59	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5891.

A few very small unstable spots irregularly scattered. The group is not seen on June 23.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
June 19·500	G	0	8	0	5	176·3	−22·2	−29·2
20·539	G	5	13	3	7	174·6	−21·0	−17·2
21·226	M	4	29	2	17	174·3	−21·2	− 8·3
22·523	G	0	49	0	27	174·5	−20·6	+ 9·0
23·542	G	0	0	0	0	...	...	...
24·651	G	0	14	0	10	176·8	−19·8	+39·5
Means ...	...	...	...	1	11	175·30	−20·96	...

Group 5890.

A few very small scattered spots on June 20. Only one remains by June 21, and this increases in size as it approaches the west limb.

June 20·539	G	0	21	0	18	241·2	−25·5	+49·4
21·226	M	0	6	0	7	240·5	−25·4	+57·9
22·523	G	0	36	0	80	239·9	−25·7	+74·4
Means ...	...	...	...	0	35	240·53	−25·53	...

Group 5892.

A regular spot, *a*, with a distant follower on June 22. The group increases in size and becomes a sparse stream, consisting of two large spots, *a* and *b*, with a few very small spots, loosely scattered, between them. *a* has broken up, and *b* has disappeared by June 29.

June 21·226	M	0	30	0	59	107·4	+ 4·4	−75·2
22·523	G	22	106	18	91	111·3	+ 4·0	−54·2
23·542	G	30	249	21	170	109·8	+ 4·2	−42·2
24·651	G	67	500	38	282	109·8	+ 3·7	−27·5
25·648	G	96	513	49	265	110·1	+ 3·2	−14·1
26·712	G	78	396	39	199	110·6	+ 3·3	+ 0·5
27·505	G	51	311	26	160	112·0	+ 3·2	+12·5
28·688	G	66	243	39	141	114·2	+ 4·0	+30·3
29·637	G	33	150	24	105	115·2	+ 5·2	+43·9
30·443	G	10	89	8	76	115·4	+ 4·6	+54·7
Means ...	...	...	...	26	155	111·58	+ 3·98	...

Group 5891*.

A few very small unstable spots in a short stream.

June 22·523	G	0	40	0	21	159·6	−12·5	− 5·9
23·542	G	0	92	0	49	166·2	−15·2	+14·2
Means ...	...	...	...	0	35	162·90	−13·85	...

Group 5891†.

A few very small unstable spots irregularly scattered.

1906. d						°	°	°
June 22·523	G	0	64	0	36	148·8	−17·0	−16·7
23·542	G	0	66	0	36	151·2	−18·1	− 0·8
Means ...	...	...	...	0	36	150·00	−17·55	...

Group 5893.

A large regular spot, *a*, followed by a long train of small spots. The train has disappeared by July 4, leaving *a* alone.

June 24·651	G	13	99	27	199	61·5	+ 6·3	−75·8
25·648	G	49	306	52	330	61·7	+ 6·1	−62·5
26·712	G	112	558	83	407	63·5	+ 6·5	−46·6
27·505	G	86	594	53	366	64·2	+ 6·8	−35·3
28·688	G	100	518	53	274	66·0	+ 6·3	−17·9
29·637	G	58	412	30	209	66·7	+ 6·1	− 4·6
30·443	G	84	609	42	309	65·3	+ 6·5	+ 4·6
July 1·237	M	51	399	27	208	67·4	+ 6·2	+17·2
2·503	G	39	285	24	174	68·4	+ 5·9	+35·0
3·672	G	29	240	23	189	68·4	+ 5·9	+50·6
4·442	G	18	178	19	187	69·5	+ 5·5	+61·8
5·693	G	12	85	30	208	69·7	+ 5·4	+78·5
Means ...	...	...	...	39	255	66·03	+ 6·13	...

Group 5896.

A few small spots in a short irregular stream. The group has greatly developed by June 28, and becomes a regular spot, *a*, followed by a train of small spots. The train has disappeared by July 2, leaving *a* alone.

June 24·651	G	2	14	3	16	76·0	+21·2	−61·3
25·648	G	0	19	0	16	75·4	+21·2	−48·8
26·712	G	0	18	0	11	76·2	+21·1	−33·9
27·505	G	2	14	1	8	75·2	+21·0	−24·3
28·688	G	43	248	23	133	75·7	+21·7	− 8·2
29·637	G	63	361	33	191	76·5	+22·1	+ 5·2
30·443	G	62	400	36	221	76·3	+22·2	+15·6
July 1·237	M	36	218	22	132	78·3	+22·8	+28·1
2·503	G	15	114	11	84	77·8	+22·5	+44·4
3·672	G	12	70	12	70	76·8	+22·3	+59·0
4·442	G	9	46	14	69	78·2	+22·4	+70·5
5·693	G	0	11	0	39	74·1	+21·4	+82·9
Means ...	...	...	...	13	83	76·38	+21·83	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5894.

A cluster of small spots, developing into an irregular stream almost at right angles to the equator. A large spot, *a*, forms near the centre of the group.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
June 26·712	G	31	151	41	197	42·6	+13·3	−67·5
27·505	G	40	260	38	241	42·5	+13·3	−57·0
28·688	G	25	359	16	238	43·6	+13·4	−40·3
29·637	G	48	347	28	197	44·9	+13·1	−26·4
30·443	G	79	574	41	304	45·0	+12·5	−15·7
July 1·237	M	77	440	39	225	45·4	+12·7	− 4·8
2·503	G	53	448	28	234	45·4	+12·0	+12·0
3·672	G	34	309	19	176	45·1	+11·5	+27·3
4·442	G	45	325	29	206	44·2	+12·1	+36·5
5·693	G	28	150	24	128	45·3	+11·2	+54·1
6·447	G	15	114	17	132	45·8	+10·8	+64·6
7·729	G	10	48	27	137	44·7	+10·6	+80·4
Means ...	...	...	...	29	201	44·54	+12·21	...

Group 5893*.

Three small faint spots.

June 26·712	G	3	51	2	34	151·1	+15·1	+41·0
Means ...	...	...	...	2	34	151·1	+15·1	...

Group 5900.

One or two very small spots, *sf* Group 5894. The group is not seen on July 1.

June 26·712	G	0	17	0	26	39·1	+10·9	−71·0
27·505	G	0	37	0	38	39·4	+10·6	−60·1
28·688	G	0	10	0	7	39·7	+10·4	−44·2
29·637	G	5	15	3	9	37·9	+10·3	−33·4
30·443	G	0	19	0	11	39·7	+10·4	−21·0
July 1·237	M	0	0	0	0	...	...	...
2·503	G	0	47	0	24	37·5	+10·4	+ 4·1
Means ...	...	...	...	0	16	38·88	+10·50	...

Group 5895.

A large double spot, *a*, followed by a train of small spots. The last spot of the train, *b*, is its largest and most stable member. *b* has broken up by July 2.

June 26·712	G	29	205	40	309	40·2	− 9·5	−69·9
27·505	G	59	431	62	445	39·4	− 9·7	−60·1
28·688	G	118	742	85	531	39·9	−10·0	−44·0
29·637	G	110	835	66	502	40·6	−10·1	−30·7
30·443	G	110	730	60	397	41·1	− 9·7	−19·6

Group 5895—*continued.*

1906. d						°	°	°
July 1·237	M	154	908	80	470	41·5	− 9·6	− 8·7
2·503	G	142	827	74	432	42·0	− 9·2	+ 8·6
3·672	G	145	982	82	552	41·3	− 8·8	+23·5
4·442	G	108	717	67	449	42·3	− 9·5	+34·6
5·693	G	120	478	98	391	42·3	− 9·5	+51·1
6·447	G	63	385	68	416	42·5	− 9·6	+61·3
7·729	G	39	163	88	366	40·5	− 9·9	+76·2
Means ...	...	...	...	73	438	41·13	− 9·59	...

Group 5899.

One or two very small spots, *nf* Group 5894.

June 27·505	G	0	20	0	21	38·7	+13·7	−60·8
28·688	G	2	19	2	14	39·6	+15·0	−44·3
29·637	G	0	20	0	12	39·0	+14·9	−32·3
Means ...	...	...	...	1	16	39·10	+14·53	...

Group 5897.

Return of Group 5878. A regular spot, *a*, with several small companions.

June 27·505	G	2	20	3	27	32·0	+16·7	−67·5
28·688	G	25	172	21	143	32·0	+16·4	−51·9
29·637	G	23	148	16	100	31·6	+16·8	−39·7
30·443	G	33	194	20	116	30·7	+16·9	−30·0
July 1·237	M	23	78	13	43	30·7	+17·5	−19·5
2·503	G	12	181	6	95	31·4	+16·7	− 2·0
3·672	G	12	121	6	64	30·6	+16·8	+12·8
4·442	G	11	62	6	35	32·3	+16·4	+24·6
Means ...	...	...	...	11	78	31·41	+16·78	...

Group 5898.

Return of Group 5886. A very large regular spot, *a*, with several small companions.

June 28·688	G	69	425	134	844	8·4	+20·9	−75·5
29·637	G	132	639	152	736	7·8	+20·9	−63·5
30·443	G	160	937	138	810	7·5	+20·9	−53·2
July 1·237	M	207	1273	147	907	7·3	+21·5	−42·9
2·503	G	259	1316	152	773	7·0	+20·9	−26·4
3·672	G	273	1654	147	890	6·4	+21·0	−11·4
4·442	G	241	1421	126	747	6·4	+21·1	− 1·3
5·693	G	226	1320	123	720	6·2	+21·1	+15·0
6·447	G	200	1203	116	696	6·3	+21·1	+25·1
7·729	G	207	987	144	685	5·8	+20·8	+41·5

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5898—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
July 8·660	G	132	733	113	630	5·2	+20·6	+53·3
9·204	M	141	542	148	570	5·8	+20·8	+61·1
10·473	M	67	273	138	560	4·5	+20·6	+76·5
11·134	K	20	121	96	579	4·5	+21·3	+85·3
Means ...	...	...	...	134	725	6·36	+20·96	...

Group 5902.

A remarkable outburst; a fine stream appearing suddenly between Groups 5893 and 5896, and disappearing as suddenly.

June 29·637	G	0	44	0	23	61·1	+12·9	−10·2
30·443	G	34	214	18	109	67·6	+13·1	+ 6·9
July 1·237	M	20	153	11	81	67·6	+13·5	+17·4
2·503	G	0	48	0	30	67·6	+13·1	+34·2
Means ...	...	...	...	7	61	65·98	+13·15	...

Group 5901.

A close but irregular and unstable cluster, *s* of Group 5898. It has diminished to a small regular spot, *a*, followed by two or three very small companions by July 5.

June 29·637	G	8	64	9	69	8·8	+10·2	−62·5
30·443	G	28	221	23	177	9·2	+ 9·8	−51·5
July 1·237	M	29	265	20	174	9·3	+10·3	−40·9
2·503	G	46	416	26	232	8·5	+ 9·9	−24·9
3·672	G	55	381	27	195	8·1	+10·0	− 9·7
4·442	G	19	328	9	165	9·1	+ 9·6	+ 1·4
5·693	G	38	114	20	60	8·9	+10·5	+17·7
6·447	G	13	122	8	70	8·7	+10·8	+27·5
7·729	G	15	48	11	35	9·6	+10·3	+45·3
8·660	G	5	29	5	27	9·5	+10·3	+57·6
9·204	M	2	11	3	13	10·5	+10·4	+65·8
Means ...	...	...	...	15	111	9·11	+10·19	...

Group 5904.

A straight stream, *f* Group 5901 and *s* Group 5898. The principal spot, *a*, is a regular spot at the rear of the group and alone remains on July 9.

July 2·503	G	0	7	0	5	355·9	+ 9·2	−37·5
3·672	G	5	67	2	36	355·6	+ 9·7	−22·2
4·442	G	53	353	27	182	355·5	+10·9	−12·2
5·693	G	79	399	39	202	354·9	+11·4	+ 3·7
6·447	G	65	265	34	138	355·1	+11·8	+13·9
7·729	G	40	230	24	135	355·1	+11·6	+30·8
8·660	G	17	147	11	100	353·8	+11·1	+41·9

Group 5904—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
July 9·204	M	15	77	11	59	354·7	+12·0	+50·0
10·473	M	7	16	9	19	354·4	+12·0	+66·4
Means ...	...	...	...	17	97	355·00	+11·08	...

Group 5905.

A long sparse stream with three principal spots, *a*, *b*, and *c*, of which *c*, the last formed, is the leader. *a* soon disappears, and *b* has broken up by July 9, leaving *c*, followed by a few very small spots in a long straggling line.

July 3·672	G	0	30	0	17	352·0	+17·3	−25·8
4·442	G	39	169	21	92	353·4	+18·5	−14·3
5·693	G	79	406	41	211	355·3	+17·9	+ 4·1
6·447	G	69	367	37	197	356·6	+17·7	+15·4
7·729	G	44	331	26	201	355·7	+17·7	+31·4
8·660	G	18	180	14	127	355·6	+18·1	+43·7
9·204	M	3	34	3	27	355·3	+18·2	+50·6
10·473	M	8	39	10	48	353·7	+17·8	+65·7
11·134	K	0	17	0	31	353·6	+16·4	+74·4
Means ...	...	...	...	17	106	354·58	+17·73	...

Group 5903.

A large regular spot, *a*, followed by a short train of small spots. The group follows Group 5898.

July 3·672	G	38	264	25	173	341·4	+21·5	−36·4
4·442	G	81	555	47	325	341·7	+21·2	−26·0
5·693	G	151	761	81	407	342·1	+21·3	− 9·1
6·447	G	110	704	58	372	341·9	+21·3	+ 0·7
7·729	G	90	695	50	382	341·4	+21·1	+17·1
8·660	G	71	560	43	338	341·4	+21·0	+29·5
9·204	M	77	390	50	257	342·8	+21·5	+38·1
10·473	M	40	322	36	285	342·5	+20·9	+54·5
11·134	K	31	215	35	242	342·4	+22·1	+63·2
12·670	G	13	113	39	331	339·9	+21·4	+81·1
Means ...	...	...	...	46	311	341·75	+21·33	...

Group 5903*.

Return of Group 5885. Third apparition. A few very small faint spots. The group is not seen on July 7.

July 3·672	G	5	21	8	33	305·5	+13·9	−72·3
4·442	G	0	27	0	28	305·6	+14·2	−62·1
5·693	G	2	19	2	13	305·7	+14·1	−45·5
6·447	G	2	48	2	30	304·1	+13·8	−37·1
7·729	G	0	0	0	0	...	...	..
8·660	G	0	18	0	10	303·2	+13·6	− 8·7
Means ...	...	...	...	2	19	304·82	+13·92	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5906.

Two very small spots, *sf* Group 5901. The Groups 5898, 5901, 5903, 5904, 5905, and 5906 are parts of one great area of disturbance, of which 5898 is the leader.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
July 5·693	G	5	41	2	21	359·5	+ 4·6	+ 8·3
6·447	G	0	12	0	6	1·7	+ 4·7	+20·5
Means ...	...	...	...	1	14	0·60	+ 4·65	...

Group 5907.

A few very small unstable spots in a short stream.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
July 5·693	G	10	38	15	60	279·2	+ 5·9	−72·0
6·447	G	0	46	0	48	279·7	+ 5·3	−61·5
7·729	G	5	28	3	18	281·4	+ 4·9	−42·9
8·660	G	0	51	0	31	282·7	+ 3·4	−29·2
9·204	M	2	36	1	19	281·4	+ 5·3	−23·3
Means ...	...	...	...	4	35	280·88	+ 4·96	...

Group 5908.

A stream of spots undergoing much change. It is chiefly arranged in two clusters, each of which coalesces to form a large spot. Of these two spots, *a* and *b*, *b*, the rear spot, is the larger and more regular.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
July 5·693	G	0	17	0	18	289·7	+18·7	−61·5
6·447	G	6	51	5	41	290·4	+18·2	−50·8
7·729	G	18	117	12	72	291·3	+17·9	−33·0
8·660	G	24	104	13	56	290·5	+18·5	−21·4
9·204	M	15	70	8	37	290·3	+18·9	−14·4
10·473	M	63	319	32	164	290·2	+18·5	+ 2·2
11·134	K	90	407	47	213	289·6	+18·8	+10·4
12·670	G	47	431	28	258	289·1	+18·8	+30·3
13·209	K	61	361	39	232	288·7	+18·8	+37·1
14·532	G	29	187	25	159	287·7	+18·9	+53·5
15·261	M	15	101	16	111	287·4	+18·6	+62·9
Means ...	...	...	...	20	124	289·54	+18·60	...

Group 5910.

A pair of small spots, *a* and *b*, on July 8. Only *a* remains on July 10.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
July 8·660	G	0	23	0	13	340·3	−13·4	+28·4
9·204	M	4	34	3	22	342·8	−13·3	+38·1
10·473	M	0	12	0	11	344·2	−13·4	+56·2
Means ...	...	...	...	1	15	342·43	−13·37	...

Group 5909.

A pair of small spots, *a* and *b*, on July 8. *b* has disappeared by July 10. The group is not seen on July 13 or 15.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
July 8·660	G	5	52	4	39	264·7	+21·8	−47·2
9·204	M	9	56	6	37	266·7	+21·9	−38·0
10·473	M	4	42	2	24	263·9	+21·8	−24·1
11·134	K	3	50	2	26	261·5	+22·2	−17·7
12·670	G	2	45	1	24	260·6	+20·9	+ 1·8
13·209	K	0	0	0	0	...	...	...
14·532	G	0	20	0	12	263·8	+23·4	+29·6
15·261	M	0	0	0	0	...	...	...
16·679	G	0	14	0	13	261·6	+24·2	+55·8
Means ...	...	...	...	2	19	263·26	+22·31	...

Group 5911*.

Some very small faint spots, *p* Group 5911.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
July 10·473	M	0	18	0	9	276·8	− 7·5	−11·2
Means ...	...	...	...	0	9	276·8	− 7·5	...

Group 5911.

A few small unstable spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
July 10·473	M	8	48	5	27	262·1	− 9·8	−25·9
11·134	K	11	30	6	17	264·4	−10·0	−14·8
12·670	G	0	35	0	18	264·6	− 9·0	+ 5·8
13·209	K	0	5	0	3	264·2	− 9·5	+12·6
14·532	G	0	8	0	5	261·4	−10·9	+27·2
Means ...	...	...	...	2	14	263·34	− 9·84	...

Group 5912.

A large regular spot, *a*, with a few small companions.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
July 11·134	K	13	119	31	345	200·8	+16·9	−78·4
12·670	G	50	309	47	293	201·2	+18·6	−57·6
13·209	K	54	308	43	247	201·3	+18·7	−50·3
14·532	G	49	342	30	207	202·7	+18·5	−31·5
15·261	M	65	407	36	225	202·4	+18·5	−22·1
16·679	G	49	396	25	204	202·4	+17·7	− 3·4
17·619	G	74	371	38	193	201·9	+17·6	+ 8·6
18·641	G	55	324	31	179	201·3	+17·3	+21·6
19·653	G	47	292	29	180	200·9	+17·4	+34·5
20·532	G	39	281	28	204	200·7	+17·8	+45·9
21·088	D	32	211	27	178	(200·5)	(+18·0)	(+53·1)
22·651	G	16	100	27	167	200·2	+18·2	+73·4
Means ...	...	...	...	33	219	201·36	+17·93	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5917.

A regular spot, *a*, quickly diminishing in size, with a number of small unstable companions.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
July 12·670	G	13	130	16	157	193·3	+20·1	−65·5
13·209	K	21	154	20	149	192·8	+19·9	−58·8
14·532	G	13	155	9	106	193·2	+19·7	−41·0
15·261	M	28	160	17	96	192·9	+19·8	−31·6
16·679	G	24	151	11	80	193·8	+19·4	−12·0
17·619	G	10	66	5	35	192·4	+19·9	− 0·9
18·641	G	7	144	4	77	193·5	+20·3	+13·8
19·653	G	1	14	1	7	190·6	+19·9	+24·2
Means ...	...	...	...	10	88	192·81	+19·88	...

Group 5915.

A number of spots, mostly small and unstable, in an irregular cluster, *p* Group 5913.

July 12·670	G	0	10	0	12	192·6	+10·3	−66·2
13·209	K	6	39	7	47	186·7	+ 8·4	−64·9
14·532	G	24	123	18	90	186·8	+ 8·0	−47·4
15·261	M	38	176	24	112	186·0	+ 8·2	−38·5
16·679	G	23	101	13	54	185·6	+ 8·1	−20·2
17·619	G	11	49	5	25	186·0	+ 8·9	− 7·3
18·641	G	2	43	1	21	182·7	+ 7·1	+ 3·0
19·653	G	0	5	0	3	187·3	+ 5·3	+20·9
Means ...	...	...	...	9	46	186·71	+ 8·04	...

Group 5916.

A few small unstable spots.

July 12·670	G	0	8	0	25	180·6	−17·6	−78·2
13·209	K	0	5	0	11	178·2	−18·6	−73·4
14·532	G	10	71	11	77	175·4	−19·3	−58·8
15·261	M	13	47	11	42	174·3	−19·8	−50·2
16·679	G	10	95	7	59	176·6	−19·2	−29·2
17·619	G	2	28	1	16	173·3	−21·0	−20·0
18·641	G	2	65	1	36	176·3	−18·8	− 3·4
Means ...	...	...	...	4	38	176·39	−19·19	..

Group 5913.

A large regular spot, *a*, with a number of small unstable companions.

July 12·670	G	5	24	14	68	178·5	+ 8·8	−80·3
13·209	K	10	100	17	197	175·7	+ 9·5	−75·9
14·532	G	29	174	26	155	178·1	+ 8·7	−56·1
15·261	M	34	290	25	215	177·0	+ 9·0	−47·5
16·679	G	37	323	21	184	177·7	+ 8·8	−28·1

Group 5913—*continued.*

1906. d						°	°	°
July 17·619	G	70	383	36	199	178·2	+ 8·5	−15·1
18·641	G	69	481	34	241	176·2	+ 9·1	− 3·5
19·653	G	58	357	30	182	177·5	+ 8·9	+11·1
20·532	G	59	374	32	203	177·4	+ 8·1	+22·6
21·088	D	40	261	23	153	(178·2)	(+ 8·2)	(+30·8)
22·651	G	31	188	25	152	179·0	+ 8·3	+52·2
23·680	G	27	123	32	148	179·0	+ 8·1	+65·9
24·670	G	0	29	0	71	179·0	+ 8·5	+78·9
Means ...	...	...	...	24	167	177·81	+ 8·65	...

Group 5914.

A few very small spots in a short stream. The leader, *a*, rapidly increases in size, and becomes a regular spot.

July 13·209	K	0	13	0	6	255·0	+ 2·0	+ 3·4
14·532	G	4	37	2	21	254·3	+ 2·9	+20·1
15·261	M	15	74	9	42	255·1	+ 3·1	+30·6
16·679	G	29	158	22	120	254·5	+ 3·2	+48·7
17·619	G	14	87	16	94	256·0	+ 3·6	+62·7
18·641	G	7	88	13	175	255·5	+ 3·6	+75·8
Means ...	...	...	...	10	76	255·07	+ 3·07	...

Group 5920.

A composite spot, *a*, with a few small close companions. The group forms *p* Group 5915, and makes up with it and with Group 5913, a long procession.

July 14·532	G	12	96	8	66	191·0	+ 8·3	−43·2
15·261	M	34	214	21	129	191·3	+ 8·7	−33·2
16·679	G	22	212	11	109	193·4	+ 7·9	−12·4
17·619	G	22	88	11	45	194·1	+ 7·6	+ 0·8
18·641	G	25	71	13	36	193·9	+ 7·0	+14·2
19·653	G	0	12	0	7	194·1	+ 6·7	+27·7
Means ...	...	...	...	11	65	192·97	+ 7·70	...

Group 5918.

A compact cluster of small spots, *n* of Group 5916. It develops into a long sparse stream, of which *a* and *b*, the first and last, are the most considerable members.

July 15·261	M	9	34	8	27	175·2	−11·7	−49·3
16·679	G	25	127	16	77	175·1	−11·3	−30·7
17·619	G	16	144	9	78	176·8	−11·6	−16·5
18·641	G	28	166	16	86	177·3	−11·8	− 2·4
19·653	G	64	247	34	131	178·3	−11·6	+11·9
20·532	G	37	296	22	169	178·4	−11·2	+23·6
21·088	D	32	166	19	103	(180·2)	(−10·7)	(+32·8)

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5918—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
July 22·651	G	14	63	13	59	182·1	−10·2	+55·3
23·680	G	10	35	16	55	183·3	−10·0	+70·2
24·670	G	0	20	0	109	183·6	−11·2	+83·5
Means ...	...	...	...	15	89	179·03	−11·13	...

Group 5919.

A few small unstable spots.

July 16·679	G	13	77	7	41	208·6	−14·6	+ 2·8
17·619	G	5	46	3	25	209·4	−14·1	+16·1
18·641	G	0	30	0	19	209·0	−13·7	+29·3
Means ...	...	...	...	3	28	209·00	−14·13	...

Group 5921.

A few small spots in an irregular stream, *f* Group 5917, and making up with it, and with Group 5912 a long precession. The group is not seen on July 22.

July 16·679	G	0	14	0	8	182·7	+18·0	−23·1
17·619	G	5	88	3	46	183·6	+18·0	− 9·7
18·641	G	20	126	11	64	182·8	+18·1	+ 3·1
19·653	G	22	81	12	44	182·9	+17·6	+16·5
20·532	G	5	52	3	30	182·3	+16·6	+27·5
21·088	D	14	66	8	44	(182·3)	(+16·6)	(+34·9)
22·651	G	0	0	0	0	...	...	...
23·680	G	0	11	0	18	186·0	+17·8	+72·9
Means ...	...	...	...	5	32	183·23	+17·53	...

Group 5922.

Return of Group 5889. Third apparition. An irregular cluster.

July 16·679	G	2	9	4	14	135·1	+ 8·8	−70·7
17·619	G	13	130	13	129	133·3	+ 8·4	−60·0
18·641	G	27	216	19	155	133·6	+ 8·2	−46·1
19·653	G	13	147	8	90	132·3	+ 8·4	−34·1
20·532	G	12	175	7	95	131·8	+ 8·7	−23·0
21·088	D	41	229	21	119	(132·8)	(+ 8·8)	(− 14·6)
22·651	G	22	154	11	77	133·8	+ 9·0	+ 7·0
23·680	G	20	96	11	52	133·6	+ 8·7	+20·5
24·670	G	4	38	2	22	135·0	+ 9·7	+34·9
25·685	G	0	25	0	19	136·1	+ 9·5	+49·4
Means ...	...	...	...	10	77	133·74	+ 8·82	...

Group 5923.

A large double spot, *a*, with close companions. The group lengthens out into an irregular stream, and *a* has divided into two regular spots, *b* and *c*, by July 23.

1906. d						°	°	°
July 18·641	G	14	124	33	292	101·7	+ 3·6	−78·0
19·653	G	52	387	58	433	102·7	+ 4·0	−63·7
20·532	G	60	603	49	489	102·7	+ 4·0	−52·1
21·088	D	73	604	50	418	(103·1)	(+ 3·9)	(−44·3)
22·651	G	96	584	52	318	103·5	+ 3·8	−23·3
23·680	G	108	521	55	265	104·2	+ 4·1	− 8·9
24·670	G	93	528	46	265	104·5	+ 4·0	+ 4·4
25·685	G	81	470	42	246	104·4	+ 4·1	+17·7
26·640	G	55	319	32	187	105·4	+ 4·4	+31·3
27·658	G	43	203	31	144	105·3	+ 4·7	+44·8
28·509	G	26	210	23	188	105·3	+ 5·0	+56·1
29·271	M	4	116	6	137	104·6	+ 4·9	+65·5
30·685	G	1	31	4	98	101·7	+ 3·7	+81·2
Means ..	...	...	...	37	268	103·78	+ 4·17	...

Group 5924.

A large composite spot, *a*, with a few close companions, *f* Group 5923.

July 18·641	G	19	64	84	280	96·1	+ 2·5	−83·6
19·653	G	13	135	19	195	96·5	+ 2·7	−69·9
20·532	G	29	353	28	343	95·5	+ 3·5	−59·3
21·088	D	33	350	26	282	(96·0)	(+ 3·4)	(−51·4)
22·651	G	65	366	38	212	96·5	+ 3·3	−30·3
23·680	G	58	401	30	208	96·8	+ 3·8	−16·3
24·670	G	45	359	23	180	96·8	+ 3·7	− 3·3
25·685	G	57	319	28	162	97·0	+ 3·7	+10·3
26·640	G	34	213	18	117	97·2	+ 3·7	+23·1
27·658	G	34	202	21	126	97·1	+ 3·5	+36·6
28·509	G	20	170	15	127	97·0	+ 3·6	+47·8
29·271	M	17	78	16	74	97·6	+ 3·3	+58·5
30·685	G	7	64	16	136	97·2	+ 3·5	+76·7
Means ...	...	...	...	28	188	96·72	+ 3·40	...

Group 5925.

A number of small unstable spots forming *sf* Group 5918 and nearly in the place of Group 5916.

July 20·532	G	11	169	6	98	170·6	−20·4	+15·8
21·088	D	24	101	15	62	(170·6)	(−20·4)	(+23·2)
Means ...	...	...	...	11	80	170·60	−20·40	...

Group 5926.

Return of Group 5893. A number of small spots in an irregular cluster.

July 20·532	G	0	23	0	65	74·7	+ 4·3	−80·1
21·088	D	5	39	9	66	(74·7)	(+ 4·6)	(−72·7)

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5926—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
July 22·651	G	21	130	18	105	74·6	+ 5·0	−52·2
23·680	G	28	123	18	80	74·2	+ 5·5	−38·9
24·670	G	13	76	7	42	73·8	+ 5·7	−26·3
25·685	G	6	87	3	44	73·9	+ 6·1	−12·8
26·640	G	0	10	0	5	73·7	+ 6·0	− 0·4
27·658	G	5	29	2	15	74·2	+ 8·7	+13·7
Means ...	...	...	...	7	53	74·23	+ 5·74	...

Group 5926*.

Two very small faint spots, *nf* Group 5926.

July 23·680	G	2	13	2	10	69·2	+14·2	−43·9
Means ...	...	...	..	2	10	69·2	+14·2	...

Group 5928.

Return of Group 5894. A regular spot, *a*, quickly diminishing in size. Several small faint companions are seen near *a* on July 27 and 30. Groups 5923, 5924, 5926, and 5928 make up a long somewhat sparse procession.

July 22·651	G	0	22	0	51	48·4	+ 8·9	−78·4
23·680	G	6	59	7	68	48·3	+ 9·0	−64·8
24·670	G	14	52	12	42	48·1	+ 8·9	−52·0
25·685	G	14	61	9	39	48·3	+ 8·8	−38·4
26·640	G	10	32	5	18	48·4	+ 8·9	−25·7
27·658	G	10	38	5	20	47·7	+ 8·9	−12·8
28·509	G	6	16	3	8	47·9	+ 8·8	− 1·3
29·271	M	0	19	0	10	48·4	+ 8·7	+ 9·3
30·685	G	0	61	0	34	48·7	+10·2	+28·2
Means ...	...	...	...	5	32	48·24	+ 9·01	...

Group 5927.

Two small spots.

July 23·680	G	6	22	5	18	65·4	−20·1	−47·7
Means ...	...	...	...	5	18	65·4	−20·1	...

Group 5929.

Return of Group 5895. A small spot, *a*, with a very small companion on July 24.

July 23·680	G	0	24	0	36	44·1	− 9·3	−69·0
24·670	G	12	42	11	39	44·2	− 9·1	−55·9
25·685	G	10	39	7	27	44·6	− 9·5	−42·1
Means ...	...	...	...	6	34	44·30	− 9·30	...

Group 5930.

Several small spots in a sparse and irregular stream. The leader, *a*, is the largest and most stable member of the group.

1906. d						°	°	°
July 24·670	G	34	125	20	73	72·1	− 9·7	−28·0
25·685	G	37	239	20	127	72·9	− 9·6	−13·8
26·640	G	25	136	13	71	74·4	− 9·2	+ 0·3
27·658	G	25	120	14	64	75·2	− 8·9	+14·7
28·509	G	12	37	7	22	75·7	− 9·1	+26·5
29·271	M	8	42	5	27	76·4	− 9·5	+37·3
30·685	G	2	10	2	9	76·4	− 9·0	+55·9
31·662	G	0	12	0	17	76·1	− 8·9	+68·5
Means ...	...	...	...	10	51	74·90	− 9·24	...

Group 5931.

Return of Group 5898. Third apparition. A very large regular spot, *a*, with some small companions.

July 25·685	G	20	110	70	376	3·5	+22·4	−83·2
26·640	G	61	348	94	545	2·0	+21·9	−72·1
27·658	G	83	526	80	511	1·7	+22·1	−58·8
28·509	G	124	688	94	524	1·4	+22·3	−47·8
29·271	M	147	712	96	465	1·2	+22·1	−37·9
30·685	G	186	871	102	480	1·3	+21·9	−19·2
31·662	G	179	972	94	511	1·1	+21·8	− 6·5
Aug. 1·675	G	151	859	79	451	1·6	+22·0	+ 7·4
2·684	G	182	867	102	481	1·3	+21·8	+20·5
3·688	G	131	725	81	450	1·0	+21·8	+33·5
4·647	G	90	586	66	432	0·7	+22·0	+45·8
5·659	G	70	421	67	404	0·2	+21·9	+58·7
6·448	G	67	314	90	422	0·2	+21·9	+69·1
7·676	G	18	89	73	361	359·6	+21·7	+84·8
Means ...	...	...	...	85	458	1·20	+21·97	...

Group 5932.

A small spot, *a*, sometimes with a distant small companion.

July 26·640	G	0	8	0	6	26·2	− 1·6	−47·9
27·658	G	16	44	10	27	26·2	− 1·5	−34·3
28·509	G	12	26	7	14	27·3	− 0·3	−21·9
29·271	M	4	38	2	20	25·7	− 1·1	−13·4
Means ...	...	...	...	5	17	26·35	− 1·13	...

Group 5933.

A sudden outburst. A few small spots at first, rapidly developing into a fine stream, of which the leader, *a*, soon becomes a very large regular spot, the rest of the stream remaining small by comparison.

July 27·658	G	2	44	2	30	22·3	−16·0	−38·2
28·509	G	31	204	18	122	25·1	−16·1	−24·1

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of		Area for Group.		Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
		Umbra.	Whole Spot.	Umbra.	Whole Spot.			
Group 5933—*continued.*								
1906. d						°	°	°
July 29·271	M	166	761	92	424	24·6	−16·0	−14·5
30·685	G	343	2111	184	1135	24·8	−15·2	+ 4·3
31·662	G	372	2608	210	1470	24·5	−14·9	+16·9
Aug. 1·675	G	274	2306	171	1442	24·7	−14·7	+30·5
2·684	G	224	1912	166	1422	24·1	−14·9	+43·3
3·688	G	143	1277	143	1270	24·1	−14·7	+56·6
4·647	G	73	685	117	1091	24·2	−14·7	+69·3
5·659	G	0	98	0	599	24·8	−15·4	+83·3
Means ...	...	...	...	110	901	24·32	−15·26	...
Group 5931*. Two small very faint spots, *np* Group 5931.								
July 27·658	G	0	35	0	29	8·7	+23·7	−51·8
Means ...	...	...	...	0	29	8·7	+23·7	...
Group 5931†. Two small spots, *s* Group 5931.								
July 27·658	G	0	21	0	20	1·9	+16·7	−58·6
28·509	G	0	17	0	13	0·8	+17·6	−48·4
Means ...	...	...	...	0	17	1·35	+17·15	...
Group 5931‡. A faint diffused marking *f* Group 5931.								
July 27·658	G	0	22	0	47	342·7	+23·9	−77·8
Means ...	...	...	...	0	47	342·7	+23·9	...
Group 5934. A few small spots in a short stream. *a*, the last spot, is the most stable, and alone remains on July 31.								
July 29·271	M	0	33	0	16	43·2	+14·3	+ 4·1
30·685	G	13	57	8	31	42·8	+14·0	+22·3
31·662	G	2	19	1	12	40·6	+14·0	+33·0
Means ...	...	...	...	3	20	42·20	+14·10	...
Group 5928*. Several small faint spots, *np* Group 5928.								
1906. d						°	°	°
July 30·685	G	0	31	0	19	52·8	+19·4	+32·3
Means ...	...	...	...	0	19	52·8	+19·4	...
Group 5932*. Two very small spots, *sp* Group 5931.								
Aug. 5·659	G	0	8	0	10	7·7	+16·4	+66·2
Means ...	...	...	...	0	10	7·7	+16·4	...
Group 5936. A small spot on August 6, not seen on August 7. On August 8 a small spot, *a*, followed by a train of small unstable spots. The group has disappeared by August 12, but has broken out afresh by August 13. The new leader, *b*, increases in size and becomes a regular spot.								
Aug. 6·448	G	0	10	0	26	210·2	+18·0	−80·9
7·676	G	0	0	0	0	...	...	...
8·662	G	0	14	0	11	213·1	+17·5	−48·7
9·661	G	6	17	4	11	214·3	+17·4	−34·3
10·493	G	10	32	5	17	216·1	+17·4	−21·5
11·247	M	0	33	0	17	215·8	+16·9	−11·8
12·214	M	0	0	0	0	...	...	...
13·122	K	4	53	2	27	210·8	+17·2	+ 8·0
14·640	G	7	27	4	16	214·4	+17·1	+31·6
15·609	G	35	149	24	104	214·1	+17·3	+44·1
16·507	G	23	128	21	117	215·2	+17·2	+57·2
17·489	G	5	49	7	74	216·6	+17·4	+71·6
Means ...	...	...	...	6	35	214·06	+17·34	...
Group 5935. A large regular spot, *a*, with occasionally a very small companion.								
Aug. 7·676	G	7	47	12	80	200·8	+18·3	−74·0
8·662	G	14	91	15	94	200·1	+18·4	−61·7
9·661	G	17	116	13	88	200·5	+18·2	−48·1
10·493	G	20	144	13	92	200·4	+18·4	−37·2
11·247	M	23	163	13	94	199·8	+18·4	−27·8
12·214	M	33	159	18	84	199·9	+18·3	−14·9
13·122	K	32	155	16	80	199·7	+18·3	− 3·1
14·640	G	24	145	13	77	199·4	+18·8	+16·6
15·609	G	19	117	11	68	199·5	+18·6	+29·5
16·507	G	14	104	10	70	199·6	+18·7	+41·6
17·489	G	12	65	10	56	199·7	+18·7	+54·7
18·344	M	10	49	12	58	199·7	+18·6	+65·9
19·510	G	13	43	33	108	198·6	+18·9	+80·2
Means ...	...	...	...	15	81	199·82	+18·51	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5937.

A very small spot, *a*, with a very small companion on August 10.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906.d						°	°	°
Aug. 9·661	G	2	13	1	6	252·6	+ 4·6	+ 4·0
10·493	G	3	25	2	13	252·4	+ 3·5	+14·8
Means ...	...	...	...	2	10	252·50	+ 4·05	...

Group 5938.

A few small spots in a short stream. The leader, *a*, alone remains by August 16.

Aug. 9·661	G	2	18	2	19	190·7	−16·5	−57·9
10·493	G	0	64	0	50	192·1	−17·2	−45·5
11·247	M	9	57	7	39	191·2	−17·2	−36·4
12·214	M	15	173	9	103	193·8	−17·2	−21·0
13·122	K	25	90	14	50	196·0	−17·4	− 6·8
14·640	G	14	137	8	77	196·2	−16·7	+13·4
15·609	G	13	59	8	36	197·3	−17·1	+27·3
16·507	G	12	49	9	35	197·9	−17·2	+39·9
17·489	G	17	75	15	69	197·3	−17·7	+52·3
18·344	M	4	23	6	31	198·0	−17·6	+64·2
Means ...	...	...	...	8	51	195·05	−17·18	...

Group 5937*.

A few spots in a short straight stream. A sudden outburst.

Aug. 13·122	K	8	62	8	58	253·1	−21·6	+50·3
Means ...	...	...	...	8	58	253·1	−21·6	...

Group 5939.

One or two very small spots.

Aug. 15·609	G	5	20	3	10	155·7	+ 8·2	−14·3
16·507	G	6	30	3	16	156·5	+ 8·1	− 1·5
17·489	G	0	6	0	3	155·7	+ 8·0	+10·7
Means ...	...	...	...	2	10	155·97	+ 8·10	...

Group 5940.

One or two small unstable spots.

Aug. 16·507	G	0	28	0	27	212·5	−16·8	+54·5
17·489	G	0	20	0	30	212·5	−16·1	+67·5
Means ...	...	...	...	0	29	212·50	−16·45	...

Group 5941.

A number of small spots in a short irregular stream.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906.d						°	°	°
Aug. 18·344	M	5	38	3	25	163·6	−19·6	+29·8
Means ...	...	...	...	3	25	163·6	−19·6	...

Group 5942.

A few small spots on August 18. The group rapidly develops into a straight stream, with *a*, a large composite spot, as leader, and two spots very close together, *b* and *c* as rearguard. The group speedily diminishes after August 21.

Aug. 18·344	M	16	45	9	26	103·2	+11·3	−30·6
19·510	G	61	349	32	181	103·7	+11·2	−14·7
20·214	M	62	465	32	236	104·3	+11·2	− 4·8
21·407	G	55	480	28	246	103·8	+11·4	+10·5
22·395	M	33	232	18	128	105·6	+11·6	+25·3
23·418	G	19	145	12	92	105·1	+11·7	+38·3
24·586	G	5	29	5	24	105·6	+11·9	+54·2
25·160	D	4	20	5	21	(105·6)	(+11·9)	(+61·8)
Means ...	...	...	...	18	119	104·61	+11·53	...

Group 5943.

A disturbed area *s* Group 5942, wherein a few faint unstable markings form and disappear. The group is not seen on August 19.

Aug. 17·489	G	0	54	0	36	103·7	+ 6·0	−41·3
18·344	M	0	6	0	4	106·2	+ 3·1	−27·6
19·510	G	0	0	0	0	...	...	...
20·214	M	0	25	0	12	108·1	+ 3·2	− 1·0
Means ...	...	...	...	0	13	106·00	+ 4·10	...

Group 5944.

Return of Group 5933. A large regular spot, *a*, preceded by a large spot, *b*, on August 21. Other spots break out in the neighbourhood on the succeeding days, forming, with *a* and *b*, a scattered irregular stream, much inclined to the equator.

Aug. 21·407	G	63	192	100	301	25·0	−15·9	−68·3
22·395	M	50	279	49	275	24·9	−16·0	−55·4
23·418	G	37	452	28	338	24·5	−16·4	−42·3
24·586	G	75	604	47	376	23·6	−16·8	−27·8
25·160	D	90	578	52	338	(23·8)	(−16·7)	(−20·0)
26·673	G	75	465	40	256	24·1	−16·6	+ 0·3
27·647	G	62	367	35	206	23·8	−16·6	+12·9
28·654	G	43	348	26	214	23·7	−17·4	+26·1
29·479	G	46	306	32	213	24·0	−17·4	+37·3
30·529	G	44	244	40	220	24·3	−17·1	+51·5
31·647	G	29	190	44	295	26·0	−16·7	+67·9
Sept. 1·528	G	11	92	29	271	24·0	−16·7	+77·6
Means ...	...	...	...	44	275	24·31	−16·69	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5945.

Two or three very small spots, *f* Group 5942.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Aug. 20·214	M	0	56	0	30	91·2	+ 5·3	−17·9
21·407	G	8	33	4	17	84·8	+ 6·0	− 8·5
22·395	M	3	48	2	24	87·2	+ 5·7	+ 6·9
23·418	G	16	48	8	25	88·2	+ 4·9	+21·4
24·586	G	3	16	2	10	85·8	+ 5·9	+34·4
25·160	D	9	49	6	33	(85·8)	(+ 5·9)	(+42·0)
Means ...	...	...	...	4	23	87·17	+ 5·62	...

Group 5946.

Return of Group 5931. Fourth apparition. A large regular spot, *a*, with occasionally a few small companions.

Aug. 22·395	M	11	94	39	321	356·4	+22·4	−83·9
23·418	G	30	232	41	320	356·8	+22·1	−70·0
24·586	G	45	289	40	257	355·7	+22·5	−55·7
25·160	D	74	364	57	279	(355·6)	(+22·6)	(−48·2)
26·673	G	58	409	35	243	355·4	+22·8	−28·4
27·647	G	71	468	39	253	355·1	+22·7	−15·8
28·654	G	72	466	37	242	354·6	+22·9	− 3·0
29·479	G	75	407	39	214	354·2	+23·3	+ 7·5
30·529	G	61	427	34	237	353·8	+23·0	+21·0
31·647	G	50	337	32	212	353·5	+23·0	+35·4
Sept. 1·528	G	36	271	26	200	352·5	+22·9	+46·1
2·420	G	33	200	31	187	352·6	+23·0	+58·0
3·655	G	15	100	24	157	351·3	+22·5	+72·9
4·149	K	8	59	18	131	350·7	+22·3	+78·9
Means ...	...	...	...	35	232	354·16	+22·71	...

Group 5947.

A few very small spots, forming a broken ring on August 21. The group quickly diminishes.

Aug. 21·407	G	7	46	4	27	77·9	−16·1	−15·4
22·395	M	10	72	5	39	78·2	−16·7	− 2·1
23·418	G	0	19	0	11	81·1	−17·5	+14·3
24·586	G	4	41	2	25	77·1	−17·5	+25·7
Means ...	...	...	...	3	26	78·58	−16·95	...

Group 5950.

A fine irregular stream, *n* of Group 5944. The leader, *a*, becomes a large regular spot, and *b*, a large composite spot, occupies the rear of the group.

Aug. 24·586	G	12	76	8	47	19·6	− 5·4	−31·8
25·160	D	32	192	19	108	(20·3)	(− 5·0)	(−23·5)
26·673	G	130	601	67	307	21·0	− 4·6	− 2·8
27·647	G	150	862	78	451	22·3	− 4·4	+11·4

Group 5950—*continued.*

1906. d						°	°	°
Aug. 28·654	G	120	869	68	491	23·1	− 4·5	+25·5
29·479	G	95	855	61	552	24·1	− 4·6	+37·4
30·529	G	51	559	43	470	24·9	− 5·1	+52·1
31·647	G	55	417	73	556	25·2	− 5·0	+67·1
Sept. 1·528	G	7	67	20	182	25·1	− 5·2	+78·7
Means ...	...	...	...	49	352	22·84	− 4·87	...

Group 5951.

A few small spots, *sf* Group 5950.

Aug. 24·586	G	5	46	3	32	9·9	−10·3	−41·5
25·160	D	29	84	18	53	(9·2)	(−10·3)	(−34·6)
26·673	G	19	117	10	64	8·4	−10·2	−15·4
27·647	G	14	93	8	49	8·5	−10·0	− 2·4
28·654	G	2	12	1	6	7·9	−10·0	+10·3
29·479	G	11	38	6	21	12·0	− 9·5	+25·3
30·529	G	5	25	3	17	12·5	− 9·3	+39·7
Means ...	...	...	...	7	35	9·77	− 9·94	...

Group 5952.

A regular spot, *a*, forming *p* Group 5951. Occasionally *a* is accompanied by some small attendants. Groups 5944, 5950, 5951, and 5952 form one great area of disturbance.

Aug. 26·673	G	24	150	13	80	15·8	−10·0	− 8·0
27·647	G	40	187	21	98	16·3	− 9·3	+ 5·4
28·654	G	50	295	26	163	15·8	− 9·3	+18·2
29·479	G	38	185	22	111	16·1	− 9·1	+29·4
30·529	G	24	191	17	138	16·0	− 9·0	+43·2
31·647	G	14	100	14	100	16·3	− 8·9	+58·2
Sept. 1·528	G	13	82	20	127	16·0	− 9·2	+69·6
2·420	G	7	40	29	165	16·3	− 9·2	+81·7
Means ...	...	...	...	20	123	16·08	− 9·25	...

Group 5953.

One or two very small spots. The group is not seen on August 28.

Aug. 26·673	G	4	17	2	8	19·2	+11·9	− 4·6
27·647	G	0	22	0	11	18·6	+11·1	+ 7·7
28·654	G	0	0	0	0	...	...	...
29·479	G	0	19	0	10	16·8	+12·4	+30·1
30·529	G	0	11	0	7	16·3	+13·4	+43·5
Means ...	...	...	...	0	7	17·73	+12·20	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5954.

A pair of very small spots on August 26. The group is not seen on August 27. It has revived by August 28, as a number of small spots in an elliptical ring. The group gradually straightens out to form a short stream of normal type.

Date. Greenwich Civil Time.	Where taken.	Projected Area of		Area for Group.		Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
		Umbra.	Whole Spot.	Umbra.	Whole Spot.			
1906. d						°	°	°
Aug. 26·673	G	0	11	0	12	324·6	−12·9	−59·2
27·647	G	0	0	0	0	...	...	...
28·654	G	5	48	3	30	326·3	−12·3	−31·3
29·479	G	37	151	21	85	327·0	−12·1	−19·7
30·529	G	36	195	18	103	327·2	−11·7	− 5·6
31·647	G	17	131	9	71	327·1	−11·9	+ 9·0
Sept. 1·528	G	10	36	5	21	328·4	−11·6	+22·0
2·420	G	0	11	0	7	330·5	−11·0	+35·9
Means ...	...	...	...	7	41	327·30	−11·93	...

Group 5954*.

Two very small faint spots, *s* of the place of Group 5954.

Aug. 27·647	G	0	7	0	6	329·1	−17·7	−41·8
Means ...	...	...	...	0	6	329·1	−17·7	...

Group 5955.

A small spot, *a*, with a very small attendant on August 29.

Aug. 29·479	G	7	31	7	31	288·5	− 8·5	−58·2
30·529	G	0	12	0	9	289·3	− 8·1	−43·5
Means ...	...	...	...	4	20	288·90	−8·30	...

Group 5956.

A large double spot, *a*, breaking up, little by little, to form a compact stream.

Aug. 29·479	G	21	104	43	209	270·5	+ 5·5	−76·2
30·529	G	26	228	27	237	271·1	+ 5·7	−61·7
31·647	G	37	309	27	222	271·9	+ 5·6	−46·2
Sept. 1·528	G	45	349	28	214	272·2	+ 5·4	−34·2
2·420	G	44	341	24	185	272·7	+ 5·4	−21·9
3·655	G	64	357	32	178	273·5	+ 5·4	− 4·9
4·149	K	45	259	22	131	273·6	+ 4·6	+ 1·8
5·611	G	14	112	8	61	275·5	+ 4·9	+23·1
6·678	G	13	92	8	58	276·9	+ 5·6	+38·5
7·648	G	2	43	2	33	275·5	+ 5·3	+49·9
8·515	G	0	2	0	3	278·6	+ 5·0	+64·5
Means ...	...	...	...	20	139	273·82	+ 5·31	...

Group 5957.

One or two very small faint unstable spots, *nf* Group 5956.

1906. d						°	°	°
Aug. 30·529	G	5	17	5	20	267·6	+14·6	−65·2
31·647	G	2	10	2	8	269·4	+14·0	−48·7
Sept. 1·528	G	2	9	1	5	268·5	+14·0	−37·9
2·420	G	1	28	1	15	269·5	+13·0	−25·1
3·655	G	0	29	0	15	270·3	+13·8	− 8·1
4·149	K	2	15	1	8	269·3	+12·1	− 2·5
Means ...	...	...	...	2	12	269·10	+13·58	...

Group 5958.

A few spots, mostly small, in a short stream. The leader, *a*, is the most stable member of the group.

Aug 30·529	G	0	8	0	11	264·8	− 9·0	−68·0
31·647	G	0	35	0	32	263·4	−10·1	−54·7
Sept. 1·528	G	27	127	18	88	265·3	− 9·6	−41·1
2·420	G	62	311	38	184	266·4	− 9·3	−28·2
3·655	G	48	243	26	131	267·0	− 9·5	−11·4
4·149	K	29	182	15	95	267·1	− 9·8	− 4·7
5·611	G	24	148	13	81	267·5	− 9·8	+15·1
6·678	G	15	128	9	77	267·3	− 9·6	+28·9
7·648	G	9	83	7	59	267·6	− 9·2	+42·0
8·515	G	8	46	7	41	267·1	− 9·8	+53·0
9·551	G	0	7	0	9	267·8	− 9·3	+67·4
Means ...	...	...	...	12	73	266·48	− 9·55	...

Group 5959.

A small spot.

Sept. 1·528	G	2	14	2	10	261·5	+ 8·5	−44·9
2·420	G	0	2	0	1	263·6	+ 7·3	−31·0
Means ...	...	...	...	1	6	262·55	+ 7·90	...

Group 5960.

Return of Group 5936. A regular spot, *a*, at first, quickly diminishing in size. The group develops later into a straight stream, which diminishes again after September 9.

Sept. 1·528	G	0	15	0	82	219·6	+17·2	−86·8
2·420	G	5	70	9	132	218·5	+17·8	−76·1
3·655	G	6	66	6	64	218·8	+18·0	−59·6
4·149	K	10	40	8	33	218·7	+17·7	−53·1
5·611	G	0	20	0	12	219·4	+17·1	−33·0
6·678	G	24	172	14	95	216·4	+18·8	−22·0

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5960—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Sept. 7·648	G	14	156	8	81	216·3	+19·2	− 9·3
8·515	G	14	110	7	55	215·4	+19·5	+ 1·3
9·551	G	47	363	25	192	215·1	+20·4	+14·7
10·646	G	31	198	18	117	215·9	+20·0	+29·9
11·685	G	18	114	13	79	215·6	+20·1	+43·3
12·620	G	0	11	0	9	215·5	+19·7	+55·6
Means ...	...	...	...	9	79	217·10	+18·79	...

Group 5961.

Return of Group 5938. An irregular cluster of small spots developing later into a straight stream. The leader, *a*, has become a large regular spot by September 8.

Sept. 4·149	K	0	7	0	17	197·1	−20·1	−74·7
5·611	G	0	16	0	16	198·6	−20·4	−53·8
6·678	G	22	166	17	129	195·9	−19·9	−42·5
7·648	G	70	265	46	174	195·5	−20·1	−30·1
8·515	G	56	381	33	228	196·4	−20·4	−17·7
9·551	G	62	452	35	256	196·9	−20·4	− 3·5
10·646	G	30	360	17	211	197·7	−21·2	+11·7
11·685	G	47	325	31	205	197·5	−21·5	+25·2
12·620	G	36	220	27	165	198·3	−22·4	+38·4
13·208	K	26	162	23	143	199·4	−22·4	+47·3
14·482	G	14	119	21	172	199·6	−23·0	+64·3
15·538	G	0	19	0	59	198·5	−22·4	+77·1
Means ...	...	...	...	21	148	197·62	−21·18	...

Group 5962.

A small spot.

Sept. 6·678	G	3	12	2	6	229·4	− 8·2	− 9·0
7·648	G	7	23	4	12	231·7	− 8·3	+ 6·1
8·515	G	2	19	1	10	232·4	− 8·4	+18·3
Means ...	...	...	...	2	9	231·17	− 8·30	...

Group 5963.

A regular spot, *a*, with a few very small companions. The group appears suddenly and quickly diminishes.

Sept. 7·648	G	27	139	15	78	245·4	+26·1	+19·8
8·515	G	13	45	9	27	244·8	+26·0	+30·7
9·551	G	2	23	2	17	246·1	+25·9	+45·7
10·646	G	0	5	0	4	243·1	+26·5	+57·1
Means ...	...	...	...	7	32	244·85	+26·13	...

Group 5961*.

A pair of very small faint spots.

1906. d						°	°	°
Sept. 7·648	G	0	17	0	12	178·6	+11·0	−47·0
Means ...	...	...	...	0	12	178·6	+11·0	...

Group 5964.

A small spot.

Sept. 8·515	G	0	13	0	10	165·3	+14·0	−48·8
9·551	G	0	15	0	9	164·8	+13·7	−35·6
10·646	G	8	24	4	13	166·4	+13·3	−19·6
Means ...	...	...	...	1	11	165·50	+13·67	...

Group 5965.

A few small spots that have developed by September 11 into a straight stream. The leader, *a*, is a large regular spot from September 13 to September 16, after which it breaks up.

Sept. 8·515	G	0	9	0	13	144·0	+ 9·3	−70·1
9·551	G	0	12	0	11	142·9	+ 8·9	−57·5
10·646	G	6	94	4	63	143·8	+ 9·4	−42·2
11·685	G	45	279	25	158	145·9	+ 9·6	−26·4
12·620	G	46	375	24	194	145·1	+ 9·5	−14·8
13·208	K	67	366	34	184	145·8	+ 9·5	− 6·3
14·482	G	67	359	34	184	147·2	+ 9·5	+11·9
15·538	G	47	349	26	194	146·9	+ 9·4	+25·5
16·297	M	28	211	18	131	148·0	+ 9·5	+36·6
17·220	M	13	92	10	69	148·0	+ 9·5	+48·8
18·470	G	5	21	6	25	148·3	+ 8·9	+65·6
Means ...	...	...	...	16	111	145·99	+ 9·36	...

Group 5966.

A large double spot, *a*, until September 14, after which it breaks up. The group is not detected on September 19.

Sept. 10·646	G	0	45	0	239	100·9	+ 4·4	−85·1
11·685	G	7	104	11	165	100·3	+ 4·8	−72·0
12·620	G	16	157	16	154	100·4	+ 4·9	−59·5
13·208	K	30	223	24	180	100·2	+ 4·6	−51·9
14·482	G	81	165	49	99	101·3	+ 5·0	−34·0
15·538	G	19	136	10	72	101·8	+ 5·0	−19·6
16·297	M	14	91	7	46	101·7	+ 4·6	− 9·7
17·220	M	0	36	0	18	101·2	+ 4·3	+ 2·0
18·470	G	0	9	0	5	99·4	+ 3·7	+16·7
19·218	M	0	0	0	0	...	...	...
20·388	M	0	14	0	10	102·0	+ 3·8	+44·6
21·215	M	0	22	0	19	102·4	+ 5·2	+55·9
Means ...	...	...	...	10	84	101·05	+ 4·57	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5967.

A very small spot on September 11. A pair of very small spots, *a* and *b*, on September 12. The two spots rapidly increase in size.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Sept. 11·685	G	0	4	0	2	200·5	+ 5·1	+28·2
12·620	G	0	21	0	14	199·9	+ 5·3	+40·0
13·208	K	3	29	2	22	201·7	+ 5·2	+49·6
14·482	G	20	120	24	148	201·7	+ 5·3	+66·4
Means ...	...	...	...	7	47	200·95	+ 5·23	...

Group 5968.

Return or revival of Group 5942. A few small spots, *nf* Group 5966 on September 11, rapidly developing into a very fine stream.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Sept. 11·685	G	0	13	0	43	90·3	+ 7·6	−82·0
12·620	G	0	16	0	21	91·6	+ 8·2	−68·3
13·208	K	1	58	1	60	90·9	+ 7·8	−61·2
14·482	G	27	236	18	159	92·7	+ 8·0	−42·6
15·538	G	90	525	50	296	94·1	+ 8·5	−27·3
16·297	M	132	891	69	468	94·4	+ 8·3	−17·0
17·220	M	246	1292	125	651	94·7	+ 8·5	− 4·5
18·470	G	196	1356	100	695	95·3	+ 8·4	+12·6
19·218	M	208	1136	113	621	96·3	+ 8·5	+23·5
20·388	M	154	894	99	575	96·0	+ 8·2	+38·6
21·215	M	88	645	67	502	96·5	+ 8·3	+50·0
22·554	G	28	271	28	342	95·8	+ 8·3	+67·0
23·325	M	14	103	21	151	89·5	+ 9·2	+70·9
24·531	G	0	21	0	113	88·5	+ 9·2	+85·8
Means ...	...	...	...	49	336	93·33	+ 8·36	...

Group 5969.

A number of spots, mostly small and unstable, in a long sparse stream. The rear spot, *a*, is the largest, but has broken up into two portions, *b* and *c*, by September 19.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Sept. 15·538	G	0	15	0	27	52·2	−18·9	−69·2
16·297	M	9	83	12	104	49·9	−20·0	−61·5
17·220	M	10	96	9	85	49·4	−20·1	−49·8
18·470	G	30	139	20	94	49·5	−19·2	−33·2
19·218	M	29	198	17	121	49·9	−19·5	−22·9
20·388	M	35	218	19	121	53·4	−19·1	− 4·0
21·215	M	30	152	17	84	54·9	−19·5	+ 8·4
22·554	G	16	134	11	83	53·7	−19·6	+24·9
23·325	M	0	26	0	17	51·3	−18·9	+32·7
Means ...	...	...	...	12	82	51·58	−19·42	...

Group 5970.

A few very small unstable spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Sept. 16·297	M	0	21	0	42	36·9	− 7·4	−74·5
17·220	M	8	41	9	45	37·7	− 7·4	−61·5
18·470	G	15	54	11	39	38·3	− 7·0	−44·4
19·218	M	0	55	0	37	34·4	− 7·3	−38·4
Means ...	...	...	...	5	41	36·83	− 7·28	...

Group 5971.

Return of Group 5946. Fifth apparition. Two small faint spots, *a* and *b*, on September 20. Only *b* remains on September 21.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Sept. 20·388	M	0	5	0	6	348·2	+20·4	−69·2
21·215	M	0	7	0	7	347·5	+20·3	−59·0
22·554	G	0	13	0	9	347·3	+20·9	−41·5
Means ...	...	...	...	0	7	347·67	+20·53	...

Group 5972.

A short irregular stream, of which all the members are very small, except *a* and *b*, the first and last spots. The following part of the group has disappeared by September 25.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Sept. 21·215	M	0	8	0	17	332·3	−12·4	−74·2
22·554	G	12	73	12	77	329·9	−12·1	−58·9
23·325	M	13	89	11	71	331·1	−12·0	−47·5
24·531	G	20	48	12	31	329·8	−12·1	−32·9
25·667	G	0	32	0	17	333·1	− 9·6	−14·6
Means ...	...	...	...	7	43	331·24	−11·64	...

Group 5973.

A few small faint unstable spots in an irregular cluster.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Sept. 21·215	M	0	16	0	8	50·6	+ 9·2	+ 4·1
22·554	G	0	19	0	10	52·2	+12·8	+23·4
23·325	M	0	37	0	22	52·7	+13·7	+34·1
24·531	G	0	23	0	19	54·8	+12·2	+52·1
Means ...	...	...	...	0	15	52·58	+11·98	...

Group 5974.

A very small faint spot, *f* Group 5973.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Sept. 22·554	G	0	12	0	6	48·3	+11·6	+19·5
Means ...	...	...	...	0	6	48·3	+11·6	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5975.

A pair of very small spots, *a* and *b*, on September 23. The group has become a short stream of the usual type by September 24, but undergoes several changes on September 25 and the succeeding days, and a new stream has formed by September 28, of which two new spots, *c* and *d*, are the first and last members.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Sept. 23·325	M	23	90	12	50	12·9	−15·5	− 5·7
24·531	G	34	149	19	83	13·6	−15·5	+10·9
25·667	G	11	147	7	89	12·6	−15·6	+24·9
26·638	G	16	69	11	48	12·6	−15·5	+37·7
27·465	G	32	215	26	173	10·8	−15·6	+46·8
28·648	G	20	118	24	139	9·6	−16·4	+61·2
29·111	K	8	93	14	146	10·3	−17·3	+68·1
Means ...	...	...	...	16	104	11·77	−15·91	...

Group 5976.

Usually one very small spot. A small cluster on September 29.

Sept. 24·531	G	0	5	0	10	286·3	+ 4·7	−76·4
25·667	G	0	9	0	11	283·2	+ 6·6	−64·5
26·638	G	2	16	2	13	283·3	+ 6·4	−51·6
27·465	G	2	12	2	8	283·2	+ 6·9	−40·8
28·648	G	2	8	1	4	283·1	+ 6·6	−25·3
29·111	K	0	12	0	6	283·5	+ 6·0	−18·7
Means ...	...	...	...	1	9	283·77	+ 6·20	...

Group 5978.

Two very small spots on September 25. The leader, *a*, alone remains on September 26.

Sept. 25·667	G	0	29	0	15	347·5	+ 6·9	− 0·2
26·638	G	0	5	0	2	349·5	+ 6·2	+14·6
27·465	G	0	5	0	3	348·6	+ 6·3	+24·6
Means ...	...	...	...	0	7	348·53	+ 6·47	...

Group 5977.

A small spot, *a*, with a small companion on September 26.

Sept. 26·638	G	5	27	5	25	29·9	−11·1	+55·0
27·465	G	2	19	3	27	31·5	−10·7	+67·5
Means ...	...	...	...	4	26	30·70	−10·90	...

Group 5981.

A pair of very small spots, *a* and *b*. Only *b* remains on September 27.

1906. d						°	°	°
Sept. 26·638	G	0	12	0	6	344·4	+17·5	+ 9·5
27·465	G	0	7	0	4	343·9	+17·8	+19·9
Means ...	...	...	...	0	5	344·15	+17·65	...

Group 5983.

A number of small unstable spots in a sparse stream. The first and last spots, *a* and *b*, are the most stable members of the group.

Sept. 26·638	G	0	6	0	6	279·1	−20·2	−55·8
27·465	G	2	28	2	22	280·1	−19·5	−43·9
28·648	G	7	41	4	26	280·0	−19·2	−28·4
29·111	K	3	22	2	13	280·8	−18·8	−21·4
30·518	G	11	67	6	37	280·7	−19·8	− 3·0
Oct. 1·487	G	16	112	9	64	281·1	−19·6	+10·2
2·108	K	52	215	31	126	280·0	−20·0	+17·3
3·216	M	50	300	34	202	280·8	−19·9	+32·8
4·230	M	49	297	40	246	281·1	−19·3	+46·4
5·475	G	39	259	52	358	282·8	−19·9	+64·6
6·500	G	4	161	11	431	280·9	−19·4	+76·2
7·118	K	0	27	0	96	275·4	−21·4	+78·9
Means ...	...	...	...	16	136	280·23	−19·75	...

Group 5980.

A very small faint spot.

Sept. 27·465	G	0	18	0	10	346·7	− 9·3	+22·7
Means ...	...	...	...	0	10	346·7	− 9·3	...

Group 5979.

A small spot, *a*, with occasionally a small companion, *sf* Group 5983.

Sept. 27·465	G	0	19	0	16	276·2	−21·8	−47·8
28·648	G	6	21	4	14	275·4	−21·4	−33·0
29·111	K	8	25	5	16	274·4	−21·4	−27·8
30·518	G	5	56	3	32	275·3	−22·3	− 8·4
Oct. 1·487	G	1	15	1	9	276·4	−22·0	+ 5·5
2·108	K	0	4	0	2	275·8	−23·0	+13·1
Means ...	...	...	...	2	15	275·58	−21·98	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5984.

A very small spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Sept. 30·518	G	0	19	0	9	278·5	+ 7·1	− 5·2
Oct. 1·487	G	0	11	0	5	277·4	+ 6·7	+ 6·5
Means ...	...	...	...	0	7	277·95	+ 6·90	...

Group 5985.

A small spot, *a*, with a small companion on September 29, *s* of Group 5979.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Sept. 29·111	K	15	53	11	35	276·6	−26·9	−25·6
30·518	G	0	35	0	21	277·9	−25·8	− 5·8
Oct. 1·487	G	5	22	3	13	278·1	−25·8	+ 7·2
2·108	K	0	12	0	8	278·3	−25·5	+15·6
Means ...	...	...	...	4	19	277·73	−26·00	...

Group 5986.

A sudden outburst, *p* Group 5983, and consisting chiefly of two spots, *a* and *b*, *a* being the larger. The four Groups 5979, 5983, 5985, and 5986 form parts of a wide area of feeble disturbance.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 3·216	M	21	163	17	130	294·0	−16·6	+46·0
4·230	M	10	152	12	173	295·1	−16·1	+60·4
5·475	G	5	46	15	139	296·3	−16·5	+78·1
Means ...	...	...	...	15	147	295·13	−16·40	...

Group 5987.

One or two very small spots. The group is not seen on October 5.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 4·230	M	0	17	0	11	198·6	+10·3	−36·1
5·475	G	0	0	0	0	...	...	...
6·500	G	0	7	0	4	198·4	+10·7	− 6·3
7·118	K	0	11	0	6	200·3	+ 8·5	+ 3·8
Means ...	...	...	...	0	5	199·10	+ 9·83	...

Group 5988.

A small spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 4·230	M	0	14	0	14	175·4	+16·7	−59·3
Means ...	...	...	...	0	14	175·4	+16·7	...

Group 5988*.

A very small spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Oct. 5·475	G	0	7	0	4	195·3	− 7·3	−22·9
Means ...	...	...	...	0	4	195·3	− 7·3	...

Group 5992.

A very small spot on October 5. The group is not seen again until October 10, when two spots are observed close to the west limb.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 5·475	G	0	9	0	5	233·4	−10·0	+15·2
6·500	G	0	0	0	0	...	...	...
7·118	K	0	0	0	0	...	...	...
8·544	G	0	0	0	0	...	...	...
9·220	M	0	0	0	0	...	...	...
10·114	K	0	19	0	53	234·9	−12·3	+77·8
Means ...	...	...	...	0	10	234·15	−11·15	...

Group 5987*.

A very small spot, *np* Group 5987.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 7·118	K	0	7	0	4	220·6	+13·7	+24·1
Means ...	...	...	...	0	4	220·6	+13·7	...

Group 5989.

A few small unstable spots, mostly in two small clusters, *a* and *b*.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 7·118	K	0	28	0	16	186·1	−18·9	−10·4
8·544	G	9	68	6	38	186·5	−19·2	+ 8·8
9·220	M	11	74	7	44	187·8	−18·6	+18·9
10·114	K	4	36	3	23	186·7	−19·6	+29·6
11·118	K	14	108	11	83	186·4	−19·7	+42·6
12·118	K	6	30	6	30	185·5	−20·1	+54·9
Means ...	...	...	...	6	39	186·50	−19·35	...

Group 5990.

A small spot, *a*, with two very small followers on October 9.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 8·544	G	0	20	0	10	186·0	+14·7	+ 8·3
9·220	M	3	39	2	21	184·8	+14·6	+15·9
10·114	K	0	27	0	16	187·9	+14·1	+30·8
11·118	K	0	8	0	5	183·6	+13·8	+39·8
Means ...	...	...	...	1	13	185·58	+14·30	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 5991.

A very small faint spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Oct. 8·544	G	0	13	0	6	179·7	+15·9	+ 2·0
Means ...	...	...	...	0	6	179·7	+15·9	...

Group 5995.

A few very small faint spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Oct. 21·123	D	1	18	1	10	(350·6)	(−10·8)	(−21·2)
Means ...	...	...	...	1	10	350·6	−10·8	...

Group 5997.

A pair of spots, *a* and *b*, on October 14. The group is seen as a short stream on October 15. Only *a* is seen on October 16.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 14·277	M	0	46	0	37	151·8	+24·2	+49·7
15·121	D	16	88	17	96	(155·5)	(+24·0)	(+64·4)
16·124	K	0	20	0	58	159·3	+23·8	+81·4
Means ...	...	...	...	6	64	155·53	+24·00	...

Group 5999*.

A very small faint spot, *p* the place of Group 5999.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 23·608	G	0	13	0	6	342·9	+15·0	+ 3·8
Means ...	...	...	...	0	6	342·9	+15·0	...

Group 5999.

A few very small spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 24·213	M	4	40	2	23	0·1	+12·6	+29·0
25·190	D	3	27	2	18	(0·1)	(+12·6)	(+41·9)
26·209	D	0	8	0	7	(0·1)	(+12·6)	(+55·4)
Means ...	...	...	...	1	16	0·10	+12·60	...

Group 5993.

A few very small spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 15·121	D	1	79	1	40	(104·5)	(+ 5·2)	(+13·4)
Means ...	...	...	...	1	40	104·5	+ 5·2	...

Group 5996.

A very small spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 24·213	M	0	8	0	6	282·5	+19·5	−48·6
Means ...	...	...	...	0	6	282·5	+19·5	...

Group 5998.

A very small spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 16·124	K	0	6	0	5	127·4	−14·1	+49·5
Means ...	...	...	...	0	5	127·4	−14·1	...

Group 6000.

One or two very small faint spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 25·190	D	2	17	2	13	(279·1)	(−26·2)	(−39·1)
26·209	D	0	12	0	8	(278·2)	(−25·5)	(−26·5)
Means ...	...	...	...	1	11	278·65	−25·85	...

Group 5994.

A small regular spot, *a*, with a small companion, *b*, on October 21 and 22.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 20·353	M	0	10	0	9	326·1	+15·1	−55·9
21·123	D	4	28	3	20	(326·9)	(+14·6)	(−44·9)
22·222	M	2	40	1	23	327·8	+14·1	−29·6
23·608	G	0	14	0	7	327·3	+14·4	−11·8
24·213	M	0	12	0	6	326·7	+14·9	− 4·4
25·190	D	3	10	1	5	(326·7)	(+14·9)	(+ 8·5)
Means ...	...	...	...	1	12	326·92	+14·67	...

Group 6000*.

A few very small faint spots, *np* the place of Group 6000.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 27·223	M	0	6	0	3	287·6	−18·8	− 3·9
Means ...	...	...	...	0	3	287·6	−18·8	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 6001.

A revival of Group 5990. A fine straight stream up to the time of its reaching the central meridian; after which it diminishes, and its component spots are small and widely scattered. The first and last spots, *a* and *b*, are the largest.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Oct. 29·400	M	0	5	0	13	182·7	+14·0	−80·0
30·118	K	4	18	6	26	183·0	+15·5	−70·2
31·544	G	42	191	36	158	181·6	+15·3	−52·8
Nov. 1·256	M	58	314	41	221	181·6	+15·3	−43·4
2·299	M	68	530	40	313	181·0	+15·5	−30·3
3·509	G	89	520	46	274	181·4	+15·7	−13·9
4·132	K	68	485	34	249	182·1	+15·5	− 5·0
5·498	G	53	263	29	138	182·2	+16·1	+13·1
6·196	M	25	212	14	119	183·9	+15·5	+24·0
7·181	M	5	57	3	37	184·2	+16·0	+37·3
8·345	M	2	24	2	21	184·6	+16·1	+53·1
9·274	M	0	39	0	48	185·4	+15·9	+66·1
10·475	G	2	12	5	28	182·0	+18·3	+78·5
Means ...	...	...	...	20	127	182·75	+15·75	...

Group 6002.

A few small spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Oct. 31·544	G	15	84	11	65	284·5	+ 3·9	+50·1
Nov. 1·256	M	0	51	0	50	284·0	+ 4·6	+59·0
2·299	M	0	8	0	20	289·9	+ 4·9	+78·6
Means ...	...	...	...	4	45	286·13	+ 4·47	...

Group 6003.

One or two small spots, *p* Group 6004. The group is not seen on November 11.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Nov. 8·345	M	2	32	2	40	66·3	− 9·5	−65·2
9·274	M	0	20	0	17	66·2	− 9·9	−53·1
10·475	G	0	8	0	6	63·9	−10·7	−39·6
11·547	G	0	0	0	0	...	...	...
12·517	G	0	28	0	15	67·3	−10·1	− 9·3
13·226	M	0	22	0	11	66·3	−10·6	− 0·9
Means ...	...	...	...	0	15	66·00	−10·16	...

Group 6004.

A large well-defined composite spot, *a*, occasionally closely followed by some small companions.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Nov. 8·345	M	32	229	59	424	58·2	−11·2	−73·3
9·274	M	48	376	50	397	59·1	−11·5	−60·2
10·475	G	75	563	54	405	59·7	−10·7	−43·8

Group 6004—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Nov. 11·547	G	118	603	69	355	60·3	−10·2	−29·1
12·517	G	119	719	63	383	61·5	−10·7	−15·1
13·226	M	117	795	61	412	61·0	−10·6	− 6·2
14·395	M	89	696	47	363	61·2	− 9·9	+ 9·4
15·224	M	100	611	55	338	61·6	−10·7	+20·7
16·137	K	90	542	55	333	61·5	−10·6	+32·6
17·203	M	94	515	70	385	61·3	−10·4	+46·5
18·124	K	52	300	51	297	61·3	−10·2	+58·6
19·223	M	24	189	43	344	61·6	−10·8	+73·4
Means ...	...	...	...	56	370	60·69	−10·63	...

Group 6006.

A number of spots irregularly arranged, but principally collected in a single cluster. The group forms a train to Group 6004, at first curved, but later long and straight.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Nov. 8·345	M	9	66	29	223	50·8	−12·1	−80·7
9·274	M	11	156	17	236	50·1	−12·7	−69·2
10·475	G	37	241	32	211	50·5	−12·6	−53·0
11·547	G	58	380	39	255	50·2	−12·6	−39·2
12·517	G	88	494	50	285	51·6	−13·1	−25·0
13·226	M	58	443	32	240	51·1	−12·6	−16·1
14·395	M	31	341	16	176	50·3	−12·1	− 1·5
15·224	M	21	225	11	119	49·9	−13·1	+ 9·0
16·137	K	6	82	3	46	49·6	−12·5	+20·7
17·203	M	0	7	0	4	49·2	−11·6	+34·4
Means ...	...	...	...	23	180	50·33	−12·50	...

Group 6005.

A small faint spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Nov. 10·475	G	0	14	0	9	61·4	+13·1	−42·1
Means ...	...	...	...	0	9	61·4	+13·1	...

Group 6007.

A few small very faint unstable spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Nov. 10·475	G	0	15	0	7	103·7	− 9·0	+ 0·2
11·547	G	0	7	0	4	105·4	−10·9	+16·0
12·517	G	28	107	16	65	108·0	− 9·2	+31·4
13·226	M	0	76	0	51	108·0	− 9·7	+40·8
14·395	M	4	32	4	29	108·1	− 8·9	+56·3
15·224	M	0	10	0	12	105·4	−11·0	+64·5
Means ...	...	...	...	3	28	106·43	− 9·78	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 6008.

One or two small spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Nov. 10·475	G	0	28	0	40	33·8	+ 6·5	−69·7
11·547	G	0	45	0	41	32·2	+ 7·9	−57·2
12·517	G	4	32	3	23	32·0	+ 6·0	−44·6
13·226	M	4	34	2	21	32·1	+ 6·7	−35·1
14·395	M	4	30	2	15	33·0	+ 6·8	−18·8
15·224	M	0	6	0	3	32·9	+ 6·6	− 8·0
16·137	K	0	52	0	26	33·0	+ 7·5	+ 4·1
17·203	M	0	31	0	17	34·1	+ 7·5	+19·3
18·124	K	1	16	1	9	33·6	+ 6·7	+30·9
Means ...	...	...	...	1	22	32·97	+ 6·91	...

Group 6009.

Two or three very small spots.

Nov. 11·547	G	4	24	2	13	68·5	+14·5	−20·9
12·517	G	5	46	2	24	69·6	+15·0	− 7·0
13·226	M	0	37	0	19	69·5	+15·2	+ 2·3
14·395	M	0	6	0	3	67·1	+16·6	+15·3
Means ...	...	...	...	1	15	68·68	+15·33	...

Group 6012.

Some very small spots, *f* Group 6010.

Nov. 11·547	G	0	20	0	13	54·1	+13·4	−35·3
Means ...	...	...	...	0	13	54·1	+13·4	...

Group 6010.

A number of spots, mostly small, in a short stream, *p* Group 6012. The two largest spots, *a* and *b*, are also the most stable.

Nov. 12·517	G	17	122	9	64	60·4	+12·0	−16·2
13·226	M	21	101	11	52	60·9	+11·8	− 6·3
14·395	M	40	222	20	115	61·7	+12·1	+ 9·9
15·224	M	38	197	21	107	62·3	+11·2	+21·4
16·137	K	5	60	3	37	63·2	+11·0	+34·3
17·203	M	0	11	0	9	62·9	+12·1	+48·1
Means ...	...	...	...	11	64	61·90	+11·70	...

Group 6013.

Some small spots.

Nov. 14·395	M	0	26	0	15	26·7	−14·0	−25·1
Means ...	...	...	...	0	15	26·7	−14·0	...

Group 6014.

Two or three very small spots.

1906. d						°	°	°
Nov. 16·137	K	0	24	0	14	1·1	+ 9·9	−27·8
17·203	M	0	17	0	9	3·1	+ 9·5	−11·7
18·124	K	0	17	0	9	4·5	+ 9·2	+ 1·8
Means ...	...	...	...	0	11	2·90	+ 9·53	...

Group 6015.

A fine well-defined spot, *a*, with double nucleus, eventually breaking up into two regular spots, *b* and *c*, of which *c* speedily disappears. A few small companions are generally seen with the principal spot.

Nov. 18·124	K	12	106	22	196	291·0	−24·1	−71·7
19·223	M	42	219	44	232	290·4	−23·5	−57·8
20·227	M	50	388	39	302	291·3	−23·7	−43·7
21·224	M	48	365	30	234	291·8	−23·5	−30·0
22·223	M	53	371	31	217	291·3	−23·9	−17·4
23·233	M	33	332	19	186	291·6	−23·9	− 3·7
24·209	M	29	229	17	130	292·1	−23·8	+ 9·7
25·241	M	26	131	16	80	292·1	−24·3	+23·2
26·218	M	30	93	21	65	292·6	−23·9	+36·6
27·216	M	0	19	0	16	291·4	−24·0	+48·5
Means ...	...	...	...	24	166	291·56	−23·86	...

Group 6011.

Two very small spots.

Nov. 19·223	M	0	19	0	13	310·4	−11·4	−37·8
Means ...	...	...	...	0	13	310·4	−11·4	...

Group 6017.

A very small faint spot.

Nov. 19·223	M	0	5	0	5	287·9	+11·3	−60·3
Means ...	...	...	...	0	5	287·9	+11·3	...

Group 6018.

A few small spots, *sf* Group 6015.

Nov. 19·223	M	0	12	0	21	278·0	−25·5	−70·2
Means ...	...	...	...	0	21	278·0	−25·5	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 6019.

A stream of small spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Nov. 22·223	M	0	7	0	4	316·3	+17·2	+ 7·6
23·233	M	4	58	2	31	311·8	+14·4	+16·5
24·209	M	5	62	3	36	312·4	+14·2	+30·0
25·241	M	0	30	0	22	315·9	+13·2	+47·0
26·218	M	4	76	4	82	317·6	+13·4	+61·6
27·216	M	12	92	26	193	319·0	+13·5	+76·1
Means ...	...	...	...	6	61	315·50	+14·32	...

Group 6020.

Two very small spots.

Nov. 22·223	M	0	18	0	9	299·7	+10·0	− 9·0
Means ...	...	...	...	0	9	299·7	+10·0	...

Group 6021.

A fine double spot, *a*, eventually breaking up into two regular spots, *b* and *c*. *a* is followed by a few very small companions.

Nov. 23·233	M	0	32	0	194	209·9	+10·2	−85·4
24·209	M	26	185	44	315	209·4	+10·2	−73·0
25·241	M	37	282	36	280	209·4	+ 9·5	−59·5
26·218	M	69	426	51	313	209·6	+10·0	−46·4
27·216	M	113	587	69	359	209·3	+10·0	−33·6
28·218	M	107	614	58	331	209·5	+ 9·9	−20·1
29·236	M	94	605	49	312	209·2	+10·4	− 7·0
30·218	M	73	560	38	288	209·5	+10·6	+ 6·2
Dec. 1·448	G	60	454	34	249	209·6	+10·9	+22·5
2·236	M	61	347	37	210	209·5	+11·4	+32·8
3·242	M	51	307	38	228	210·0	+11·7	+46·6
4·202	M	32	200	32	198	209·7	+11·5	+59·0
5·535	G	14	89	29	190	209·5	+10·7	+76·3
Means ...	...	...	...	40	267	209·55	+10·54	...

Group 6023.

An irregular stream of spots closely following Group 6021. The leader, *a*, is the largest member of the group.

Nov. 24·209	M	0	26	0	73	202·4	+ 9·3	−80·0
25·241	M	8	59	10	72	203·4	+ 9·0	−65·5
26·218	M	17	77	14	64	203·6	+ 9·1	−52·4
27·216	M	24	177	16	117	203·7	+ 9·3	−39·2
28·218	M	15	122	9	70	202·8	+ 9·2	−26·8
29·236	M	9	21	5	11	201·7	+ 8·7	−14·5
Means ...	...	...	...	9	68	202·93	+ 9·10	...

Group 6024.

A large regular spot, *a*, usually with one or two small companions.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Nov. 25·241	M	24	158	44	294	194·8	+17·0	−74·1
26·218	M	47	308	49	325	195·4	+17·3	−60·6
27·216	M	68	338	53	262	195·1	+17·4	−47·8
28·218	M	65	394	41	249	195·5	+17·1	−34·1
29·236	M	85	492	48	276	195·6	+17·4	−20·6
30·218	M	107	574	56	302	195·7	+17·0	− 7·6
Dec. 1·448	G	71	523	37	276	196·2	+16·9	+ 9·1
2·236	M	86	467	48	258	196·3	+16·9	+19·6
3·242	M	95	414	59	257	196·7	+17·2	+33·3
4·202	M	36	248	27	186	196·9	+17·1	+46·2
5·535	G	33	182	39	218	197·3	+16·8	+64·1
6·504	G	11	81	28	198	198·1	+16·9	+77·7
Means ...	...	...	...	44	258	196·13	+17·08	...

Group 6022.

A very small spot, *nf* Group 6015.

Nov. 25·241	M	0	17	0	10	288·5	−20·2	+19·6
Means ...	...	...	...	0	10	288·5	−20·2	...

Group 6025.

One or two small spots.

Nov. 26·218	M	0	11	0	11	314·5	−10·2	+58·5
27·216	M	4	24	5	37	313·6	−11·0	+70·7
28·218	M	0	20	0	68	310·8	−11·2	+81·2
Means ...	...	...	...	2	39	312·97	−10·80	...

Group 6015*.

A small spot, *sf* Group 6015.

Nov. 26·218	M	0	14	0	9	280·4	−24·7	+24·4
Means ...	...	...	...	0	9	280·4	−24·7	...

Group 6026.

A few small spots on November 26. The group has developed by November 28 into a long irregular stream.

Nov. 26·218	M	0	14	0	9	222·6	+20·7	−33·4
27·216	M	23	102	13	59	221·7	+20·6	−21·2
28·218	M	43	354	22	188	222·6	+20·0	− 7·0

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 6026—*continued.*

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Nov. 29·236	M	79	436	43	233	223·2	+20·1	+ 7·0
30·218	M	26	200	23	194	223·4	+20·2	+20·1
Dec. 1·448	G	25	205	17	142	226·8	+20·3	+39·7
2·236	M	30	193	25	161	227·3	+20·5	+50·6
3·242	M	59	323	79	414	229·0	+20·2	+65·6
4·202	M	21	165	53	419	228·8	+20·3	+78·1
Means ...	...	...	...	31	202	225·04	+20·32	...

Group 6029.

Two very small faint spots.

Nov. 27·216	M	0	15	0	8	222·8	+ 4·8	−20·1
Means ...	...	...	...	0	8	222·8	+ 4·8	...

Group 6030.

A small stream, *f* Group 6024. The rear spot, *a*, is the largest at first, but has broken up by November 29, after which the stream rapidly diminishes.

Nov. 26·218	M	4	100	6	154	185·4	+15·8	−70·6
27·216	M	13	121	12	115	185·5	+15·2	−57·4
28·218	M	12	109	8	78	185·9	+15·2	−43·7
29·236	M	7	38	4	23	185·7	+15·1	−30·5
30·218	M	10	70	5	39	186·3	+15·5	−17·0
Dec. 1·448	G	5	27	2	14	187·9	+15·5	+ 0·8
2·236	M	3	16	2	8	188·0	+15·4	+11·3
3·242	M	0	11	0	6	188·1	+15·5	+24·7
4·202	M	0	15	0	10	189·5	+15·8	+38·8
Means ...	...	...	...	4	50	186·92	+15·44	...

Group 6027.

A small spot, *a*, *nf* Group 6030, and forming with it, and with Group 6024, a long straggling stream. A few small companions are sometimes seen near *a*.

Nov. 26·218	M	7	57	16	132	178·6	+17·8	−77·4
27·216	M	8	44	10	53	178·2	+17·7	−64·7
28·218	M	6	46	5	38	178·3	+17·7	−51·3
29·236	M	8	53	5	35	178·9	+17·8	−37·3
30·218	M	4	40	2	23	179·0	+17·7	−24·3
Dec. 1·448	G	5	71	2	37	179·9	+17·4	− 7·2
2·236	M	6	105	3	54	180·6	+17·8	+ 3·9
3·242	M	0	5	0	3	182·6	+18·3	+19·2
Means ...	...	...	...	5	47	179·51	+17·78	...

Group 6028.

Two very small spots, *np* Group 6015.

1906. d						°	°	°
Nov. 27·216	M	4	15	3	12	294·3	−14·3	+51·4
Means ...	...	...	...	3	12	294·3	−14·3	...

Group 6031*.

One or two very small spots, *s* of Group 6031.

Dec. 1·448	G	1	19	1	10	170·4	−12·4	−16·7
2·236	M	0	7	0	4	172·5	−11·9	− 4·2
Means ...	...	...	...	1	7	171·45	−12·15	...

Group 6031.

A few very small faint spots in a straight stream.

Dec. 1·448	G	0	15	0	8	167·4	− 8·3	−19·7
2·236	M	6	50	3	26	167·3	− 7·9	− 9·4
3·242	M	0	83	0	43	166·4	− 7·7	+ 3·0
4·202	M	6	62	3	33	167·2	− 7·5	+16·5
5·535	G	0	22	0	13	167·6	− 7·7	+34·4
Means ...	...	..	...	1	25	167·18	− 7·82	...

Group 6032*.

A pair of very small spots.

Dec. 1·448	G	0	19	0	13	142·3	+ 1·7	−44·8
Means ...	...	...	...	0	13	142·3	+ 1·7	...

Group 6032.

A few unstable spots in a short changing stream. The group is not seen on December 6 or 7.

Dec. 2·236	M	6	35	9	51	106·4	+ 6·1	−70·3
3·242	M	9	101	8	95	105·6	+ 6·2	−57·8
4·202	M	12	98	8	70	105·2	+ 6·6	−45·5
5·535	G	0	29	0	16	105·2	+ 6·5	−28·0
6·504	G	0	0	0	0	...	...	...
7·464	G	0	0	0	0	...	...	...
8·205	M	0	47	0	24	102·6	+ 6·5	+ 4·6
Means ...	...	...	...	4	37	105·00	+ 6·38	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 6033.

A very small spot.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Dec. 4·202	M	4	16	2	9	127·5	− 8·6	−23·2
5·535	G	0	8	0	4	129·6	− 8·8	− 3·6
6·504	G	0	9	0	5	131·0	− 8·5	+10·6
Means ...	...	...	...	1	6	129·37	− 8·63	...

Group 6034.

Return of Group 6004. A small regular spot, *a*, with a few very small companions on December 9 and the succeeding days.

Dec. 5·535	G	5	47	7	71	63·0	−11·9	−70·2
6·504	G	16	44	15	42	63·1	−11·8	−57·3
7·464	G	11	48	8	35	62·7	−12·1	−45·1
8·205	M	14	39	9	25	62·6	−12·9	−35·4
9·244	M	10	51	5	29	62·3	−13·3	−22·0
10·484	G	9	49	5	25	63·2	−12·6	− 4·8
11·221	M	6	51	3	26	61·8	−13·3	+ 3·5
12·522	G	0	9	0	5	63·6	−12·0	+22·5
Means ...	...	...	...	7	32	62·79	−12·49	...

Group 6037.

Return of Group 6006. A cluster of very small spots, *f* Group 6034. The group is not seen on December 12.

Dec. 5·535	G	0	8	0	17	57·1	−10·9	−76·1
6·504	G	0	23	0	28	56·2	−10·8	−64·2
7·464	G	0	10	0	8	56·2	−11·1	−51·6
8·205	M	0	13	0	9	55·5	−11·7	−42·5
9·244	M	0	9	0	5	54·2	−12·7	−30·1
10·484	G	0	57	0	30	54·0	−12·6	−14·0
11·221	M	0	17	0	9	53·7	−12·2	− 4·6
12·522	G	0	0	0	0	...	...	...
13·124	K	0	8	0	4	55·9	−12·1	+22·7
Means ...	...	...	...	0	12	55·35	−11·76	...

Group 6036.

A small regular spot, *a*, usually with a very small companion. *a* has disappeared by December 10, but a very small spot is seen *f* the place of the group.

Dec. 7·464	G	6	27	3	14	104·9	+12·2	− 2·9
8·205	M	0	18	0	9	106·2	+12·0	+ 8·2
9·244	M	2	12	1	7	106·9	+11·9	+22·6
10·484	G	0	8	0	5	101·2	+11·9	+33·2
Means ...	...	...	...	1	9	104·80	+12·00	...

Group 6035.

Some small spots in an irregular cluster. The group is not seen on December 9.

1906. d						°	°	°
Dec. 8·205	M	0	30	0	19	137·5	+14·2	+39·5
9·244	M	0	0	0	0	...	...	...
10·484	G	7	44	11	73	139·7	+13·1	+71·7
11·221	M	0	24	0	69	138·0	+13·3	+79·7
Means ...	...	...	...	3	40	138·40	+13·53	...

Group 6038.

A few very small unstable spots.

Dec. 8·205	M	0	17	0	11	133·3	− 7·2	+35·3
9·244	M	8	41	6	31	131·6	− 7·4	+47·3
10·484	G	0	25	0	29	131·9	− 7·9	+63·9
11·221	M	0	16	0	28	131·8	− 7·4	+73·5
Means ...	...	...	...	2	25	132·15	− 7·48	...

Group 6039.

Two very small spots on December 8; one on December 9.

Dec. 8·205	M	2	21	1	12	69·7	+ 9·0	−28·3
9·244	M	2	12	1	6	73·3	+ 8·3	−11·0
Means ...	...	...	...	1	9	71·50	+ 8·65	...

Group 6041.

A few small unstable spots in rapid change.

Dec. 9·244	M	11	35	6	20	59·2	+12·2	−25·1
10·484	G	5	15	2	8	59·3	+12·6	− 8·7
11·221	M	0	24	0	12	58·9	+12·2	+ 0·6
12·522	G	0	13	0	7	59·7	+12·0	+18·6
13·124	K	7	90	4	52	59·3	+11·8	+26·1
14·148	K	12	67	8	44	58·4	+12·7	+38·8
Means ...	...	...	...	3	24	59·13	+12·25	...

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*continued.*

Group 6044.

A few small unstable spots, *sp* Group 6041. The two groups form together an irregular straggling stream from December 11 to December 13.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Dec. 11·221	M	6	49	3	25	60·8	+10·6	+ 2·5
12·522	G	7	70	4	39	62·0	+ 9·8	+20·9
13·124	K	12	65	7	37	62·8	+10·1	+29·6
14·148	K	9	49	6	34	62·6	+10·0	+43·0
15·217	K	0	11	0	11	64·7	+10·6	+59·1
16·125	K	0	9	0	16	67·0	+ 9·9	+73·4
Means ...	...	...	...	3	27	63·32	+10·17	...

Group 6042.

A fine straight stream in constant change.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Dec. 11·221	M	2	17	4	30	345·0	+13·2	−73·3
12·522	G	30	153	27	140	345·7	+13·1	−55·4
13·124	K	38	271	29	209	345·2	+13·0	−48·0
14·148	K	48	245	29	152	345·5	+12·6	−34·1
15·217	K	54	441	30	243	345·2	+12·0	−20·4
16·125	K	81	446	42	232	346·0	+12·1	− 7·6
17·226	M	83	418	43	216	345·9	+12·4	+ 6·8
18·209	M	128	840	71	462	346·6	+12·3	+20·5
19·136	K	141	982	87	604	347·6	+10·8	+33·7
20·140	K	114	868	84	655	347·7	+10·9	+47·0
21·296	D	104	802	119	912	(347·8)	(+11·0)	(+62·2)
22·468	G	23	266	49	665	347·9	+11·1	+77·8
Means ...	...	...	...	51	377	346·34	+12·04	...

Group 6037*.

A very small spot, *np* Group 6037.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Dec. 11·221	M	0	6	0	3	57·1	− 3·9	− 1·2
Means ...	...	...	...	0	3	57·1	− 3·9	...

Group 6043.

A few very small unstable spots.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Dec. 12·522	G	0	20	0	17	90·5	+18·4	+49·4
13·124	K	0	13	0	13	90·4	+18·3	+57·2
Means ...	...	...	...	0	15	90·45	+18·35	...

Group 6042*.

A pair of very small spots forming midway between Groups 6041 and 6042.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
1906. d						°	°	°
Dec. 12·522	G	0	17	0	9	21·7	+ 9·9	−19·4
13·124	K	0	14	0	7	23·3	+ 9·8	− 9·9
Means ...	...	...	...	0	8	22·50	+ 9·85	...

Group 6045.

Return of Group 6019. A large regular spot, *a*, with occasionally several very small companions.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Dec. 12·522	G	7	76	17	192	323·0	+14·0	−78·1
13·124	K	15	159	23	244	323·0	+14·3	−70·2
14·148	K	28	209	27	200	322·8	+14·3	−56·8
15·217	K	38	255	27	182	322·5	+13·7	−43·1
16·125	K	39	271	23	166	322·7	+14·0	−30·9
17·226	M	33	319	18	171	322·2	+13·3	−16·9
18·209	M	45	260	23	135	321·9	+13·5	− 4·2
19·136	K	50	319	26	167	322·4	+13·2	+ 8·5
20·140	K	40	218	22	122	322·5	+13·2	+21·8
21·296	D	30	215	19	141	(322·8)	(+13·6)	(+37·2)
22·468	G	15	149	13	129	323·0	+14·0	+52·9
23·235	M	12	93	14	109	323·2	+14·7	+63·2
24·230	M	5	39	11	87	322·8	+14·7	+75·9
25·128	K	2	10	20	100	321·9	+13·2	+86·8
Means ...	...	...	...	20	153	322·62	+13·84	...

Group 6046.

A very large composite spot, *a*, behind which a fine train of spots gradually forms. The train undergoes many changes.

Date. Greenwich Civil Time.	Where taken.	Projected Area of Umbra.	Projected Area of Whole Spot.	Area for Group. Umbra.	Area for Group. Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	Longitude from Central Meridian.
Dec. 12·522	G	39	372	91	876	323·6	−15·3	−77·5
13·124	K	101	601	144	858	324·1	−14·9	−69·1
14·148	K	157	934	145	868	323·2	−15·6	−56·4
15·217	K	224	1220	157	856	323·5	−16·0	−42·1
16·125	K	234	1204	142	730	323·0	−15·7	−30·6
17·226	M	303	1456	164	789	322·0	−16·6	−17·1
18·209	M	267	1776	138	926	321·0	−16·6	− 5·1
19·136	K	289	1631	151	847	320·1	−16·8	+ 6·2
20·140	K	232	1467	128	803	319·5	−17·2	+18·8
21·296	D	293	1415	185	891	(319·9)	(−16·5)	(+34·3)
22·468	G	198	1110	160	888	320·2	−15·8	+50·1
23·235	M	136	827	143	867	320·9	−15·6	+60·9
24·230	M	65	489	116	821	320·3	−15·4	+73·4
25·128	K	14	195	61	857	319·1	−16·3	+84·0
Means ...	...	...	...	138	848	321·46	−16·02	...

ROYAL OBSERVATORY, GREENWICH.

TOTAL AREAS OF SUN SPOTS AND FACULÆ

PROJECTED AND CORRECTED FOR FORESHORTENING

FOR EACH DAY,

AND

MEAN AREAS AND MEAN HELIOGRAPHIC LATITUDE

OF

SUN SPOTS AND FACULÆ

FOR EACH ROTATION OF THE SUN

AND FOR THE YEAR

1906.

TOTAL AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1906.

NOTE.—The Greenwich Civil Time at which the photograph was taken is expressed by the month, day of the month (civil reckoning), and decimal of a day, reckoned from Greenwich Mean Midnight.

The place where the photograph was taken is indicated in the second Column. A photograph taken at Greenwich is indicated by the letter G, one taken at Kodai-kánal by the letter K, one taken at Dehra Dûn by the letter D, and one taken in Mauritius by the letter M.

The Projected Area is the Area as it is measured on the photograph, uncorrected for the effect of foreshortening, and expressed in millionths of the Sun's apparent disk.

The Area Corrected for the effect of Foreshortening is expressed in millionths of the Sun's visible hemisphere.

The decimal of a day is not given for December 28, as no photographic Record is at present available for that day. The areas given for that day are enclosed in brackets, and are obtained by interpolation from the measures of photographs taken on the days immediately preceding and following.

Greenwich Civil Time.		Where taken.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1906.	d							
January	1·135	K.	250	1565	3851	127	800	3634
	2·279	M.	178	1255	3605	95	672	3529
	3·218	M.	149	1034	2730	94	649	3069
	4·473	G.	85	616	2479	67	457	2941
	5·196	M.	71	412	2359	62	354	2470
	6·261	M.	32	297	2334	32	293	2188
	7·529	G.	23	132	1260	13	77	1202
	8·151	K.	33	189	2288	100	486	2265
	9·216	M.	69	417	1714	97	626	2099
	10·482	G.	119	671	2742	105	589	2807
	11·483	G.	140	771	2565	95	523	2532
	12·256	M.	128	849	2581	76	566	2646
	13·515	G.	174	931	2985	101	535	2893
	14·499	G.	168	942	2174	89	508	2121
	15·448	G.	121	747	2115	66	404	2235
	16·490	G.	105	564	1793	61	326	1902
	17·473	G.	75	455	864	50	308	965
	18·468	M.	47	335	2645	41	280	2693
	19·497	G.	39	245	2911	51	323	3193
	20·118	K.	26	201	4673	42	332	4633
	21·243	M.	26	182	4019	20	159	3918
	22·267	M.	141	998	4216	98	679	3935
	23·118	K.	297	1593	3401	180	952	3526
	24·307	M.	282	2220	2118	153	1193	2400
	25·118	K.	345	2320	1774	186	1245	1770
	26·490	G.	296	2354	2026	236	2038	2213
	27·543	G.	253	2311	2832	203	1814	2847
	28·122	K.	277	2155	3500	207	1681	3448
	29·495	G.	298	1957	4701	220	1540	4628
	30·449	G.	217	1706	3387	164	1381	3428
	31·290	M.	231	1199	1965	140	706	2341
February	1·309	M.	240	1303	1256	143	774	1540
	2·412	M.	179	907	1458	114	576	1425
	3·138	K.	118	904	3821	77	579	3793
	4·494	G.	64	453	2437	96	605	2629
	5·546	G.	37	352	2112	46	431	2639
	6·214	M.	42	260	2435	43	273	2822
	7·508	G.	38	278	2856	26	200	2949

Greenwich Civil Time.		Where taken.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1906.	d							
February	8·128	K.	46	296	2267	28	184	2472
	9·438	M.	86	467	1940	47	252	2342
	10·201	M.	52	408	1332	27	213	1379
	11·462	G.	52	451	1272	27	238	1268
	12·391	M.	34	226	698	19	129	848
	13·474	G.	17	193	1949	11	166	1908
	14·475	G.	24	191	1053	37	310	1288
	15·122	K.	25	313	3160	29	311	3277
	16·126	K.	34	183	2515	30	155	3182
	17·125	K.	43	290	1689	40	322	2489
	18·097	K.	97	564	4225	90	555	4116
	19·383	M.	115	657	2050	79	455	1997
	20·455	G.	144	977	2313	85	591	2263
	21·506	G.	140	1051	1503	77	586	1668
	22·133	K.	182	1132	2216	98	622	2272
	23·398	M.	131	859	1572	76	485	1742
	24·480	G.	117	831	2221	77	537	2095
	25·655	G.	98	745	3941	72	558	3824
	26·200	M.	76	448	1622	68	406	1773
	27·439	G.	19	206	2351	25	243	2506
	28·383	M.	30	234	1478	41	307	1873
March	1·198	M.	29	210	1040	19	148	1598
	2·122	K.	28	324	2653	32	389	2991
	3·483	G.	32	273	2300	36	286	2252
	4·510	G.	28	229	2409	18	273	2410
	5·289	M.	24	235	925	14	138	1147
	6·462	G.	46	393	2044	74	570	2736
	7·607	G.	73	426	3082	65	419	2980
	8·118	K.	90	583	3060	74	478	2936
	9·221	M.	134	729	2485	88	488	2095
	10·115	K.	246	1327	2636	140	774	2332
	11·118	K.	216	1407	2940	117	774	2680
	12·607	G.	134	1142	3211	78	660	3065
	13·111	K.	170	1018	3821	107	632	4412
	14·186	M.	126	863	1260	107	740	1653
	15·228	M.	118	844	1755	121	893	2055
	16·118	K.	95	551	2923	111	784	3258
	17·232	M.	76	585	2476	100	822	2827

TOTAL AREAS of SUN SPOTS and FACULÆ—*continued.*

Greenwich Civil Time.		Where taken.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1906.	d							
March	18·284	M.	86	569	2090	121	882	2217
	19·518	G.	201	1450	3161	203	1659	3283
	20·307	M.	375	2235	2156	284	1716	2320
	21·488	G.	586	3746	3880	378	2409	4053
	22·542	G.	752	4408	2674	450	2613	2756
	23·656	G.	558	4218	597	337	2527	572
	24·125	K.	479	3779	2354	284	2272	2298
	25·196	M.	434	3176	2303	265	2094	2343
	26·224	M.	357	2302	2153	231	1640	2162
	27·231	M.	288	1615	1836	200	1342	2176
	28·491	G.	243	1487	2050	178	1087	2286
	29·541	G.	209	1384	3572	178	1133	3771
	30·240	M.	185	1399	2791	150	1133	2824
	31·118	K.	221	1426	3639	161	1006	3791
April	1·279	M.	236	1301	2071	166	928	2265
	2·381	M.	273	1503	2182	171	911	2443
	3·194	K.	206	1340	2296	128	843	2497
	4·211	M.	170	1205	1167	109	818	1402
	5·475	G.	170	1058	2030	138	915	2329
	6·525	G.	208	1470	2929	175	1360	2897
	7·504	G.	179	1331	2937	141	1325	3167
	8·473	G.	224	1390	3323	153	940	3395
	9·639	G.	264	1801	2956	176	1186	3091
	10·474	G.	220	1556	2416	142	1004	2510
	11·526	G.	155	1126	2072	101	746	2151
	12·479	G.	168	939	2017	98	630	2370
	13·277	M.	145	814	3173	86	501	3420
	14·478	G.	70	599	3369	85	806	3584
	15·323	M.	103	567	3178	121	682	3204
	16·503	G.	136	730	3044	130	736	3367
	17·224	M.	100	632	3301	84	559	3599
	18·216	M.	104	675	2926	72	500	3048
	19·656	G.	114	879	2814	64	490	3045
	20·227	M.	130	830	2035	71	452	2215
	21·451	G.	86	552	2461	47	299	2212
	22·675	G.	68	531	2325	40	311	2618
	23·449	G.	73	477	1843	48	384	2025
	24·603	G.	85	516	2497	82	495	2877
	25·509	G.	62	471	3760	59	490	4050
	26·233	M.	125	727	2451	97	631	2773
	27·515	G.	110	679	1884	76	431	2279
	28·540	G.	95	760	2474	49	406	2804
	29·476	G.	93	685	1342	50	369	1627
	30·674	G.	90	844	1261	53	489	1600
May	1·432	G.	104	743	1416	68	476	1563
	2·358	M.	72	617	3700	53	486	3143
	3·370	M.	43	294	1744	48	306	1819
	4·508	G.	31	238	3439	105	746	4403
	5·400	G.	42	437	2587	72	888	2985
	6·290	M.	77	703	2860	90	825	3071
	7·325	M.	133	991	1534	102	769	1524
	8·447	G.	146	1025	1821	90	633	1798
	9·239	M.	134	1147	1383	75	645	1478
	10·403	M.	140	991	1815	73	521	2333
	11·213	M.	132	938	2662	68	491	2891
	12·516	G.	132	970	2160	74	542	2279
	13·302	M.	205	1325	3099	128	814	2997
1906.	d							
May	14·663	G.	366	2665	2450	231	1679	2530
	15·469	G.	332	2831	4159	226	1879	4052
	16·445	G.	341	2601	3555	278	2053	4009
	17·204	M.	427	2510	1539	344	2179	1960
	18·603	G.	204	1287	1404	226	1586	1660
	19·637	G.	174	1212	1638	192	1474	1825
	20·205	M.	178	1324	2168	198	1557	2378
	21·212	M.	175	1232	2806	210	1454	3111
	22·394	M.	160	1184	2330	105	821	2473
	23·468	G.	194	1307	2402	157	1150	2423
	24·645	G.	238	1587	1500	169	1103	1737
	25·679	G.	292	2130	852	190	1359	953
	26·207	M.	350	2186	3229	210	1323	3254
	27·343	M.	355	2365	2435	207	1439	2249
	28·711	G.	315	2187	1524	185	1292	1553
	29·486	G.	286	2045	1828	172	1303	1840
	30·116	K.	298	1750	1515	207	1210	1699
	31·133	K.	253	1537	2289	184	1267	3061
June	1·519	G.	143	999	3408	126	833	4640
	2·343	M.	118	874	3333	99	811	3771
	3·159	K.	63	598	3302	74	639	3497
	4·131	K.	59	554	2748	86	724	2657
	5·678	G.	125	1032	1920	119	790	2254
	6·518	G.	174	1243	1638	137	870	1917
	7·414	G.	140	856	2328	96	574	2599
	8·675	G.	119	679	3408	74	432	2706
	9·476	G.	193	876	2832	121	561	2620
	10·170	K.	146	875	4700	89	560	4388
	11·670	G.	143	957	3072	99	632	2908
	12·670	G.	116	949	3070	101	908	3136
	13·201	M.	95	646	1286	92	708	1779
	14·283	M.	57	442	2651	57	420	3150
	15·686	G.	46	289	2598	33	207	2725
	16·500	G.	22	320	2708	21	265	2479
	17·518	G.	10	217	2261	17	220	2346
	18·458	M.	0	30	2142	0	18	2291
	19·500	G.	33	123	1157	34	127	1226
	20·539	G.	39	241	2095	25	167	2466
	21·226	M.	29	257	1234	18	208	1377
	22·523	G.	62	564	2506	40	403	2552
	23·542	G.	49	574	2239	32	343	2088
	24·651	G.	103	804	1712	79	604	1726
	25·648	G.	160	935	2467	108	661	2593
	26·712	G.	262	1470	2678	209	1225	2621
	27·505	G.	249	1787	2259	188	1393	2323
	28·688	G.	458	2792	1892	381	2368	2239
	29·637	G.	484	3062	2943	366	2184	3514
	30·443	G.	605	4023	3642	394	2588	3476
July	1·237	M.	597	3734	3087	359	2240	2851
	2·503	G.	565	3691	2716	321	2083	2298
	3·672	G.	609	4137	2051	351	2395	2040
	4·442	G.	625	4181	5760	365	2485	5072
	5·693	G.	749	3838	2392	475	2478	2514
	6·447	G.	543	3316	3492	345	2146	3770
	7·729	G.	468	2647	3612	385	2031	3522
	8·660	G.	272	1898	5860	203	1371	5364
	9·204	M.	268	1247	2683	233	1041	2603

TOTAL AREAS of SUN SPOTS and FACULÆ—*continued.*

Greenwich Civil Time.		Where taken.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1906.	d							
July	10·473	M.	198	1089	2846	232	1147	3118
	11·134	K.	167	958	1374	217	1453	2090
	12·670	G.	131	1105	1875	145	1186	2374
	13·209	K.	153	986	2157	126	892	2305
	14·532	G.	171	1213	4203	129	898	3701
	15·261	M.	251	1503	1748	167	999	1669
	16·679	G.	235	1679	3380	137	963	3354
	17·619	G.	242	1480	2786	140	885	3046
	18·641	G.	277	1942	2604	260	1661	3205
	19·653	G.	270	1675	2220	191	1272	2599
	20·532	G.	252	2325	3513	175	1696	3457
	21·088	D.	292	2026	3583	198	1425	3614
	22·651	G.	266	1606	3358	184	1141	3456
	23·680	G.	265	1428	2627	176	958	3011
	24·670	G.	214	1269	1611	121	843	2139
	25·685	G.	225	1350	1386	179	1040	1290
	26·640	G.	185	1068	2946	162	949	3300
	27·658	G.	217	1282	4100	165	1033	4191
	28·509	G.	231	1368	5611	167	1018	4838
	29·271	M.	347	1798	1108	217	1173	960
	30·685	G.	553	3236	2964	316	1942	3177
	31·662	G.	553	3611	1836	305	2010	2423
August	1·675	G.	425	3166	2219	250	1893	2535
	2·684	G.	406	2780	1716	268	1903	1815
	3·688	G.	274	2002	3288	224	1720	3260
	4·647	G.	163	1270	2537	183	1523	2574
	5·659	G.	70	528	1621	67	1013	1734
	6·448	G.	67	324	1595	90	448	1656
	7·676	G.	25	136	1184	85	441	1644
	8·662	G.	14	106	1570	15	105	1748
	9·661	G.	27	164	2497	20	124	2747
	10·493	G.	33	265	2582	20	172	2646
	11·247	M.	32	254	2508	20	150	2484
	12·214	M.	48	332	1949	27	187	1819
	13·122	K.	69	360	1229	40	215	1158
	14·640	G.	45	310	2352	25	170	2605
	15·609	G.	72	345	2266	46	218	2206
	16·507	G.	55	340	3412	43	265	3065
	17·489	G.	33	269	5466	32	268	4752
	18·344	M.	35	161	2111	30	144	2170
	19·510	G.	74	392	2385	65	289	2618
	20·214	M.	62	546	1680	32	278	1936
	21·407	G.	134	752	3308	136	591	3413
	22·395	M.	108	724	1269	113	787	1376
	23·418	G.	102	895	3890	89	786	3223
	24·586	G.	150	1101	2633	107	771	2152
	25·160	D.	239	1287	2391	157	832	2187
	26·673	G.	310	1770	1435	167	970	1787
	27·647	G.	338	2006	614	181	1074	734
	28·654	G.	291	2038	827	161	1146	956
	29·479	G.	331	2095	2924	231	1446	3110
	30·529	G.	251	1918	3897	187	1469	3964
	31·647	G.	203	1529	4123	201	1496	4011
September	1·528	G.	153	1062	2275	149	1200	2630
	2·420	G.	152	1004	1185	132	876	1878
	3·655	G.	133	795	2114	88	545	2469
	4·149	K.	94	562	1724	64	415	1954

Greenwich Civil Time.		Where taken.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1906.	d							
September	5·611	G.	38	296	1921	21	170	1921
	6·678	G.	77	570	2254	50	365	2133
	7·648	G.	130	725	2454	82	449	2133
	8·515	G.	94	626	1870	57	387	1819
	9·551	G.	111	871	2210	62	494	2190
	10·646	G.	75	725	1251	43	647	1582
	11·685	G.	117	839	2071	80	652	1940
	12·620	G.	98	800	2374	67	557	2322
	13·208	K.	127	837	1948	84	589	1895
	14·482	G.	210	999	2844	146	762	2888
	15·538	G.	156	1044	1316	86	648	1711
	16·297	M.	183	1297	1563	106	791	1725
	17·220	M.	278	1557	1558	153	868	1841
	18·470	G.	246	1580	1481	137	858	1532
	19·218	M.	237	1389	1461	130	779	1499
	20·388	M.	189	1131	1517	118	712	1368
	21·215	M.	118	850	1169	84	637	1142
	22·554	G.	56	522	1345	51	527	1279
	23·325	M.	50	344	1876	44	311	1814
	24·531	G.	54	246	451	31	256	575
	25·667	G.	11	217	1069	7	132	1378
	26·638	G.	24	134	1609	18	100	1735
	27·465	G.	39	322	2597	33	263	2652
	28·648	G.	35	187	524	33	183	577
	29·111	K.	35	204	1154	32	216	1352
	30·518	G.	15	177	1334	9	99	1233
October	1·487	G.	22	160	1244	13	91	1427
	2·108	K.	52	232	2535	31	136	2647
	3·216	M.	71	464	1538	51	332	1325
	4·230	M.	59	481	2360	52	444	2119
	5·475	G.	43	321	1193	67	506	1346
	6·500	G.	4	168	708	11	435	892
	7·118	K.	0	73	1343	0	122	1545
	8·544	G.	9	101	486	6	54	725
	9·220	M.	14	113	1177	9	65	1174
	10·114	K.	4	82	2455	3	92	2295
	11·118	K.	14	116	2239	11	88	2021
	12·118	K.	6	30	2514	6	30	2641
	13·358	M.	0	0	1294	0	0	1526
	14·277	M.	0	46	1076	0	37	1144
	15·121	D.	18	166	1984	18	136	2123
	16·124	K.	0	27	1627	0	63	1741
	17·238	M.	0	0	1424	0	0	1555
	18·126	D.	0	0	1218	0	0	1191
	19·645	G.	0	0	197	0	0	224
	20·353	M.	0	10	975	0	9	1173
	21·123	D.	5	46	797	4	30	806
	22·222	M.	2	40	1136	1	23	1329
	23·608	G.	0	27	1235	0	13	1371
	24·213	M.	4	60	2945	2	35	2903
	25·190	D.	8	55	1448	5	36	1638
	26·209	D.	0	20	763	0	15	893
	27·223	M.	0	6	764	0	3	798
	28·417	K.	0	0	1157	0	0	1059
	29·400	M.	0	5	605	0	13	919
	30·118	K.	4	18	980	6	26	1097
	31·544	G.	57	275	273	47	223	338

TOTAL AREAS of SUN SPOTS and FACULÆ—*concluded.*

Greenwich Civil Time.	Where taken.	Projected Area.			Area Corrected for Foreshortening.		
		Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1906. d							
November 1·256	M.	58	365	1360	41	271	1445
2·299	M.	68	538	1315	40	333	1736
3·509	G.	89	520	618	46	274	881
4·132	K.	68	485	1045	34	249	1128
5·498	G.	53	263	984	29	138	987
6·196	M.	25	212	836	14	119	921
7·181	M.	5	57	811	3	37	844
8·345	M.	45	350	1373	92	708	1690
9·274	M.	59	591	1438	67	698	1631
10·475	G.	114	880	1066	91	706	1395
11·547	G.	180	1080	1017	110	681	1085
12·517	G.	261	1548	777	143	859	734
13·226	M.	200	1507	1343	106	806	1255
14·395	M.	167	1352	1005	89	716	817
15·224	M.	158	1049	1005	87	579	1128
16·137	K.	101	760	330	61	456	514
17·203	M.	94	581	1065	70	424	929
18·124	K.	65	439	1940	74	511	2052
19·223	M.	66	444	2404	87	615	2691
20·227	M.	50	388	2247	39	302	2549
21·224	M.	48	365	1059	30	234	1098
22·223	M.	53	396	1356	31	230	1158
23·233	M.	37	422	2134	21	411	1708
24·209	M.	60	501	896	64	554	1055
25·241	M.	94	677	1624	106	758	2394
26·218	M.	177	1176	2564	161	1164	2779
27·216	M.	268	1533	3562	207	1231	3598
28·218	M.	248	1658	3010	143	1022	2944
29·236	M.	282	1644	2020	154	890	2212
30·218	M.	220	1444	1158	124	846	1481

Greenwich Civil Time.	Where taken.	Projected Area.			Area Corrected for Foreshortening.		
		Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1906. d							
December 1·448	G.	166	1333	182	93	749	405
2·236	M.	198	1220	2173	127	772	2231
3·242	M.	215	1243	2737	184	1046	2430
4·202	M.	110	804	3010	125	925	3031
5·535	G.	51	384	701	75	529	1034
6·504	G.	27	158	1425	43	273	1662
7·464	G.	17	86	1169	11	57	1323
8·205	M.	16	184	3019	10	109	2991
9·244	M.	33	161	1921	19	98	1755
10·484	G.	20	198	647	18	170	674
11·221	M.	14	203	1970	10	202	2449
12·522	G.	82	731	868	139	1285	1213
13·124	K.	173	1220	2418	207	1424	2482
14·148	K.	256	1529	3453	217	1317	3162
15·217	K.	426	2453	4044	280	1617	3882
16·125	K.	488	2694	2605	286	1591	2783
17·226	M.	516	2921	1704	279	1586	2060
18·209	M.	505	3443	2492	269	1837	2434
19·136	K.	545	3339	901	311	1903	1052
20·140	K.	439	2808	1044	278	1786	1201
21·296	D.	578	3353	2359	425	2590	2475
22·468	G.	404	2592	2818	340	2423	2740
23·235	M.	370	2298	3605	320	1991	3465
24·230	M.	308	2145	2660	303	2152	3017
25·128	K.	255	1584	1564	268	2129	2209
26·241	M.	173	1169	2030	97	642	2650
27·311	M.	193	1197	2418	112	699	2805
28· ...	...	(146	1070	2026	135	1096	2359)
29·132	K.	98	942	1634	158	1492	1912
30·270	M.	206	1296	2423	225	1435	2570
31·503	G.	237	1614	1680	208	1381	1824

MEAN AREAS of SUN SPOTS and FACULÆ, as measured on PHOTOGRAPHS taken at the ROYAL OBSERVATORY, GREENWICH, in INDIA, and in MAURITIUS, for each ROTATION of the SUN, from 1905 December 26 to 1906 December 15.

The Mean Areas have been formed by taking the Means of the Areas for each day of observation throughout each Rotation of the Sun, the Projected Areas being the Areas as measured on the photographs and expressed in millionths of the Sun's apparent disk, and the Areas Corrected for Foreshortening being expressed in millionths of the Sun's visible hemisphere.

The Rotations adopted in the following table (which is in continuation of those for the years 1873–1905 printed in the Greenwich Observations for 1884 and succeeding years) correspond to the synodic rotation of the Sun, and the commencement of each is defined by the coincidence of the assumed prime meridian with the central meridian, the assumed prime meridian being that meridian which passed through the ascending node at mean noon on January 1, 1854, and the assumed period of the Sun's sidereal rotation being 25·38 days. The numeration of the rotations is in continuation of Carrington's series (*Observations of Solar Spots made at Redhill* by R. C. Carrington, F.R.S.), No. 1 being the rotation commencing 1853, November 9. The dates of commencement of the rotations are given in GREENWICH CIVIL TIME, reckoning from midnight.

No. of Rotation.	Date of Commencement of each Rotation.			No. of Days on which Photographs were taken.	Mean of Daily Areas.					
					Projected.			Corrected for Foreshortening.		
					Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
			d							
699	1905	December	26·08	28	118	743	2503	88	562	2576
700	1906	January	22·42	27	138	958	2377	97	697	2554
701		February	18·77	27	101	677	2307	74	521	2424
702		March	18·09	27	281	1853	2475	193	1319	2622
703		April	14·38	28	96	689	2426	74	547	2641
704		May	11·62	27	226	1570	2354	171	1212	2570
705		June	7·83	27	218	1432	2636	147	978	2629
706		July	5·02	27	296	1813	2884	213	1320	3003
707		August	1·23	27	126	836	2285	94	642	2298
708		August	28·47	28	152	1009	1929	102	716	2010
709		September	24·73	27	18	144	1432	15	136	1502
710		October	22·02	28	67	467	1094	45	320	1197
711		November	18·33	27	126	835	1992	101	697	2089

MEAN AREAS of SUN SPOTS and FACULÆ, as measured on PHOTOGRAPHS taken at the ROYAL OBSERVATORY, GREENWICH, in INDIA, and in MAURITIUS, for the YEAR 1906.

The Mean Projected Areas are expressed in millionths of the Sun's apparent disk.

The Mean Areas Corrected for Foreshortening are expressed in millionths of the Sun's visible hemisphere.

YEAR.	No. of Days on which Photographs were taken.	Mean of Daily Areas.					
		Projected.			Corrected for Foreshortening.		
		Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1906	364	158	1047	2207	114	778	2320

MEAN HELIOGRAPHIC LATITUDE of SUN SPOTS, as measured on PHOTOGRAPHS taken at the ROYAL OBSERVATORY, GREENWICH, in INDIA, and in MAURITIUS, for each ROTATION of the SUN, from 1905 December 26, to 1906 December 15.

The numbers given in the accompanying table have been formed as follows:—

The Heliographic Latitude of each Spot for each day has been multiplied by its Area (corrected for foreshortening), and the sum of the products, for Spots North of the Equator, has been divided by the sum of the corresponding Areas to form Mean Heliographic Latitude of Spotted Area North of Equator; similarly for Spots South of the Equator. In forming the Mean Heliographic Latitude of entire Spotted Area, the algebraic sum of the products for Spots North and South of the Equator has been divided by the sum of the Areas; and for the Mean Distance from the Equator for all Spots, the numerical sum of the products, without regard to the sign of the latitude, has been similarly divided.

The Mean Areas have been formed by dividing the sum of the Daily Areas (corrected for foreshortening) by the number of days of observation for each Rotation of the Sun, and are expressed in millionths of the Sun's visible hemisphere.

No. of Rotation.	Date of Commencement of each Rotation.	No. of Days on which Photographs were taken.	Spots NORTH of the Equator.		Spots SOUTH of the Equator.		Mean Heliographic Latitude of entire Spotted Area.	Mean Distance from Equator of all Spots.
			Mean of Daily Areas.	Mean Heliographic Latitude.	Mean of Daily Areas.	Mean Heliographic Latitude.		
	d			°		°	°	°
699	1905 Dec. 26·08	28	295	10·94	267	9·02	+ 1·46	10·03
700	1906 Jan. 22·42	27	425	14·92	272	10·94	+ 4·83	13·37
701	Feb. 18·77	27	387	13·21	134	10·54	+ 7·11	12·57
702	Mar. 18·09	27	905	16·68	414	13·54	+ 7·19	15·70
703	Apr. 14·38	28	405	14·22	142	21·03	+ 5·09	15·98
704	May 11·62	27	1068	11·89	144	19·21	+ 8·19	12·76
705	June 7·83	27	803	14·96	175	10·84	+10·34	14·22
706	July 5·02	27	1080	14·26	240	13·26	+ 9·26	14·08
707	Aug. 1·23	27	273	19·35	369	14·31	− 0·01	16·45
708	Aug. 28·47	28	412	10·88	304	12·78	+ 0·84	11·69
709	Sept. 24·73	27	16	16·35	119	18·34	−14·14	18·10
710	Oct. 22·02	28	92	13·70	228	11·70	− 4·40	12·28
711	Nov. 18·33	27	473	14·16	225	16·68	+ 4·22	14·98

MEAN HELIOGRAPHIC LATITUDE of SUN SPOTS, as measured on PHOTOGRAPHS taken at the ROYAL OBSERVATORY, GREENWICH, in INDIA, and in MAURITIUS, for the YEAR 1906.

YEAR.	No. of Days on which Photographs were taken.	Spots NORTH of the Equator.		Spots SOUTH of the Equator.		Mean Heliographic Latitude of entire Spotted Area.	Mean Distance from Equator of all Spots.
		Mean of Daily Areas.	Mean Heliographic Latitude.	Mean of Daily Areas.	Mean Heliographic Latitude.		
			°		°	°	°
1906	364	539	13·98	239	14·01	+5·38	13·99

APPENDIX TO GREENWICH OBSERVATIONS, 1907.

CATALOGUE

OF

RECURRENT GROUPS OF SUN SPOTS

FOR THE YEARS

1874 TO 1906

COMPILED BY

MRS. ANNIE S. D. MAUNDER,

FROM THE

LEDGERS OF GROUPS OF SUN SPOTS

PUBLISHED IN THE

GREENWICH OBSERVATIONS, 1886-1907,

UNDER THE DIRECTION OF

SIR W. H. M. CHRISTIE, K.C.B., M.A., D.Sc., F.R.S.,
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ERRATA.

SPECTROSCOPIC AND PHOTOGRAPHIC RESULTS, 1896.

MEASURES OF POSITIONS AND AREAS OF SUN SPOTS AND FACULÆ, 1896.

Page.	Column.	Line.	
4	2	30	Area of Umbra, *for* 0, *read* 1.
		33	Area of Whole Spot, *for* 14, *read* 12.
		40	Total Area of Umbræ, *for* 9, *read* 10.
			Total Area of Whole Spots, *for* 85, *read* 83.
8	1	35	Area of Umbra, *for* 28, *read* 27.
		37	Total Area of Umbræ, *for* 237, *read* 236.

SPECTROSCOPIC AND PHOTOGRAPHIC RESULTS, 1896—*continued.*

Page.	Column.	Line.	
17	2	3	Longitude, *for* 81°·0, *read* 80°·8.
40	2	16	Area of Whole Spots, *for* 5, *read* 3.
41	1	3	Total Area of Whole Spots, *for* 1118, *read* 1112.
44	2	27	Longitude, *for* 212°·0, *read* 212°·7.
50		28	Total Area of Faculæ, *insert* brackets.
62	2	29	Total Area of Whole Spots, *for* 2021, *read* 2101.

CATALOGUE OF RECURRENT GROUPS OF SUN SPOTS,

1874 TO 1906.

INTRODUCTION.

THE following Catalogue of Recurrent Groups of Sun Spots, that is to say, of groups observed continuously in two or more consecutive apparitions, has been compiled with the approval of Sir W. H. M. Christie, K.C.B., Astronomer Royal, from the "Ledgers of Areas and Positions of Groups of Sun Spots deduced from the Measurement of the Solar Photographs," that have been published in the volumes of the Greenwich Observations, from 1886 to 1907, and in the Photo-Heliographic Results, 1874–1885, which formed the Appendix to the Greenwich Observations, 1905.

The form of these Ledgers is as follows:—Each group of Sun Spots is given separately, one line of entry being assigned to each day on which the group was under observation. The particulars, supplied for each day of each group, include first, the Greenwich Civil Time at which the photograph was taken, expressed by the month, day of the month, civil reckoning, and decimal of a day reckoned from Greenwich Mean Midnight. Then follow details as to the Area of the Umbræ and Whole Spots contained in the group given in two forms; first as Projected Area, that is to say, uncorrected for the effect of foreshortening; and next as Area, Corrected for the effect of foreshortening, the latter being expressed in millionths of the Sun's visible hemisphere. The mean Heliographic Longitude and Latitude of the group follow next, and after them the Longitude from the Central Meridian, that is to say, the mean heliographic longitude of the group, reckoned from the meridian passing through the centre of the Sun's disc at the moment of observation, longitude west of the centre being reckoned as positive. Finally, at the foot of the record of each group is given the Mean Daily Area of the group during the course of the apparition as corrected for foreshortening, both for the Umbræ and for the Whole Spots, together with the Mean Heliographic Longitude and the Mean Heliographic Latitude of the group for the period of observation. In taking these means the numbers for each day have been added together and divided by the number of days of observation, each day's observation being thus assumed to be of equal weight.

In drawing up the following Catalogue, these four mean numbers, transcribed direct from the Greenwich Sun Spot Ledgers, form the most important details given for each Sun Spot group and they occupy Columns 9, 10, 11 and 12. Column 1 simply contains a reference number; Column 2 the Greenwich number of the spot group;

Column 3 gives the Synodic Rotation of the Sun when the spot group crossed the central meridian, the number of the rotation being taken from the volumes of the Greenwich Observations, wherein it is stated that the assumed period of the Sun's sidereal rotation is 25·38 days, and that rotation No. 1 commenced 1853 Nov. 9.

Columns 4 and 5 give for each group the Date of the photograph upon which the group was first seen, and the Heliographic Longitude from the Central Meridian of the group as measured on that photograph; Columns 6 and 7, in like manner, give the Date of the photograph on which the group was last seen, with its Longitude from the Central Meridian then; whilst Column 8 gives the number of days for which photographs are available on which the group was measured.

The method of forming the Catalogue has been this:—If any spot group when first seen was 60° or more to the east of the Central Meridian—the detail given in Column 5,—then the Spot Ledgers, and, if necessary, the Daily Heliographic Results also, were searched some fifteen or sixteen days earlier, to ascertain whether a spot group of similar heliographic longitude and latitude was then near the west limb of the Sun. Similarly, if any spot group when last seen was 60° or more to the west of the Central Meridian—the detail given in Column 7,—then the Spot Ledgers, and, if necessary, the Daily Heliographic Results also, were searched some fifteen or sixteen days later, to ascertain whether a spot group of similar heliographic longitude and latitude was then near the east limb of the Sun. Both the search forward and the search backward have been made in the case of every spot group that was observed close to both the east and west limbs, in order that no possible case of identity might be overlooked.

The work of identification presented, however, some difficulties. The photographic record was very imperfect in the four years 1874 to 1877, and was somewhat broken in 1879 and 1884, and it necessarily follows that some uncertainty rests upon the identification of spot groups where the observations are interrupted. In these six years, therefore, and especially in the four earlier, probably a few cases of the return of a spot group have escaped notice, and a somewhat larger number have been entered as recurrent, when a continuous record would have shown that they were only revivals of activity.

The chief difficulty in the work of identification has lain in the frequency of intermittent action in spot-formation. Feeble groups often subside for a day or two and then break out again in or near the same place; and the processes of formation or dissipation of greater groups are often, in like manner, marked by intermittency. Nor is such intermittent action confined to periods of one or two days, and to the cases of feeble groups, or of groups in feeble stages of action; even important disturbances will die out completely, and sometimes revive again after a considerable length of time. Intermittent action being so frequently observed in Sun Spots during their presence in the

visible hemisphere, there must always be a measure of uncertainty about the ascription of continuity of existence to a spot group that has returned to view after a full fortnight on the unseen side of the Sun.

The difficulty was further increased by the fact that Sun Spots are stable neither in heliographic longitude nor in heliographic latitude. Their movements in longitude are in the mean closely represented by the formula :—

$$875'\cdot7 - 164' \sin^2\lambda = \text{Daily Sidereal Motion}$$

where λ is the latitude of the spot. In other words, the greater the distance of the spot from the equator, the slower the daily sidereal motion. But though this formula represents the mean motion of the spots in any latitude with considerable precision, yet, as shown in a paper communicated to the Royal Astronomical Society in 1905 by my husband and myself,* the deviations from this mean motion are, in the case of many individual groups, very great indeed. It is not possible, therefore, to assume that the mean longitude of a group in one rotation will correspond precisely to its mean longitude in the next, even after correcting for the mean drift of the particular latitude in which the group is placed.

Movements in latitude are much more restricted than movements in longitude. As a rule solar disturbances are propagated in directions parallel to the equator, but striking exceptions are observed from time to time, and a group has sometimes moved three or four degrees in latitude during the fortnight that it has been under observation.

In considering, therefore, the question of the identity of spot groups observed in two consecutive rotations of the Sun, the character of the second group must be carefully compared with that of the first in each of these three elements,—area, longitude and latitude. If the area in the first rotation is increasing or stationary, and in the second rotation, stationary or decreasing, it would seem probable that the group has not been intermittent whilst in the unseen hemisphere. So, if the change in longitude or latitude from the first rotation to the second appears to accord fairly well with the direction and rate of motion of the group whilst on the visible hemisphere, it seems legitimate to assume the identity. For even at the time of the solar maximum, the total area actually covered by Sun Spots never amounts to as much as one per cent. of the surface of the Sun contained within the spot-bearing zones. Where, therefore, an isolated disturbance in one rotation corresponds to an isolated disturbance in the next rotation within three or four degrees of longitude and one or two of latitude, the probability is great that the two disturbances are the same. Where a disturbance manifests itself by the formation of two or more neighbouring and associated groups the question is, of course, more complicated.

In what appeared an undue proportion of cases, there was a difficulty owing to the

* *The Solar Rotation Period from Greenwich Sun Spot Measures*, 1879–1901, by E. Walter Maunder and A. S. D. Maunder. *Monthly Notices of the Royal Astronomical Society*, Vol. LXV. pp. 813–825.

records not exhibiting the presence of the group when within a couple of days or perhaps three of the limb. In these cases, the area, on the day when the group was seen, was small, and it was difficult to decide whether, when nearer the limb, the spot was non-existent or had been merely overlooked through the dwarfing effect of the foreshortening or had been hidden by masses of surrounding faculæ. If, on the whole, the weight of evidence appeared to render probable the continued existence of the spot, it has been numbered in the catalogue and a note has been added to point out the element of uncertainty. If, on the other hand, the weight of evidence appeared to go in the other direction, but was not quite decisive, the series has been printed in the catalogue but a separate number has not been given it. It has been distinguished by the reference number of the preceding series, placed in brackets and marked with an asterisk. In cases where a well-defined series has been recorded, there have sometimes been included in brackets spot groups undoubtedly belonging to the same general disturbance, but for which the evidence of continuity of action was not sufficient.

In watching the development of sun spot groups, a strongly marked tendency is observed for the groups at one stage of their development to conform to a particular type. A number of spots drawn out in line, usually along a parallel of latitude, is described in the Greenwich Observations as a "stream." The characteristics of a "stream" of this particular type are that both the first and the last spots are large and well marked, and the intermediate spots small and unstable. Usually the intermediate spots disappear at a comparatively early stage, leaving the first and last spots alone and somewhat widely separated. After this the rear spot breaks up and disappears; whilst the leader spot, which is well-defined and usually, but not always, circular in form, persists, and in a large number of instances is the only survivor of the group by the time that it has come within a couple of days of the west limb. Groups conforming more or less closely to this general description I have termed in the Remarks "streams of normal type." It occasionally happens that spots classed together as a single group in one rotation may appear as two groups in the next; the small connecting spots having disappeared in the unseen hemisphere.

All cases have been excluded from the catalogue wherein there has been a clear unmistakable breach of continuity of action. It appears that about three-fourths of the recorded spot groups have been seen only during one rotation.

Of the 624 instances of recurring groups catalogued, 468 were seen only in two rotations, 118 appeared in three rotations, 25 in four rotations, 12 in five rotations, and in one instance only, and that somewhat doubtfully, did a spot group survive to be seen in a sixth apparition. Five months is the longest continuous life-history recorded for any group in the whole of the thirty-three years covered by the catalogue. It is evident, therefore, that a group of solar spots is essentially a short-lived phenomenon.

ANNIE S. D. MAUNDER.

CATALOGUE OF RECURRENT GROUPS OF SUN SPOTS, that is, of Groups observed continuously in two or more consecutive apparitions, for the Years 1874 to 1906. Compiled from the Ledgers of Areas and Positions of Groups of Sun Spots deduced from the Measurement of the Solar Photographs at the Royal Observatory, Greenwich.

In the following Table, the numeration of the Spot Groups and of the Rotations is taken from the volumes of Greenwich Observations.

The Columns "Longitude from Central Meridian" give, for the date on which each group was first seen and last seen, respectively, its heliographic longitude from the meridian passing through the centre of the Sun's disc at the moment of observation; longitude west of the centre being reckoned as positive.

The Mean Areas for Umbra and for Whole Spot are corrected for the effect of foreshortening and are expressed in millionths of the Sun's visible hemisphere.

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1874.	°	1874.	°				°	°	
1	91	276	June 1	−63·1	June 5	− 9·2	4	29	140	195·50	− 6·94	One well-defined spot of regular shape.
	97	277	June 30	−48·6	July 4	+ 9·1	4	0	38	189·10	− 8·74	One small faint spot, breaking up into a cluster of very small spots.
												Note.—No photographs are available for June 6–7 and 28.
2	92*	276	June 15	+19·2	June 19	+75·5	2	0	140	92·96	−10·20	Two spots.
	100	277	July 4	−80·7	July 16	+80·8	10	71	479	101·77	−10·54	One large regular spot.
	109	278	Aug. 3	−40·7	Aug. 11	+66·2	5	17	61	104·29	−11·47	One small spot.
												Note.—No photographs are available for Aug. 1 and 2.
3	98	277	July 2	−59·6	July 13	+77·2	9	95	705	149·38	+10·66	Two small spots; afterwards larger, as two streams.
	106	278	July 30	−42·5	Aug. 8	+74·9	5	88	561	152·69	+ 9·61	A fine stream of spots. Leader from Aug. 3 is a large regular spot.
	117	279	Aug. 24	−73·1	Aug. 31	+19·5	7	7	33	153·71	+11·26	One small spot.
												Note.—No photographs are available for July 26–29.
4	104*	278	July 16	−36·8	July 25	+80·4	8	100	594	346·97	+ 6·21	A very faint close cluster of small spots.
	110	279	Aug. 8	−81·9	Aug. 20	+82·9	9	70	458	358·24	+ 2·03	A large regular spot.
	119	280	Sept. 4	−78·0	Sept. 9	−10·5	3	0	40	362·85	+ 1·62	One spot.
5	105	278	July 23	−76·4	Aug. 3	+72·3	6	51	249	215·93	+ 6·57	One regular spot.
	116	279	Aug. 19	−73·1	Aug. 22	−33·8	4	11	57	219·38	+ 6·25	One small spot.
6	115	279	Aug. 19	−60·8	Aug. 29	+71·2	10	43	244	231·21	−15·15	Two spots close together.
	122	280	Sept. 15	−66·1	Sept. 22	+25·4	3	0	24	229·90	−13·03	One small regular spot.
7	118	279	Aug. 29	− 8·9	Sept. 5	+81·6	6	20	170	152·78	− 7·49	A scattered group of faint spots.
	124	280	Sept. 22	−44·8	Oct. 1	+75·4	8	68	366	160·07	− 8·60	One large regular spot.
	132	281	Oct. 19	−46·0	Oct. 23	+ 6·6	4	23	105	161·22	− 7·76	Single spot.
												Note.—No photographs are available for Sept. 20 and 21, or for Oct. 16–18.
8	120	279	Sept. 9	+63·1	Sept. 10	+71·4	2	0	52	75·65	+ 4·25	One small spot.
	125	280	Sept. 25	−78·4	Sept. 30	−10·5	5	4	31	87·37	+ 3·80	One small regular spot.
9	121	279	Sept. 9	+29·6	Sept. 12	+66·3	3	17	191	43·20	−14·03	A group of small spots forming a circle.
	127	280	Sept. 28	−76·8	Oct. 10	+74·6	8	129	984	44·13	−12·98	A close cluster composed of many spots.
												Note.—No photograph is available for Sept. 13.
10	129	281	Oct. 10	+ 7·3	Oct. 15	+77·9	3	32	158	335·97	−16·48	Three spots in a straight line.
	134	282	Nov. 3	−34·4	Nov. 12	+78·4	8	81	519	333·80	−15·46	Two large spots.
												Note.—No photographs are available for Oct. 30–Nov. 2.
11	131	281	Oct. 15	−72·7	Oct. 23	+35·3	5	26	106	188·41	+ 8·76	Single spot.
	135	282	Nov. 12	−73·7	Nov. 23	+82·1	6	52	321	184·02	+ 7·21	One spot, which extends later to a long irregular line.
	140	283	Dec. 9	−67·7	Dec. 18	+51·3	6	31	248	185·76	+ 6·48	A very scattered group of four spots at first. The group alters greatly.
												Note.—No photographs are available for Oct. 24–25, or Dec. 8.
			1875.		1875.							
12	142*	284	Jan. 22	+37·1	Jan. 25	+75·0	2	60	308	71·48	+ 5·88	Two large spots close together with a few small markings.
	144*	285	Feb. 9	−77·9	Feb. 11	−51·5	3	12	56	84·37	+ 5·47	A regular spot.
13	145	286	Feb. 18	−78·2	Mar. 2	+74·2	11	134	648	320·57	+18·19	A very large spot, with two or three small ones near.
	151	287	Mar. 17	−80·3	Mar. 29	+75·7	13	56	334	320·78	+18·16	One large spot.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1875.	°	1875.	°				°	°	
14	151*	286	Mar. 20	− 5·2	Mar. 26	+81·5	7	44	308	7·77	−14·19	Two large spots.
	155	287	Apr. 10	−74·8	Apr. 21	+70·7	10	58	361	10·30	−13·80	Two large spots very close together.
15	153*	287	Apr. 5	− 5·3	Apr. 9	+45·6	5	1	32	148·90	+ 7·72	One very small spot.
	157	288	Apr. 26	−76·3	May 7	+72·3	11	88	639	159·15	+ 9·19	One large spot with several small ones following it.
	159	289	May 24	−62·8	May 28	− 8·3	4	2	27	163·00	+ 8·18	One small spot.
												Note.—No photographs are available for April 11 and 12.
16	160	289	June 1	−59·3	June 11	+74·2	8	62	423	61·28	−10·19	Two spots. The group greatly increases after June 2.
	163	290	June 27	−72·8	July 6	+44·9	8	17	103	62·94	−10·08	One spot at first, which breaks up into two on July 3.
17	166	291	July 26	−68·5	Aug. 5	+69·9	9	37	226	47·22	+ 8·33	Several small spots, close at first, scattered later.
	168	292	Aug. 21	−81·0	Aug. 31	+50·3	11	31	169	47·57	+ 7·26	One spot.
												Note.—No photographs are available for Aug. 6–8.
18	177	294	Oct. 5	+21·4	Oct. 9	+75·1	5	7	48	276·76	+11·84	A scattered cluster of very small spots.
	180	295	Oct. 25	−65·9	Nov. 3	+55·7	8	62	388	284·92	+11·01	One large spot.
	185	296	Nov. 20	−82·8	Nov. 27	+ 4·3	6	9	51	285·79	+11·53	Single spot.
												Note.—No photographs are available for Oct. 22–24 or Nov. 4 and 5.
19	182	295	Nov. 18	−37·6	Nov. 27	+81·2	8	33	162	0·84	− 6·36	A stream of spots.
	187	296	Dec. 14	−44·1	Dec. 14	−44·1	1	0	10	8·30	− 6·00	One small spot.
												Note.—No photographs are available for Dec. 9–13.
			1876.		1876.							
20	194	298	Jan. 21	+ 5·9	Jan. 27	+79·4	7	24	153	274·46	−15·21	Scattered group of small spots. A change of shape on Jan. 24.
	196	299	Feb. 10	−82·9	Feb. 22	+75·0	11	91	557	285·77	−13·18	Single large spot.
	199	300	Mar. 9	−75·5	Mar. 18	+44·2	9	11	51	284·66	−11·81	Single spot.
21	211	304	July 3	+43·2	July 4	+57·6	2	8	59	308·75	−10·90	Group of small spots.
	217	305	July 21	−71·6	July 31	+53·2	9	13	63	315·01	−10·54	Single spot. *Note.*—217 is intermittent, not being seen on July 29.
												Note.—No photograph is available for July 30, but a number of small spots in a short stream are in the position of the spot on July 31.
22	226	308	Oct. 19	−62·5	Oct. 27	+38·8	7	31	196	216·31	−12·76	One large spot and two or three small ones.
	229	309	Nov. 15	−63·9	Nov. 21	+ 9·8	6	38	152	219·04	−11·07	Two spots of nearly equal size.
												Note.—No photographs are available for Oct. 28–30.
23	231	310	Dec. 18	−69·1	Dec. 29	+75·7	8	68	386	145·28	+10·23	Single spot.
			1877.		1877.							
	233	311	Jan. 15	−50·8	Jan. 25	+73·2	9	31	241	147·03	+11·07	A regular spot, usually with small companions.
												Note.—No photograph is available for Jan. 14.
24	232	311	Jan. 10	−75·7	Jan. 22	+81·5	10	40	220	194·75	+ 9·11	One regular spot, usually with a small companion.
	235	312	Feb. 7	−62·0	Feb. 17	+70·7	5	26	131	195·30	+ 9·08	A well-defined, regular, diminishing spot.
25	238	313	Mar. 17	+11·6	Mar. 22	+81·1	5	33	193	129·43	−11·23	A scattered ill-defined group condensing into two well-defined spots.
	239	314	Apr. 6	−79·9	Apr. 7	−67·0	2	6	49	132·60	−12·75	One small well-defined spot.
26	240	314	Apr. 16	+18·9	Apr. 20	+75·5	4	59	333	103·98	−14·60	A group of three spots, of which the smallest gradually disappears.
	245	315	May 7	−60·2	May 11	− 5·1	5	23	96	103·64	−14·10	A single well-defined spot.
												Note.—No photograph is available for May 6.
27	261	322	Oct. 26	−78·8	Nov. 7	+77·2	9	100	611	334·87	− 8·12	A large well-defined spot, with small companions.
	264	323	Nov. 22	−77·8	Dec. 3	+61·0	11	61	352	335·11	−10·31	A well-defined spot, with close companions.
	264*	324	Dec. 21	−62·0	Dec. 21	−62·0	1	0	37	334·60	−12·70	A small spot.
												Note.—No photographs are available for Dec. 4, 19 or 20.
			1879.		1879.							
28	286	346	Aug. 28	−54·3	Sept. 7	(+76·5)	9	31	155	142·42	+28·50	A regular spot, followed by a short train.
	287	347	Sept. 24	−68·3	Sept. 27	−29·2	4	17	54	128·38	+29·55	A regular spot.
29	291	348	Oct. 16	− 4·8	Oct. 21	+64·8	6	56	284	262·75	−22·67	Two very small spots developing to form a fine stream.
	295	349	Nov. 7	−67·0	Nov. 18	+74·8	12	40	226	267·12	−22·16	A fine stream chiefly of three regular spots.
												Note.—No photographs are available for Oct. 22, or Nov. 4–5.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1880.		1880.							
30	301	351	Jan. 3	−65°·3	Jan. 14	+78°·5	11	54	285	240°·77	+19°·39	A small spot, increasing as it approaches the C.M.
	308	352	Jan. 30	−75·1	Feb. 11	+76·3	12	65	311	232·64	+20·22	A large spot, with small companions.
31	301A	351	Jan. 4	−73·1	Jan. 7	−26·7	4	16	75	228·55	−18·18	A regular spot, followed by some small companions.
	302	351	Jan. 12	+41·3	Jan. 15	+77·4	4	67	317	228·05	−16·58	Two small spots, with a few small faint markings near.
	309	352	Jan. 30	−75·8	Feb. 10	+63·9	11	29	139	233·44	−15·36	A regular spot, undergoing little or no change. [days' quiescence. *Note.*—302 is a revival of 301A, in the same apparition after 4
32	314	353	Mar. 8	− 9·5	Mar. 14	+73·1	7	31	159	166·21	+20·16	A regular spot, with distant followers.
	317	354	Mar. 30	−68·2	Apr. 9	+64·5	9	33	161	173·80	+18·28	A large regular spot. Small companions are seen on Apr. 3–6.
	320	355	Apr. 25	−74·9	May 5	+62·2	11	90	450	186·05	+20·89	A number of spots mostly small, in a long straight stream.
33	321	355	May 2	−74·2	May 14	+83·6	13	83	447	88·99	+25·95	A large spot, with much smaller companions.
	327	356	May 30	−71·0	June 4	− 1·8	6	14	54	84·02	+24·37	A regular spot, with a small companion on May 31 and June 1.
34	342	359	Aug. 2	−64·8	Aug. 13	+84·8	12	120	595	323·47	+11·93	A large regular spot, followed by small stragglers.
	351	360	Aug. 28	−75·4	Sept. 8	+70·2	12	26	116	327·31	+10·18	A regular spot.
35	343	359	Aug. 7	−89·3	Aug. 20	+82·6	12	56	273	234·97	+24·56	A large regular spot.
	354	360	Sept. 4	−80·7	Sept. 13	+40·2	10	29	108	230·38	+25·07	A regular spot, with two small companions after Sept. 10.
36	344	359	Aug. 9	−66·8	Aug. 20	+76·8	10	24	113	226·16	−16·63	A large regular spot.
	355	360	Sept. 5	−65·4	Sept. 15	+74·5	11	140	615	239·04	−17·80	A number of spots in a straight stream, rapidly increasing.
37	346	359	Aug. 9	−75·5	Aug. 20	+59·5	10	27	146	213·94	−19·00	A regular spot, followed by a long straight stream after Aug. 13.
	357	360	Sept. 7	−55·1	Sept. 16	+74·1	10	171	699	220·35	−16·82	A small spot on Sept. 7, which rapidly increases to a large stream.
	374	361	Oct. 3	−64·1	Oct. 14	+82·2	12	6	36	226·69	−15·85	A few small unstable spots. Not seen on Oct. 10.
	(385	362	Oct. 31	−44·3	Nov. 5	+18·9	6	14	61	235·28	−17·00)	A small spot, followed by a scattered stream. *Note.*—385 is probably only a revival of 374, and 357 possibly only a revival of 346. 374 is itself intermittent, not being seen on Oct. 10.
38	347	359	Aug. 16	+46·9	Aug. 18	+79·7	3	20	89	255·47	+20·63	A small regular spot, with companion on Aug. 16.
	353	360	Sept. 2	−77·0	Sept. 6	−26·9	5	5	21	258·88	+18·50	One small spot.
39	348	359	Aug. 18	+ 9·2	Aug. 24	+82·9	7	83	462	187·37	+22·46	A stream of small spots, whose leader becomes large and composite.
	359	360	Sept. 7	−78·2	Sept. 18	+64·6	12	64	234	189·67	+22·11	A large regular spot, frequently with one or two companions.
	375	361	Oct. 6	−65·4	Oct. 12	+17·6	7	11	48	184·60	+22·57	A small regular spot, becoming a straggling stream.
40	349	359	Aug. 21	−63·4	Sept. 2	+85·4	13	21	139	66·81	+22·34	One or two small spots, not visible on Aug. 22, 25, 26 or 27.
	364	360	Sept. 18	−60·8	Sept. 27	+63·7	9	14	79	64·61	+19·34	A number of small unstable spots in a straggling stream.
	381	361	Oct. 14	−81·5	Oct. 25	+64·8	11	18	70	63·35	+21·22	A regular spot. Sometimes with small companions. [after Nov. 15.
	392	362	Nov. 13	−54·6	Nov. 23	+79·3	10	60	268	56·02	+21·94	Two spots, which become one very large irregular spot, breaking up *Note.*—349 is intermittent, not being seen on Aug. 22, 25, 26 or 27. 392 is possibly only a revival of 381.
41	367	361	Sept. 25	−41·0	Oct. 4	+75·5	10	83	442	354·72	−20·12	[cluster, then as a stream. A faint spot, not seen on Sept. 26. Reappearing first as a close
	382A	362	Oct. 19	−81·2	Oct. 29	+54·6	10	53	299	358·54	−21·03	A large composite spot, with companions, forming an irregular stream. *Note.*—367 is intermittent, not being seen on Sept. 26.
42	370	361	Sept. 26	−62·6	Oct. 6	+76·2	11	73	345	323·65	+16·43	A close cluster, becoming a stream with large regular leader.
	382C	362	Oct. 22	−71·7	Oct. 24	−45·1	3	3	25	327·50	+15·97	A small spot.
43	397	363	Nov. 24	−71·4	Dec. 4	+62·9	10	175	920	254·06	+20·68	A very fine stream, including two large composite spots.
					1881.							
	403	364	Dec. 21	−74·6	Jan. 1	+67·4	11	55	278	250·03	+20·62	A large regular spot.
			1881.		1881.							
44	408	365	Jan. 17	+16·5	Jan. 22	+77·5	6	82	413	349·18	+18·62	A stream of spots of normal type.
	419	366	Feb. 6	−75·9	Feb. 17	+68·5	12	65	256	354·00	+15·92	A large regular spot, with a small companion on Feb. 8.
45	410D	365	Jan. 23	−23·5	Jan. 30	+75·8	8	144	528	235·63	−18·56	A small pair on Jan. 23, expanding into a fine stream of normal type.
	424	366	Feb. 14	−81·0	Feb. 27	+82·6	14	60	255	240·12	−20·28	A large regular spot.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1881.	°	1881.	°				°	°	
46	412	365	Jan. 29	−11·1	Feb. 4	+71·3	6	117	418	165·77	−13·04	Two clusters, each very compact and composed of irregular spots.
	426	366	Feb. 20	−70·1	Feb. 27	+19·5	8	19	69	174·76	−14·89	A regular spot, with a small companion on Feb. 23.
47	416	365	Feb. 5	+32·2	Feb. 8	+74·2	4	70	184	114·65	+21·58	A small faint spot on Feb. 5, rapidly increasing in size after Feb. 6.
	427	366	Feb. 24	−74·1	Mar. 1	−11·0	6	22	61	116·72	+22·28	A regular spot, with several small faint attendants.
48	418	365	Feb. 9	+ 5·2	Feb. 12	+49·4	4	12	30	35·53	+20·83	A few very small faint spots. Only the leader remains on Feb. 11.
	428	366	Mar. 3	−62·4	Mar. 10	+28·3	8	16	44	37·28	+20·38	A regular spot.
												Note.—Possibly only a revival, as 418 is not seen close to the W. limb.
49	424A	366	Feb. 16	+39·8	Feb. 19	+76·9	4	40	97	335·98	−20·63	A few unstable spots in a short irregular stream.
	429	367	Mar. 7	−74·6	Mar. 8	−60·8	2	0	8	330·80	−17·95	A small faint spot.
	435	367	Mar. 12	−11·2	Mar. 18	+74·4	7	50	241	331·13	−18·36	A large regular spot, with distant followers.
												Note.—435 is a revival of 429 in the same apparition after a quiescence [of 3 days.
50	433	367	Mar. 9	−44·3	Mar. 17	+70·5	9	79	354	340·06	+21·51	A straight stream of normal type greatly inclined to equator.
	451	368	Apr. 3	−73·5	Apr. 13	+55·3	11	15	63	335·62	+22·16	A regular spot.
51	436	367	Mar. 12	−75·0	Mar. 23	+74·0	12	86	432	267·39	−16·30	A compact cluster, of which the leader increases and the followers [diminish.
	453	368	Apr. 7	−86·3	Apr. 19	+69·3	13	35	198	271·09	−14·61	A large regular spot.
	471	369	May 5	−75·2	May 10	−13·4	6	17	57	269·65	−15·00	A regular spot, with two companions on May 9.
52	439	367	Mar. 19	−21·1	Mar. 27	+76·1	9	123	560	223·72	+14·01	Two spots, becoming a large double spot, which breaks up.
	456	368	Apr. 12	−72·9	Apr. 16	−21·1	5	12	49	219·44	+13·70	A cluster of small spots.
53	446	367	Apr. 1	+53·8	Apr. 1	+53·8	1	0	11	130·00	−25·00	A small faint spot.
	463	368	Apr. 18	−79·2	Apr. 19	−69·8	2	5	27	131·35	−26·40	A small spot.
54	461	368	Apr. 18	−63·7	Apr. 29	+78·7	11	65	307	150·33	+ 7·38	A large regular spot, becoming a stream of normal type.
	474	369	May 13	−75·3	May 16	−35·5	4	6	21	167·15	+ 6·25	A small spot.
												Note.—Possibly 474 is a new disturbance, but more probably it [represents the leader spot of 461.
55	477	369	May 19	+12·8	May 24	+73·4	6	20	74	174·65	−30·55	A scattered group of small spots undergoing continual change.
	490	370	June 10	−57·7	June 15	+ 7·6	5	8	64	173·15	−29·05	A straggling stream of small spots.
56	481	369	May 22	−37·1	May 30	+76·0	9	46	226	90·04	−27·62	Two regular spots, with companion.
	496	370	June 15	−83·2	June 25	+47·2	10	16	89	83·75	−26·79	A small regular spot.
57	485	370	May 27	−76·7	June 6	+60·0	11	135	635	341·00	− 9·74	A very fine stream, whose rear spot is very large.
	500	371	June 23	−69·7	June 25	−40·7	3	3	38	351·73	− 9·67	Two small spots; the following disappears by June 25.
												Note.—No photograph is available for June 7.
58	487	370	May 31	−74·3	June 11	+66·2	11	31	133	288·00	+22·29	Two spots, which become two compact clusters.
	506	371	June 28	−68·5	July 7	+43·9	10	19	101	282·11	+23·77	A regular spot, with two or three short-lived companions.
59	495	370	June 14	−40·2	June 23	+81·7	9	17	59	140·81	−19·06	One or two small spots, not seen on June 22.
	516	371	July 9	−64·2	July 19	+68·9	10	62	333	142·24	−19·55	Two large spots, which soon coalesce.
												Note.—495 is intermittent, not being seen on June 22.
(59*)	514	371	July 7	− 0·1	July 11	+60·5	3	11	35	237·84	+15·30	Three or four small spots; only one remains on July 11.
	533	372	July 28	−69·6	July 30	−42·4	3	5	21	245·37	+18·17	A small spot, followed on July 29 by another similar spot.
60	515	371	July 4	−73·8	July 15	+78·4	10	42	225	203·27	+14·82	A large regular spot, with large proper motion, followed by a large
	537	372	Aug. 1	−64·9	Aug. 2	−50·9	2	0	21	197·35	+15·35	A small spot. [composite spot.
61	526	372	July 23	−76·2	Aug. 4	+81·7	12	97	446	306·83	+27·12	A large regular spot, crossed by a fine bridge.
	549	373	Aug. 20	−74·5	Sept. 1	+77·6	11	42	209	293·38	+28·43	A large regular spot, frequently attended by small spots.
62	528	372	July 24	−64·0	Aug. 2	+51·7	9	52	228	300·59	−15·40	A cluster of small spots.
	548	373	Aug. 20	−64·6	Aug. 20	−64·6	1	0	11	305·20	−14·00	A small spot.
63	538	372	Aug. 1	−81·9	Aug. 13	+74·0	12	48	272	180·32	+12·93	A large regular spot.
	560	373	Aug. 30	−61·0	Sept. 1	−36·4	2	7	37	176·77	+13·47	A small spot.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1881.	°	1881.	°				°	°	
64	552	373	Aug. 23	−65·7	Sept. 3	+75·4	10	49	329	266·29	+14·83	A large composite spot, with small companions.
	574	374	Sept. 19	−73·7	Sept. 28	+46·9	10	11	37	263·47	+14·59	A regular spot.
65	553	373	Aug. 23	−69·7	Sept. 3	+71·9	10	76	346	263·30	+20·43	A large regular spot. A considerable spot forms behind it on Aug. 26.
	575	374	Sept. 19	−80·0	Oct. 1	+78·5	13	45	235	257·30	+20·76	A large regular spot.
	591	375	Oct. 16	−78·6	Oct. 26	+55·7	11	22	112	262·15	+21·02	A large regular spot, frequently with some small companions.
66	561	373	Aug. 29	−76·7	Sept. 9	+70·3	10	92	467	179·08	−25·22	A large composite spot, followed by small spots.
	577	374	Sept. 26	−67·7	Oct. 1	− 4·9	6	4	14	173·08	−25·10	A small regular spot.
67	566	373	Sept. 6	−46·9	Sept. 15	+76·9	10	99	519	100·72	+13·57	A small regular spot, developing into a fine stream, with large leader.
	582	374	Oct. 1	−75·1	Oct. 5	−22·9	5	7	18	102·48	+12·02	A single spot.
68	572	374	Sept. 12	−80·4	Sept. 24	+76·4	13	64	361	346·62	+22·86	Two large regular spots, which coalesce.
	588	375	Oct. 10	−77·8	Oct. 14	−27·1	5	5	71	340·00	+24·54	A group, steadily diminishing in size.
69	581	374	Oct. 1	−49·0	Oct. 10	+69·8	10	26	183	128·72	−20·16	A cluster of small spots, increasing rapidly.
	595	375	Oct. 26	−73·8	Oct. 29	−33·7	4	7	33	133·35	−19·25	A small spot.
70	583	374	Oct. 2	+58·7	Oct. 4	+79·6	3	22	84	218·47	+19·93	A cluster of small spots.
	593	375	Oct. 20	−70·9	Oct. 26	+ 2·5	7	5	38	212·01	+20·83	A few small unstable spots in a scattered stream.
71	586	374	Oct. 6	−74·4	Oct. 17	+74·7	12	55	305	38·78	+13·99	A large regular spot, usually with a few companions.
	598	375	Nov. 2	−76·1	Nov. 13	+74·3	12	21	101	41·45	+14·28	A regular spot.
72	589	375	Oct. 14	−75·8	Oct. 26	+82·3	13	63	357	289·13	+15·97	A large spot.
	603	376	Nov. 11	−71·1	Nov. 22	+73·7	12	94	432	288·81	+15·98	A large regular spot, with unstable and variable companions.
	625	377	Dec. 9	−66·1	Dec. 16	+25·5	8	8	37	282·00	+16·53	A single spot.
73	594	375	Oct. 22	−10·8	Oct. 29	+82·7	8	31	199	248·96	+20·63	A large spot, preceded by a few spots in a short stream.
	605	376	Nov. 13	−76·4	Nov. 18	−12·3	6	8	46	251·20	+23·15	A regular spot, with a few very small attendants.
74	606	376	Nov. 15	−80·3	Nov. 26	+76·4	12	45	256	233·25	+17·38	Small spots, becoming a straight stream with large leader.
	628	377	Dec. 12	−72·8	Dec. 22	+61·1	11	22	91	238·34	+16·36	A regular spot.
75	607	376	Nov. 15	−76·3	Nov. 27	+75·8	13	152	764	221·32	+10·88	Spots, becoming a straight stream of normal type.
	629	377	Dec. 13	−75·5	Dec. 19	+ 9·4	7	14	99	221·86	+11·61	A number of unstable spots, undergoing frequent and great changes.
76	618	376	Dec. 2	+50·0	Dec. 4	+74·7	3	58	375	130·13	−19·33	Two spots.
	630	377	Dec. 20	−67·5	Dec. 22	−45·6	3	3	29	132·53	−20·00	Two small spots.
77	627	377	Dec. 11	−74·5	Dec. 23	+78·4	13	78	418	246·57	+27·53	A large regular spot, followed by a stream of small spots.
			1882.		1882.							
	645	378	Jan. 8	−77·6	Jan. 9	−61·8	2	10	49	236·90	+28·20	One or two small spots.
			1881.		1882.							
78	638	377	Dec. 31	−39·7	Jan. 8	+67·2	9	31	155	20·69	+15·54	An irregular cluster of many very small spots, fluctuating in size.
			1882.									
	657	378	Jan. 25	−67·4	Jan. 29	−12·9	5	4	17	24·66	+17·22	A small spot.
			1882.		1882.							
79	642	377	Jan. 5	+14·5	Jan. 9	+74·9	5	37	188	11·24	+16·88	A straight stream, whose leader rapidly increases, and the followers [disappear.
	658	378	Jan. 25	−72·0	Feb. 5	+72·6	10	38	272	18·67	+16·10	A regular spot. Small companions on Jan. 27.
80	648	378	Jan. 13	− 8·6	Jan. 20	+80·6	8	26	164	237·88	+14·51	A variable double spot, of which one portion increases greatly.
	667	379	Feb. 4	−78·1	Feb. 10	+ 5·8	6	1	20	241·77	+14·18	One spot, which slowly diminishes.
81	653	378	Jan. 19	−71·4	Jan. 29	+59·4	11	27	155	97·75	−17·40	Small regular spot.
	677	379	Feb. 15	−66·3	Feb. 25	+59·3	10	18	83	102·30	−17·82	An irregular spot, with several small spots near it. *Note.*—No photographs are available for Jan. 30 and 31.
82	664	379	Feb. 2	−63·1	Feb. 12	+86·2	10	40	337	286·05	−13·65	Very small spot on E. limb. Afterwards a large spot with train.
	687	380	Feb. 27	−80·7	Mar. 11	+74·6	13	62	327	294·47	−12·86	Regular spot, with occasional variable companions.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1882.		1882.							
83	670	379	Feb. 10	−66°·8	Feb. 20	+68°·2	11	69	338	171°·97	+10°·74	Fine group of 3 clusters in a line. Middle cluster disappears by [Feb. 15.
	695	380	Mar. 8	−78·6	Mar. 17	+53·6	10	19	82	185·10	+ 9·39	A very small spot, which increases. Small followers.
84	672	379	Feb. 12	−76·4	Feb. 24	+81·7	12	43	234	136·72	−18·79	A small regular spot, with small followers which disappear after C.M.
	699	380	Mar. 11	−82·2	Mar. 22	+63·2	12	24	151	134·77	−18·33	A small regular spot, becoming a large irregular cluster.
85	676	379	Feb. 14	+28·0	Feb. 18	+79·6	5	43	187	213·50	+ 1·92	Two small spots, developing into an irregular stream.
	691	380	Mar. 5	−77·1	Mar. 16	+73·6	12	62	271	221·78	− 0·48	A regular spot.
	718	381	Apr. 1	−74·7	Apr. 13	+81·3	13	27	147	224·81	+ 1·17	A regular spot.
86	693	380	Mar. 8	+10·2	Mar. 12	+65·3	5	22	114	268·32	+23·34	A straight stream of small spots. The leading spot increases.
	713	381	Mar. 29	−72·8	Apr. 5	+22·5	8	14	65	267·14	+25·38	A small regular spot.
87	697	380	Mar. 10	+11·9	Mar. 15	+81·4	6	52	267	244·97	−15·85	Two straight streams, becoming a stream of normal type.
	715	381	Mar. 30	−73·6	Apr. 4	− 5·7	6	5	22	252·25	−14·33	A small regular spot.
88	702	380	Mar. 15	−84·1	Mar. 28	+80·6	14	87	434	74·90	−22·13	A large regular spot, with close small followers. One of these [becomes large.
	732	381	Apr. 14	−53·7	Apr. 18	− 0·5	5	5	31	72·40	−21·70	A small spot.
89	704	380	Mar. 20	+57·7	Mar. 21	+70·5	2	48	188	154·00	+21·20	Two spots, with two or three small markings near them.
	722	381	Apr. 6	−68·3	Apr. 17	+75·2	12	32	178	160·78	+20·78	A regular spot.
	749	382	May 3	−78·1	May 14	+64·7	12	37	181	155·95	+20·91	A regular spot, with small companions.
90	705	380	Mar. 21	−81·6	Apr. 2	+80·4	13	74	377	3·15	−10·25	A large regular spot, with some small companions.
	735	381	Apr. 17	−80·7	Apr. 28	+67·1	12	31	176	6·58	−10·73	A regular spot.
	762	382	May 14	−72·6	May 26	+84·1	13	133	826	16·15	−15·29	Two large regular spots, with small companions.
	779	383	June 11	−63·6	June 13	−37·8	3	18	55	16·90	−12·77	Two or three small spots.
91	728	381	Apr. 11	−23·2	Apr. 19	+75·7	9	73	508	143·17	−18·10	A V-shaped group, which becomes a stream of normal type.
	750	382	May 4	−75·4	May 5	−58·3	2	0	24	149·00	−19·35	A small spot.
92	729	381	Apr. 13	−75·8	Apr. 25	+77·4	13	270	1744	64·75	−28·45	A very large variable spot. Small followers.
	759	382	May 10	−81·8	May 24	+82·5	15	230	1061	51·97	−29·15	Two very large irregular spots. The preceding spot breaks up after passing the C.M.
93	730	381	Apr. 14	+52·6	Apr. 14	+52·6	1	0	17	178·90	+20·80	A small spot.
	744	382	May 1	−85·2	May 13	+72·8	13	127	545	176·69	+23·08	A large regular spot.
	767	383	May 29	−82·0	June 9	+61·5	12	48	219	168·39	+21·19	A regular spot.
94	734	381	Apr. 16	−77·9	Apr. 27	+66·1	12	29	181	22·85	+11·26	A regular spot, with a small companion.
	760	382	May 12	−79·8	May 22	+55·5	11	57	299	37·40	+10·59	A straight stream.
95	754	382	May 7	−73·6	May 17	+63·9	11	34	188	109·61	+13·68	A regular spot, followed by a close cluster of small spots.
	772	383	June 3	−68·9	June 3	−68·9	1	0	10	116·90	+14·90	Two small spots.
96	762	382	May 14	−72·6	May 26	+84·1	13	133	826	16·15	−15·29	Two large regular spots, with small spots near them.
	779	383	June 11	−63·6	June 13	−37·8	3	18	55	16·90	−12·77	Two or three small spots.
97	765	383	May 25	−79·1	June 6	+79·9	13	40	188	230·19	+14·29	A regular spot, with a small companion.
	782	384	June 23	−51·6	June 24	−38·2	2	0	10	229·75	+14·30	A small spot. *Note.*—782 is possibly merely a revival of 765, as it is not seen close to the E. limb. More probably it is a real return.
98	781	384	June 20	−28·1	June 26	+51·2	7	15	86	292·61	+15·30	A small regular spot, with smaller followers.
	797	385	July 14	−72·8	July 25	+73·9	12	89	473	292·54	+14·43	A large regular spot, with small followers which disappear before [July 22.
	812	386	Aug. 9	−79·3	Aug. 20	+64·1	10	28	140	296·73	+15·28	A regular spot. *Note.*—Possibly 797 is merely a revival of 781. There are no photographs for June 18 and 19.
99	785	384	June 25	−61·0	July 5	+79·0	10	31	151	196·78	+10·27	A small spot, becoming a long stream of which the leader is the
	806	385	July 21	−74·8	July 27	+ 3·5	7	5	44	197·01	+10·47	A small spot, with two or three faint small companions. [largest.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1882.	°	1882.	°				°	°	
100	808	385	July 27	−73·0	Aug. 6	+69·9	8	49	350	123·12	−11·74	A close faint cluster, becoming a large V-shaped group.
	821	386	Aug. 22	−81·0	Sept. 2	+66·8	11	20	103	128·55	−11·19	A regular spot.
101	811	385	Aug. 9	− 6·4	Aug. 16	+79·9	7	62	310	9·11	+19·89	Two spots, which rapidly increase in size on Aug. 10 and 11.
	827	386	Aug. 31	−84·8	Sept. 11	+58·1	11	38	197	2·53	+20·53	A regular spot, with smaller companions.
102	816	386	Aug. 18	−78·1	Aug. 29	+75·1	10	125	609	189·98	+13·18	Two regular spots, with small spots between them.
	838	387	Sept. 13	−79·1	Sept. 25	+82·4	11	86	539	198·65	+11·38	A large regular spot with a straight train.
	856	388	Oct. 10	−80·2	Oct. 22	+84·5	13	32	186	203·28	+12·46	A regular spot.
103	830	386	Sept. 2	+ 2·8	Sept. 8	+81·0	7	150	577	65·91	+21·00	Two small spots, becoming large regular spots with small companions.
	845	387	Sept. 23	−79·7	Oct. 2	+42·1	10	6	33	67·32	+21·27	A small spot.
104	833	387	Sept. 2	−71·4	Sept. 12	+68·5	10	49	218	353·29	+ 7·55	A number of spots arranged in a straight line.
	850	388	Sept. 30	−68·9	Oct. 7	+32·6	8	7	24	348·88	+ 6·58	A small spot.
105	837	387	Sept. 12	+35·4	Sept. 16	+87·4	4	21	128	324·50	+22·18	A small spot, which becomes a straight stream.
	851	388	Oct. 3	−50·2	Oct. 6	−14·4	4	1	11	322·70	+21·98	A very small faint spot.
												Note.—851 is possibly only a revival of 837.
106	846	387	Sept. 25	−65·6	Oct. 6	+72·0	12	225	984	50·18	−21·65	A very fine large regular spot.
	868	388	Oct. 22	−75·8	Nov. 3	+77·7	13	210	1030	43·15	−22·38	A very fine large regular spot.
	890	389	Nov. 19	−72·0	Dec. 1	+74·6	13	55	283	36·12	−22·85	Two regular spots. The preceding breaks up, and only the final is [seen by Dec. 1.
107	855	388	Oct. 10	+34·6	Oct. 12	+61·6	3	1	12	319·30	+16·60	One or two small faint spots.
	870	389	Oct. 27	−83·6	Nov. 8	+77·4	13	82	433	332·57	+16·00	A large regular spot, followed by two small clusters which disappear.
	895	390	Nov. 24	−74·9	Dec. 2	+26·3	9	5	24	330·78	+15·69	A small regular spot.
												Note.—870 is possibly a fresh outbreak.
108	860	388	Oct. 18	+35·9	Oct. 19	+51·4	2	0	10	213·35	−21·70	A very small spot.
	877	389	Nov. 6	−69·2	Nov. 17	+75·6	12	47	259	217·13	−23·43	A regular spot, with small followers which disappear by Nov. 14.
												Note.—877 is possibly only a revival of 860.
109	861	388	Oct. 18	+24·4	Oct. 22	+86·3	5	27	190	202·64	+15·06	An irregular spot, with small companions close to it.
	878	389	Nov. 6	−75·9	Nov. 14	+26·3	9	9	28	208·27	+14·66	Several small spots.
110	864	388	Oct. 20	−26·0	Oct. 28	+78·9	9	128	689	123·78	+19·71	A rectangular group, increasing to two large spots.
	885	389	Nov. 12	−86·0	Nov. 25	+83·7	14	348	1711	120·84	+19·22	A very fine large spot.
	908	390	Dec. 10	−80·6	Dec. 20	+53·3	11	34	285	120·26	+17·65	A large spot, becoming a long straight stream.
111	872	388	Oct. 30	−15·1	Nov. 6	+75·6	8	19	109	4·75	−19·69	A straight stream of small spots.
	891	389	Nov. 22	−69·6	Nov. 30	+32·1	9	9	44	4·11	−20·72	Three or four small spots.
112	875	389	Nov. 4	+33·3	Nov. 7	+70·7	4	33	191	344·85	− 9·88	Several small spots.
	894	390	Nov. 23	−71·6	Dec. 3	+61·1	11	54	338	349·64	− 8·34	A fine variable and irregular group.
113	887	389	Nov. 15	+ 5·2	Nov. 20	+77·2	6	15	79	175·57	+19·08	Several small faint spots. The preceding increases, the following
	904	390	Dec. 6	−72·3	Dec. 10	−18·8	5	6	28	180·82	+18·32	A small regular spot. [disappears.
114	903	390	Dec. 5	− 9·6	Dec. 11	+80·3	7	14	150	262·24	−14·50	Several small spots undergoing change.
					1883.							
	920	391	Dec. 26	−78·0	Jan. 7	+79·2	13	52	269	269·92	−14·25	A regular spot.
			1883.									
	942	392	Jan. 23	−68·2	Jan. 23	−68·2	1	0	11	268·60	−14·10	A small faint spot.
			1882.		1882.							
115	911	390	Dec. 13	+52·7	Dec. 14	+64·8	2	0	19	209·75	−23·95	A small spot.
					1883.							
	929	391	Dec. 31	−77·8	Jan. 7	+13·2	8	12	69	204·49	−20·95	A small regular spot, which breaks up.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
116	912	390	1882. Dec. 15	+47°·8	1882. Dec. 17	+75°·2	3	0	16	180°·43	+ 2°·27	Two very small faint spots.
	930	391	1883. Jan. 1	−78·0	1883. Jan. 11	+58·2	11	57	381	194·42	+ 4·95	A large irregular group, breaking up after passing the C.M.
117	925	391	1882. Dec. 30	−11·2	1883. Jan. 6	+85·1	8	47	249	283·64	−28·36	Two regular spots, with sometimes small companions.
	941	392	1883. Jan. 22	−74·0	Feb. 3	+79·9	11	25	114	274·62	−27·21	A regular spot. Small companions close to it on Jan. 26.
118	927	391	1882. Dec. 30	−80·5	1883. Jan. 11	+74·9	13	31	167	213·94	−17·93	A regular spot.
	946	392	1883. Jan. 27	−74·9	Feb. 3	+18·3	8	12	55	211·04	−19·45	A small regular spot.
119	933	391	1883. Jan. 10	−73·7	Jan. 21	+70·2	11	89	659	76·07	− 9·06	A large regular spot, with small followers.
	960	392	Feb. 6	−73·0	Feb. 12	+ 3·8	7	2	25	79·40	− 8·19	One or two small spots.
120	943	392	Jan. 26	+49·2	Jan. 27	+60·8	2	10	95	347·10	−13·20	Three small spots, which increase.
	967	393	Feb. 14	−64·3	Feb. 21	+37·9	8	7	29	352·90	−15·65	A few small spots. *Note.*—No photographs are available for Jan. 24 and 25.
121	962	392	Feb. 7	+39·7	Feb. 9	+78·8	3	4	47	186·33	+ 3·17	One or two small spots.
	972	393	Feb. 26	−59·9	Mar. 1	−24·1	4	2	21	188·93	+ 4·90	One or two small faint spots.
122	982	394	Mar. 19	−46·2	Mar. 26	+58·2	8	19	149	291·60	−18·29	A scattered group, becoming a stream of normal type.
	1000	395	Apr. 12	−72·1	Apr. 23	+76·0	11	62	455	303·68	−16·01	A fine irregular spot, with close companions.
	1026	396	May 9	−79·6	May 14	−13·4	6	1	11	303·15	−15·47	A small spot.
123	984	394	Mar. 22	−41·5	Mar. 31	+82·6	10	42	251	251·19	−24·10	Small spots expanding to long stream, whose leader is left alone.
	1002	395	Apr. 16	−67·8	Apr. 17	−59·3	2	12	28	254·15	−24·60	A small spot. *Note.*—No photograph is available for April 15.
124	986	394	Mar. 28	+58·3	Mar. 30	+79·3	3	0	41	272·47	−19·23	A small faint spot.
	1001	395	Apr. 13	−83·4	Apr. 24	+70·8	11	28	288	282·28	−16·06	Compact cluster, followed by straight stream.
125	987	394	Mar. 28	−80·1	Apr. 9	+80·4	13	91	536	135·32	+13·35	A very large regular spot, with small companions.
	1011	395	Apr. 24	−72·6	May 1	+11·6	8	8	41	140·23	+12·95	A small spot. Small companions from April 29 to May 1.
126	992	394	Apr. 1	−71·1	Apr. 12	+79·4	12	39	291	90·46	−16·98	Small spot, rapidly increasing. Occasional followers.
	1014	395	Apr. 28	−68·5	Apr. 29	−57·6	2	7	30	98·20	−16·45	A small spot. A companion on April 29.
127	999	395	Apr. 12	−70·4	Apr. 23	+76·5	11	70	516	305·33	−22·36	Two large spots; the following one breaks up.
	1027	396	May 9	−80·0	May 21	+79·3	13	57	291	301·02	−22·29	A large regular spot. A small companion on May 11.
	1046	397	June 6	−74·2	June 17	+70·4	12	39	453	294·43	−23·24	A large irregular variable spot.
	1066	398	July 3	−83·6	July 13	+50·0	10	68	490	290·45	−22·55	Two or three spots, which coalesce to form one long irregular spot.
128	1024	395	May 7	+62·7	May 7	+62·7	1	0	25	111·90	+13·40	Two small faint spots.
	1037	396	May 24	−62·3	May 25	−52·0	2	0	33	116·35	+13·05	A small spot on May 24. Two small spots on May 25.
129	1030	396	May 14	− 0·6	May 20	+81·1	7	17	98	319·90	−14·77	One or two small spots, which become one regular spot.
	1043	397	June 3	−80·6	June 11	+20·7	9	9	40	327·12	−16·38	A small regular spot.
130	1040	396	June 1	− 4·7	June 7	+71·8	7	109	704	70·37	− 7·73	A large spot, followed by irregular group of small spots.
	1058	397	June 22	−75·2	July 4	+74·4	13	85	611	74·80	− 9·72	A very fine large composite spot, with small spots preceding it.
	1080	398	July 19	−81·5	July 31	+74·0	10	195	1363	73·89	− 9·51	A very large composite spot, with small spots preceding it.
	1100	399	Aug. 17	−65·7	Aug. 19	−36·1	3	4	24	73·97	−10·77	Two small spots.
131	1052	397	June 17	−10·7	June 24	+80·1	8	66	436	213·28	−24·40	Two small spots, becoming two streams.
	1067	398	July 9	−75·5	July 21	+77·1	10	65	493	211·59	−26·03	A very large spot, with occasional small companions.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1883.		1883.							
132	1054	397	June 17	−76°·2	June 28	+64°·9	12	32	239	144°·12	−15°·83	A fine regular spot, with many small followers.
	1074	398	July 15	−77·2	July 27	+81·2	9	92	702	133·32	−15·22	A large regular spot, followed by a large circular cluster.
												Note.—1074 is possibly a fresh outbreak and not a return of 1054.
133	1056	397	June 20	−12·2	June 27	+82·2	8	97	648	170·19	−10·21	An irregular group, which becomes three regular spots.
	1071	398	July 12	−78·1	July 21	+44·7	7	64	367	176·50	−10·95	A regular spot, with small companions.
	1094	399	Aug. 8	−78·6	Aug. 20	+81·2	13	32	226	177·96	−10·25	A regular spot, with companions.
												Note.—No photographs are available for July 22 and 23.
134	1062	397	June 25	−79·1	July 7	+80·3	13	220	1366	36·18	+10·48	Two or three very large spots, which coalesce and break up again.
	1086	398	July 24	−51·7	Aug. 2	+66·3	9	21	114	42·17	+ 9·18	A regular spot. Two very faint companions on July 27.
												Note.—No photographs are available for July 22 and 23.
135	1097	399	Aug. 14	+77·5	Aug. 14	+77·5	1	0	362	253·40	−16·50	Two spots.
	1109	400	Aug. 30	−67·8	Sept. 10	+74·0	10	70	457	253·96	−18·95	A fine regular spot, with small companions.
	1126	401	Sept. 26	−75·3	Oct. 8	+75·2	13	19	124	249·48	−18·68	A regular spot.
136	1105	399	Aug. 25	−16·8	Sept. 1	+83·7	7	30	209	18·40	+20·58	Two small spots, which become a regular spot followed by a train.
	1123	400	Sept. 16	−74·6	Sept. 18	−46·3	3	1	29	25·10	+18·33	A small spot.
137	1106	400	Aug. 27	−54·8	Sept. 5	+75·9	8	22	141	315·56	− 8·98	Three small spots, which increase.
	1124	401	Sept. 22	−64·4	Sept. 22	−64·4	1	0	5	317·40	− 7·40	A small spot.
138	1110	400	Sept. 1	−79·3	Sept. 12	+69·1	9	46	274	218·97	+10·97	A large regular spot, with small variable distant followers.
	1129	401	Sept. 29	−63·7	Sept. 30	−53·5	2	1	15	225·00	+13·05	A small spot.
139	1114	400	Sept. 8	−70·1	Sept. 20	+81·2	12	181	920	132·60	−21·83	A very large regular spot.
	1133	401	Oct. 5	−77·5	Oct. 17	+76·7	13	80	403	128·78	−22·41	A regular spot, with companions on Oct. 11 and 12.
	1169	402	Nov. 2	−82·3	Nov. 13	+63·1	11	35	202	118·59	−23·30	A large regular spot.
	1194	403	Dec. 2	−58·0	Dec. 2	−58·0	1	5	11	108·80	−24·20	A small spot.
												Note.—No photographs are available for Dec. 1 and 3.
140	1138	401	Oct. 8	−51·7	Oct. 17	+75·4	10	149	805	124·30	+11·77	Two small spots, increasing to form an irregular stream.
	1166	402	Nov. 1	−83·2	Nov. 10	+42·4	10	30	241	132·37	+10·67	Three spots, with companions covering a wide district.
												Note.—No photograph is available for Nov. 11.
141	1142	401	Oct. 11	− 4·1	Oct. 17	+77·1	7	49	248	129·77	− 9·44	A group of small spots, becoming two clusters, and later two [regular spots.
	1165	402	Nov. 1	−81·6	Nov. 9	+25·7	9	3	19	132·97	−10·58	A small spot, with occasional companions.
142	1144	401	Oct. 12	−83·5	Oct. 24	+75·8	13	192	1121	35·28	− 9·78	A very large fine spot, which throws off a regular spot.
	1173	402	Nov. 9	−68·6	Nov. 21	+81·6	12	159	914	35·31	− 8·83	A large regular variable spot, followed by a chain of spots.
	1198	403	Dec. 6	−76·3	Dec. 18	+78·7	13	32	197	34·49	− 9·72	A regular spot, with small companions.
			1884.		1884.							
	1233	404	Jan. 3	−74·9	Jan. 10	+19·4	8	3	17	31·15	−10·68	A small regular spot.
			1883.		1883.							
143	1145	401	Oct. 13	+63·5	Oct. 14	+79·1	2	2	46	169·95	+ 4·55	A small spot, with two companions on Oct. 14.
	1161	402	Oct. 28	−80·0	Nov. 8	+64·4	12	38	263	184·76	+ 3·15	Three regular spots, with occasional companions.
144	1149	402	Oct. 20	−49·8	Oct. 30	+80·8	11	41	346	323·66	−11·54	A number of variable small spots.
	1177	403	Nov. 13	−81·8	Nov. 25	+72·2	13	63	378	332·38	−13·72	A regular spot, with occasional companions.
	1206	404	Dec. 11	−72·4	Dec. 19	+31·1	9	5	31	331·58	−16·96	A small faint spot, with occasional companions.
145	1156	402	Oct. 25	−81·7	Nov. 5	+69·9	12	55	402	224·37	− 9·82	A large regular spot, becoming two clusters.
	1187	403	Nov. 22	−69·6	Dec. 2	+61·4	10	28	199	226·16	−10·93	A regular spot.
	1212	404	Dec. 19	−75·8	Dec. 29	+60·3	11	33	526	227·92	− 8·81	A large irregular spot, which breaks up.
												Note.—No photograph is available for Dec. 3.
146	1163	402	Oct. 30	−37·0	Nov. 8	+84·4	10	22	198	206·72	−11·26	An irregular scattered variable group.
	1188	403	Nov. 22	−79·3	Dec. 4	+80·0	11	32	231	216·51	−10·54	A regular spot, with occasional companions.
	1213	404	Dec. 19	−82·8	Dec. 28	+34·5	10	26	209	218·89	−12·96	A regular spot, which breaks up.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1883.	°	1883.	°				°	°	
147	1172	402	Nov. 9	−57·2	Nov. 20	+81·1	11	80	454	47·63	−14·89	Two regular spots, with occasional companions. [with train.
	1197	403	Dec. 6	−64·6	Dec. 17	+81·7	12	27	226	46·58	−13·18	Two small spots, becoming first two clusters and then a regular spot
			1884.		1884.							
	1231	404	Jan. 2	−75·8	Jan. 13	+76·3	12	9	45	47·09	−13·03	A group of small spots in constant change.
			1883.		1883.							
148	1180	403	Nov. 16	−20·0	Nov. 23	+81·2	8	34	363	361·33	−12·03	A number of small spots, irregularly arranged.
	1200	404	Dec. 8	−81·6	Dec. 20	+73·9	13	12	98	364·82	−10·18	A regular spot, which disappears by Dec. 18. Variable companions.
			1884.		1884.							
	1237	405	Jan. 5	−82·6	Jan. 17	+76·8	12	51	443	355·65	−10·88	A large regular spot, with occasional small companions.
			1883.		1883.							
149	1181	403	Nov. 16	−49·8	Nov. 25	+74·0	10	66	624	331·34	+17·76	Two or three small spots, becoming a compact cluster.
	1205	404	Dec. 11	−71·2	Dec. 23	+78·3	13	18	118	331·38	+21·05	A regular spot, with occasional companions.
150	1191	403	Nov. 27	−23·3	Dec. 4	+72·9	6	39	233	208·94	+ 9·40	A faint irregular group, becoming a regular spot with train.
	1215	404	Dec. 20	−76·8	Dec. 29	+40·3	10	32	182	211·08	+ 8·24	A regular spot, with occasional companions.
151	1202	403	Dec. 9	−78·3	Dec. 20	+75·7	12	40	216	0·52	+12·54	A regular spot, with occasional companions.
			1884.		1884.							
	1235	404	Jan. 4	−81·9	Jan. 15	+67·1	12	106	1003	12·72	+14·95	A large regular spot, followed by a long train.
	1268	405	Jan. 31	−70·9	Feb. 11	+74·7	11	52	398	23·48	+13·54	A large irregular variable spot, with small companions.
			1883.		1883.							
152	1204	404	Dec. 10	−75·1	Dec. 21	+70·0	12	9	58	346·10	+13·37	An irregular group in constant change. Not seen on Dec. 15.
			1884.		1884.							
	1243	405	Jan. 7	−70·9	Jan. 15	+40·7	9	9	46	345·99	+12·52	A small regular spot, with companions until Jan. 11. *Note.*—1204 is intermittent, not being seen on Dec. 15.
			1883.		1884.							
153	1216	404	Dec. 20	−82·7	Jan. 2	+76·3	11	114	778	202·04	− 9·23	A large regular spot, with a long variable train.
			1884.									
	1255	405	Jan. 17	−72·8	Jan. 29	+86·1	12	73	357	208·19	− 8·54	A large regular spot.
	1284	406	Feb. 13	−74·4	Feb. 25	+85·1	11	60	321	207·83	− 9·67	A large regular spot, with unstable companions.
	1320	407	Mar. 11	−82·0	Mar. 23	+81·1	12	20	129	208·24	− 9·67	A regular spot.
	1357	408	Apr. 8	−71·5	Apr. 10	−41·2	3	3	19	207·97	− 9·33	A small regular spot.
			1883.		1884.							
154	1217	404	Dec. 21	−74·8	Jan. 2	+82·7	10	34	192	200·06	+ 1·92	A regular spot, with occasional companions.
			1884.									
	1256	405	Jan. 17	−77·6	Jan. 29	+83·7	12	13	84	203·49	+ 1·28	A regular spot.
			1884.		1884.							
155	1229	404	Jan. 2	−19·2	Jan. 9	+75·8	8	6	59	100·65	+11·26	A variable group of small spots.
	1261	405	Jan. 24	−77·5	Feb. 2	+38·7	9	12	102	107·63	+ 9·76	A regular spot, with small companions on Jan. 27 and 28.
156	1232	404	Jan. 2	−81·2	Jan. 14	+79·1	13	33	405	36·68	+10·93	A large stream of normal type, changing to a compact cluster.
	1266	405	Jan. 29	−80·0	Feb. 10	+81·5	12	23	157	42·82	+ 8·46	A regular spot.
	1301	406	Feb. 25	−82·0	Mar. 7	+62·4	10	78	458	41·46	+10·42	A large regular spot, which divides. Small companions.
	1339	407	Mar. 24	−72·2	Mar. 27	−32·2	4	4	28	45·18	+ 9·53	A regular spot. *Note.*—No photograph is available for March 8.
157	1236	404	Jan. 5	+57·9	Jan. 7	+79·2	3	10	122	134·27	−17·20	Several very small spots. One large regular spot on Jan. 7.
	1259	405	Jan. 22	−75·9	Jan. 31	+37·8	9	6	52	137·70	−16·76	A regular spot, disappearing by Jan. 30. Its companions vary.
158	1242	404	Jan. 7	+75·1	Jan. 7	+75·1	1	0	11	128·10	+ 8·00	A small spot.
	1260	405	Jan. 23	−66·6	Feb. 2	+74·3	10	55	415	142·15	+ 6·34	Two small spots, which increase.
	1291	406	Feb. 18	−67·2	Feb. 27	+52·1	9	24	148	151·98	+ 8·11	A regular spot, with companions in constant change. *Note.*—No photograph is available for Feb. 17.
159	1264	405	Jan. 27	−71·9	Feb. 7	+72·6	11	61	399	74·65	+10·68	A large irregular variable spot, which breaks up.
	1295	406	Feb. 23	−76·9	Mar. 3	+39·7	9	13	63	73·61	+12·25	A regular spot.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1884.	°	1884.	°				°	°	
160	1267	405	Jan. 30	−80·4	Feb. 11	+77·5	12	90	564	27·28	−24·53	A large regular spot, followed by a large irregular spot, which breaks [up.
	1303	406	Feb. 27	−80·7	Mar. 10	+79·2	10	16	116	19·52	−26·71	A regular spot, followed by a smaller one.
161	1271	406	Feb. 4	−71·8	Feb. 15	+75·1	12	27	174	329·44	+11·83	A large regular spot. A second appears on Feb. 14.
	1306	407	Mar. 3	−61·9	Mar. 3	−61·9	1	0	3	332·30	+11·00	A small spot.
162	1288	406	Feb. 16	−69·6	Feb. 27	+82·0	10	38	284	177·12	+13·49	A large regular spot, with a train.
	1323	407	Mar. 14	−57·3	Mar. 24	+72·1	11	13	87	188·52	+13·48	A regular spot.
												Note.—No photograph is available for March 13.
163	1298	406	Feb. 25	+50·3	Feb. 27	+72·5	3	47	304	173·33	+ 7·57	Two or three small spots.
	1324	407	Mar. 14	−65·8	Mar. 25	+77·5	12	56	322	180·39	+ 7·48	A regular spot, with a companion on March 21–23.
	1358	408	Apr. 9	−80·6	Apr. 21	+77·5	12	19	187	182·76	+ 8·87	A regular spot, with small companions.
	1380	409	May 7	−74·8	May 16	+48·3	9	11	133	184·51	+ 7·01	A number of variable small spots.
												Note.—No photograph is available for March 13.
164	1308	407	Mar. 3	−77·2	Mar. 12	+50·7	8	55	415	318·97	− 9·63	Two large irregular spots, with small companions.
	1342	408	Mar. 29	−79·5	Apr. 9	+71·1	12	13	108	333·37	− 9·02	A large regular spot, with train on April 1–4.
												Note.—No photograph is available for March 13.
165	1310	407	Mar. 6	−88·8	Mar. 18	+74·6	11	30	207	268·12	−16·68	A regular spot, which becomes variable.
	1350	408	Apr. 3	−77·8	Apr. 15	+80·6	12	13	95	268·09	−17·07	A regular spot.
166	1317	407	Mar. 10	−43·1	Mar. 19	+71·3	9	16	130	254·98	−12·51	A small spot, rapidly increasing and very variable.
	1351	408	Apr. 3	−79·8	Apr. 15	+80·2	12	67	611	266·75	−12·92	A very large spot, with small companions from April 9.
	1374	409	May 1	−70·9	May 6	− 7·1	6	1	23	263·35	−10·57	Two unstable small spots.
167	1330	407	Mar. 18	−74·5	Mar. 29	+72·5	12	76	460	121·82	− 8·68	A large regular spot, with a variable train.
	{1360	408	Apr. 13	−83·8	Apr. 23	+51·1	11	7	55	129·18	− 9·05}	A regular spot, with a small companion on Apr. 20.
	{1363	408	Apr. 15	−70·7	Apr. 26	+81·9	12	31	263	118·32	− 9·52}	Two regular spots, with unstable companions from April 17.
	1385	409	May 11	−81·5	May 16	−13·2	6	4	29	123·87	− 8·58	A regular spot. [alone is continued in 1385.
												Note.—1330 returns as two groups, 1360 and 1363, but 1363
168	1343	407	Mar. 31	− 8·0	Apr. 7	+82·3	8	130	1132	19·11	−10·25	Four spots which become a large regular spot, followed by a train.
	1371	408	Apr. 21	−79·3	May 3	+82·6	12	118	867	24·69	−10·61	A very fine stream of normal type.
	1393	409	May 18	−84·2	May 30	+76·3	12	52	265	28·53	− 9·32	A regular spot showing large proper motion.
	1414	410	June 14	−78·9	June 25	+67·6	9	16	111	31·43	− 8·18	A regular spot.
	1433	411	July 12	−70·4	July 12	−70·4	1	0	6	32·70	−10·30	A small spot.
												Note.—No photographs are available for July 13–18.
169	1344	407	Apr. 1	+32·2	Apr. 3	+60·6	3	6	32	45·50	−12·10	Two small spots.
	1369	408	Apr. 19	−77·1	May 1	+82·6	12	32	214	56·55	−14·02	Two regular spots. Variable companions.
	1389	409	May 16	−76·1	May 28	+84·0	12	38	261	61·50	−13·94	Two regular spots in contact. Occasional small companions.
170	1370	408	Apr. 21	+37·6	Apr. 24	+75·6	4	54	329	143·78	− 8·35	Three small spots, which increase to a variable group.
	1381	409	May 9	−72·5	May 21	+81·4	11	103	588	153·12	− 7·52	A very large, regular spot, with occasional small companions.
	1409	410	June 6	−67·8	June 16	+68·8	8	28	188	152·27	− 6·60	A large regular spot, with unstable follower.
	1425	411	July 3	−70·2	July 12	+47·3	8	14	82	151·29	− 7·25	A regular spot.
												Note.—No photographs are available for June 5, or July 13–18.
171	1376	409	May 6	−39·0	May 15	+77·4	9	34	331	232·80	+ 9·71	Small spots widely scattered. The preceding spot increases.
	1403	410	May 30	−69·2	June 7	+30·6	7	28	219	238·19	+ 8·07	A regular spot, with unstable train.
	1420	411	June 26	−72·5	July 5	+45·5	8	10	62	239·65	+ 9·29	A regular spot. [and 7.
												Note.—No photographs are available for June 8 and 9, or July 6
172	1388	409	May 15	−77·2	May 27	+82·0	12	26	175	74·98	− 2·39	A regular spot, with occasional small companions.
	1410	410	June 11	−71·9	June 20	+50·3	7	8	75	80·04	− 2·34	A regular spot.
173	1422	411	June 30	+ 5·0	July 5	+77·1	4	29	219	268·07	+ 9·93	A small spot, becoming large regular spot with train.
	1439	412	July 20	−82·7	July 20	−82·7	1	4	67	272·80	+10·00	A regular spot.
												Note.—No photographs are available for July 21 and 22.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1884.	°	1884.	°				°	°	
174	1427	411	July 8	−71·6	July 19	+84·4	6	39	260	87·48	+11·46	A large irregular spot preceded by a stream.
	1448	412	Aug. 3	−74·0	Aug. 11	+27·5	9	1	21	92·29	+13·11	A few small unstable spots.
												Note.—No photographs are available for July 13–18 inclusive.
175	1438	412	July 20	−45·1	July 27	+48·5	5	31	210	311·99	− 3·75	Three very small spots, becoming two large irregular spots.
	1455	413	Aug. 13	−74·3	Aug. 24	+71·7	11	13	100	323·43	− 3·17	A regular spot, with small companions from Aug. 14–18.
												Note.—No photographs are available for July 28–30 inclusive.
176	1443	412	July 31	+51·1	Aug. 1	+64·7	2	4	32	261·55	−15·35	Two small spots close together.
	1460	413	Aug. 20	−49·3	Aug. 23	− 6·7	4	3	17	257·75	−15·68	A few small unstable spots.
												Note.—No photograph is available for Aug. 19.
177	1445	412	July 31	+ 4·9	Aug. 5	+75·3	6	27	322	217·32	− 5·43	A variable group, becoming a stream of normal type.
	1463	413	Aug. 20	−80·8	Aug. 27	+ 8·5	8	15	132	225·09	− 8·03	A regular spot, with a larger irregular spot following.
												Note.—No photographs are available for July 28–30 inclusive.
178	1446	412	Aug. 1	−42·6	Aug. 10	+81·6	10	24	173	156·83	+ 8·40	A few unstable spots.
	1468	413	Aug. 26	−66·5	Aug. 29	−26·1	4	1	15	159·98	+ 7·53	A small spot.
												Note.—No photographs are available for Aug. 30–Sept. 1 inclusive.
179	1454	412	Aug. 13	−14·2	Aug. 17	+40·4	5	8	50	23·74	−11·12	A cluster of small spots.
	1476	413	Sept. 5	−69·4	Sept. 11	+13·2	7	6	27	25·87	−11·39	A small regular spot.
												Note.—No photograph is available for Aug. 19. 1476 is possibly a revival of 1454, as the latter does not seem to have been detected [on Aug. 18.
180	1458	413	Aug. 20	−30·4	Aug. 27	+63·9	8	45	366	276·98	+ 4·05	Small faint spots, becoming a close stream.
	1484	414	Sept. 12	−75·3	Sept. 23	+70·9	11	24	141	287·27	+ 4·55	A large regular spot which divides.
												Note.—No photograph is available for Aug. 19.
181	1465	413	Aug. 24	−28·9	Aug. 29	+37·0	6	59	421	223·48	+15·42	Several small spots, becoming two large spots.
	1486	414	Sept. 16	−81·6	Sept. 27	+59·3	11	58	333	225·05	+15·73	Two regular spots, with occasional small companions.
												Note.—No photographs are available for Aug. 30–Sept. 1 inclusive and Sept. 28 and 29.
182	1477	413	Sept. 6	+41·0	Sept. 9	+78·0	4	39	200	125·65	−14·10	A few very small spots, becoming a stream of normal type.
	1495	414	Sept. 23	−82·2	Oct. 5	+72·0	9	43	243	133·90	−13·47	A large regular spot.
	1518	415	Oct. 21	−77·8	Oct. 28	+16·2	7	18	102	132·64	−14·29	Two regular spots, with some small spots near them.
183	1480	413	Sept. 6	−70·8	Sept. 17	+80·3	11	119	748	15·38	+14·02	[spots. Small spots, increasing first to a compact cluster, then to two large
	1501	414	Oct. 2	−77·6	Oct. 15	+80·9	14	112	780	15·18	+14·18	A fine stream of normal type.
184	1491	414	Sept. 21	−45·1	Sept. 30	+77·6	7	45	429	200·78	− 7·29	Two small spots, increasing to a regular spot, with train.
	1509	415	Oct. 15	−82·0	Oct. 22	+16·6	8	14	102	207·78	− 9·74	An irregular spot, breaking up into small spots.
185	1516	415	Oct. 20	−24·2	Oct. 28	+81·9	8	60	382	200·43	− 8·59	Two small spots, moving apart and increasing. Small companions.
	1538	416	Nov. 12	−71·4	Nov. 16	−18·3	5	6	49	208·24	− 8·28	A very close pair of spots.
186	1532	416	Nov. 9	−23·6	Nov. 16	+75·3	8	46	350	299·46	− 8·15	A small spot, increasing to a large regular spot, with variable followers.
	1548	417	Dec. 2	−68·8	Dec. 8	+10·9	7	6	29	307·10	− 6·56	A regular spot.
187	1542	416	Nov. 18	−57·2	Nov. 28	+75·5	10	45	355	142·23	− 7·31	A small spot, becoming a large regular spot with train.
	1556	417	Dec. 14	−71·4	Dec. 25	+71·5	11	37	245	145·03	− 6·95	A large regular spot, with variable companions.
188	1546	417	Nov. 28	−80·2	Dec. 9	+70·6	11	42	329	350·29	+ 3·72	Four spots, becoming a long straight continuous stream.
	1563	418	Dec. 25	−78·1	1885. Jan. 5	+68·0	12	14	107	355·97	+ 1·63	A regular spot, with variable companions.
	1577	419	1885. Jan. 22	−65·6	Jan. 22	−65·6	1	1	10	358·90	+ 0·90	A small spot.
			1885.		1885.							
189	1566	418	Jan. 1	−58·5	Jan. 9	+60·9	9	7	47	287·02	−12·99	Two variable spots, becoming a long straight stream.
	1580	419	Jan. 25	−80·4	Feb. 6	+78·2	13	72	421	301·82	−13·55	A large regular spot, with a train.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1885.		1885.							
190	1572	418	Jan. 16	−62°·7	Jan. 26	+70°·2	10	35	240	80°·12	−20°·99	Two variable spots.
	1594	419	Feb. 11	−75·8	Feb. 22	+76·3	12	34	262	87·88	−21·50	A group undergoing great changes.
191	1573	418	Jan. 18	− 6·0	Jan. 25	+85·6	7	81	515	109·11	− 5·44	Two small faint spots, which increase greatly.
	1592	419	Feb. 8	−86·5	Feb. 20	+73·3	13	43	338	116·37	− 6·02	A large irregular variable spot, followed by a large regular spot.
192	1574	418	Jan. 20	−18·6	Jan. 26	+62·3	7	2	25	71·69	+ 7·57	Three or four variable spots.
	1596	419	Feb. 12	−69·0	Feb. 23	+80·1	12	21	136	78·17	+ 8·47	A regular spot, with scattered train.
	1622	420	Mar. 10	−77·1	Mar. 22	+82·8	13	35	232	86·35	+ 5·16	A large regular spot, which divides. Occasional companions.
	1624	420	Mar. 11	−75·4	Mar. 19	+30·2	9	11	124	72·77	+ 9·33	A regular spot, which becomes an unstable group.
	1639	421	Apr. 7	−73·1	Apr. 18	+77·9	12	37	374	84·01	+ 7·53	A large irregular group undergoing constant change.
	1662	422	May 3	−77·1	May 14	+66·8	11	12	130	91·22	+ 4·33	A regular spot. By May 7, spots are seen *s.p.* forming a short stream.
												Note.—The disturbance is represented in rotation 420 by two distinct groups, 1622 and 1624.
193	1582	418	Jan. 27	+37·6	Jan. 29	+63·2	3	11	60	34·23	− 1·43	Two small spots, with occasional companions.
	1600	419	Feb. 15	−69·4	Feb. 16	−54·8	2	0	11	40·65	− 3·35	A few very small variable spots.
(193*)	1586	419	Jan. 30	−69·6	Feb. 10	+77·1	12	31	166	246·78	+ 1·60	A regular spot, with an occasional small companion.
	1612	420	Feb. 26	−79·2	Mar. 9	+72·6	12	46	346	245·91	− 3·45	A regular spot which undergoes change. Small companions.
												Note.—It is doubtful whether 1612 is a return of 1586, or merely an example of the action, frequently witnessed, of spot-formation on a single meridian, but alternately in latitudes of opposite sign. It has therefore not been numbered in the series.
194	1590	419	Feb. 7	+19·1	Feb. 10	+57·7	4	6	55	229·08	−20·68	Two or three spots, which become compact clusters.
	1614	420	Feb. 27	−80·7	Mar. 11	+78·1	13	66	578	231·60	−18·24	A small spot, which becomes two large unstable streams.
	1632	421	Mar. 26	−77·1	Apr. 6	+73·9	12	43	326	237·02	−16·07	A scattered group, which coalesces to form three regular spots.
	1647	422	Apr. 21	−86·0	May 3	+74·7	13	17	137	243·02	−16·35	A large regular spot, with occasional small companions.
	1675	423	May 20	−52·6	May 28	+55·7	8	5	42	257·48	−15·84	A small spot, which becomes a straggling variable stream.
	1705	424	June 15	−57·4	June 25	+68·6	11	16	188	262·63	−15·04	Two irregularly shaped groups which diminish.
												Note.—Possibly 1675 is only a revival of 1647.
195	1597	419	Feb. 13	+18·5	Feb. 17	+75·5	5	8	62	152·52	−15·34	A small spot, with occasional scattered companions.
	1618	420	Mar. 4	−82·0	Mar. 16	+74·3	13	38	226	159·75	−15·28	A large regular spot, with occasional small companions.
	1636	421	Apr. 1	−73·7	Apr. 11	+58·2	11	11	63	158·54	−13·65	A regular group.
	1656	422	Apr. 28	−81·7	Apr. 29	−69·5	2	0	30	154·80	−15·85	A single spot, diminishing rapidly.
	1657	422	May 1	−41·5	May 1	−41·5	1	0	3	154·90	−13·80	A very small spot.
												Note.—1656 and 1657 form one intermittent group.
196	1638	421	Apr. 4	−71·7	Apr. 15	+73·5	12	79	731	122·03	+12·31	A large irregular and variable group.
	1658	422	Apr. 30	−77·6	May 11	+70·7	12	23	214	133·40	+11·75	Two regular spots, with small companions.
	1684	423	May 27	−75·2	May 29	−49·3	3	1	12	136·97	+11·50	A small spot.
197	1650	422	Apr. 26	−13·6	May 2	+61·1	7	10	101	247·21	+14·87	A compact cluster, which becomes very unstable.
	1672	423	May 18	−77·5	May 30	+80·4	12	80	516	254·21	+13·94	A very large regular spot, with occasional small companions.
198	1664	422	May 6	−72·7	May 16	+64·3	10	14	126	60·20	− 8·07	Two regular spots. The following spot disappears.
	1690	423	June 1	−80·7	June 13	+74·0	13	92	814	61·90	−10·55	A fine group of variable spots.
	1714	424	June 28	−83·6	July 11	+77·7	14	55	544	56·31	−10·76	Seven large spots which change and break up.
	1734	425	July 28	−53·2	July 28	−53·2	1	0	11	58·50	−12·40	A small spot.
												Note.—1664 is a diminishing group, and 1690 is possibly a revival [rather than a continuation of it.
199	1677	423	May 20	−68·7	May 31	+72·0	11	18	205	236·05	+ 9·67	A large irregular diminishing spot.
	1706	424	June 15	−76·9	June 27	+80·6	12	112	1321	241·11	+10·52	A large spot, followed by irregular variable mass.
	1720	425	July 12	−80·4	July 24	+80·0	13	43	420	247·05	+ 9·11	Two principal spots, with a stream. The preceding spot breaks up.
	1742	426	Aug. 8	−78·0	Aug. 19	+71·4	12	4	70	252·08	+12·74	A large spot, which breaks up into variable small spots.
												Note.—1677 is a diminishing group, and 1706 is possibly a revival rather than a continuation of it.
200	1681	423	May 23	+12·2	May 28	+76·1	5	7	76	277·48	−10·08	A small spot, becoming a regular spot followed by a cluster.
	1701	424	June 14	−62·5	June 18	− 8·3	5	6	31	270·78	−10·76	A spot with an occasional companion.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1885.	°	1885.	°				°	°	
201	1683	423	May 24	+15·8	May 27	+59·9	3	4	34	270·30	− 2·73	Three or four variable small spots.
	1700	424	June 12	−77·5	June 18	+ 1·6	7	0	11	282·23	− 1·40	A small regular spot. [of 1683. *Note.*—Possibly 1700 is a fresh outburst rather than a continuation
202	1694	424	June 7	−70·6	June 18	+76·0	12	103	572	356·91	−14·52	A very large spot, with companions. It breaks up by June 11.
	1716	425	July 4	−74·7	July 15	+69·5	12	11	77	354·03	−15·11	A regular spot.
203	1710	424	June 23	−58·0	July 2	+69·6	9	47	475	162·06	−13·37	Two spots which separate. The following spot disappears.
	1728	425	July 17	−79·8	July 29	+77·9	13	73	396	175·12	−11·35	A regular spot, with occasional small followers.
	1748	426	Aug. 14	−71·3	Aug. 25	+71·2	12	35	213	173·17	−13·93	A regular spot.
204	1715	424	July 1	−58·1	July 11	+74·1	11	55	641	53·00	−18·90	A small spot, which becomes two large spots, which coalesce.
	1733	425	July 27	−73·5	Aug. 7	+67·7	12	23	239	48·85	−21·51	Two spots, with occasional companions.
205	1717	424	July 5	+24·8	July 8	+67·9	4	10	127	83·70	−16·85	A spot with varying followers.
	1732	425	July 24	−72·2	Aug. 3	+69·1	11	7	50	98·60	−12·61	Two or three variable spots.
206	1718	425	July 9	−72·5	July 20	+77·5	12	39	265	292·31	− 8·46	A regular spot, with faint follower.
	1737	426	Aug. 5	−67·7	Aug. 16	+76·1	12	33	242	298·42	−11·22	A regular spot, with variable companions.
207	1726	425	July 17	+31·8	July 19	+63·7	3	3	43	289·67	−11·70	Three well-defined spots. Only one small spot is seen on July 19.
	1738	426	Aug. 5	−78·9	Aug. 17	+82·6	13	26	204	288·31	−11·37	A regular spot. By Aug. 8 a following stream is seen.
	1759	427	Sept. 1	−76·0	Sept. 12	+67·3	12	12	88	293·37	−12·42	A regular spot, with an occasional small companion.
208	1756	426	Aug. 27	−62·0	Sept. 7	+81·2	11	21	252	18·43	− 4·83	A well-defined spot, with three fainter variable spots preceding.
	1767	427	Sept. 21	−76·4	Oct. 3	+79·0	13	14	123	28·33	− 2·64	A large regular spot, with a small companion on Sept. 25.
209	1757	427	Aug. 28	−80·6	Sept. 9	+77·0	12	38	350	341·14	+10·32	Two variable spots. Occasional small companions.
	1770	428	Sept. 25	−68·3	Oct. 5	+61·7	11	11	78	344·60	+11·97	A regular spot, with a very small companion on Sept. 28.
210	1763	427	Sept. 8	−73·5	Sept. 19	+68·7	12	82	558	203·15	−13·55	A very large and variable spot. Occasional small companions.
	1775	428	Oct. 5	−82·9	Oct. 14	+34·9	10	15	85	200·59	−13·94	A regular spot, which breaks up.
211	1764	427	Sept. 13	+42·4	Sept. 14	+61·3	2	0	113	257·00	−16·00	A group of faint spots.
	1773	428	Oct. 1	−71·0	Oct. 13	+76·9	13	89	557	261·05	−16·82	Two large regular spots, with small companions.
	1788	429	Oct. 28	−74·2	Nov. 9	+77·3	13	37	189	260·50	−15·08	A large regular spot, with very small companions on Nov. 3–4.
212	1783	428	Oct. 20	−77·9	Nov. 1	+81·3	13	26	192	4·08	− 3·85	A regular diminishing spot. Occasional small followers.
	1797	429	Nov. 17	−70·1	Nov. 26	+44·4	10	5	48	5·57	− 3·56	A stream of small spots; not seen on Nov. 25. *Note.*—1797 is intermittent, not being seen on Nov. 25.
213	1795	429	Nov. 13	−77·0	Nov. 24	+70·3	12	88	536	53·73	+14·82	Two large diminishing spots, with very small companions.
	1806	430	Dec. 10	−76·5	Dec. 21	+65·0	12	22	140	53·29	+15·22	A large regular spot, which divides. Occasional small companions.
214	1803	430	Dec. 2	+42·3	Dec. 5	+81·3	4	6	127	279·55	+14·15	A short stream, whose leader is largest and alone remains by Dec. 4.
	1813	431	Dec. 20	−74·7	Dec. 31	+70·7	12	30	182	288·15	+17·13	A large regular spot, with very small companion on Dec. 24–25.
215	1812	430	Dec. 20	+23·0	Dec. 23	+61·4	4	1	16	24·73	− 4·58	One or two small spots.
			1886.		1886.							
	1826	431	Jan. 8	−79·1	Jan. 17	+43·8	10	44	327	32·72	− 3·73	Three regular spots, which become unstable.
			1886.		1886.							
216	1821	431	Jan. 2	−81·1	Jan. 15	+86·5	13	60	416	104·84	−13·92	A large regular spot, which breaks up. Unstable followers.
	1833	432	Jan. 30	−74·7	Feb. 11	+80·0	13	17	140	107·75	−14·91	A large regular spot, with occasional companions.
217	1828	431	Jan. 12	−31·9	Jan. 21	+86·2	9	54	538	29·48	−10·09	Four clusters, becoming regular spot with variable train.
	1835	432	Feb. 4	−75·8	Feb. 16	+78·1	13	72	422	35·34	− 9·50	A very large regular spot which divides. Occasional small companions.
	1852	433	Mar. 3	−81·8	Mar. 15	+74·5	13	30	226	35·68	− 8·72	A large regular spot. A fluctuating stream suddenly appears south.
	1863	434	Mar. 31	−70·6	Apr. 7	+19·5	8	1	18	37·74	−11·34	A small spot, with one or two companions.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1886.	°	1886.	°				°	°	
218	1840	432	Feb. 11	− 1·9	Feb. 17	+82·3	7	7	68	25·43	− 5·73	A very small spot, becoming a straggling unstable stream.
	1853	433	Mar. 4	−79·8	Mar. 16	+76·1	13	94	651	22·90	− 5·05	A very large regular spot, followed by an unstable stream.
	1864	434	Mar. 31	−82·9	Apr. 12	+78·5	13	49	256	26·66	− 5·42	A large regular spot, with occasional companions.
	1876	435	Apr. 27	−80·9	May 9	+79·8	13	21	167	32·17	− 6·51	A large regular spot.
	1886	436	May 24	−84·8	May 31	+14·9	8	5	37	34·85	− 5·85	A small regular spot.
219	1849	433	Mar. 2	− 6·4	Mar. 8	+75·3	7	45	391	125·69	− 1·29	Two small spots, becoming large spot, with variable preceding stream.
	1859	434	Mar. 23	−80·2	Apr. 4	+76·6	13	38	323	135·90	− 1·30	Two large regular spots, with occasional small companions.
	1872	435	Apr. 19	−79·9	May 1	+80·2	13	14	170	139·36	− 1·38	A large variable spot, followed by a faint variable irregular spot.
220	1856	434	Mar. 18	−82·3	Mar. 30	+76·3	13	44	275	199·60	+ 5·36	A large regular fluctuating spot, followed by a short stream.
	1869	435	Apr. 15	−67·2	Apr. 26	+78·1	12	14	96	201·77	+ 4·25	A large regular diminishing spot, with distant companion on Apr. 24.
221	1860	434	Mar. 26	−61·0	Apr. 5	+78·1	11	57	487	116·04	−16·79	Three small spots, increasing to two large spots.
	1874	435	Apr. 20	−83·3	May 3	+83·3	14	64	413	117·54	−18·26	A large regular spot, with occasional small companions.
222	1878	435	Apr. 29	−15·2	May 6	+75·3	8	65	606	69·21	−11·45	Two small spots, becoming an irregular stream, and later two very large variable spots.
	1884	436	May 21	−80·3	June 2	+78·4	13	70	328	74·23	−10·64	A large regular spot. Diminishing.
	1897	437	June 17	−81·6	June 28	+61·9	12	17	153	74·10	−11·69	A large regular spot. Diminishing.
	1906	438	July 15	−75·1	July 26	+75·0	12	55	346	73·47	− 9·37	A small spot, increasing to a large regular variable spot, with train.
	1915	439	Aug. 11	−72·1	Aug. 20	+49·3	10	15	84	79·05	− 9·33	A regular spot, with small companion on Aug. 12–13.
223	1888	436	May 30	+56·3	June 1	+81·1	3	41	210	90·20	−12·63	Two spots, which increase and separate.
	1896	437	June 16	−71·6	June 26	+60·1	11	14	81	98·09	−15·00	A regular spot, with small companion on June 23.
224	1891	437	June 3	−48·9	June 12	+81·2	10	83	509	302·59	−14·72	Three small spots, increasing to a regular spot, with train.
	1901	438	June 27	−80·5	July 9	+75·1	13	56	407	302·09	−15·34	A large regular spot, with fluctuating companions.
	1910	439	July 25	−76·3	Aug. 5	+72·0	12	22	140	300·53	−13·28	A regular spot, with two very small companions on July 31.
225	1937	442	Oct. 29	+68·1	Oct. 30	+74·6	2	0	29	253·05	− 6·30	One or two small spots.
	1939	443	Nov. 15	−61·3	Nov. 17	−31·6	3	0	6	263·77	− 4·90	One or two very small spots. *Note.*—1939 is possibly a fresh outbreak and not a return of 1937.
			1887.		1887.							
226	1958	446	Feb. 19	−71·2	Mar. 2	+76·2	12	12	89	70·69	+11·23	A regular spot. Other spots appear, of which one is large.
	1962	447	Mar. 17	−76·4	Mar. 22	− 4·9	6	10	61	83·35	+12·78	A spot, with occasional companions. *Note.*—1962 is possibly a fresh outbreak and not a return of 1958.
227	1973	449	May 2	−81·1	May 14	+82·7	13	40	287	191·02	+12·65	A large regular spot, followed by small unstable spots.
	1984	450	May 30	−66·5	May 30	−66·5	1	0	10	193·40	+11·40	A small faint spot.
228	1978	449	May 14	−31·3	May 21	+67·1	8	56	383	80·35	− 9·19	Two or three small faint spots, becoming a stream of normal type.
	1987	450	June 6	−68·8	June 18	+84·4	13	95	525	95·01	− 8·51	Two large spots, with occasional companions.
	1992	451	July 2	−82·4	July 14	+76·2	13	34	200	97·18	− 7·28	A large regular spot, with occasional companions.
	1998	452	July 30	−71·2	Aug. 9	+60·9	11	9	66	97·53	− 7·49	A regular spot. *Note.*—No photograph is available for May 22.
229	1991	451	June 27	−69·4	July 8	+79·5	12	31	185	179·21	−11·60	A large regular spot, with occasional companions. Diminishing.
	1996	452	July 24	−67·4	July 28	−14·8	5	2	14	182·16	−13·14	A small spot, with a very small companion on July 28.
230	2005	453	Aug. 27	+67·4	Aug. 28	+77·5	2	0	49	226·55	+ 4·50	Two small spots.
	2008	454	Sept. 14	−52·1	Sept. 24	+76·3	11	47	321	232·93	+ 4·91	Three small spots, which become a fine stream of normal type. *Note.*—2008 may be only a revival of 2005.
231	2021	457	Dec. 3	−81·0	Dec. 15	+72·7	13	68	571	223·74	− 7·62	A fine long variable stream.
					1888.							
	2026	458	Dec. 31	−74·2	Jan. 10	+59·7	11	22	134	227·85	− 7·98	A regular spot.
					1887.							
232	2024	457	Dec. 14	−79·5	Dec. 26	+79·8	13	102	712	81·44	− 7·98	A very large regular spot with train, all undergoing great changes.
			1888.		1888.							
	2029	458	Jan. 10	−84·0	Jan. 21	+60·5	12	21	128	84·74	− 8·66	A regular spot with occasional small companions. *Note.*—No photograph is available for 1888 Jan. 22.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1888.		1888.							
233	2033	459	Jan. 30	+28°·9	Feb. 2	+65°·3	4	9	48	291°·85	− 5°·90	A very small spot, with occasional small followers.
	2035	460	Feb. 18	−79·3	Feb. 29	+68·2	11	31	220	297·25	− 4·66	A long straggling variable stream.
	2039	461	Mar. 16	−74·5	Mar. 19	−33·2	4	4	46	307·15	− 4·35	Two or three small spots.
234	2056	464	June 24	+ 3·4	June 29	+72·5	6	8	66	139·58	+ 4·63	A small spot, with an irregular train.
	2060	465	July 15	−70·5	July 19	−14·4	5	1	10	150·30	+ 5·98	A small spot, not seen on July 18. *Note.*—2060 is intermittent, not being seen on July 18.
235	2070	467	Sept. 6	−71·4	Sept. 16	+60·1	11	11	57	163·78	−14·93	A regular spot, preceded by an irregular cluster of unstable spots.
	2072	468	Oct. 3	−74·1	Oct. 3	−74·1	1	0	22	166·80	−14·50	A small spot.
236	2075	469	Nov. 11	−72·7	Nov. 22	+72·7	12	35	193	15·64	− 3·97	A regular spot, with occasional companions.
	2077	470	Dec. 9	−61·1	Dec. 9	−61·1	1	0	9	19·70	− 3·70	A small spot.
			1889.		1889.							
237	2085	474	Mar. 13	+24·5	Mar. 17	+79·4	5	17	110	308·20	+ 6·24	Three or four variable spots.
	2086	475	Apr. 1	−71·2	Apr. 11	+55·9	11	12	71	315·14	+ 5·29	A regular spot.
238	2090	477	June 16	−74·3	June 28	+86·9	13	89	500	30·60	− 5·47	A large spot, followed by an unstable cluster.
	2092	478	July 12	−82·3	July 24	+74·3	13	54	318	36·30	− 7·94	A regular spot, with occasional companions. Fresh outburst by [July 18.
	2099	479	Aug. 9	−75·5	Aug. 20	+71·5	12	15	73	36·91	− 8·14	A regular spot, with occasional companions.
239	2097	479	Aug. 2	−45·3	Aug. 11	+77·4	10	52	336	161·46	−20·65	Two very small spots, increasing to a stream of normal type.
	2100	480	Aug. 27	−70·4	Sept. 7	+69·2	12	37	198	160·38	−19·35	A regular spot.
240	2102	480	Sept. 7	+56·7	Sept. 8	+74·4	2	10	113	148·75	−22·40	Two or three variable spots.
	2103	481	Sept. 24	−71·6	Oct. 4	+63·1	11	26	141	152·53	−20·91	A regular spot, with occasional companions.
241	2108	484	Dec. 12	+74·3	Dec. 13	+85·3	2	4	72	334·50	− 7·45	A regular spot.
	2111	485	Dec. 27	−83·9	1890. Jan. 7	+67·0	12	14	62	343·92	− 9·27	A regular spot.
			1890.		1890.							
(241*)	2141	493	Aug. 25	−77·8	Sept. 6	+78·8	13	96	601	40·70	+21·14	Two spots, which increase to a large complicated group.
	2151	494	Sept. 24	−48·7	Oct. 1	+45·4	7	14	89	37·19	+22·19	Two small spots, which increase to a straggling stream. *Note.*—2151 is only a revival of 2141.
242	2159	497	Nov. 22	−71·9	Dec. 4	+82·2	13	72	421	312·44	+19·91	Two spots, which increase to five large fluctuating spots.
	2165	498	Dec. 20	−70·6	Dec. 21	−54·7	2	0	13	310·05	+20·15	A small spot. *Note.*—2165 after Dec. 22 appears to be a new formation, and should be numbered as a distinct group.
			1891.		1891.							
243	{2172	499	Jan. 19	−70·3	Jan. 22	−26·5	4	0	15	274·50	−22·70	Two or three faint variable spots not seen on Jan. 21.
	{2174	499	Jan. 25	+ 9·4	Jan. 29	+59·0	4	1	32	272·33	−24·60	An irregular group of many small spots, not seen on Jan. 28.
	2182	500	Feb. 13	−75·1	Feb. 24	+34·7	10	5	47	271·14	−22·73	A few unstable spots in a straggling stream, not seen on Feb. 18. *Note.*—2172 and 2174 are themselves intermittent and together form one intermittent group. 2182 is also intermittent, not being seen [on Feb. 18.
244	2179	499	Feb. 10	−21·8	Feb. 17	+75·8	8	44	216	34·99	+15·65	A long stream of small spots, whose leader alone remains on Feb. 15.
	2190	500	Mar. 5	−70·7	Mar. 13	+35·9	9	15	80	39·12	+15·89	A double spot with companions. Many changes.
245	2180	499	Feb. 11	−10·2	Feb. 17	+69·6	7	6	30	28·40	−18·64	A few very variable small spots.
	2187	500	Mar. 4	−84·8	Mar. 7	−43·4	4	2	22	41·10	−20·33	One or two small spots.
246	2183	500	Feb. 16	−57·7	Feb. 25	+66·0	10	86	394	277·22	+19·18	A cluster of small spots, which becomes a stream of normal type.
	2193	501	Mar. 13	−77·1	Mar. 25	+77·4	13	40	194	284·70	+19·61	A large regular spot.
247	2199	502	Apr. 14	+14·8	Apr. 19	+76·9	6	27	153	317·25	+22·45	Three small spots, which increase to two pairs of spots.
	2210	503	May 4	−79·2	May 15	+67·2	12	10	108	313·99	+22·39	An irregular group of small spots undergoing changes.
	2231	504	June 1	−80·8	June 11	+60·4	11	18	132	310·17	+23·02	A regular spot with companions, one being large. *Note.*—2210 is intermittent, not being seen on May 14.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1891.	°	1891.	°				°	°	
248	2204	502	Apr. 21	−74·9	May 2	+72·8	12	68	394	135·59	−19·77	A large regular spot, followed by a fine but diminishing train.
	2220	503	May 18	−79·9	May 29	+68·5	12	9	56	135·53	−19·43	A regular spot.
249	2205	502	Apr. 22	+16·0	Apr. 26	+75·8	5	25	157	215·78	+16·74	Small spots, becoming a fine regular spot with train.
	2216	503	May 12	−73·3	May 22	+59·9	11	19	100	218·48	+16·32	A regular spot, with a small companion on May 16.
250	2219	503	May 17	−67·1	May 28	+79·5	12	55	341	159·31	+16·20	A regular spot, with a train. The whole increases.
	2236	504	June 13	−61·0	June 23	+72·4	11	15	115	168·21	+14·24	Two small faint spots, which increase to a large irregular group.
	2255	505	July 8	−83·4	July 20	+83·6	13	49	309	179·61	+15·65	A fine stream parallel to the sun's equator.
	2277	506	Aug. 4	−77·4	Aug. 16	+77·1	13	27	166	181·98	+17·00	A large regular spot, which divides. A small companion on Aug. 11.
251	2221	503	May 19	−79·5	May 29	+59·0	11	11	72	125·24	+20·17	A regular spot, at first; later a variable diminishing stream.
	2237	504	June 14	−75·1	June 26	+84·6	13	41	277	138·95	+18·20	A large regular spot, with diminishing train.
	2258	505	July 12	−78·4	July 24	+83·4	13	94	544	130·10	+20·00	Two regular spots, which coalesce. Large companions form near.
	2283	506	Aug. 10	−50·5	Aug. 15	+18·2	6	2	22	132·68	+19·50	A few very small unstable spots.
												Note.—2283 is possibly only a revival of 2258.
252	2222	503	May 22	+41·3	May 25	+72·4	4	0	15	196·80	+25·55	One or two small faint spots, not seen on May 23 and 24.
	2235	504	June 10	−76·2	June 20	+60·8	11	11	74	199·74	+26·07	A small faint spot. A fresh outbreak occurs on June 12.
												Note.—2222 is intermittent, not being seen on May 23 and 24.
253	2238	504	June 15	+60·5	June 16	+76·7	2	47	337	264·35	+20·70	Two small spots, which increase greatly.
	2252	505	July 1	−76·2	July 12	+72·5	12	47	298	276·53	+19·00	Two large regular spots, with companions. Fresh spots break out.
	2270	506	July 27	−80·5	Aug. 2	+ 3·8	7	11	114	288·11	+15·64	Two variable compact clusters, which break up by July 31.
254	2239	504	June 16	− 3·6	June 21	+62·7	6	4	45	183·48	+26·83	Two irregular spots, of which one alone remains by June 18.
	2256	505	July 9	−72·9	July 21	+85·7	13	48	256	173·14	+24·78	A fine stream of normal type.
	2278	506	Aug. 4	−82·3	Aug. 16	+71·4	13	42	280	177·05	+24·28	A large regular spot, followed by a faint diminishing irregular spot.
	2294	507	Aug. 31	−84·6	Sept. 13	+83·2	14	62	366	176·98	+25·48	A large regular spot, with diminishing train.
	2311	508	Sept. 28	−80·8	Oct. 10	+68·5	13	19	108	170·52	+26·65	A regular spot, with an occasional companion.
255	2240	504	June 17	+39·2	June 20	+72·9	4	2	49	213·90	+22·13	Two or three small spots.
	2254	505	July 6	−71·2	July 17	+83·0	12	55	384	219·13	+20·42	A fine stream, greatly inclined to sun's equator. Unstable.
	2272	506	Aug. 1	−77·4	Aug. 10	+40·0	10	4	47	222·69	+18·21	A regular spot, which breaks up. Not seen on Aug. 9.
												Note.—2272 is intermittent, not being seen on Aug. 9.
256	2244	504	June 21	−76·3	July 3	+80·0	13	25	154	43·34	+16·12	A large regular spot, with occasional small faint companions.
	2265	505	July 19	−65·4	July 29	+62·7	11	12	68	45·31	+16·34	A regular spot which breaks up. The group becomes unstable.
	2285	506	Aug. 16	−59·9	Aug. 20	− 4·4	5	2	13	45·42	+14·30	A short stream of very small spots.
												Note.—2265 very nearly dies out on July 25.
257	2247	504	June 24	−45·7	July 3	+72·4	10	70	391	34·92	−20·90	Two or three small spots, which increase to a stream of normal type.
	2266	505	July 20	−69·1	July 25	− 4·0	6	13	63	29·73	−22·53	A regular spot. Occasional companions.
258	2271	506	Aug. 1	−27·3	Aug. 9	+82·5	9	35	384	275·42	−18·40	A small faint spot, increasing and forming a large elongated spot.
	2291	507	Aug. 25	−65·2	Aug. 28	−26·5	4	0	8	277·70	−15·65	One or two faint variable spots.
259	2284	506	Aug. 15	+39·8	Aug. 19	+86·5	5	22	255	152·86	+25·82	A small regular spot, becoming a stream of normal type.
	2297	507	Sept. 2	−84·8	Sept. 15	+76·8	14	21	144	148·38	+28·57	A regular spot, with occasional companion.
260	2293	507	Aug. 29	−68·5	Sept. 10	+86·7	13	137	1212	221·48	+21·79	A stream whose middle spots increase contrary to the usual type.
	2306	508	Sept. 24	−79·7	Oct. 5	+65·0	12	38	269	227·40	+23·23	A large spot, followed by short stream. Disintegrates and diminishes.
	2329	509	Oct. 23	−54·6	Oct. 30	+35·5	8	8	36	228·19	+25·93	A regular spot, with an occasional companion.
												Note.—2329 may possibly be only a revival of 2306.
261	2295	507	Sept. 2	−40·8	Sept. 11	+77·1	10	23	178	198·89	+15·44	Small variable spots closely crowded together.
	2308	508	Sept. 27	−64·1	Oct. 7	+74·0	11	7	45	208·67	+14·73	A few very small faint scattered spots, not seen on Oct. 1 and Oct. 3.
												Note.—2308 is intermittent, not being seen on Oct. 1 and Oct. 3.
262	2299	507	Sept. 10	−80·3	Sept. 22	+78·9	13	59	305	51·63	+14·62	A large regular spot, with occasional very small companions.
	2318	508	Oct. 7	−83·4	Oct. 19	+74·9	13	15	86	53·52	+14·15	A regular spot, with occasional small companions.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1891.	°	1891.	°				°	°	
263	2302	507	Sept. 16	−50·4	Sept. 26	+77·0	11	49	353	5·69	−23·18	A straggling stream, of which three spots become large and regular.
	2322	508	Oct. 12	−64·1	Oct. 14	−36·7	3	0	13	6·43	−22·83	A close pair of very small spots.
264	2313	508	Oct. 1	−74·4	Oct. 12	+73·5	12	24	185	143·93	+19·41	A compact cluster whose members vary.
	2336	509	Oct. 29	−58·4	Nov. 2	− 6·6	5	6	43	146·88	+21·12	A compact cluster.
265	2317	508	Oct. 6	−20·0	Oct. 14	+81·1	9	5	44	128·60	+23·78	An irregular group of unstable spots, seen only as a faint patch on [Oct. 12.
	2338	509	Oct. 30	−75·3	Nov. 6	+22·9	8	4	43	122·69	+22·76	A few variable spots. *Note.*—2317 is too faint to measure on Oct. 12.
266	2328	509	Oct. 22	−81·2	Nov. 2	+64·9	12	21	125	218·10	+17·96	A regular spot. A stream of normal type appears to the N., but [disappears.
	2350	510	Nov. 18	−80·8	Nov. 29	+70·1	12	64	365	228·80	+19·29	A large spot, throwing off fragments.
	2368	511	Dec. 16	−68·3	Dec. 18	−42·0	3	9	67	227·20	+19·33	One or two variable spots.
267	2339	509	Nov. 2	−49·4	Nov. 10	+58·9	9	18	116	106·34	+18·92	A compact cluster, expanding into a long straight stream.
	2355	510	Nov. 28	−64·8	Dec. 4	+11·9	7	5	26	103·97	+19·73	A small spot, with a dark nucleus.
268	2349	510	Nov. 15	−84·1	Nov. 27	+78·8	13	103	681	261·41	−19·25	A very fine stream of normal type.
	2364	511	Dec. 12	−80·1	Dec. 24	+77·6	13	21	120	267·67	−19·88	A regular spot.
269	2358	510	Dec. 6	+12·1	Dec. 10	+62·8	5	12	42	78·14	+26·36	A few small spots in a straight stream.
	2371	511	Dec. 26	−78·4	Dec. 28	−50·4	3	0	25	84·67	+24·03	One or two small faint spots.
270	(2348	510	Nov. 14	−67·2	Nov. 24	+63·0	11	4	33	285·19	−19·01)	A small faint spot, not seen on Nov. 16. Afterwards scattered group.
	2365	511	Dec. 13	−48·2	Dec. 23	+80·7	11	36	248	284·42	−19·07	One or two small faint spots, increasing to large regular spots with [variable companions.
			1892.		1892.							
	2391	512	Jan. 8	−68·0	Jan. 9	−59·1	2	0	20	281·00	−19·25	A small spot. *Note.*—2348 is intermittent, not being seen on Nov. 16. Also note that 2365 is probably only a revival of 2348.
			1891.		1891.							
271	2369	511	Dec. 19	−61·1	Dec. 30	+84·0	12	88	610	194·81	+28·57	A straight stream, whose leader becomes large, regular, and divides.
			1892.		1892.							
	2399	512	Jan. 15	−76·0	Jan. 27	+79·0	13	72	560	184·15	+28·02	A large composite spot, shedding fragments, and becoming regular.
			1891.		1891.							
272	2373	511	Dec. 28	+52·6	Dec. 30	+76·4	3	39	470	186·40	−11·40	Two large spots, appearing suddenly near the W. limb.
			1892.		1892.							
	2397	512	Jan. 14	−82·4	Jan. 26	+75·1	13	27	213	189·22	−11·32	A large composite spot, becoming regular. Occasional companions.
			1891.		1892.							
273	2376	511	Dec. 29	−78·7	Jan. 10	+71·5	13	72	434	39·36	+21·13	A large spot with train.
			1892.									
	2411	512	Jan. 26	−69·9	Feb. 1	+ 9·0	7	7	38	45·47	+22·07	A regular small spot, with an occasional very small companion.
			1891.		1892.							
274	2377	511	Dec. 30	+29·2	Jan. 3	+82·0	5	16	137	140·40	+18·06	Two very small fluctuating spots.
			1892.									
	2405	512	Jan. 18	−72·6	Jan. 29	+74·2	12	46	246	148·84	+18·60	A large regular spot, with occasional small companions.
	2431	513	Feb. 15	−67·3	Feb. 26	+78·0	12	21	132	144·50	+19·35	A large regular spot, with small companion on Feb. 16.
			1892.		1892.							
275	2390	512	Jan. 8	−67·4	Jan. 21	+81·3	14	74	421	275·39	−25·46	A large regular spot. Others also form, all showing rapid P.M.
	2421	513	Feb. 5	−81·2	Feb. 18	+82·5	12	392	2402	255·68	−28·33	A very large composite spot, surrounded by small spots.
	2440	514	Mar. 4	−84·6	Mar. 17	+87·0	14	53	386	250·04	−28·38	A straggling irregular stream. From Mar. 7 a fine composite spot.
276	2403	512	Jan. 18	−27·6	Jan. 24	+56·9	7	4	45	194·26	+18·89	Two very small spots, becoming a straight stream.
	2426	513	Feb. 11	−69·5	Feb. 16	− 1·9	4	15	69	194·38	+16·50	A few scattered small spots.
277	2408	512	Jan. 22	−81·2	Feb. 3	+77·6	13	50	294	83·88	−15·28	A large regular spot with a diminishing train.
	{2433	513	Feb. 18	−83·2	Feb. 21	−47·6	4	10	54	85·45	−14·30}	A single spot.
	{2437	513	Feb. 29	+59·8	Feb. 29	+59·8	1	4	36	84·30	−15·70}	Two small spots.
	2451	514	Mar. 17	−76·3	Mar. 29	+81·5	13	51	312	84·64	−15·92	A large composite spot, dividing into two regular spots. *Note.*—2437 is a revival of 2433 in the same rotation after a quiescence of seven days. So 2433 and 2437 form one intermittent group. No photograph is available for Mar. 1.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1892.		1892.							
278	2438	513	Mar. 4	+69°·8	Mar. 5	+76°·3	2	44	197	38·45	+27°·00	A pair of large spots.
	2454	514	Mar. 20	−79·5	Apr. 2	+75·5	14	84	478	31·63	+27·74	A very large stream, with variable components. *Note.*—No photograph is available for Mar. 3.
279	2448	514	Mar. 16	−68·3	Mar. 27	+75·2	12	50	251	105·93	+ 9·49	A large regular spot, with a small companion on March 21 and 22.
	2481	515	Apr. 11	−82·2	Apr. 23	+75·6	13	31	201	106·84	+11·41	A large regular spot, with occasional companions, which break up.
	2512	516	May 9	−73·0	May 15	+ 3·4	7	3	18	107·79	+10·13	A faint irregular spot. A small companion following it on May 12.
280	2485	515	Apr. 17	−35·7	Apr. 26	+83·3	10	46	376	81·18	−13·82	A very small spot, becoming a stream and then a pair of large spots.
	2515	516	May 10	−82·4	May 22	+76·8	13	101	742	84·31	−14·02	A large composite spot, dividing into three. A distant follower. *Note.*—This series is a revival of 2437 and 2451.
281	2486	515	Apr. 18	−74·6	Apr. 29	+81·2	12	73	560	27·62	+10·53	A very large and complicated stream of spots.
	2519	516	May 14	−69·0	May 25	+80·5	12	41	233	48·85	+10·00	A stream of three large spots. By May 21 there is a fresh outburst.
	2554	517	June 9	−75·8	June 17	+32·0	9	4	29	55·52	+10·48	A regular spot, breaking up to form a stream.
282	2492	516	Apr. 23	−78·7	May 5	+79·3	13	50	295	313·68	−18·05	A large regular spot, with an occasional small companion.
	2528	517	May 20	−82·8	May 28	+23·0	9	7	44	313·09	−17·06	A regular spot.
283	2499	516	May 2	+60·6	May 3	+72·8	2	6	48	335·15	+17·35	One or two spots.
	2524	517	May 18	−79·7	May 30	+79·0	13	60	438	342·27	+15·56	A large irregular spot, with small companions.
284	2507	516	May 5	−67·6	May 16	+77·9	12	34	183	166·84	+18·87	A large regular spot, with an occasional companion.
	2545	517	June 1	−74·0	June 8	+18·7	8	7	32	163·14	+18·38	A small regular spot. A companion on June 6.
285	2513	516	May 10	+51·8	May 11	+66·3	2	2	15	220·60	−21·25	One or two faint spots.
	2542	517	May 27	−84·6	June 4	+19·6	9	27	190	217·91	−18·72	A very irregular group, which has formed into a stream by June 3.
286	2516	516	May 12	+38·1	May 15	+79·3	4	10	66	180·93	+23·00	A straggling group.
	2544	517	May 31	−65·3	June 5	+ 6·1	6	1	14	188·18	+21·23	A small regular spot, with a companion on June 1 and 2.
287	2530	517	May 21	−20·8	May 28	+71·3	8	44	294	361·53	+10·50	An irregular stream, of which two spots become very large.
	2562	518	June 13	−84·3	June 25	+76·1	13	28	230	354·97	+11·14	A pair of spots becoming a stream; the preceding spots disappear.
288	2539	517	May 26	−42·1	June 3	+66·0	9	25	165	274·87	+13·16	Two or three spots becoming a stream of three well-defined groups.
	2567	518	June 19	−72·9	June 29	+57·6	11	40	337	284·84	+11·51	A very large spot, which breaks up and is followed by a short train.
289	2550	517	June 7	−73·7	June 18	+75·9	12	29	202	86·47	+ 8·69	A regular spot which divides, forming two large spots with companions.
	2581	518	July 4	−79·0	July 16	+77·5	13	243	1591	83·19	+11·01	Three large spots, with small companions.
	2611	519	July 30	−80·0	Aug. 11	+76·7	13	92	654	93·88	+ 9·83	A fine complex stream of which the rear spot alone remains by Aug. 10.
	2643	520	Aug. 26	−82·8	Sept. 8	+83·7	14	38	229	93·19	+10·44	A regular spot, with occasional small companions.
	2675	521	Sept. 23	−75·9	Oct. 5	+79·2	13	25	150	91·78	+10·60	A regular spot. Occasional companions.
290	2559	517	June 12	−53·8	June 23	+85·0	12	27	231	35·45	+25·14	A small regular spot, becoming a fine variable stream.
	2584	518	July 8	−78·0	July 20	+78·8	13	17	91	26·11	+28·00	A regular spot, with a small companion on July 9.
291	2560	517	June 13	−32·9	June 22	+81·5	10	44	432	47·28	−30·98	A small scattered group increasing to a straight stream.
	2583	518	July 7	−81·3	July 19	+68·3	13	197	829	33·12	−31·32	A large composite spot, with small companions irregularly placed.
	2615	519	Aug. 5	−76·0	Aug. 16	+58·5	12	42	277	16·53	−30·37	A large irregular compound spot undergoing changes. Occasional small companions.
292	2578*	518	July 8	+65·2	July 8	+65·2	1	0	21	171·90	+10·70	Two small spots.
	2598	519	July 25	−71·4	Aug. 5	+80·0	12	72	452	174·77	+13·33	A large regular spot, with a diminishing train.
	2636	520	Aug. 20	−82·9	Sept. 1	+73·4	13	16	132	173·95	+12·78	A regular spot, with occasional small companions.
293	2578	518	June 30	−70·1	July 11	+80·6	12	26	188	148·66	+14·36	A straggling group of small spots, increasing to a stream.
	2599	519	July 25	−83·2	Aug. 6	+78·7	13	78	463	160·99	+15·15	A large spot, with elongated nucleus which divides.
294	2580	518	July 3	−72·3	July 14	+66·1	12	75	474	97·57	−22·89	A large regular but variable spot, with a diminishing train.
	2612	519	July 31	−74·0	Aug. 11	+72·7	12	56	303	91·18	−22·04	A large regular spot.
	2644	520	Aug. 27	−84·0	Sept. 8	+71·7	13	31	178	82·15	−22·75	A regular spot, with a small companion on Aug. 28 and 29.
	2679	521	Sept. 26	−52·7	Oct. 6	+76·5	11	80	520	76·17	−23·41	Two small spots, greatly increasing. Numerous small companions.
	2711	522	Oct. 23	−61·7	Oct. 26	−18·8	4	0	9	74·20	−22·60	A close pair of very small faint spots, not seen on Oct. 24 and 25. *Note.*—2711 is intermittent, not being seen on Oct. 24 and 25. Also note that 2679 is possibly only a revival of 2644.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1892.	°	1892.	°				°	°	
295	2586	519	July 15	−75·4	July 26	+75·2	12	40	236	301·83	− 9·37	A large regular spot, with sometimes a small companion.
	2623	520	Aug. 11	−73·2	Aug. 22	+71·0	12	10	62	303·22	− 6·99	A regular spot.
296	2587	518	July 17	+33·0	July 20	+79·5	4	22	143	23·85	+14·85	Two spots, with occasional small companions.
	2614	519	Aug. 5	−67·1	Aug. 10	+ 1·1	6	0	9	30·08	+13·07	A small spot.
297	2596	519	July 23	+11·5	July 27	+69·0	5	10	63	281·20	−20·50	A straggling group, becoming two small clusters.
	2626	520	Aug. 13	−69·3	Aug. 24	+77·5	12	27	234	282·26	−18·33	A large irregular spot, with diminishing train.
298	2628	520	Aug. 15	−55·4	Aug. 23	+50·3	9	7	61	269·22	−24·93	An irregular variable spot, with train.
	2661	521	Sept. 11	−62·6	Sept. 20	+68·1	10	1	28	270·44	−25·28	A few faint spots barely visible on Sept. 14; later a small stream. *Note.*—Possibly 2628 dies out before reaching the W. limb and 2661 [is a revival only.
299	2648	520	Sept. 1	−59·9	Sept. 11	+72·8	11	20	124	39·51	−19·62	A large spot, with diminishing train.
	2680	521	Sept. 26	−80·6	Oct. 7	+60·9	12	22	282	46·26	−21·38	A very large irregular variable group.
300	2653	521	Sept. 7	−78·4	Sept. 18	+77·5	12	53	426	308·33	+11·92	An irregular variable and unstable group.
	2689	522	Oct. 4	−63·8	Oct. 4	−63·8	1	4	22	320·60	+10·60	Two small spots surrounded by dense faculæ. [spots.
301	2685	521	Oct. 2	−50·8	Oct. 12	+81·3	11	112	675	4·53	+14·87	One small spot. On Oct. 3 a great outburst, forming three large
	2715	522	Oct. 26	−80·7	Nov. 3	+26·6	9	21	108	13·68	+14·58	A large composite spot, diminishing and throwing off fragments.
302	2698	522	Oct. 10	+ 7·7	Oct. 15	+70·3	6	6	55	312·73	+ 7·90	Three unstable spots, not seen on Oct. 12 and 13. By Oct. 15 a
	2723	523	Oct. 31	−77·1	Nov. 3	−33·5	4	2	25	315·70	+ 8·68	A few small spots in an irregular group. [large spot. *Note.*—2698 is intermittent, not being seen on Oct. 12 and 13. [16.
303	2703	522	Oct. 14	−79·8	Oct. 26	+77·9	13	9	77	167·37	+ 8·12	A regular spot until Oct. 19. A variable stream appears by Oct.
	2736	523	Nov. 12	−58·9	Nov. 21	+67·3	10	13	82	174·10	+ 8·59	A pair of small spots, becoming an irregular variable stream.
304	(2684	521	Oct. 2	−27·5	Oct. 9	+70·4	8	15	99	27·67	−20·60)	A few small faint spots not visible on Oct. 3, afterwards a scattered
	2717	522	Oct. 28	−42·1	Nov. 6	+82·0	10	31	158	29·48	−21·00	Two small spots, increasing to a stream. [stream.
	2745	523	Nov. 21	−76·7	Dec. 2	+68·9	12	66	325	32·50	−20·62	Four large spots. *Note.*—2684 is intermittent, not being seen on Oct. 3. Note also that 2717 is probably only a revival of 2684.
305	2725	523	Nov. 2	−29·3	Nov. 9	+67·3	9	11	66	334·73	− 8·58	An irregular group, becoming a diminishing stream.
	2755	524	Nov. 26	−65·6	Dec. 3	+31·1	8	8	53	344·48	− 8·56	A few small spots in a short variable stream.
306	2726	523	Nov. 2	−74·3	Nov. 13	+75·5	12	60	320	287·69	+ 8·18	A small faint spot, increasing to a stream of normal type.
	2760	524	Nov. 29	−78·0	Dec. 10	+70·8	12	14	99	291·48	+ 6·60	A regular spot, with occasional small companions.
307	2730	523	Nov. 6	−18·6	Nov. 13	+80·9	8	49	273	294·50	+20·01	Two or three small variable spots.
	2759	524	Nov. 29	−75·9	Dec. 8	+43·5	10	4	27	292·94	+19·62	A regular spot.
308	2734	523	Nov. 11	+ 4·8	Nov. 16	+75·8	6	2	39	251·43	−21·25	A few very small faint spots in an irregular group.
	2770	524	Dec. 2	−72·0	Dec. 12	+55·4	11	36	185	253·05	−22·16	Two regular spots, with occasional small companions.
309	2740	523	Nov. 17	+34·2	Nov. 18	+45·4	2	6	47	198·85	+19·75	A small irregular group of spots.
	2779	524	Dec. 7	−61·1	Dec. 10	−21·9	4	3	29	198·05	+20·43	A regular spot, with an occasional small companion. *Note.*—Possibly 2740 dies out before reaching the W. limb and 2779 is a revival only.
310	2746	523	Nov. 23	+54·2	Nov. 24	+68·4	2	13	79	142·45	+13·70	A very small spot, becoming a large regular spot. A distant follower.
	2782	524	Dec. 9	−82·3	Dec. 18	+35·2	10	27	169	152·18	+13·44	A regular spot, sometimes followed by a train.
311	2749	523	Nov. 24	−69·6	Dec. 5	+80·5	12	49	262	6·83	−15·63	A large regular spot, with an occasional small companion.
	2787	524	Dec. 21	−71·5	1893. Jan. 1	+73·0	12	23	149	6·08	−17·42	Two regular spots, developing into a long irregular stream.
	2821	525	1893. Jan. 18	−68·2	Jan. 18	−68·2	1	0	8	2·40	−15·70	A very small spot in a large mass of faculæ.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
312	2773	524	1892. Dec. 3	−57°·1	1892. Dec. 12	+69°·4	10	42	246	260°·38	−11°·45	Two small spots, increasing to three spots, with small companions.
	2794	525	Dec. 28	−76·5	1893. Jan. 4	+16·7	8	3	24	271·59	−12·68	Two small regular spots, with small companions.
313	2778	524	1892. Dec. 6	−69·6	1892. Dec. 17	+70·8	12	13	80	206·78	+19·27	A regular spot, becoming a curved variable stream.
	2806	525	1893. Jan. 2	−69·5	1893. Jan. 9	+21·4	8	3	21	209·65	+22·31	A regular spot.
314	2781	524	1892. Dec. 9	+38·3	1892. Dec. 12	+79·9	4	11	126	273·18	−27·83	A regular spot; by Dec. 10 there is an outburst of a close stream.
	2795	525	Dec. 28	−75·5	1893. Jan. 8	+74·1	12	13	95	271·47	−26·13	A number of small spots in a scattered variable group.
	2826	526	1893. Jan. 24	−78·7	Feb. 6	+83·8	14	139	899	269·78	−21·76	A long broad stream of irregular spots.
	2857	527	Feb. 21	−76·2	Mar. 5	+81·9	13	21	127	266·09	−17·18	A stream of small spots inclined to equator. The middle spot is largest. *Note.*—2826 is doubtful. This series may perhaps consist only of 2781 and 2795, but examination of the Daily Results seems to indicate that all are outbursts from different parts of the same region.
315	2789	524	1892. Dec. 23	+30·3	1892. Dec. 24	+47·9	2	5	49	83·15	+ 8·15	A few small spots forming a stream whose rear spot is the largest.
	2815	525	1893. Jan. 10	−82·5	1893. Jan. 22	+77·2	13	23	125	91·95	+ 9·14	A regular spot, with two small companions on Jan. 18. *Note.*—Perhaps 2815 is only a revival of 2789.
316	2811	525	1893. Jan. 6	+24·2	1893. Jan. 10	+76·6	5	28	177	249·20	+23·90	Two very small spots, greatly increasing and becoming regular.
	2831	526	Jan. 26	−81·8	Feb. 6	+66·6	12	13	84	245·03	+24·87	A regular spot, with occasional small companions.
317	2819	525	Jan. 16	−80·3	Jan. 27	+69·3	12	120	772	14·94	−13·08	A very large group of irregular variable spots.
	2846	526	Feb. 12	−75·2	Feb. 23	+74·5	12	38	241	28·20	−14·51	A very large spot, with straggling nebulous train.
	2880	527	Mar. 10	−73·9	Mar. 17	+16·4	8	4	33	40·90	−13·09	A few variable spots. *Note.*—2819 breaks up into two groups, 2846 and 2847, in the next rotation.
318	2819	525	Jan. 16	−80·3	Jan. 27	+69·3	12	120	772	14·94	−13·08	A very large group of irregular spots all undergoing change.
	2847	526	Feb. 12	−77·2	Feb. 23	+76·7	12	15	123	25·45	−10·38	A regular spot, with companions.
	2881	527	Mar. 10	−75·8	Mar. 21	+74·0	12	82	474	42·00	− 8·16	A very large regular spot, followed by an ill-defined cluster.
	2914	528	Apr. 5	−81·6	Apr. 18	+82·3	14	60	390	44·56	− 8·46	Two large regular spots, with companions.
	2959	529	May 3	−80·8	May 10	+16·3	8	6	24	45·86	− 7·54	A small regular spot.
319	2820	525	Jan. 18	−12·1	Jan. 23	+60·5	6	3	24	62·63	−16·80	A faint group of scattered spots.
	2843	526	Feb. 9	−70·0	Feb. 20	+80·6	12	34	167	71·53	−17·88	A large regular spot, with an occasional small companion.
320	2825	526	Jan. 24	−33·6	Feb. 2	+75·4	10	40	240	316·07	−17·30	A faint but increasing group of scattered small spots.
	2851	527	Feb. 16	−82·9	Feb. 23	+ 7·2	8	3	27	322·73	−16·81	A few variable unstable spots.
321	2829	526	Jan. 26	−43·0	Feb. 4	+80·1	10	78	393	282·16	+17·18	A large spot with a train.
	2854	527	Feb. 20	−67·5	Feb. 21	−58·9	2	2	11	282·95	+15·25	A small nebulous spot.
322	2835	526	Feb. 1	−31·8	Feb. 9	+70·0	9	5	38	211·93	−22·97	Very small spots in an irregular group; very faint on Feb. 3 and 4.
	2861	527	Feb. 24	−88·5	Mar. 8	+79·0	12	49	262	217·26	−20·71	A large regular spot, with occasional companions.
	2899	528	Mar. 25	−66·2	Apr. 5	+79·8	12	39	316	213·99	−19·99	A few small spots, developing into a fine stream.
	2935	529	Apr. 21	−71·8	Apr. 25	−24·4	5	1	32	206·56	−19·52	A few variable spots.
323	2853	527	Feb. 18	−79·1	Mar. 1	+72·4	12	68	393	300·36	+15·28	A fine stream of large irregular spots.
	2889	528	Mar. 17	−78·4	Mar. 27	+52·0	11	14	64	304·23	+13·80	A regular spot, with small companions.
324	2856	527	Feb. 21	−55·1	Mar. 3	+77·3	11	64	418	290·10	+ 9·37	A few faint spots. After Feb. 23 a large regular spot with train.
	2892	528	Mar. 18	−74·0	Mar. 30	+82·6	13	56	364	291·66	+ 9·72	A fine stream.
325	2860	527	Feb. 24	+ 2·0	Feb. 28	+57·1	5	4	35	303·70	+ 8·92	An irregular stream whose final spot is the largest.
	2890	528	Mar. 17	−79·7	Mar. 22	−10·9	6	1	22	303·67	+ 8·82	A few very small spots.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1893.	°	1893.	°				°	°	
326	2872	527	Mar. 4	−36·3	Mar. 11	+69·0	7	3	36	163·79	−17·06	A very small spot, which becomes an irregular stream.
	2906	528	Mar. 27	−72·5	Apr. 7	+76·1	12	28	185	181·59	−14·37	A large regular spot, advancing in longitude, and breaking up
	2939	529	Apr. 22	−77·2	May 3	+62·3	12	18	107	189·93	−14·38	A diminishing regular spot, with occasional small companions.
327	2875	527	Mar. 8	+57·5	Mar. 10	+78·0	3	12	86	196·40	−23·63	Two regular spots, with occasional companions.
	2902	528	Mar. 26	−68·5	Mar. 26	−68·5	1	0	11	199·40	−21·30	A small faint spot.
328	2893	528	Mar. 19	−84·0	Mar. 31	+74·7	13	59	373	274·94	+23·72	A very large regular spot, with occasional companions.
	2930	529	Apr. 17	−66·6	Apr. 25	+39·7	9	14	104	268·79	+24·87	A regular diminishing spot. Fresh spots spring up by April 24.
329	2896	528	Mar. 23	+ 4·1	Mar. 29	+80·4	7	27	191	307·91	−14·19	A very small faint spot, becoming a stream of normal type.
	2924	529	Apr. 13	−69·4	Apr. 16	−32·7	4	12	55	316·80	−15·35	A regular spot.
330	2919	528	Apr. 8	−36·8	Apr. 16	+68·5	9	26	152	55·50	−28·14	A very small spot, becoming an irregular stream, whose leader [advances.
	2956	529	May 2	−82·9	May 15	+82·7	14	35	282	52·24	−27·06	A long irregular stream, whose leader recedes. New spots form in [advance.
331	2923	529	Apr. 12	−72·0	Apr. 23	+77·8	12	60	360	331·63	−14·66	A large regular spot, with train from April 12–16.
	2964	530	May 9	−73·0	May 18	+49·3	10	14	75	331·01	−12·92	A regular spot, with small companions occasionally to the north.
332	2938	529	Apr. 22	−69·3	May 2	+70·0	11	43	266	204·60	+ 8·59	Two small spots, becoming a long stream.
	2976	530	May 18	−61·1	May 19	−49·9	2	2	6	220·75	+ 9·60	A very small spot.
333	2941	529	Apr. 24	−80·2	May 6	+76·2	13	35	224	158·72	+22·68	A large diminishing spot, with irregular train. A new spot becomes [large and regular.
	2982	530	May 22	−75·9	June 1	+53·7	11	53	355	156·35	+23·68	Two small spots in faculæ, becoming an irregular stream.
334	2948	529	Apr. 27	−65·1	May 8	+79·9	12	58	362	136·78	−12·28	A few small spots, becoming a stream, with a very large spot north.
	2984	530	May 23	−75·5	May 25	−47·7	3	0	8	144·03	−10·37	A very small spot.
335	2951	529	Apr. 29	−81·0	May 11	+76·6	13	31	201	93·78	−19·42	A regular spot, with an occasional small companion.
	2992	530	May 26	−82·4	June 8	+82·8	14	59	421	91·01	−20·78	A very large composite spot, with a short train.
336	(2884	527	Mar. 16	+49·8	Mar. 16	+49·8	1	0	12	86·30	−18·70)	Two very small spots.
	(2913	528	Apr. 3	−78·9	Apr. 12	+43·4	10	5	42	81·74	−20·58)	A nebulous spot, sometimes with a train.
	2953	529	May 1	−71·8	May 10	+45·8	10	13	94	77·47	−21·72	A regular spot, with some small companions.
	2993	530	May 28	−72·6	June 9	+82·9	13	81	633	77·21	−21·01	A very large composite spot, with very irregular train.
	3034	531	June 25	−64·9	June 30	+ 2·1	6	6	30	77·35	−19·53	A regular diminishing spot, sometimes with a train. *Note.*—Probably 2913 is a revival of 2884, and 2953 of 2913, as both 2913 and 2953 diminish as they approach the W. limb, and are not seen close to it.
337	2965	529	May 11	+48·0	May 13	+78·1	3	0	30	66·30	+11·77	One or two small spots.
	2994	530	May 28	−74·6	June 6	+44·4	10	13	63	76·96	+10·52	A regular spot, steadily diminishing.
338	2967	530	May 12	−52·0	May 22	+84·4	11	29	277	310·87	−12·91	An irregular stream, becoming continuous. Two large spots on [May 21.
	3005	531	June 5	−83·4	June 17	+75·0	13	39	247	321·64	−12·54	A very large regular spot, with occasional small companions.
	3047	532	July 3	−73·9	July 14	+69·9	12	33	184	322·38	−11·95	A large regular spot, which divides; occasional companions.
339	2980	530	May 22	−26·8	May 30	+80·8	9	19	145	208·54	+14·66	A pair of spots, increasing to a stream of normal type.
	3016	531	June 14	−73·4	June 19	−10·2	6	7	32	213·03	+16·58	A regular spot, dying out by June 19. Two small spots take its [place.
340	2996	530	May 31	−71·4	June 11	+77·6	12	27	174	41·80	+17·74	A large regular spot, with a curved train.
	3036	531	June 27	−73·9	July 6	+46·0	10	15	84	40·12	+18·94	A very irregular group of very variable spots.
341	3002	530	June 4	−52·6	June 13	+70·4	10	11	61	9·45	−15·93	A regular spot, with a short diminishing train.
	3042	531	June 29	−79·4	July 11	+75·6	13	41	276	6·67	−18·10	A very large regular spot, which divides into two by July 10.
342	3006	530	June 7	+12·0	June 11	+64·0	5	8	57	30·20	+17·82	A scattered group of small variable spots.
	3040	531	June 28	−75·6	June 28	−75·6	1	4	15	26·50	+19·90	A small spot.
343	3009	531	June 10	−30·7	June 18	+73·8	9	11	96	309·65	− 9·10	An irregularly scattered group, not seen on June 15. Fresh outburst [on June 6.
	3050	532	July 4	−73·8	July 11	+18·4	8	12	102	308·34	− 9·21	A scattered group of small nebulous spots. *Note.*—3009 is intermittent, not being seen on June 15.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1893.	°	1893.	°				°	°	
344	3010	531	June 10	−37·9	June 17	+61·0	8	6	19	305·91	−17·71	One or two small spots.
	3046	532	July 2	−82·2	July 15	+76·4	14	146	1000	320·85	−16·24	A large composite spot, followed by a stream which becomes of the normal type.
	3097	533	July 30	−79·5	Aug. 10	+68·2	12	29	159	322·06	−17·91	A large variable spot. Occasional attendants.
												Note.—3010 certainly represents the following spots of 3046.
345	3015	531	June 13	−13·9	June 20	+76·2	8	45	408	287·03	−19·61	A straggling stream, whose leader becomes large and regular.
	3054	532	July 6	−71·5	July 17	+73·5	12	38	270	283·56	−20·02	A large regular spot, with train on *n.f.* side.
	3110	533	Aug. 3	−66·3	Aug. 5	−41·8	3	1	10	278·00	−22·77	A small spot.
346	3018	531	June 15	−11·4	June 22	+79·7	8	4	25	262·09	+13·64	A small spot. A short stream forms round it.
	3064	532	July 8	−68·6	July 12	−18·3	5	11	41	259·16	+14·26	A single spot, rapidly diminishing.
347	3020	531	June 17	−24·7	June 25	+78·5	8	33	238	223·88	+16·99	Small spots on a curved stream, which straightens later.
	3071	532	July 11	−73·5	July 22	+73·3	12	36	234	216·44	+17·24	A composite spot, with small companions. Many changes.
	3116	533	Aug. 6	−81·5	Aug. 17	+70·4	12	20	121	227·96	+16·81	A pair of large spots, of which the following spot breaks up.
348	3031	531	June 23	−27·3	July 1	+73·8	8	16	131	139·83	−30·51	An irregular stream, undergoing rapid changes.
	3075	532	July 18	−58·2	July 21	−15·3	4	5	32	140·58	−31·30	Two or three small spots.
349	3048	532	July 3	−79·0	July 12	+45·6	10	5	33	320·19	− 6·45	A small regular spot.
	3102	533	July 31	−66·8	Aug. 5	+ 5·4	6	2	12	321·80	− 5·68	A short stream, not seen on Aug. 3.
												Note.—3102 is intermittent, not being seen on 1893 Aug. 3. Also perhaps 3048 dies before reaching W. limb and 3102 is only a revival.
350	3059	532	July 7	−27·6	July 15	+77·5	9	79	502	315·69	+11·60	A large stream of normal type.
	3098	533	July 30	−80·9	Aug. 11	+83·2	13	13	82	322·39	+10·33	A regular spot, with a small companion on July 31.
351	3067	532	July 9	−63·6	July 20	+83·7	12	56	398	250·52	+16·03	A curved stream, becoming one of normal type.
	3112	533	Aug. 4	−84·7	Aug. 15	+63·9	12	20	145	245·56	+16·94	A large regular spot, with occasionally a very small companion.
352	3073	532	July 14	+20·4	July 16	+50·8	3	7	20	273·37	−14·23	A small spot, with followers on July 14.
	3108	533	Aug. 2	−78·5	Aug. 7	−13·6	6	4	18	279·78	−14·26	A diminishing spot, not seen on Aug. 6. Occasional companions.
												Note.—3108 is intermittent, not being seen on Aug. 6.
353	3078	532	July 19	−77·3	July 31	+82·5	13	29	181	108·57	−21·50	A large regular spot, with occasional small companions.
	3135	533	Aug. 16	−73·6	Aug. 26	+60·0	11	43	309	101·72	−18·86	A large irregular spot, with straggling unstable train.
	3181	534	Sept. 12	−70·1	Sept. 15	−32·1	4	6	37	105·28	−19·13	An ill-defined spot.
354	3083	532	July 20	−80·1	July 30	+48·1	11	13	110	87·33	−11·39	A large spot, which breaks up. Not seen on July 29.
	3137	533	Aug. 17	−71·7	Aug. 28	+76·3	12	37	225	90·13	− 9·78	A large regular spot, with occasional companions.
												Note.—3083 is intermittent, not being seen on July 29 and perhaps dies out before reaching the W. limb, so 3137 may be only a revival.
355	3106	533	Aug. 2	−65·6	Aug. 13	+79·3	12	252	1594	292·64	−17·55	Small scattered spots, becoming two very large spots, with train.
	3156	534	Aug. 28	−82·4	Sept. 9	+74·1	13	81	556	291·80	−19·45	A very large regular spot, shedding small spots on its *s.f.* side.
356	3107	533	Aug. 2	−66·5	Aug. 13	+76·4	12	82	481	294·64	+15·61	A few spots, becoming a straight stream of normal type.
	3155	534	Aug. 28	−73·3	Sept. 9	+83·6	13	126	560	301·72	+14·15	A very large regular spot. Occasional companions.
	3203	535	Sept. 24	−77·1	Oct. 6	+77·6	13	70	313	300·63	+12·81	A large regular spot, with occasional companions.
	3250	536	Oct. 21	−83·6	Nov. 2	+71·2	13	37	188	298·50	+13·81	A regular spot, with stream on *sp.* side from Oct. 23–30.
357	3124	533	Aug. 11	+22·8	Aug. 15	+74·7	5	24	190	261·82	−28·54	A short stream.
	3165	534	Sept. 2	−50·3	Sept. 4	−22·7	3	1	10	259·67	−29·57	A small spot.
												Note.—Perhaps 3165 is a revival only of 3124.
358	3139	533	Aug. 18	−37·4	Aug. 26	+64·1	9	26	126	109·04	−28·14	An irregular diminishing stream whose leader is largest.
	3184	534	Sept. 13	−56·4	Sept. 15	−31·3	3	2	8	105·80	−28·47	A small spot.
359	3143	533	Aug. 19	−84·5	Aug. 31	+79·3	13	18	90	52·40	+ 9·45	Two spots moving apart.
	3186	534	Sept. 15	−77·0	Sept. 26	+71·6	12	96	479	61·08	+ 8·36	A very large unstable composite spot, with nebulous companions.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1893.	°	1893.	°				°	°	
360	3151	533	Aug. 25	+74·8	Aug. 25	+74·8	1	4	35	129·30	+ 6·70	A spot closely surrounded by dense faculæ.
	3176	534	Sept. 10	−70·0	Sept. 16	+ 5·8	7	7	39	130·60	+ 8·11	A regular spot, with very small companion on Sept. 12–14.
361	3154	534	Aug. 28	−75·7	Sept. 9	+80·0	13	135	938	301·78	−10·43	A fine broad stream of normal type.
	3202	535	Sept. 24	−72·0	Oct. 5	+72·0	12	17	104	305·54	−11·28	A large regular spot, with occasional small companions.
362	3173	534	Sept. 7	−72·8	Sept. 19	+83·5	13	93	589	169·42	− 8·73	A very large spot, with a fine train.
	3216	535	Oct. 4	−70·6	Oct. 15	+73·2	12	21	106	176·17	− 8·06	A regular spot, slowly diminishing.
	3261	536	Oct. 30	−77·3	Nov. 9	+53·5	11	14	66	184·79	− 7·28	A diminishing nebulous spot, receding in longitude.
363	3191	534	Sept. 20	−23·0	Sept. 28	+81·1	9	20	138	50·44	+12·41	One or two small spots, increasing to a stream.
	3232	535	Oct. 12	−82·3	Oct. 24	+72·0	13	58	316	53·13	+11·77	Two large spots, with irregular train.
	3272	536	Nov. 11	−52·1	Nov. 20	+74·0	10	22	117	59·27	+10·63	A confused nebulous cluster, becoming an irregular stream. *Note.*—Possibly 3272 is a revival only of 3232.
364	3206	535	Sept. 27	−16·4	Oct. 4	+75·3	8	99	598	321·95	+ 7·58	Two streams, enclosing oval space.
	3246	536	Oct. 19	−79·1	Oct. 30	+68·2	12	33	178	329·91	+ 7·81	Two spots, increasing to a long irregular stream.
365	3227	535	Oct. 10	−85·6	Oct. 22	+73·2	13	46	267	85·62	+23·62	A large regular spot, with occasional small companions.
	3266	536	Nov. 7	−76·7	Nov. 10	−40·0	4	5	26	80·60	+22·85	A small spot.
366	3233	535	Oct. 13	+44·7	Oct. 15	+71·2	3	3	36	174·87	−10·77	A few very small spots in a short stream.
	3262	536	Oct. 31	−71·6	Nov. 1	−59·4	2	0	22	179·30	−10·70	A small spot.
(366*)	3243	536	Oct. 18	−80·0	Oct. 28	+48·7	11	41	258	339·86	−20·37	A large spot, followed by large irregular nebulous spot, which [breaks up.
	3283	537	Nov. 17	−57·9	Nov. 25	+54·1	9	8	56	332·82	−20·06	A very small spot, increasing. Occasional followers. *Note.*—3243 grows very small and probably dies before reaching the W. Limb, so that 3283 may be a revival only.
367	3244	536	Oct. 18	−81·3	Oct. 30	+74·8	13	143	724	338·86	− 6·80	A very large spot, with a train.
	3280	537	Nov. 15	−76·3	Nov. 25	+60·3	11	11	60	339·96	− 5·58	A regular and diminishing spot, not seen on Nov. 24. *Note.*—3280 is intermittent, not being seen on Nov. 24.
368	3256	536	Oct. 24	− 7·1	Oct. 30	+76·4	7	28	153	338·40	+18·33	Faint spots, increasing to a large composite spot, with train.
	3287	537	Nov. 18	−46·2	Nov. 27	+82·5	10	66	286	332·34	+19·43	A small nebulous increasing spot, with unstable straggling train. [19.
	3304	538	Dec. 13	−70·5	Dec. 22	+47·6	10	13	55	334·95	+18·79	A large regular but diminishing spot. Very small companion on Dec. *Note.*—3287 is not seen close to the E. limb, so possibly it is a revival only of 3256.
369	3271	536	Nov. 11	+41·0	Nov. 13	+74·2	3	12	87	151·03	+18·57	A pair of spots that move rapidly apart.
	3295	537	Nov. 29	−81·0	Dec. 11	+80·1	13	74	519	150·09	+19·35	A very large spot, with a large nebulous area near. [stream.
	3328	538	Dec. 26	−77·8	1894. Jan. 2	+13·9	6	29	129	154·03	+17·62	A large spot, breaking up by Dec. 28 to an irregular diminishing
			1893.		1893.							
370	3281	537	Nov. 16	−80·4	Nov. 28	+79·7	13	161	1234	322·05	− 5·10	A very large irregular composite variable spot.
	3305	538	Dec. 13	−76·8	Dec. 25	+82·9	13	64	268	330·17	− 0·79	A large regular spot.
	3352	539	1894. Jan. 9	−77·0	1894. Jan. 20	+74·0	12	19	135	335·93	− 2·03	A large regular stable spot, advancing in longitude.
			1893.		1893.							
371	3290	537	Nov. 25	−63·3	Dec. 5	+72·7	11	72	465	220·18	+18·19	A curved stream, becoming one of normal type.
	3317	538	Dec. 20	−81·2	Dec. 26	− 4·7	7	22	144	230·41	+18·79	An irregular group of small spots, breaking up.
372	3293	537	Nov. 28	− 2·5	Dec. 3	+62·0	6	10	68	241·22	+18·38	A small nebulous spot, preceded by a short irregular stream.
	3321	538	Dec. 22	−48·3	Dec. 29	+48·9	8	7	44	241·50	+18·56	Irregularly scattered small spots, mostly unstable. *Note.*—3321 is not seen close to E. limb, and perhaps is a revival [only of 3293.
373	3302	537	Dec. 10	−43·3	Dec. 19	+84·8	10	53	323	45·78	−15·72	A pair of small spots, increasing to a straggling stream.
	3345	538	1894. Jan. 3	−80·4	1894. Jan. 15	+79·5	13	45	232	50·85	−14·21	A large regular spot, preceded by a straight stream.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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374	3318	538	1893. Dec. 21	−75°·8	1893. Dec. 30	+45°·2	10	62	331	221°·32	− 3°·54	A broad stream.
	3367	539	1894. Jan. 17	−74·5	1894. Jan. 28	+78·8	12	32	184	233·84	− 3·13	A regular spot, with occasional small companion. *Note.*—No photographs are available for 1893 Dec. 31 or 1894 Jan. 1.
375	3322	538	1893. Dec. 23	+31·8	1893. Dec. 27	+84·6	5	22	268	305·88	+11·08	Small spots in an irregular stream.
	3356	539	1894. Jan. 11	−71·6	1894. Jan. 23	+84·1	13	51	296	309·55	+11·71	A large regular spot, with an irregular stream.
	3396	540	Feb. 7	−78·3	Feb. 19	+81·3	13	25	117	308·80	+11·05	A regular spot, sometimes followed by companions.
376	3323	538	1893. Dec. 23	−79·8	Jan. 5	+84·8	12	88	569	190·54	−12·12	A large regular spot, with large p.m. in longitude, followed by nebulous areas.
	3370	539	1894. Jan. 19	−73·1	Jan. 25	+ 1·2	7	7	20	201·61	− 9·81	A small regular spot.
377	3325	538	1893. Dec. 25	−80·7	1894. Jan. 6	+81·7	11	70	346	168·88	− 7·50	A large regular spot, advancing in longitude after Dec. 29. Small companions.
	3372	539	1894. Jan. 21	−80·0	Feb. 2	+79·3	13	22	115	173·45	− 6·90	A large spot, followed by a smaller, both diminishing.
(377*)	3329	538	1893. Dec. 26	−79·5	Jan. 7	+84·4	11	63	312	155·82	− 7·93	A large spot, which breaks up. Small companions.
	3380	539	1894. Jan. 25	−42·9	Feb. 3	+82·1	10	15	97	158·79	− 8·40	Two small spots, becoming a large spot, which advances. *Note.*—3380 is not seen near E. limb, and is probably a revival only of 3329.
378	3336	538	1893. Dec. 30	+60·3	1893. Dec. 30	+60·3	1	22	114	240·00	+ 1·10	A short stream.
	3366	539	1894. Jan. 16	−76·8	1894. Jan. 20	−20·2	5	6	32	243·25	− 1·73	Two or three small spots irregularly scattered, not seen on Jan. 19. *Note.*—3366 is intermittent, not being seen on 1894 Jan. 19. No photographs are available for 1893 Dec. 31 or 1894 Jan. 1.
379	3354	539	Jan. 10	−75·1	Jan. 22	+83·2	13	105	740	322·34	−13·07	A very large composite spot, with train.
	3394	540	Feb. 6	−79·3	Feb. 13	+13·9	8	9	58	322·30	−15·60	A regular spot, with very small companion on Feb. 10.
380	3360	539	Jan. 14	−77·7	Jan. 26	+84·9	13	73	382	267·36	−14·88	A large spot, with very irregular train.
	3401	540	Feb. 10	−82·9	Feb. 22	+80·1	13	24	129	267·52	−14·62	A large regular spot, with a very small companion on Feb. 17.
381	3371	539	Jan. 20	− 3·2	Jan. 26	+79·9	7	63	305	262·36	+15·46	A few small faint spots, becoming a stream of normal type.
	3402	540	Feb. 11	−71·4	Feb. 22	+78·5	12	33	194	265·42	+16·94	A large regular spot, with occasional small companion.
	3443	541	Mar. 10	−75·8	Mar. 20	+55·5	11	10	55	263·99	+16·80	A regular spot, with small companion on March 16.
382	3379	539	Jan. 25	+ 7·9	Jan. 29	+57·9	5	15	94	203·48	−29·92	A stream, whose most southerly member recedes.
	3408	540	Feb. 15	−81·4	Feb. 26	+61·0	12	35	210	200·92	−26·47	A very large composite spot, breaking up into small and unstable spots. *Note.*—3379 is not seen close to the W. limb.
383	3386	539	Feb. 1	+31·9	Feb. 5	+86·7	5	16	123	138·60	+ 3·70	An irregular and unstable group.
	3416	540	Feb. 19	−76·9	Feb. 28	+40·1	10	14	70	151·49	+ 3·84	A regular and diminishing spot, with occasional small companions.
384	3392	540	Feb. 5	−81·5	Feb. 16	+65·1	12	22	168	333·21	−10·32	An irregular variable group. Only one spot is left by Feb. 14.
	3434	541	Mar. 5	−63·9	Mar. 5	−63·9	1	0	16	339·20	− 8·90	A small spot.
385	3409	540	Feb. 16	+52·3	Feb. 17	+66·8	2	2	12	323·80	−18·95	A small spot.
	3435	541	Mar. 5	−78·6	Mar. 5	−78·6	1	0	20	324·50	−18·70	A small spot.
386	3413	540	Feb. 18	−85·4	Mar. 3	+79·0	14	34	205	152·14	−25·94	A large regular spot, with occasional small companions.
	3449	541	Mar. 19	−77·0	Mar. 24	−12·5	6	2	13	143·43	−25·72	A small and diminishing spot. Two small spots precede it on Mar. 23.
387	3414	540	Feb. 19	+32·7	Feb. 22	+76·0	4	20	92	261·05	− 4·35	A small spot, becoming a short stream, whose leader advances.
	3442	541	Mar. 10	−71·7	Mar. 21	+78·7	12	19	101	270·61	− 4·47	A large spot, with occasional small companion.
388	3429	540	Feb. 28	−10·6	Mar. 5	+62·9	6	11	39	104·05	−19·05	An irregular stream, whose leader alone remains by March 4.
	3455	541	Mar. 23	−64·5	Mar. 23	−64·5	1	0	13	101·20	−19·50	A small spot.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1894.	°	1894.	°				°	°	
389	3445	541	Mar. 12	+17·8	Mar. 16	+70·4	5	4	27	327·44	−15·70	A few unstable spots, becoming a short stream.
	3471	542	Apr. 1	−74·6	Apr. 13	+84·1	13	25	135	335·65	−15·23	A regular spot, breaking up and becoming very variable.
390	3460	541	Mar. 27	−64·1	Apr. 7	+82·9	12	73	397	53·44	+ 9·79	An irregular stream, whose largest spot advances.
	3492	542	Apr. 22	−75·8	May 4	+83·2	13	65	332	54·85	+11·90	A large regular spot, with occasional very small companions.
391	3464	541	Mar. 28	−64·9	Apr. 8	+70·5	12	159	926	33·25	+21·46	Two very large irregular variable spots, with small companions.
	3494	542	Apr. 25	−53·8	Apr. 25	−53·8	1	0	2	36·50	+20·30	A very small spot.
392	3465	541	Mar. 28	−78·8	Apr. 9	+80·0	13	26	139	21·88	+14·60	A large regular spot, with occasional small companions.
	3495	542	Apr. 25	−69·6	May 3	+30·0	9	12	55	19·68	+15·53	A regular spot.
393	3468	541	Mar. 30	+73·1	Mar. 31	+82·4	2	11	60	145·85	−12·90	A pair of small spots, first seen near the W. Limb.
	3486	542	Apr. 14	−86·5	Apr. 26	+75·1	13	54	270	152·40	−13·29	A large regular spot, with occasional small companions.
	3520	543	May 12	−80·4	May 24	+83·4	13	169	920	148·11	−12·69	A very large irregular variable group.
394	3469	541	Mar. 31	+82·0	Mar. 31	+82·0	1	0	91	144·00	− 6·60	A pair of faint spots in the midst of bright faculæ.
	3487	542	Apr. 15	−70·2	Apr. 19	−19·7	5	5	16	150·90	− 6·14	A small regular spot, with an occasional small companion.
395	3473	542	Apr. 3	−17·6	Apr. 11	+79·2	9	29	168	360·93	−27·41	A pair of small spots at first. A variable stream later.
	3496	543	Apr. 26	−83·0	May 8	+71·9	13	116	677	352·04	−26·92	Two large irregular spots, with companions.
396	3475	542	Apr. 4	−72·8	Apr. 14	+57·2	11	15	66	294·96	+18·42	A regular spot, which by Apr. 15 coalesces with group 3478.
	3478	542	Apr. 6	−55·6	Apr. 16	+79·4	11	90	620	288·10	+16·65	A fine broad stream. Preceding spots advance to meet 3475.
	3504	543	May 1	−81·6	May 12	+69·2	12	61	298	292·83	+17·32	A considerable irregular variable group.
	3544	544	May 30	−47·2	June 1	−18·7	3	0	5	300·67	+16·30	A very small spot.
												Note.—3544 is not seen close to the E. limb, and is probably a revival [only of 3504.
(396*)	3483	542	Apr. 11	+46·7	Apr. 11	+46·7	1	1	6	322·20	− 1·90	A very small spot.
	3498	543	Apr. 29	−77·6	May 11	+69·9	13	19	85	318·78	− 3·80	Straggling unstable stream. Later a stream of normal type.
	3540	544	May 28	−56·9	June 2	+ 8·0	6	6	36	320·17	− 6·30	Irregularly scattered unstable spots.
												Note.—These groups indicate a wide region of intermittent disturbance rather than a persistent group.
397	3485	542	Apr. 12	−72·3	Apr. 24	+70·3	13	30	187	183·03	−14·94	A regular spot, with variable train which aggregates to a regular spot.
	3518	543	May 11	−61·3	May 22	+81·1	12	201	1101	181·03	−14·58	A very large complex irregular variable group.
	3559	544	June 5	−80·8	June 17	+76·8	13	67	391	186·71	−16·98	A large unstable group.
398	3488	542	Apr. 19	−83·2	May 2	+78·7	14	90	485	85·72	−17·21	A regular spot, with train, whose leader becomes large.
	3525	543	May 17	−71·8	May 25	+29·3	9	9	45	85·28	−17·49	A regular and diminishing spot, which has broken up by May 22.
399	3512	543	May 6	−26·0	May 12	+55·5	7	8	32	280·56	− 5·66	A very small spot, becoming a straggling unstable stream.
	3543	544	May 29	−71·0	June 3	− 6·2	6	3	11	290·63	− 3·67	A small regular spot.
												Note.—3512 is not seen very close to the W. limb.
400	3522	543	May 14	+ 6·3	May 20	+76·9	7	26	121	204·61	−19·43	One or two small spots, becoming stream of normal type.
	3555	544	June 4	−75·4	June 11	+21·1	8	6	19	209·63	−19·20	A diminishing nebulous spot.
401	3533	544	May 24	−72·1	June 4	+72·1	12	110	531	357·03	+12·63	A very large regular spot, with occasional small companions.
	3581	545	June 19	−84·2	July 1	+76·2	13	61	331	359·63	+12·75	A large regular spot, with occasional small companions.
	3637	546	July 17	−72·7	July 29	+82·5	13	52	288	357·58	+12·71	Two large regular spots which approach. Small companions.
	3673	547	Aug. 15	−53·4	Aug. 15	−53·4	1	2	11	355·60	+12·10	A small spot.
												Note.—3533 is seen as a notch on the limb on May 23.
402	3537	544	May 26	−82·0	June 7	+74·0	13	90	491	314·51	+14·95	A very large regular spot, with small irregular companions.
	3585	545	June 23	−74·3	July 4	+71·4	12	10	59	315·87	+16·34	A large irregular unstable spot. Occasional small companions.
403	3546	544	May 31	+ 4·2	June 5	+77·2	6	13	62	342·52	− 0·62	A straight stream, whose leader advances.
	3583	545	June 21	−69·9	June 30	+51·5	10	12	57	348·31	− 1·19	A diminishing nebulous spot, with occasional small companions.
404	3565	544	June 10	−75·7	June 22	+81·3	13	127	728	127·70	+ 9·05	A large regular spot, with train. Becoming nebulous composite spot.
	3613	545	July 7	−80·6	July 18	+65·3	12	25	155	124·07	+ 9·94	A large regular spot, with small companions.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1894.	°	1894.	°				°	°	
405	3573	544	June 12	−75·4	June 23	+74·4	12	40	221	103·02	+10·09	A large spot which divides.
	3615	545	July 8	−81·7	July 12	−29·1	5	2	14	109·88	+ 9·94	A small spot.
406	3574	544	June 13	+ 7·4	June 18	+77·7	6	62	280	173·58	−18·92	An irregular group, increasing by June 17 to contain a large spot.
	3604	545	July 3	−77·2	July 16	+78·7	14	58	354	169·74	−19·01	Two large regular spots. Occasional companions.
	3654	546	July 31	−81·0	Aug. 6	− 9·0	7	13	78	163·49	−19·57	A regular diminishing spot. Occasional companions preceding.
407	3575	544	June 14	−73·9	June 25	+73·2	12	192	1045	75·48	−14·41	A very large spot which divides, with irregular unstable train.
	3624	545	July 11	−75·6	July 23	+77·7	13	110	553	76·55	−12·35	Two large spots, with a number of unstable companions.
	{3662	546	Aug. 7	−70·3	Aug. 18	+73·0	12	18	91	82·47	−11·39}	A large regular spot, with small companion on Aug. 16.
	{3663	546	Aug. 7	−80·6	Aug. 19	+71·8	13	15	89	71·25	−14·65}	A large regular spot.
408	3578	544	June 17	+62·4	June 18	+76·6	2	4	24	173·95	+10·45	A regular spot, with small companion on June 18.
	3599	545	July 2	−85·3	July 14	+74·8	13	54	310	185·84	+12·16	A large regular spot, with train, becoming stream of normal type.
	3652	546	July 29	−81·9	Aug. 11	+81·3	14	105	608	184·65	+10·31	Very large irregular scattered variable group.
	3689	547	Aug. 26	−83·9	Sept. 4	+37·6	10	18	94	180·05	+ 9·55	A large regular diminishing spot, with a compact cluster following.
409	3610	545	July 6	−82·9	July 18	+79·2	13	83	470	136·67	+ 9·14	A stream whose two large spots break up and coalesce.
	3658	546	Aug. 2	−77·1	Aug. 6	−29·2	5	10	41	141·26	+ 7·30	A rapidly diminishing spot. Small companion on Aug. 5.
410	(3590	545	June 27	−15·0	July 2	+55·6	6	25	155	324·62	−12·18)	A small faint spot, becoming a regular spot, with broad train.
	3640	546	July 20	−76·0	July 30	+68·5	11	47	262	327·94	− 8·74	A stream whose leader is large and regular and is left alone by July 27.
	3674	547	Aug. 15	−73·8	Aug. 24	+45·3	10	13	66	336·42	− 5·84	A regular diminishing spot. Very small scattered companions.
	(3714	548	Sept. 11	−67·0	Sept. 11	−67·0	1	0	12	343·10	− 5·70)	A small spot.
												Note.—3590 and 3714 do not appear to be genuine members of the series, but are distinct disturbances in the same region.
411	3642	546	July 21	−76·8	Aug. 2	+81·3	13	48	243	300·93	+18·38	A large regular spot, with occasional small companions.
	3679	547	Aug. 17	−85·4	Aug. 25	+17·7	9	13	64	297·92	+17·86	A large regular but diminishing spot. Small companion on Aug. 20.
412	{3661	546	Aug. 7	− 6·2	Aug. 14	+78·8	8	42	285	146·01	−12·83}	Two streams enclosing oval space.
	{3669	546	Aug. 12	+43·1	Aug. 14	+74·5	3	8	26	135·73	−10·93}	A few very small spots.
	3694	547	Aug. 30	−70·6	Sept. 6	+25·3	8	3	17	140·29	−10·81	A few small unstable spots irregularly scattered.
												Note.—3661 and 3669 are together the progenitor of 3694. Also note that 3694 is intermittent, not being seen on 1894 Sept. 4.
413	3668	546	Aug. 11	−76·7	Aug. 23	+79·8	13	212	1246	26·42	+ 6·35	Usually a very large irregular composite spot.
	{3703	547	Sept. 6	−79·2	Sept. 13	+13·7	8	7	34	36·75	+ 5·60}	A diminishing spot. Occasional very small companions.
	{3704	547	Sept. 6	−81·9	Sept. 14	+20·7	9	20	105	34·71	+ 9·18}	A regular spot. Occasional small companions.
												Note.—3668 comes back as two groups 3703 and 3704.
414	3697	547	Sept. 3	−56·3	Sept. 12	+65·5	10	8	42	105·09	−15·72	Unstable spots, mostly small, becoming two straight streams.
	3728	548	Sept. 29	−76·1	Oct. 7	+19·7	9	24	195	96·16	−13·93	A long irregular stream, diminishing rapidly after Oct. 3.
415	3702	547	Sept. 6	−74·8	Sept. 18	+84·2	13	54	263	42·00	+16·05	A large regular spot. Very small companions on Sept. 13.
	3734	548	Oct. 3	−84·2	Oct. 15	+76·2	13	26	149	41·04	+18·05	A large regular spot. Occasional small companions.
416	3726	548	Sept. 28	+34·5	Oct. 1	+78·1	4	30	163	225·03	−11·13	A straight stream. Two principal spots alone remain by Sept. 30.
	3752	549	Oct. 18	−59·5	Oct. 19	−44·7	2	2	8	228·30	−10·90	A small spot.
417	3732	548	Oct. 2	−80·6	Oct. 14	+77·5	13	36	173	56·26	+13·31	A large regular spot, with occasional small companions.
	3776	549	Oct. 29	−84·8	Nov. 8	+46·9	11	9	46	54·44	+11·97	A regular but diminishing spot.
418	3745	548	Oct. 13	+22·7	Oct. 18	+79·0	6	38	219	10·97	−16·40	A stream of normal type. The final spot recedes rapidly.
	{3781	549	Nov. 2	−74·9	Nov. 6	−18·2	5	12	83	15·64	−15·28}	Irregular stream of small unstable spots.
	{3785	549	Nov. 3	−68·7	Nov. 8	− 5·3	6	2	9	3·80	−15·53}	Small unstable spots in a disturbed area. None seen on Nov. 5 and 7.
												Note.—3785 is intermittent, not being seen on Nov. 5 and 7. 3745 returns, or perhaps revives, as two groups 3781 and 3785.
419	3748	549	Oct. 18	+48·0	Oct. 20	+77·4	3	1	8	337·30	− 6·07	A cluster of very small spots.
	3786	550	Nov. 3	−84·2	Nov. 14	+59·9	12	29	135	349·56	− 4·98	A large irregular spot, which divides. Small followers.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1894.	°	1894.	°				°	°	
420	3759	549	Oct. 21	−44·7	Oct. 29	+63·9	9	8	34	202·63	+ 4·70	A very small spot, increasing considerably, with unstable train.
	3800	550	Nov. 15	−63·5	Nov. 19	−10·7	5	3	9	209·40	+ 4·72	A small spot, with occasional very small companion.
421	3770	549	Oct. 28	−77·9	Nov. 9	+82·0	13	39	224	77·37	+13·91	A large regular spot, with train, until Nov. 2.
	3812	550	Nov. 26	−60·1	Dec. 6	+78·2	11	38	187	76·57	+10·98	Irregular straggling unstable stream, becoming two large irregular spots.
	3833	551	Dec. 21	−82·1	Dec. 30	+38·9	10	13	67	82·63	+ 8·53	A very close pair of spots.
422	(3789	549	Nov. 6	− 6·8	Nov. 12	+65·8	7	53	245	27·57	−11·69)	Curved unstable stream forming on C.M.
	3817	550	Nov. 30	−46·2	Dec. 10	+84·0	11	37	197	31·81	−13·93	Very small spot, becoming a large stream of normal type.
					1895.							
	3836	551	Dec. 25	−79·1	Jan. 2	+25·8	9	5	35	31·66	−15·03	A somewhat ill-defined spot. *Note.*—3789 does not appear to be a genuine member of the series, but is a distinct disturbance in the same region.
			1894.		1894.							
423	3827	551	Dec. 10	− 0·6	Dec. 16	+80·7	7	111	705	308·43	−19·17	Scattered group, becoming large regular spot, with complex train.
					1895.							
	3847	552	Dec. 31	−81·8	Jan. 12	+75·6	12	61	359	307·67	−17·53	A very large spot, generally with small companions.
			1895.									
	3883	553	Jan. 28	−80·0	Feb. 5	+26·2	9	7	51	301·37	−18·64	A regular spot, slowly diminishing. Occasional unstable companions.
			1894.		1894.							
424	3829	551	Dec. 15	−73·9	Dec. 26	+75·9	12	115	773	167·93	−14·61	Broad straight stream of large nebulous variable spots. Leader advances.
			1895.		1895.							
	3859	552	Jan. 11	−67·8	Jan. 11	−67·8	1	0	3	175·70	−14·30	A very small faint spot in the midst of bright faculæ.
			1895.		1895.							
425	3872	552	Jan. 21	−68·9	Feb. 1	+79·2	12	90	613	49·28	−10·48	A fine stream of normal type, becoming complex and irregular.
	{3903	553	Feb. 15	−76·9	Feb. 25	+63·2	11	42	212	73·50	−10·13}	A large regular spot, with many unstable companions.
	{3905	553	Feb. 18	−59·6	Feb. 28	+75·5	11	13	99	48·96	−13·05}	A small faint spot, becoming a nebulous cluster and then a stream.
	3946	554	Mar. 16	−67·1	Mar. 27	+80·3	12	74	531	59·23	−10·09	An irregular group, increasing to a wedge-shaped stream.
	3975	555	Apr. 10	−86·4	Apr. 22	+71·2	13	26	172	66·02	− 9·73	Two variable unstable spots. Fresh outburst by Apr. 16.
	4011	556	May 8	−69·8	May 9	−58·4	2	3	18	71·20	− 6·35	Two or three small spots. *Note.*—3872 returns as two groups 3903 and 3905, and 3946 in the next return partakes of elements of both these groups.
426	3882	553	Jan. 28	−55·2	Feb. 5	+54·9	9	2	10	330·05	+12·53	One or two small spots, not seen on Feb. 4.
	3911	554	Feb. 23	−65·9	Mar. 6	+79·6	12	45	285	334·38	+12·88	A double spot, becoming the leader of an irregular stream. *Note.*—3882 is intermittent, not being seen on 1895 Feb. 4. It is not seen close to the W. limb; hence 3911 may be only a revival.
427	3884	553	Jan. 28	−79·4	Feb. 9	+82·6	13	71	405	302·76	+14·39	A large stream of normal type.
	3916	554	Feb. 24	−75·2	Mar. 7	+71·6	12	32	184	308·79	+13·04	A large regular spot, with occasionally a very small companion.
	3955	555	Mar. 24	−71·3	Mar. 28	−15·4	5	7	26	307·40	+12·50	A small regular spot.
428	3894	553	Feb. 4	−58·2	Feb. 14	+78·1	11	10	101	232·63	+18·87	A small spot, increasing to a long straight stream.
	3928	554	Mar. 1	−75·1	Mar. 8	+14·5	8	12	94	240·85	+19·44	A close and diminishing pair, with occasional small companions.
429	{3906	553	Feb. 18	−81·2	Mar. 1	+73·5	12	14	56	28·21	− 4·23}	A large regular spot, steadily diminishing.
	{3924	553	Mar. 1	+66·9	Mar. 2	+77·6	2	16	67	23·25	− 3·75}	A pair of ill-defined spots.
	3949	554	Mar. 19	−65·3	Mar. 29	+79·9	11	45	262	23·65	− 5·12	A pair of small spots, becoming large and variable. *Note.*—Probably 3924 alone is the progenitor of 3906; but also probably 3924 and 3906 should have been taken as one group.
430	3923	554	Feb. 26	−79·2	Mar. 9	+71·8	12	42	260	286·08	− 5·97	A large regular spot, with wavy diminishing train.
	3958	555	Mar. 26	−64·5	Apr. 2	+24·1	8	14	70	283·43	− 6·49	A small spot, becoming two variable streams.
431	3933	554	Mar. 6	−72·5	Mar. 17	+76·4	12	45	219	183·49	+13·93	A large regular spot, usually with small unstable companions.
	3964	555	Apr. 2	−75·8	Apr. 11	+45·3	10	12	64	184·11	+12·21	A large regular spot, steadily diminishing.
432	3957	555	Mar. 26	−62·7	Apr. 5	+74·3	11	56	310	290·55	+18·16	A very small spot, becoming a fine and variable stream.
	3990	556	Apr. 21	−78·7	Apr. 25	−21·2	5	5	42	289·68	+17·54	A very close pair of small spots.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1895.	°	1895.	°				°	°	
433	3961	555	Apr. 2	−11·3	Apr. 7	+53·1	6	14	61	247·78	−26·97	Two streams of unstable spots, which merge into one stream.
	3995	556	Apr. 24	−81·0	May 3	+34·4	10	12	65	244·34	−25·01	A regular spot, with small companions.
												Note.—3995 is perhaps only a revival of 3961.
434	3968	555	Apr. 5	−82·4	Apr. 17	+77·1	13	22	131	134·48	−14·05	A large regular spot, usually with small companions.
	4005	556	May 2	−81·5	May 14	+78·5	13	46	260	140·18	−13·71	A stream of normal type.
	4044	557	May 30	−65·3	June 10	+77·5	12	18	93	146·78	−11·92	A disturbed area. Fresh outburst by June 5, forming two clusters.
												Note.—Group 4044 is intermittent, not being seen on 1895 June 1 and 3.
435	3979	555	Apr. 11	−75·3	Apr. 22	+70·8	12	81	480	64·64	+11·00	A fine stream of normal type.
	4012	556	May 8	−79·9	May 12	−26·7	5	0	9	62·18	+11·58	A small spot, not seen on May 11.
												Note.—4012 is intermittent, not being seen on 1895 May 11.
436	3989	556	Apr. 20	−74·7	May 2	+80·2	13	134	673	301·98	+23·85	A very large regular spot, with a distant large companion.
	4024	557	May 18	−68·1	May 30	+83·9	13	113	690	298·26	+22·29	A large regular diminishing spot, becoming a complex and irregular group.
	4057	558	June 10	−76·9	June 25	+82·2	13	22	121	309·25	+21·42	A spot which becomes large and regular, with diminishing train.
	4058	558	June 13	−85·6	June 19	− 8·0	7	11	82	301·59	+23·21	A large irregular diminishing spot. Small spots increase preceding it.
												Note.—4024 comes back as two groups 4057 and 4058, which should really have been taken as a single group.
437	3996	556	Apr. 25	−17·5	May 2	+74·3	8	27	142	294·63	−13·06	A straight increasing stream. There is an acolyte stream from Apr. 26–27.
	4025	557	May 18	−69·8	May 27	+47·3	10	7	23	298·33	−13·05	A small regular diminishing spot.
438	4002	556	May 1	+24·4	May 4	+68·1	4	9	42	260·30	+ 2·60	Two or three small spots.
	4027	557	May 19	−79·3	May 30	+71·0	12	25	143	280·24	+ 2·49	A large regular spot, usually with short train.
												Note.—This is probably a true case of a return, but the forward motion in longitude is unusually large.
439	4023	557	May 18	−26·0	May 26	+80·9	9	22	151	344·54	+ 9·64	Two close pairs of spots increasing to a stream.
	4055	558	June 10	−80·5	June 22	+80·1	13	82	500	348·25	+10·39	Two regular but variable spots.
	4085	559	July 7	−72·3	July 14	+20·6	8	14	93	354·53	+12·86	A large spot, which on July 11 suddenly breaks up.
440	4028	557	May 20	−74·0	May 31	+78·5	12	49	262	275·08	−23·99	A small spot, which becomes large and regular, with irregular train.
	4061	558	June 16	−71·2	June 25	+46·1	10	14	66	273·34	−23·75	A regular and diminishing spot. Occasional small companions
441	4049	557	June 3	−75·6	June 15	+81·2	13	27	156	81·92	−17·88	A large regular spot, with occasional very small companions.
	4077	558	June 30	−81·6	July 11	+61·9	12	8	28	76·83	−18·41	A small regular spot. Occasional very small companions.
442	4052	557	June 5	−82·7	June 17	+78·5	13	93	526	48·38	−15·53	Fine compact stream, becoming one very large complex spot.
	4080	558	July 2	−82·7	July 9	+ 6·0	8	15	127	49·33	−16·95	A large composite spot, becoming a straight unstable stream.
443	4060	558	June 15	−12·5	June 22	+82·4	8	77	499	348·34	+15·69	Irregular and very variable complex stream.
	4086	559	July 7	−75·5	July 16	+39·3	10	2	17	349·36	+17·67	A few small unstable spots, not seen on July 12.
												Note.—4086 is intermittent, not being seen on 1895 July 12.
444	4083	558	July 7	+56·4	July 9	+80·7	3	9	56	122·20	−15·50	Two spots. Very small companion on July 7.
	4104	559	July 24	−72·0	Aug. 3	+54·5	11	15	74	127·16	−12·67	Irregular unstable stream, sharply inclined to Equator.
445	4084	558	July 7	−67·7	July 18	+79·9	12	29	167	0·90	− 6·16	Two pairs of spots, developing into a large regular spot with train.
	4112	559	Aug. 2	−79·0	Aug. 14	+76·9	13	13	67	3·12	− 6·99	A regular spot, usually with one or two small companions.
446	4107	559	July 30	−51·7	Aug. 9	+80·8	11	86	507	75·35	− 9·07	A small spot, becoming a stream of normal type.
	4133	560	Aug. 24	−74·0	Sept. 4	+72·5	12	16	91	79·23	− 8·39	A regular spot, diminishing. Occasional small companions.
447	4110	559	Aug. 1	−78·0	Aug. 13	+82·6	13	136	840	22·08	+10·45	Irregular complex stream, whose leader becomes very large.
	4139	560	Aug. 27	−86·0	Sept. 9	+85·1	14	127	622	27·56	+10·83	A very large regular diminishing spot. Small companions.
	4180	561	Sept. 24	−77·3	Oct. 6	+78·4	13	72	365	26·11	+11·48	A large regular spot, with occasional small companions.
	4206	562	Oct. 22	−71·4	Oct. 31	+48·7	10	18	132	25·38	+13·96	Irregular but compact cluster of unstable spots.
	4207	562	Oct. 22	−73·5	Nov. 2	+78·7	12	29	159	26·78	+ 9·22	Irregular cluster, of which one spot becomes large and composite.
												Note.—4180 comes back as two groups 4206 and 4207.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
448	4111	559	1895. Aug. 2	−37°·0	1895. Aug. 10	+76°·4	9	41	240	48°·88	− 5°·73	A short compact wedge-shaped variable group.
	4135	560	Aug. 25	−80·2	Aug. 29	−27·0	5	5	28	59·26	− 5·44	A regular spot, rapidly diminishing.
449	4129	560	Aug. 23	+41·8	Aug. 25	+69·9	3	20	103	208·33	−22·77	A very small spot, becoming an irregular stream.
	4161	561	Sept. 10	−75·0	Sept. 14	−21·2	5	5	36	215·16	−21·66	A regular diminishing spot.
450	4163	561	Sept. 13	+51·6	Sept. 16	+86·6	4	42	237	300·00	+23·03	A straight compact stream suddenly appearing.
	4189	562	Sept. 30	−79·8	Oct. 12	+81·5	13	51	269	305·32	+21·28	A short broad nearly continuous variable stream.
451	4171	561	Sept. 16	−78·6	Sept. 27	+66·0	12	41	235	129·84	−14·93	A large spot, with double nucleus. Unstable companions.
	4200	562	Oct. 15	−65·9	Oct. 17	−39·0	3	4	26	120·20	−15·20	A diminishing spot. Small companion on Oct. 15.
452	4185	561	Sept. 26	−53·7	Oct. 6	+77·7	11	161	1059	24·29	−15·41	A few small spots, becoming a very large variable composite spot.
	4205	562	Oct. 22	−71·3	Nov. 2	+71·5	12	53	316	24·42	−16·78	A large double spot, which divides.
	4226	563	Nov. 18	−75·5	Nov. 30	+77·0	13	21	113	20·83	−15·57	A large regular spot, with very small companion on Nov. 27.
453	4201	562	Oct. 19	−67·5	Oct. 30	+82·0	12	107	556	71·13	+10·90	A pair of small spots, becoming a stream of normal type.
	4220	563	Nov. 14	−76·0	Nov. 23	+39·8	10	5	31	74·08	+11·91	Irregularly scattered unstable spots, not seen on Nov. 21. *Note.*—4220 is intermittent, not being seen on 1895 Nov. 21.
454	4208	563	Oct. 24	−73·5	Nov. 4	+75·8	12	78	431	356·63	+17·68	A fine broken stream of two distinct clusters.
	4229	564	Nov. 20	−74·0	Nov. 29	+45·3	10	10	44	359·79	+18·85	A regular spot, with one or two very small companions.
455	4210	563	Oct. 28	−54·7	Nov. 7	+79·9	11	93	527	323·90	+ 9·42	A very small spot, becoming a fine stream of normal type.
	4230	564	Nov. 22	−76·3	Nov. 29	+17·5	8	8	42	331·29	+ 8·64	An irregular diminishing spot, which becomes regular. Companions.
456	4211	563	Oct. 29	−79·3	Nov. 9	+77·4	12	92	483	290·83	+11·41	Fine very large spot, with straight train. Very variable.
	4231	564	Nov. 25	−73·9	Dec. 5	+62·0	11	29	131	297·13	+11·66	Two regular spots close together. Small companions.
457	4234	564	Dec. 2	+29·4	Dec. 5	+68·3	4	35	217	303·73	−13·75	An irregular fluctuating stream of normal type.
	4256	565	Dec. 21	−82·2	1896. Jan. 2	+77·5	13	94	562	302·89	−12·77	Fine diminishing stream, with three variable principal spots.
	4278	566	1896. Jan. 18	−71·6	Jan. 29	+72·3	12	11	49	303·95	−13·97	A regular spot, with occasionally a small companion.
458	4241	564	1895. Dec. 7	−78·1	1895. Dec. 19	+76·5	13	49	260	124·43	+18·89	Three large variable spots, connected by very small spots in a stream.
	4270	565	1896. Jan. 6	−53·5	1896. Jan. 7	−39·4	2	4	16	122·45	+17·65	A small spot, with a very small companion on Jan. 7. *Note.*—4270 is not seen close to the E. limb, and may be only a revival.
459	4247	564	1895. Dec. 12	−25·5	1895. Dec. 19	+69·8	8	39	224	118·39	+ 4·31	Fine group of normal type appearing suddenly near the C.M.
	4271	565	1896. Jan. 6	−64·5	1896. Jan. 7	−51·0	2	1	48	111·15	+ 6·40	One or two unstable spots.
460	4255	565	1895. Dec. 20	−78·3	1896. Jan. 1	+83·4	13	64	361	321·44	−10·34	A large regular spot, with sparse diminishing train.
	4277	566	1896. Jan. 16	−80·7	Jan. 28	+82·5	13	20	118	323·70	−10·58	A large regular spot, with occasionally a very small companion.
461	4268	565	1896. Jan. 6	+ 5·4	1896. Jan. 10	+64·3	5	8	28	184·50	−20·52	Straight stream appearing suddenly. The leader is alone left by Jan. 8.
	4283	566	Jan. 28	−60·7	Jan. 30	−36·1	3	5	46	180·03	−19·87	A few small spots.
462	4285	566	Feb. 2	+49·2	Feb. 5	+82·4	4	105	631	224·93	−15·25	An irregular stream appearing suddenly.
	4296	567	Feb. 19	−79·0	Mar. 2	+76·8	13	79	574	230·92	−14·31	A long straight unstable stream, with large irregular spots.
463	4293	566	Feb. 15	+68·2	Feb. 16	+78·6	2	36	177	75·60	+11·60	Two principal spots and small companion appearing suddenly.
	4304	567	Mar. 2	−74·1	Mar. 7	−12·3	6	1	26	80·43	+13·50	A small spot, usually with two very small companions.
464	4295	567	Feb. 18	−75·0	Feb. 29	+75·7	12	110	699	256·34	+15·98	A magnificent straight stream. The component spots change continually.
	4314	568	Mar. 16	−65·1	Mar. 21	− 2·7	6	6	24	262·63	+13·45	A small spot.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1896.		1896.							
465	4300	567	Feb. 22	−81°·1	Mar. 5	+77°·7	13	20	121	192°·23	−21°·28	A large regular diminishing spot. Small companions.
	4317	568	Mar. 20	−81·7	Mar. 24	−24·5	5	5	29	199·80	−19·58	A small spot.
466	4305	567	Mar. 3	+ 9·8	Mar. 8	+80·2	6	26	182	155·05	−16·50	Irregular stream, whose leader remains alone by Mar. 8.
	4320	568	Mar. 23	−75·1	Mar. 29	− 2·8	7	4	19	160·03	−15·63	A small regular spot, with a very small companion on Mar. 27.
467	4310	567	Mar. 10	+ 2·4	Mar. 14	+59·8	5	8	39	58·30	−11·80	Small unstable spots, becoming a short compact stream by Mar. 13.
	4326	568	Mar. 30	−79·9	Apr. 10	+70·7	12	12	66	66·00	−11·88	A large composite spot, which divides.
468	4311	567	Mar. 14	+61·9	Mar. 15	+77·7	2	7	80	61·65	−19·20	One or two small spots.
	4327	568	Mar. 30	−81·2	Apr. 11	+76·3	13	22	134	63·63	−17·87	A large regular spot.
469	4315	567	Mar. 18	+53·1	Mar. 19	+70·3	2	2	40	0·20	− 6·75	A few small spots in a cluster.
	4335	568	Apr. 5	−69·2	Apr. 6	−56·6	2	2	19	0·75	− 7·15	One or two small spots.
470	4348	569	Apr. 30	− 4·8	May 6	+83·5	7	11	114	96·06	−10·71	An irregular stream of unstable spots.
	4359	570	May 21	−72·8	May 29	+36·9	9	8	47	106·66	− 9·62	A regular and diminishing spot. Occasional followers.
471	4368	571	June 9	−43·0	June 18	+82·7	10	41	251	250·23	−16·41	A small spot, becoming large and composite, with a train.
	4384	572	July 4	−65·0	July 7	−26·2	4	4	24	251·08	−14·83	A small spot, with a close companion on July 7.
472	4369	571	June 9	−75·5	June 20	+81·9	12	94	515	217·63	−15·39	Irregular, variable, and complex group.
	4386	572	July 6	−75·8	July 14	+34·1	9	13	73	216·48	−14·56	A regular spot, usually with a very small companion.
473	4376	571	June 22	− 1·9	June 28	+74·0	7	90	533	116·67	−20·37	A stream of two clusters, appearing suddenly near the C.M.
	4399	572	July 14	−71·7	July 25	+73·3	12	41	272	111·45	−21·99	Fine cluster of small spots, changing from day to day.
474	4395	572	July 13	−73·5	July 24	+72·0	12	87	483	123·99	−20·55	A very large nearly regular spot. Occasional small companions.
	4407	573	Aug. 9	−80·8	Aug. 21	+77·4	12	39	235	120·74	−20·10	A large regular spot, with occasional very small companions.
475	4416	574	Aug. 26	−43·2	Sept. 4	+76·2	10	66	377	293·60	−10·64	Fine straight continuous stream of variable spots.
	4435	575	Sept. 19	−78·7	Sept. 30	+67·7	12	75	440	298·15	−12·11	Broad irregular stream. A pair of large spots lead.
	4446	576	Oct. 17	−65·7	Oct. 23	+15·8	7	4	17	304·40	−11·40	A small spot, which has disappeared by Oct. 22. Small companions.
(475*)	4425	574	Sept. 9	+44·7	Sept. 12	+78·0	4	23	158	192·95	−15·75	Two clusters, which coalesce.
	4440	575	Sept. 29	−48·2	Oct. 4	+11·6	6	2	24	193·25	−15·33	A few small unstable spots in a sparse stream. *Note.*—4440 is probably only a revival of 4425.
476	4443	575	Oct. 14	+16·9	Oct. 17	+56·0	4	12	85	65·65	−15·68	An irregular variable stream of unstable spots.
	4457	576	Nov. 3	−79·9	Nov. 12	+36·1	10	17	97	64·55	−15·44	A large regular diminishing spot, with unstable companions. *Note.*—4457 is perhaps only a revival of 4443.
477	4456	576	Nov. 3	−68·9	Nov. 14	+75·9	12	143	710	76·17	−15·43	A very large regular spot. Small companions.
	4473	577	Nov. 29	−84·8	Dec. 9	+45·5	11	32	197	77·84	−16·70	A large regular spot, which becomes a straight stream. Small companions.
478	4464	576	Nov. 14	+80·4	Nov. 14	+80·4	1	15	247	81·50	+ 9·80	Two large spots appearing suddenly in a faculous region.
	4472	577	Nov. 29	−71·4	Dec. 10	+72·1	12	45	238	91·23	+ 9·05	A large regular spot, with a straight train.
479	4478	577	Dec. 7	−19·2	Dec. 14	+71·5	8	16	112	39·86	−14·96	A very small spot, with train, whose final spot remains alone by Dec. 13.
					1897.							
	4491	578	Dec. 29	−76·5	Jan. 10	+77·6	13	23	133	49·02	−12·95	A large regular spot usually followed by a straight stream.
			1896.		1896.							
480	4486	578	Dec. 19	−76·0	Dec. 29	+64·1	11	9	49	187·37	−11·06	Irregularly scattered small unstable spots, not seen on Dec. 24.
			1897.		1897.							
	4502	579	Jan. 15	−67·6	Jan. 18	−32·1	4	3	22	194·48	− 9·90	A spot with a small companion on Jan. 15. *Note.*—4486 is intermittent, not being seen on 1896 Dec. 24.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1897.	°	1897.	°				°	°	
481	4497	579	Jan. 3	−75·6	Jan. 15	+80·0	13	341	2132	342·80	− 6·88	Two very large spots, with unstable train.
	4518	580	Jan. 30	−79·1	Feb. 11	+75·8	12	181	855	347·27	− 5·36	Three large spots, with small companions.
	4535	581	Feb. 26	−81·5	Mar. 10	+75·2	13	52	279	347·77	− 7·85	A large regular spot, with occasional small companions.
482	4505	579	Jan. 20	− 2·7	Jan. 26	+76·5	7	79	457	199·17	+ 7·11	A cluster appearing suddenly near the C.M.
	4526	580	Feb. 10	−72·8	Feb. 21	+77·7	12	64	329	211·96	+ 6·51	A large regular steady spot. Occasional companions.
	4541	581	Mar. 8	−78·5	Mar. 20	+75·5	13	57	324	217·23	+ 4·72	A group of considerable unstable spots.
	4559	582	Apr. 4	−71·8	Apr. 14	+66·6	11	8	50	232·54	+ 5·45	A regular spot, which breaks up. Occasional small companions.
	(4573	583	May 1	−74·5	May 12	+70·4	12	24	148	232·88	+ 3·66)	A large regular diminishing spot. Small companions.
483	4517	579	Jan. 28	−76·2	Feb. 8	+78·2	11	34	246	23·05	− 2·33	A very small spot, becoming a stream of normal type.
	{4532	580	Feb. 23	−74·9	Mar. 7	+80·6	13	52	288	34·79	− 0·78}	A large regular spot. 4533 merges in this group.
	{4533	580	Feb. 24	−78·0	Mar. 4	+40·5	9	15	101	24·63	− 4·64}	Unstable spots merging in 4532.
	4549	581	Mar. 22	−77·4	Apr. 1	+58·4	11	15	76	41·20	− 2·13	Large regular diminishing spot. Occasional companions.
484	4523	579	Feb. 2	+ 6·3	Feb. 7	+81·0	5	42	251	37·98	+13·26	Small spots, becoming a stream of normal type.
	4531	580	Feb. 22	−79·0	Mar. 6	+78·6	13	85	452	45·91	+12·08	A large double spot, with occasional companions.
	4551	581	Mar. 24	−44·2	Mar. 26	−15·1	3	3	28	43·37	+12·30	Several small unstable spots.
												Note.—4551 is not seen close to the E. limb. It may therefore be only a revival of 4531.
485	4542	581	Mar. 9	+16·3	Mar. 13	+73·6	5	11	55	307·18	+ 4·94	A cluster of small spots.
	4554	582	Mar. 28	−75·8	Apr. 9	+82·1	13	24	131	318·26	+ 4·08	A large stable regular spot, with occasional small companions.
	4570	583	Apr. 25	−63·6	Apr. 28	−22·9	4	1	12	319·77	+ 4·90	A few small spots, not seen on Apr. 27.
												Note.—4570 is intermittent, not being seen on 1897 Apr. 27.
486	4560	582	Apr. 4	−80·1	Apr. 16	+80·5	13	75	364	224·28	+ 3·30	Small spots. By Apr. 7 an outburst of five considerable spots.
	4573	583	May 1	−74·5	May 12	+70·4	12	24	148	232·88	+ 3·66	A large regular diminishing spot. Small companions.
487	4579	584	May 25	−77·0	June 6	+78·5	13	90	409	270·38	− 9·10	A large regular spot. Small varying companions.
	4588	585	June 21	−79·1	July 3	+78·5	13	27	161	271·43	− 8·67	A large regular spot. Occasionally a small companion.
	4599	586	July 18	−81·2	July 21	−46·1	4	6	51	271·70	− 9·35	A single spot, rapidly diminishing.
488	4592	585	July 3	−78·4	July 14	+68·9	12	17	104	115·93	−10·97	A large regular spot, with a small companion on July 8.
	4604	586	July 31	−62·4	Aug. 3	−19·4	4	10	59	120·85	− 8·78	A few small spots.
489	4594	585	July 7	−74·3	July 17	+57·7	11	21	105	66·65	− 5·66	Large irregular unstable spot. The group diminishes throughout.
	4605	586	Aug. 2	−83·4	Aug. 15	+81·8	14	112	817	68·31	− 5·56	A large irregular spot, with a train, which disappears.
	4615	587	Aug. 30	−73·2	Sept. 11	+82·7	13	34	191	70·85	− 5·56	A large regular spot, diminishing gradually. Small companions.
	4634	588	Sept. 26	−75·4	Oct. 7	+72·6	12	22	122	72·97	− 6·18	A large regular spot. Occasional small companions.
												Note.—4594 is very small indeed on July 17. 4605 may be only a revival of it.
490	4601	586	July 21	−64·8	July 31	+76·2	11	61	365	255·01	− 8·73	Several irregular spots of considerable size.
	4611	587	Aug. 16	−72·0	Aug. 27	+74·1	12	19	116	258·77	− 7·25	A large regular spot, with occasionally a small companion.
491	4609	586	Aug. 12	+14·2	Aug. 16	+70·2	5	26	147	38·88	− 8·18	Two streams inclined to the Equator.
	4619	587	Sept. 2	−70·2	Sept. 13	+78·1	12	127	687	35·52	−10·48	A fine stream of irregular variable spots.
492	4663	591	Dec. 6	−83·7	Dec. 18	+73·6	13	68	373	210·78	+ 9·75	A fine large composite spot, usually with small companions.
			1898.		1898.							
	4674	592	Jan. 3	−78·0	Jan. 15	+79·6	13	25	130	209·05	+ 9·88	A large regular spot, often with small companions.
493	4679	592	Jan. 18	− 2·5	Jan. 24	+80·5	7	16	98	90·43	− 7·79	Two very small spots, becoming a straight stream.
	4688	593	Feb. 9	−72·3	Feb. 20	+78·5	12	103	576	89·46	− 8·36	Small irregular stream, becoming a fine one of normal type.
494	4681	593	Jan. 19	−82·4	Jan. 31	+82·0	13	51	327	357·69	+ 4·38	A large composite spot, followed by two streams enclosing a space.
	4692	594	Feb. 15	−77·6	Feb. 26	+70·6	12	24	127	363·14	+ 5·15	A large regular spot, with very small companions on Feb. 23.
495	4684	593	Feb. 4	−53·8	Feb. 13	+75·9	10	7	55	175·25	− 8·41	An irregular variable stream of unstable small spots.
	4698	594	Feb. 28	−76·8	Mar. 12	+79·2	13	20	96	190·04	− 8·22	Two regular spots, of which the following has died by Mar. 9.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

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			1898.		1898.							
496	4687	593	Feb. 7	−84°·2	Feb. 19	+74°·5	13	28	150	100°·56	− 7°·09	A large regular spot. A very small companion on Feb. 15.
	4704	594	Mar. 7	−70·4	Mar. 18	+75·5	12	43	210	104·14	− 7·86	A large regular spot, usually with a small unstable companion.
497	4702	594	Mar. 6	−75·3	Mar. 17	+75·9	12	187	970	119·51	−13·17	A very fine straight stream, with variable components.
	4713	595	Mar. 31	−86·4	Apr. 13	+83·1	14	50	261	128·42	−11·39	Two large spots. The leader soon breaks up.
	4714	595	Apr. 6	−22·5	Apr. 9	+19·7	4	0	10	117·83	−13·70	A few faint unstable spots. Really a continuation of 4713.
	4723	596	Apr. 29	−61·5	May 1	−39·5	3	1	10	130·27	−11·27	A small spot.
498	4722	596	Apr. 28	+24·3	May 2	+79·3	5	69	377	238·18	−11·86	A few small spots, becoming a straight stream of normal type.
	4732	597	May 17	−75·1	May 28	+70·3	12	19	109	244·65	−13·63	A large spot, which divides. Occasional companions.
499	4737	597	May 26	−28·8	June 3	+73·8	9	0	9	167·73	−12·72	A very small spot, not seen on May 27–29.
	4749	598	June 20	−66·2	June 30	+78·4	11	11	66	169·74	−10·42	A regular spot advancing rapidly. Small companions.
												Note.—Group 4737 is intermittent, not being seen on 1898 May 27–29.
500	4765	600	July 31	−74·2	Aug. 11	+77·6	12	60	320	333·81	+10·88	A large elliptical spot. Usually with very small companions.
	4778	601	Aug. 27	−69·1	Sept. 7	+81·8	12	23	134	341·37	+11·28	A large regular spot.
501	(4771	600	Aug. 11	−17·8	Aug. 16	+46·8	6	4	19	239·08	−11·45)	A few spots, mostly very small, in a straight stream.
	4781	601	Sept. 3	−74·1	Sept. 15	+81·0	13	245	1556	238·96	−12·07	Very fine composite spot, with a train which becomes very complex.
	4791	602	Sept. 30	−80·4	Oct. 12	+80·5	13	94	625	240·48	−12·11	Principal spot large and composite, with train.
	4804	603	Oct. 28	−70·0	Nov. 1	−14·3	5	4	19	239·30	−13·25	A single spot not seen on Oct. 31.
	4805	603	Oct. 29	−67·6	Nov. 6	+44·4	9	9	54	235·47	−10·83	Irregularly arranged unstable spots. Leader is largest and most stable.
												Note.—4771 is not seen close to the W. limb. Its very small spots may be masked by fore-shortening, but 4781 is probably a revival only of it. 4804 is intermittent, not being seen on 1898 Oct. 31.
(501*)	4792	602	Oct. 4	+ 3·5	Oct. 7	+44·9	4	3	27	272·00	+ 8·60	Short straight stream of small spots.
	4802	603	Oct. 25	−75·3	Nov. 3	+47·6	10	12	50	278·76	+ 6·59	A composite spot, which becomes regular, with scattered train.
												Note.—4792 is not seen near to the W. limb, and 4802 is probably a revival only.
502	4807	603	Nov. 1	−50·5	Nov. 10	+67·6	10	88	483	205·65	+ 6·74	Large composite spot, with straggling and very variable train.
	4816	604	Nov. 27	−66·7	Dec. 2	+ 2·9	6	2	16	211·57	+ 4·92	A very small spot, becoming an irregular unstable cluster.
			1899.		1899.							
503	4841	607	Feb. 27	+ 2·6	Mar. 4	+69·7	6	30	149	147·08	− 4·83	Straight stream of faint spots, whose leader becomes large.
	4846	608	Mar. 20	−74·3	Mar. 28	+32·8	9	11	55	154·42	− 4·63	A regular diminishing spot. Occasional small companions.
504	4845	608	Mar. 15	−74·3	Mar. 27	+83·1	13	67	438	217·45	− 9·01	A pair of small spots. Later, a stream, with large composite leader.
	4852	609	Apr. 12	−58·9	Apr. 15	−22·0	4	5	36	222·78	−10·80	Irregular stream of unstable small spots.
505	4848	608	Mar. 27	−75·9	Apr. 7	+71·1	12	50	276	61·38	−12·86	A large regular spot. Small companions Mar. 30–Apr. 4.
	4855	609	Apr. 23	−74·4	May 4	+69·9	12	26	131	61·21	−12·68	A large regular spot. Small companions
	4857	610	May 20	−75·5	June 1	+80·0	13	11	69	61·15	−12·84	A regular spot, with small unstable companions.
506	(4860	611	June 12	− 9·5	June 17	+59·6	6	3	20	186·40	− 9·84)	Straight stream of small spots, not seen on June 13.
	4865	612	July 4	−85·4	July 16	+75·8	13	53	296	179·76	−10·22	A large regular spot. Small companions usually.
	4871	613	Aug. 1	−68·3	Aug. 2	−54·3	2	0	7	185·35	−10·75	A small faint spot.
												Note.—4860 is intermittent, not being seen on 1899 June 13. In the previous rotation 4856 is the same group, and shows the same feature of intermitting not being seen from May 14–17 inclusive, but seen on May 12–18 and May 18–21.
			1900.		1900.							
507	4915	621	Mar. 6	+13·1	Mar. 11	+79·2	6	101	522	288·23	−12·05	Two large regular spots. Smaller companions until Mar. 8.
	4917	622	Mar. 26	−79·9	Apr. 7	+80·7	13	31	175	292·13	−11·14	A large composite spot, becoming regular. Occasional companions.
508	4926	623	Apr. 29	−13·6	May 5	+70·8	7	17	82	273·09	+ 4·57	A large diminishing spot. A companion on May 2.
	4929	624	May 21	−75·3	June 1	+68·7	12	21	104	272·45	+ 4·13	A large spot, which breaks up.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1900.		1900.							
509	4930	624	May 27	−27°·8	June 3	+78°·5	7	8	42	244°·63	− 8°·20	A cluster of small spots.
	4932	625	June 19	−65·3	June 26	+21·5	8	10	35	256·74	− 7·18	A single spot, with a small companion on June 24.
510	4933	625	June 29	+57·8	July 1	+80·5	3	290	525	250·17	− 6·87	A very large spot, which divides near the W. limb.
	4935	626	July 15	−74·0	July 25	+61·4	11	23	88	267·87	− 6·24	A large spot, at first composite, then regular. Small followers. *Note.*—4935 is certainly a return of 4933.
511	4934	625	July 3	+66·3	July 4	+78·1	2	25	74	206·25	+10·50	Two or three small spots.
	4936	626	July 20	−64·6	July 23	−26·9	4	4	13	210·03	+10·68	A small spot.
512	4943	629	Oct. 16	−78·9	Oct. 27	+68·0	12	21	79	116·83	− 5·00	A large regular diminishing spot, advancing in longitude.
	4946	630	Nov. 13	−68·0	Nov. 14	−55·1	2	2	11	116·50	− 7·15	A small spot.
			1901.		1901.							
513	4953	637	May 19	−78·1	May 31	+82·6	13	186	497	162·09	+ 8·73	Two large spots; the following spot breaks up.
	4955	638	June 16	−62·6	June 26	+75·7	11	19	92	168·75	+ 9·98	A regular spot. Small faint companions.
			1902.		1902.							
514	4986	656	Oct. 22	−34·4	Oct. 30	+82·6	9	35	235	167·80	−20·60	Three close pairs becoming a fine straight stream.
	4991	657	Nov. 15	−73·0	Nov. 16	−54·6	2	4	16	172·55	−20·60	A small spot.
515	4990	657	Nov. 14	−79·3	Nov. 26	+79·8	13	48	336	181·68	+14·65	A small pair becoming a variable group.
	4995	658	Dec. 12	−52·7	Dec. 12	−52·7	1	0	20	192·40	+16·50	A small spot. *Note.*—4995 is not seen close to E. limb, but being small is probably lost through foreshortening.
			1903.		1903.							
(515*)	5008	661	Feb. 23	−75·2	Mar. 5	+49·3	11	16	97	285·25	+18·94	A large regular spot, with occasional small companion.
	5014	662	Mar. 22	−77·7	Mar. 27	− 8·9	6	3	66	290·52	+20·32	An irregular diminishing cluster, not seen on Mar. 26. *Note.*—5014 is intermittent, not being seen on Mar. 26.
516	5013	662	Mar. 21	−75·4	Apr. 2	+81·6	13	45	230	306·53	+21·28	A large well-defined spot, with occasional companions.
	5020	663	Apr. 19	−51·1	Apr. 22	−14·6	4	2	13	305·63	+21·95	One or two small spots. *Note.*—5020 is possibly masked by faculæ on Apr. 18.
(516*)	5015	662	Mar. 26	−86·6	Apr. 5	+48·5	11	22	210	228·91	−16·35	A large composite unstable spot, usually with companions.
	5023	663	Apr. 22	−83·0	May 1	+33·5	10	16	95	236·54	−14·07	A large regular spot, with occasional small companions. *Note.*—5023 is a revival only of 5015.
517	5017	662	Apr. 2	−83·5	Apr. 14	+74·3	12	65	416	140·55	−19·82	A very large spot, usually with small companions.
	5030	663	Apr. 30	−76·0	May 1	−67·1	2	4	17	137·00	−20·00	A small spot.
518	5024	663	Apr. 24	−69·1	May 5	+79·1	12	35	241	227·98	+20·04	A long scattered stream, which becomes compact.
	5035	664	May 20	−70·8	May 26	+11·4	7	6	48	239·09	+18·29	Two or three very variable spots.
519	5036	664	May 21	−50·9	May 30	+66·8	10	0	7	247·26	+17·28	An occasional small spot, not seen May 22–24 and again May 28–29.
	5047	665	June 16	−69·6	June 27	+75·6	10	18	94	242·61	+19·75	An irregular cluster of very variable small spots. *Note.*—5036 is a very intermittent group, not being seen on May 22–24 and 28–29, or five days out of the ten of its course.
520	5044	664	June 10	− 6·2	June 16	+77·4	7	1	33	26·76	−20·42	A straight stream of very small spots, not seen on June 13–14.
	5053	665	June 30	−86·8	July 11	+59·5	12	56	326	39·99	−19·45	A large regular spot; an acolyte stream forms to the south.
	5065	666	July 29	−57·5	Aug. 5	+35·9	8	0	8	43·95	−17·20	A few small faint spots, not seen on Aug. 3–4.
	5066	666	July 29	−63·6	July 29	−63·6	1	0	5	38·5	−17·8	A very small faint spot. *Note.*—Both 5044 and 5065 are intermittent, the first not being seen on June 13–14 and the second on Aug. 3–4.
521	5057	666	July 15	− 5·0	July 21	+75·3	5	1	21	283·00	−21·83	Straight stream, not seen on July 16, probably owing to defective [photograph.
	5069	667	Aug. 6	−80·7	Aug. 13	+14·0	8	6	65	277·15	−22·48	A short irregular stream of small spots.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1903.	°	1903.	°				°	°	
522	5086	668	Sept. 15	+35·3	Sept. 16	+49·2	2	5	16	223·95	−23·40	A short stream of small spots.
	5092	669	Oct. 4	−81·1	Oct. 13	+34·3	10	13	82	214·66	−21·54	A regular spot, with an occasional small companion.
												Note.—5092 is possibly only a revival of 5086, but the place of the spot is occupied by bright faculæ on Sept. 17 and 18.
523	5088	668	Sept. 23	+ 1·8	Sept. 29	+84·5	7	36	232	90·74	+12·21	A short straight stream, becoming of normal type.
	5095	669	Oct. 14	−77·4	Oct. 26	+84·1	13	31	177	92·04	+14·56	A fine regular spot, with a small companion on Oct. 25.
524	5091	669	Oct. 2	−80·4	Oct. 14	+74·7	13	47	297	243·37	+13·37	A large regular spot, with diminishing train.
	5099	670	Oct. 29	−80·0	Nov. 5	+12·7	8	5	18	248·53	+15·51	A small regular spot, with a very small companion on Nov. 3.
525	5093	669	Oct. 5	−78·1	Oct. 18	+78·7	14	186	1726	202·59	−21·30	An immense irregular spot, which divides into two composite spots.
	{5102	670	Nov. 2	−76·2	Nov. 12	+51·6	11	12	84	198·65	−22·98}	A large spot, diminishing. Afterwards widely scattered spots.
	{5103	670	Nov. 3	−73·8	Nov. 13	+55·9	11	25	157	189·72	−21·95}	A large spot, which behaves like 5102.
	{5117	671	Dec. 1	−77·0	Dec. 12	+65·0	12	8	38	178·47	−20·35}	A regular diminishing spot, not seen on Dec. 11.
	{5122	671	Dec. 3	−42·2	Dec. 3	−42·2	1	0	7	187·40	−23·00}	A few very small faint spots.
					1904.							
	(5140	672	Dec. 28	−72·4	Jan. 3	+ 5·0	7	16	99	188·40	−21·99)	A pair of regular spots. A small companion on Dec. 29.
												Note.—5117 is intermittent, not being seen on Dec. 11, and therefore 5140 is probably only a revival of 5117. 5122 is an acolyte group to 5117.
					1903.							
526	5100	670	Oct. 30	−81·6	Nov. 12	+78·7	14	138	739	232·72	+17·06	A fine stream of normal type.
	5116	671	Nov. 27	−76·8	Dec. 8	+64·3	12	38	211	229·75	+16·43	Two large regular spots, with occasional companions.
	5139	672	Dec. 24	−75·7	Dec. 24	−75·7	1	0	13	237·60	+17·50	A small spot in a mass of faculæ.
527	5104	670	Nov. 4	−79·0	Nov. 17	+80·2	14	95	687	163·98	−24·64	Fine compact stream, becoming one of normal type.
	5120	671	Dec. 2	−80·4	Dec. 11	+27·0	10	16	90	154·65	−27·82	A large double spot, which breaks up by Dec. 10.
528	{5104*	670	Nov. 6	−54·7	Nov. 16	+75·7	11	22	177	169·22	−21·62}	Small spots, becoming a fine straight stream, whose leader advances.
	{5104†	670	Nov. 16	+57·0	Nov. 16	+57·0	1	2	6	150·50	−18·40}	A close pair of very small spots.
	5119	671	Dec. 2	−80·3	Dec. 14	+65·0	13	41	313	153·27	−20·31	Two streams at right angles, becoming three large spots.
												Note.—5104† is an acolyte group to 5104*.
529	5129	671	Dec. 8	−75·4	Dec. 20	+81·5	13	51	307	86·88	+19·55	A large regular spot, with occasional small companions.
			1904.		1904.							
	5146	672	Jan. 4	−79·6	Jan. 16	+77·0	12	25	134	84·07	+18·08	A large regular spot, with occasional small companions.
530	5154	673	Jan. 20	−24·1	Jan. 28	+82·1	9	58	393	294·48	−14·01	A very small spot, becoming a fine stream of normal type.
	5167	674	Feb. 11	−82·7	Feb. 13	−54·4	3	0	8	304·30	−15·15	A small spot in bright faculæ, not seen on Feb. 12.
												Note.—5167 is intermittent, not being seen on Feb. 12.
531	5163	673	Feb. 4	−68·1	Feb. 14	+65·0	11	10	61	49·23	+19·64	A few small spots, not seen on Feb. 7. Later, a sparse stream.
	5175	674	Mar. 3	−62·3	Mar. 3	−62·3	1	4	13	48·90	+19·80	Two very small spots.
												Note—5163 is intermittent, not being seen on Feb. 7.
532	5174	674	Mar. 2	+ 2·8	Mar. 6	+55·7	5	40	224	125·78	−13·70	A pair of small spots, greatly increased by Mar. 3.
	5188	675	Mar. 22	−81·6	Mar. 30	+18·8	9	0	16	135·53	−15·53	A few small unstable spots, not seen on Mar. 26 and 27.
												Note.—No photograph is available for Mar. 7. 5188 is intermittent, not being seen on Mar. 26–27.
533	5179	674	Mar. 8	+25·9	Mar. 12	+74·1	5	21	133	68·12	+16·22	Two small double spots, which increase in size.
	{5197	675	Mar. 28	−60·1	Apr. 1	− 8·2	5	2	14	77·48	+13·76}	A small spot.
	{5198	675	Mar. 29	−65·8	Apr. 5	+26·5	8	2	12	60·56	+17·28}	A small spot, with an occasional small companion.
534	(5173	674	Feb. 26	+36·7	Feb. 28	+59·8	3	2	17	221·20	+ 9·83)	One or two small spots.
	5183	675	Mar. 15	−73·7	Mar. 26	+74·6	12	26	164	236·69	+ 9·29	A large regular spot, usually with small companions.
	5204	676	Apr. 10	−80·8	Apr. 19	+38·8	10	9	57	244·83	+ 6·56	A large regular spot.
												Note.— It is doubtful whether 5173 is a member of the series or an independent formation; probably the latter.

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			1904.	°	1904.	°				°	°	
535	5190	675	Mar. 24	+52·5	Mar. 26	+77·3	3	7	48	243·03	−20·63	One or two small spots.
	5203	676	Apr. 10	−69·5	Apr. 11	−57·1	2	0	8	256·40	−20·05	One or two very small spots.
												Note.—5203 is probably the same group as 5190, though as both groups were seen for so short a time and the difference in longitude is considerable, the identity cannot be regarded as certain.
536	5195	675	Mar. 25	−76·7	Apr. 5	+71·8	12	15	95	105·40	+15·17	A regular spot.
	5210	676	Apr. 21	−82·0	May 3	+78·4	13	51	362	106·80	+12·83	A fine irregular stream, whose leader is a large double spot.
537	5202	676	Apr. 8	−74·7	Apr. 21	+83·7	14	100	746	275·79	−15·87	A large double spot, with a large cluster following.
	5221	677	May 7	−52·0	May 11	+ 3·5	5	0	21	283·76	−14·18	Two or more unstable small spots.
												Note.—5221 is probably the same formation as 5202, but it is not seen on May 5 and 6, bright faculæ occupying its place.
538	5218	676	May 4	−12·3	May 11	+79·3	8	17	135	0·56	−20·53	A pair of spots, becoming an irregular unstable stream.
	5240	677	May 26	−76·6	June 6	+71·5	12	16	120	6·32	−21·12	A large composite spot, which breaks up to form a stream.
539	5222	676	May 8	+60·6	May 8	+60·6	1	2	9	18·40	+ 9·80	A small spot in a mass of bright faculæ.
	5239	677	May 25	−73·8	May 30	−10·3	6	6	33	15·17	+ 7·93	A small regular spot.
540	5224	677	May 8	+17·8	May 12	+75·8	5	4	33	337·35	−23·18	A small spot, not seen on May 9.
	5243	678	May 28	−79·3	May 31	−33·2	4	5	45	341·15	−22·23	Two or three scattered unstable spots.
												Note.—5224 is intermittent, not being seen on May 9.
541	5230	677	May 16	+74·2	May 16	+74·2	1	0	85	285·80	+21·50	A spot, forming suddenly near the west limb.
	5246	678	June 3	−68·2	June 11	+46·5	9	13	70	274·08	+19·72	An irregular stream of unstable small spots.
542	5241	677	May 27	+51·1	May 28	+59·6	2	5	19	116·00	−20·15	One or two small spots.
	5252	678	June 13	−76·5	June 25	+77·9	13	10	78	120·35	−16·15	An irregular unstable stream.
	5254	678	June 14	−80·0	June 19	−10·2	6	7	39	109·60	−21·70	A small regular spot. Acolyte group to 5252.
543	5249	678	June 5	−60·5	June 14	+62·3	10	5	40	250·46	+13·66	Very small spots, not seen on June 6.
	5262	679	June 30	−74·8	July 11	+71·3	12	12	97	260·86	+16·03	An irregular and quickly changing stream.
												Note.—5249 is intermittent, not being seen on June 6.
544	5264	679	July 8	−78·1	July 20	+72·4	13	38	308	145·35	+13·07	A fine stream of normal type.
	5285	680	Aug. 4	−77·2	Aug. 15	+70·0	12	28	204	156·08	+13·13	A large composite spot, which breaks up, with a train.
545	5269	679	July 15	−77·7	July 27	+81·2	13	53	420	58·35	−19·05	A fine stream, with large variable leader.
	5291	680	Aug. 11	−77·8	Aug. 19	+23·8	9	16	108	58·56	−18·28	A regular spot.
546	5299	681	Aug. 25	−36·1	Sept. 2	+64·0	9	15	98	275·42	+18·98	A straight stream of small unstable spots.
	5315	682	Sept. 20	−65·8	Sept. 24	−11·1	5	4	24	266·36	+19·12	One or two unstable spots.
547	5313	682	Sept. 18	−18·7	Sept. 25	+76·5	8	26	201	342·08	−20·99	A few small spots which become a straight stream.
	5327	683	Oct. 11	−71·0	Oct. 18	+20·1	8	1	9	346·47	−18·87	One or two small spots, not seen on Oct. 15 and 17.
												Note.—5327 is intermittent, not being seen on Oct. 15 or 17.
548	5317	682	Sept. 22	+15·0	Sept. 26	+73·5	5	40	301	325·00	−24·18	A fine stream of normal type, suddenly appearing.
	5329	683	Oct. 13	−66·9	Oct. 21	+32·6	9	5	20	320·53	−22·98	A small regular spot, with occasionally a small companion.
549	5321	682	Oct. 5	− 9·1	Oct. 11	+76·5	7	33	217	132·61	+16·71	A stream whose leader is large and regular.
	5342	683	Oct. 27	−64·4	Oct. 30	−23·4	4	4	21	142·13	+15·18	A short stream of small spots.
550	5322	682	Oct. 6	−71·6	Oct. 17	+80·5	12	45	294	53·28	−17·22	A large regular spot, followed by two clusters which break up.
	5351	683	Nov. 1	−80·9	Nov. 12	+62·3	12	15	92	59·88	−16·02	A regular spot, with occasional small companions.
551	5331	683	Oct. 17	−40·1	Oct. 26	+83·8	10	12	116	297·58	−22·47	A few small unstable spots.
	5356	684	Nov. 10	−80·2	Nov. 21	+66·5	12	25	163	300·49	−22·54	A large regular spot, with occasional small companions.

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			1904.	°	1904.	°				°	°	
552	5339	683	Oct. 24	−24·2	Nov. 1	+75·3	9	71	534	216·54	+11·36	A stream of spots undergoing continual change.
	5360	684	Nov. 16	−83·3	Nov. 27	+61·5	12	20	108	218·92	+10·56	A large regular spot.
553	{5357	684	Nov. 11	−23·1	Nov. 12	−15·3	2	1	36	341·85	+19·40}	An irregular stream of small faint spots.
	{5363	684	Nov. 19	+77·0	Nov. 19	+77·0	1	0	52	341·00	+18·20}	A spot, evidently a revival in the same rotation of 5357.
	5381	685	Dec. 4	−74·0	Dec. 15	+71·3	12	32	183	351·90	+20·83	A large regular spot, with occasional small companions.
												Note.—5357 and 5363 form a single intermittent group, not being [seen Nov. 13–18 inclusive.
554	5366	684	Nov. 22	+19·9	Nov. 27	+83·1	6	68	615	244·95	+28·52	A pair of very small spots, becoming one large composite spot.
	5396	685	Dec. 12	−75·2	Dec. 20	+26·8	9	17	164	239·60	+28·49	A large composite spot, which breaks up by Dec. 19. Occasional [small companions.
555	{5368	684	Nov. 25	+61·6	Nov. 26	+73·5	2	6	24	245·75	−17·55}	Two small spots.
	{5370	684	Nov. 26	+59·3	Nov. 28	+83·4	3	20	111	230·10	−15·37}	A stream following 5368 and forming one group with it.
	5399	685	Dec. 13	−69·2	Dec. 16	−24·2	4	14	99	238·48	−16·38	A large spot, with a small companion.
556	5390	685	Dec. 9	−81·2	Dec. 22	+77·2	14	65	493	268·17	+16·71	A fine irregular unstable stream whose principal spot is central.
			1905.		1905.							
	5420	686	Jan. 7	−69·5	Jan. 16	+44·2	10	11	76	263·26	+17·43	A large regular spot, with occasionally a very small companion.
			1904.									
557	5413	685	Dec. 25	−72·5	Jan. 6	+84·5	12	31	228	75·47	−15·13	Small unstable spots, not seen on Dec. 29. Afterwards a stream of [normal type.
			1905.									
	5434	686	Jan. 21	−73·1	Feb. 1	+70·9	12	6	43	77·72	−16·43	An irregular cluster of small unstable spots.
	5469	687	Feb. 17	−76·6	Feb. 27	+56·9	11	7	44	78·77	−14·83	A regular spot, with a short train.
												Note.—5413 is intermittent, not being seen on Dec. 29
558	5416	686	Jan. 5	−39·2	Jan. 14	+77·7	10	11	77	322·87	−17·89	An irregular stream of unstable spots.
	5441	687	Jan. 29	−79·2	Feb. 11	+80·5	14	332	2500	328·25	−15·30	A very magnificent composite spot, greatest on Feb. 4.
	5471	688	Feb. 25	−79·1	Mar. 10	+85·1	14	121	934	329·36	−16·76	A very large composite spot, followed after Mar. 4 by two large spots.
	5489	689	Mar. 25	−82·0	Apr. 5	+70·2	12	59	406	324·54	−15·38	A wide area of disturbance. An irregular unstable stream.
559	5421	686	Jan. 7	−78·4	Jan. 19	+73·5	13	24	146	254·62	+21·03	A large regular spot, with occasionally a companion.
	5447	687	Feb. 4	−75·8	Feb. 10	+ 9·8	7	17	107	253·81	+21·83	A compact cluster of small spots.
560	5424	686	Jan. 10	−78·5	Jan. 22	+81·9	13	126	934	224·96	+ 9·37	A fine stream, with three chief variable spots.
	5448	687	Feb. 5	−75·4	Feb. 11	+ 7·2	7	3	63	239·21	+ 6·60	A short stream of small spots.
561	5426	686	Jan. 14	−48·5	Jan. 24	+78·0	11	4	25	194·17	+13·26	An irregular stream of unstable spots.
	5453	687	Feb. 8	−75·7	Feb. 13	−13·3	6	12	131	197·90	+15·03	An irregular group of small spots.
562	5427	686	Jan. 14	−71·3	Jan. 25	+73·5	12	41	310	170·60	−12·27	A compact cluster becoming a fine stream of normal type.
	5457	687	Feb. 9	−81·8	Feb. 18	+32·2	10	13	88	175·97	−14·01	A long irregular stream of small unstable spots.
(562*)	5429	686	Jan. 16	+55·5	Jan. 17	+69·5	2	7	27	275·95	−16·40	A pair of small spots.
	5445	687	Feb. 4	−50·0	Feb. 4	−50·0	1	2	6	279·80	−16·20	A very small spot.
563	5430	686	Jan. 18	+58·0	Jan. 18	+58·0	1	0	19	246·60	−25·50	A pair of small spots.
	5446	687	Feb. 4	−78·7	Feb. 13	+35·4	10	5	45	249·12	−27·53	A compact cluster of unstable spots.
564	5431	686	Jan. 19	+78·0	Jan. 19	+78·0	1	0	33	258·60	−24·60	A pair of small spots.
	5444	687	Feb. 3	−79·6	Feb. 15	+70·9	13	35	199	258·18	−28·79	A large regular spot, usually followed by a small companion.
			1904.		1904.							
565	(5389	685	Dec. 8	−85·3	Dec. 19	+64·8	12	39	242	290·41	+12·53)	A large regular spot, breaking up to form a stream.
			1905.		1905.							
	{5417	686	Jan. 6	−73·1	Jan. 15	+49·3	10	5	33	277·48	+12·41}	One or two small unstable spots.
	{5418	686	Jan. 7	−47·4	Jan. 11	0·0	5	3	22	284·68	+12·58}	A short stream of small spots. Acolyte group to 5417.
	5442	687	Feb. 2	−75·2	Feb. 14	+78·6	13	81	508	279·02	+12·46	A large regular spot, which divides into two, with a train.
	5473	688	Mar. 1	−80·8	Mar. 13	+70·8	13	158	1762	271·42	+10·48	A magnificent composite spot, which breaks up to form a fine stream
												Note.—5389 and 5417 are probably formations distinct from 5442 and 5473, which alone belong to the series.

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Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1905.		1905.							
566	5466	687	Feb. 16	−58°·4	Feb. 25	+54°·5	10	11	82	108°·99	−22°·58	An irregular variable stream.
	5481	688	Mar. 14	−74·5	Mar. 25	+66·0	12	6	46	109·58	−22·65	A regular spot, with occasionally a small companion.
	5501	689	Apr. 10	−77·2	Apr. 21	+72·8	12	40	217	117·09	−20·70	A stream, whose leader becomes regular and large.
	5502	689	Apr. 10	−82·0	Apr. 18	+26·8	9	16	106	108·91	−21·12	A compact cluster, becoming a composite spot.
	5525	690	May 7	−77·5	May 11	−27·2	5	6	25	113·52	−21·28	An isolated spot.
567	5491	689	Mar. 29	−48·7	Apr. 7	+66·9	10	3	20	298·91	+17·93	An irregular stream of unstable small spots, not seen on Apr. 4 and 6.
	5513	690	Apr. 23	−74·6	Apr. 27	−22·5	5	17	87	307·00	+18·22	A regular spot, with a very small companion on Apr. 26.
												Note.— Two distinct groups have been confused together in the group numbered 5491. In the entry above they have been separated. 5491 is intermittent, not being seen on Apr. 4 and 6.
568	5524	690	May 7	−35·0	May 15	+75·6	9	41	336	160·40	+13·08	A fine stream appearing suddenly, whose leader advances.
	5542	691	May 31	−71·6	June 11	+72·3	12	45	310	167·28	+10·53	A straight stream, whose two principal members are large and composite.
	5543	691	May 31	−76·3	June 8	+33·8	9	4	26	161·38	+14·10	A short stream of unstable spots.
569	5529	690	May 11	−75·8	May 22	+72·7	12	113	700	63·78	−15·18	A fine stream, with three chief variable spots.
	5550	691	June 7	−77·5	June 18	+74·0	12	22	123	69·86	−15·66	A large regular spot, with two very small companions on June 7.
	5585	692	July 5	−57·3	July 7	−32·2	3	2	24	72·03	−16·70	One or two small faint spots.
												Note.—This series is derived from 5529 *a*.
570	5529	690	May 11	−75·8	May 22	+72·7	12	113	700	63·78	−15·18	A fine stream, with three chief variable spots.
	5553	691	June 8	−76·2	June 19	+69·5	12	31	165	52·26	−14·93	A large regular spot, usually with a small train.
	5586	692	July 5	−77·1	July 17	+78·7	13	101	802	52·36	−15·19	A fine compact variable stream.
	5608	693	July 31	−83·4	Aug. 11	+65·1	12	19	114	66·73	−12·41	A large regular spot, followed by a few small companions.
	5611	693	Aug. 1	−76·2	Aug. 12	+71·8	12	95	701	60·81	−16·32	A fine group *sf* 5608. A very large regular spot, with companions.
	5639	694	Aug. 28	−78·7	Sept. 9	+80·6	13	63	419	61·01	−18·52	A very large spot, with some close companions.
												Note.—This series is derived from 5529 *c*. 5608 and 5611 are both derived from 5586, but 5611 returns again in 5639.
571	5540	691	May 25	−28·5	June 1	+76·2	8	12	99	293·75	+ 5·50	A very small spot, becoming a continuous stream of unstable spots.
	5562	692	June 16	−77·8	June 22	− 2·7	7	0	5	306·55	+ 5·23	A small spot, not seen on June 19–21 inclusive.
												Note.—5562 is intermittent, not being seen on June 19, 20, or 21.
572	5546*	691	June 14	+57·6	June 15	+68·2	2	3	20	108·25	−18·80	One or two small unstable spots.
	5574	692	July 1	−70·4	July 4	−35·0	4	3	12	114·55	−17·60	A small spot.
573	5564	692	June 20	−71·1	July 2	+86·6	13	104	724	259·25	+ 6·45	A few small spots, becoming a fine stream whose chief spot is central.
	5595	693	July 15	−82·6	July 27	+61·6	13	25	230	264·77	+ 7·67	Two short compact streams becoming a single stream.
574	5569	692	June 24	+11·2	June 30	+81·0	7	17	130	285·46	−13·20	A short variable stream of small spots.
	5594	693	July 14	−73·3	July 25	+66·9	12	11	63	296·86	−14·84	A regular spot, usually with very small companions.
575	5589	693	July 10	−85·8	July 22	+71·3	13	256	1838	342·22	+12·99	A magnificent stream, whose leader is composite.
	5620	694	Aug. 6	−79·9	Aug. 18	+79·5	13	85	788	346·63	+12·21	A very large composite spot, with small companions.
576	5590	692	July 11	+25·2	July 14	+66·9	4	4	22	75·88	+15·00	A pair of small spots.
	5607	693	July 31	−73·5	Aug. 11	+73·9	12	26	173	77·13	+15·98	A large composite spot, with a small train.
	5641	694	Aug. 29	−60·2	Sept. 8	+83·6	11	29	180	73·23	+13·91	A compact stream whose leader becomes large.
												Note.—5641 may be only a revival of 5607.
577	5596	692	July 16	+74·0	July 16	+74·0	1	0	6	58·30	+16·80	A very small spot.
	5610	693	Aug. 1	−70·0	Aug. 8	+23·3	8	1	20	66·81	+18·11	A short stream of small spots.
578	5597	693	July 18	− 1·2	July 25	+84·9	8	76	512	318·99	+13·95	A few small spots, becoming a fine stream of normal type.
	5622	694	Aug. 8	−80·6	Aug. 20	+76·8	13	47	272	323·07	+14·50	A large regular spot, which becomes a stream of normal type.
	5653	695	Sept. 4	−83·5	Sept. 12	+28·5	9	10	60	326·02	+12·67	A regular spot, with occasional small companions.
579	5628	694	Aug. 18	+ 0·8	Aug. 24	+77·2	7	38	262	271·23	+ 5·16	A stream appearing suddenly on the C.M.
	5655	695	Sept. 7	−77·6	Sept. 18	+68·1	12	15	96	286·25	+ 2·38	A regular spot, with occasional small companions.

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			1905.	°	1905.	°				°	°	
(579*)	5654*	694	Sept. 7	+49·0	Sept. 8	+61·3	2	2	8	52·95	−13·30	A small spot.
	5668	695	Sept. 27	−50·2	Oct. 3	+28·3	7	12	52	56·94	−14·43	A short stream, consisting chiefly of three spots.
580	5669	695	Sept. 28	+64·2	Sept. 29	+79·2	2	8	91	152·65	+12·45	A large spot near west limb.
	5682	696	Oct. 14	−74·5	Oct. 26	+78·2	13	222	2336	161·88	+13·75	An immense spot of most intricate structure.
	5712	697	Nov. 10	−72·8	Nov. 21	+66·7	12	21	179	167·64	+12·84	An irregular cluster of small and unstable spots.
581	5673	695	Sept. 30	−23·9	Oct. 8	+75·2	9	94	632	39·82	+ 6·00	Small spots in a ring, becoming a fine stream.
	5685	696	Oct. 21	−84·1	Nov. 3	+83·9	14	228	1283	58·05	+ 6·55	An immense regular spot.
	5687	696	Oct. 25	−42·6	Nov. 2	+53·8	9	6	42	43·92	+ 7·07	A few unstable spots. This group is acolyte to 5685.
	5720	697	Nov. 18	−79·7	Nov. 30	+77·5	13	59	407	59·44	+ 5·37	A large regular spot, which becomes composite and breaks up.
	5721	697	Nov. 21	−56·5	Nov. 30	+69·4	10	33	194	46·04	+ 6·65	An irregular stream, becoming one of normal type. Acolyte group to 5720.
582	5680	696	Oct. 8	−85·1	Oct. 20	+80·7	13	51	319	235·66	+12·68	A large regular spot, with a train.
	5703	697	Nov. 4	−84·8	Nov. 16	+72·4	13	28	189	239·48	+13·53	An irregular stream, undergoing change.
583	5681	696	Oct. 9	+24·9	Oct. 13	+81·4	5	12	130	334·80	+12·58	A small spot, not seen on Oct. 10.
	5690	697	Oct. 28	−72·9	Oct. 31	−29·5	4	5	37	340·53	+13·25	An ill-defined spot, with a very small companion on Oct. 30. *Note.*—5681 is intermittent, not being seen on Oct. 10.
584	5684	696	Oct. 18	+58·1	Oct. 18	+58·1	1	0	29	242·60	+ 7·80	A cluster of very small spots.
	5702	697	Nov. 4	−78·0	Nov. 16	+82·7	13	20	121	248·34	+ 8·11	A large regular spot, with occasional very small companions.
	5736	698	Dec. 2	−72·3	Dec. 5	−30·8	4	6	43	242·40	+ 6·80	A double spot, with very small companions.
585	5704	697	Nov. 6	+32·9	Nov. 10	+77·8	5	0	10	323·12	−13·88	Very small faint spots in a cluster of bright faculæ.
	5733	698	Nov. 26	−72·8	Dec. 7	+70·9	12	28	203	320·39	−13·72	A fine compact cluster.
586	5706	697	Nov. 7	−80·5	Nov. 19	+78·8	13	91	721	203·16	+ 6·35	A very large compact unstable cluster.
	5740	698	Dec. 4	−77·4	Dec. 12	+30·3	9	8	40	210·42	+ 5·16	A small regular spot, with very small companions.
587	5707	697	Nov. 8	−44·7	Nov. 16	+66·5	9	18	95	229·20	−24·63	A very scattered stream, becoming suddenly of normal type.
	5738	698	Dec. 4	−67·3	Dec. 8	−14·9	5	6	37	221·28	−24·02	A small regular spot.
588	5710	697	Nov. 10	−13·5	Nov. 17	+78·0	8	23	134	229·53	+ 9·20	A straight stream, which does not conform to usual type and diminishes.
	5737	698	Dec. 3	−72·0	Dec. 13	+60·4	11	5	54	232·39	+ 9·70	An irregular cluster of unstable spots, not seen on Dec. 11 and 12. *Note.*—5737 is intermittent, not being seen on Oct. 11 and 12. It may be merely a revival of 5710.
589	5713	697	Nov. 11	−74·5	Nov. 23	+83·1	13	25	148	157·25	−17·10	A large composite spot, which becomes regular.
	5745	698	Dec. 8	−76·8	Dec. 13	−13·7	6	3	41	157·50	−17·77	Two spots.
590	5717	697	Nov. 16	−69·5	Nov. 26	+69·5	11	24	153	100·27	+13·53	Scattered group, becoming large spot, with unstable train.
	5746	698	Dec. 12	−75·6	Dec. 14	−51·1	3	6	41	106·20	+14·33	A regular spot.
591	5739	698	Dec. 4	−71·6	Dec. 16	+83·6	13	14	102	214·46	−25·39	A regular spot. New spots form, making a stream of normal type.
			1906.		1906.							
	5768	699	Jan. 2	−49·7	Jan. 2	−49·7	1	0	5	215·50	−25·90	A very small spot. *Note.*—5768 may possibly be only a revival, but more probably it is masked by faculæ on Dec. 31 and Jan. 1.
			1905.		1905.							
592	5747	698	Dec. 12	−85·1	Dec. 24	+77·4	13	83	427	98·45	+ 8·13	A regular spot, with train.
			1906.		1906.							
	5775	699	Jan. 8	−84·5	Jan. 20	+73·9	13	66	364	103·97	+ 8·18	A regular spot, with train.
	5798	700	Feb. 4	−82·0	Feb. 15	+59·1	12	26	166	106·99	+ 8·59	A regular spot, with companions.
			1905.		1905.							
593	5762	698	Dec. 22	− 1·7	Dec. 28	+72·0	7	23	165	46·76	+16·94	A small spot, becoming a regular spot, with companions.
	5764	698	Dec. 24	+29·2	Dec. 28	+82·4	5	37	235	53·68	+15·26	A regular spot, with train.
			1906.		1906.							
	5778	699	Jan. 12	−80·1	Jan. 18	+ 0·6	7	4	31	53·14	+18·17	A regular spot, with an occasional companion.

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			1905.		1906.							
594	5766	699	Dec. 26	−75°·6	Jan. 6	+69°·5	12	75	517	279°·22	− 8°·58	A fine stream of normal type.
			1906.									
	5788	700	Jan. 22	−76·2	Feb. 2	+73·1	12	14	90	286·90	− 7·36	A regular spot.
			1905.									
595	5767	699	Dec. 29	+ 0·8	Jan. 3	+54·0	5	6	38	319·82	+14·78	Small unstable spots, becoming a straight stream.
			1906.									
	5783	700	Jan. 20	−69·4	Jan. 29	+64·6	10	10	84	326·08	+12·25	A straggling stream of small spots.
596	5785	700	Jan. 21	−45·0	Jan. 30	+78·1	10	71	550	332·41	−11·40	A very fine stream, with two chief spots.
	5802	701	Feb. 14	−76·8	Feb. 26	+76·9	13	24	137	338·96	−10·82	A regular spot, with companions.
	5820*	702	Mar. 14	−71·7	Mar. 15	−57·5	2	0	5	339·95	−11·80	A very small spot.
597	5790	700	Jan. 23	−54·6	Feb. 1	+75·6	10	17	99	301·25	+15·19	Irregular straggling stream, becoming one of normal type.
	5803	701	Feb. 17	−76·2	Feb. 28	+76·5	12	32	234	308·71	+13·25	A regular spot, with train.
	5806	701	Feb. 18	−71·1	Feb. 28	+65·9	11	12	83	298·25	+16·31	A regular spot, with an unstable stream near.
	5821	702	Mar. 16	−72·0	Mar. 27	+72·3	12	55	512	312·88	+16·56	Scattered spots coalescing to form a very large spot. *Note.*—5821 is perhaps a fresh outbreak of 5803.
598	5794	700	Jan. 31	+11·8	Feb. 4	+70·8	5	10	58	257·20	+ 7·44	A small spot, with distant attendants.
	5807*	701	Feb. 22	−51·8	Feb. 22	−51·8	1	0	5	263·80	+ 6·60	A very small faint spot. *Note.*—5807* may possibly be only a revival of 5794, but more probably is hidden by bright faculæ on Feb. 20 and 21.
599	5809	701	Feb. 27	+36·3	Mar. 2	+71·9	4	0	42	283·20	− 6·63	A few spots in a small cluster.
	5822	702	Mar. 17	−77·8	Mar. 27	+56·9	11	23	161	294·60	− 8·00	A short stream, almost at right angles to the equator.
600	5810	701	Feb. 28	+26·9	Mar. 4	+79·4	5	12	117	260·08	+13·96	A short stream.
	5828	702	Mar. 19	−78·7	Mar. 27	+22·7	9	15	159	261·89	+15·24	A regular spot, which breaks up.
601	5817	701	Mar. 8	−24·4	Mar. 16	+79·5	9	41	294	105·19	+19·97	A few small spots, becoming a large compact stream.
	5843	702	Mar. 31	−79·0	Apr. 12	+81·7	13	33	212	106·46	+19·08	A large regular spot, with occasional small companions.
602	5820	701	Mar. 14	− 3·6	Mar. 19	+66·2	6	11	64	50·15	+22·77	A straight unstable stream.
	5849	702	Apr. 5	−72·2	Apr. 17	+80·4	13	53	374	42·69	+24·01	A fine stream, whose chief spots are in the rear.
603	5826	702	Mar. 18	−80·2	Mar. 30	+75·5	13	103	598	275·20	+13·99	A very fine pair of regular spots, which coalesce.
	5855	703	Apr. 14	−81·7	Apr. 26	+70·3	13	50	341	274·40	+15·91	A close pair of regular spots in a cluster.
604	5842	702	Apr. 1	−11·6	Apr. 7	+75·3	7	11	65	164·69	+12·23	An irregular stream of small spots.
	5858	703	Apr. 23	−80·0	Apr. 30	+14·5	8	11	83	159·79	+11·59	An irregular stream of small spots, not seen on Apr. 29. *Note.*—5858 is intermittent, not being seen on Apr. 29.
605	5852	702	Apr. 7	−70·6	Apr. 18	+71·0	12	12	77	19·99	−19·23	A dwindling irregular stream. Fresh outbreak on Apr. 16.
	5866	703	May 4	−85·3	May 17	+79·5	14	45	397	5·80	−21·14	A very fine regular spot, with close train.
	5881	704	June 2	−70·0	June 10	+29·9	9	9	73	0·27	−25·13	Small scattered unstable spots.
606	5854	702	Apr. 10	−50·6	Apr. 18	+54·9	9	8	38	2·64	+11·28	A small spot, not seen on Apr. 11. Then a straggling stream.
	5865	703	May 4	−80·5	May 16	+80·2	13	22	151	15·65	+ 7·18	A large regular spot, with occasional companions. *Note.*—5854 is intermittent, not being seen on Apr. 11. It is not seen on Apr. 19 or 20, but bright faculæ mark the place.
607	5859	703	Apr. 25	−42·4	May 4	+80·4	10	36	273	173·95	+11·97	An irregular and very variable stream.
	5870	704	May 18	−84·3	May 31	+83·8	14	68	505	181·54	+ 9·46	A long irregular stream.
	5888*	705	June 15	−67·0	June 18	−32·9	4	0	6	187·75	+ 9·90	A very small spot, not seen on June 16 and 17. *Note.*—5888* is intermittent, not being seen on June 16 and 17.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1906.	°	1906.	°				°	°	
608	5869	704	May 11	−59·0	May 22	+80·1	12	79	545	303·93	+14·28	A very variable group, not seen on May 12.
	5885	705	June 5	−79·8	June 17	+73·5	13	34	200	305·47	+14·15	A regular spot, with followers.
	5903*	706	July 3	−72·3	July 8	− 8·7	6	2	19	304·82	+13·92	A few small faint spots, not seen on July 7.
												Note.—5869 is intermittent, not being seen on May 12. 5903* is also intermittent, not being seen on July 7.
609	5871	704	May 23	−73·3	June 4	+84·1	13	79	528	131·35	+11·91	Two large spots, with small companions.
	5889	705	June 19	−68·1	June 30	+72·6	12	9	58	135·29	+11·59	A regular spot, with occasional companions.
	5922	706	July 16	−70·7	July 25	+49·4	10	10	77	133·74	+ 8·82	An irregular cluster.
610	5878	704	May 31	−72·1	June 10	+66·8	11	12	99	30·43	+15·06	A curved stream, becoming one of normal type.
	5894	705	June 26	−67·5	July 7	+80·4	12	29	201	44·54	+12·21	A cluster becoming a stream almost at right angles to equator.
	5897	705	June 27	−67·5	July 4	+24·6	8	11	78	31·41	+16·78	A regular spot, with companions.
	5928	706	July 22	−78·4	July 30	+28·2	9	5	32	48·24	+ 9·01	A regular spot, with occasional companions.
												Note.—The leading and the following spots of 5878 give rise to 5894 and 5897 respectively. 5928 is the return of 5894.
611	5886	705	June 8	+14·7	June 14	+82·0	7	49	337	361·94	+20·69	A short broad stream.
	5898	706	June 28	−75·5	July 11	+85·3	14	134	725	366·36	+20·96	A very large regular spot, with companions.
	5931	707	July 25	−83·2	Aug. 7	+84·8	14	85	458	361·20	+21·97	A large regular spot, with companions.
	5931*	707	July 27	−51·8	July 27	−51·8	1	0	29	368·70	+23·70	Two small very faint spots. Acolyte group to 5931.
	5946	708	Aug. 22	−83·9	Sept. 4	+78·9	14	35	232	354·16	+22·71	A large regular spot, with companions.
	5971	709	Sept. 20	−69·2	Sept. 22	−41·5	3	0	7	347·67	+20·53	One or two small faint spots.
612	5888	705	June 19	−32·0	June 27	+70·1	9	5	38	171·33	+ 9·23	A cluster of small spots, not seen on June 25 and 26.
	5913	706	July 12	−80·3	July 24	+78·9	13	24	167	177·81	+ 8·65	A regular spot, with unstable companions.
												Note.—5888 is intermittent, not being seen on June 25 and 26.
613	5893	705	June 24	−75·8	July 5	+78·5	12	39	255	66·03	+ 6·13	A regular spot, with dwindling train.
	5926	706	July 20	−80·1	July 27	+13·7	8	7	53	74·23	+ 5·74	An irregular cluster of small spots.
614	5895	705	June 26	−69·9	July 7	+76·2	12	73	438	41·13	− 9·59	A large double spot, with train.
	5929	706	July 23	−69·0	July 25	−42·1	3	6	34	44·30	− 9·30	A small spot.
615	5903	706	July 3	−36·4	July 12	+81·1	10	46	311	341·75	+21·33	A regular spot, with train.
	5931‡	707	July 27	−77·8	July 27	−77·8	1	0	47	342·70	+23·90	A faint diffused marking.
616	5912	706	July 11	−78·4	July 22	+73·4	12	33	219	201·36	+17·93	A large regular spot, with companions.
	5935	707	Aug. 7	−74·0	Aug. 19	+80·2	13	15	81	199·82	+18·51	A regular spot, with occasional companion.
617	5933	706	July 27	−38·2	Aug. 5	+83·3	10	110	901	24·32	−15·26	A sudden outburst, becoming a very large regular spot with train.
	5944	707	Aug. 21	−68·3	Sept. 1	+77·6	12	44	275	24·31	−16·69	Two spots, with companions, forming stream inclined to the equator.
618	5936	707	Aug. 6	−80·9	Aug. 17	+71·6	12	6	35	214·06	+17·34	Unstable spots, not seen on Aug. 7 and 12. Later a regular spot.
	5960	708	Sept. 1	−86·8	Sept. 12	+55·6	12	9	79	217·10	+18·79	A regular diminishing spot, becoming a straight stream.
												Note.—5936 is very intermittent, not being seen on Aug. 7 and again on Aug. 12.
619	5938	707	Aug. 9	−57·9	Aug. 18	+64·2	10	8	51	195·05	−17·18	A short dwindling stream.
	5961	708	Sept. 4	−74·7	Sept. 15	+77·1	12	21	148	197·62	−21·18	An irregular cluster, becoming a straight stream.
												Note.—5961 has a very small area at the E. limb, and is therefore possibly only a revival of 5938.
(619*)	5942	707	Aug. 18	−30·6	Aug. 25	(+61·8)	8	18	119	104·61	+11·53	Small spots, becoming a straight stream of normal type.
	5945	707	Aug. 20	−17·9	Aug. 25	(+42·0)	6	4	23	87·17	+ 5·62	Very small spots. Acolyte group to 5942
	5968	708	Sept. 11	−82·0	Sept. 24	−85·8	14	49	336	93·33	+ 8·36	Small spots, becoming a fine stream.
												Note.—5968 appears to be a revival rather than a return of the two groups 5942 and 5945.
620	5950	707	Aug. 24	−31·8	Sept. 1	+78·7	9	49	352	22·84	− 4·87	A fine stream of normal type.
	5970	708	Sept. 16	−74·5	Sept. 19	−38·4	4	5	41	36·83	− 7·28	A few very small unstable spots.

Catalogue of Recurrent Groups of Sun Spots—*continued.*

Reference Number.	No. of Group.	Rotation.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	No. of Days Photographed.	Mean Area for Umbra.	Mean Area for Whole Spot.	Mean Longitude of Group.	Mean Latitude of Group.	REMARKS.
			1906.		1906.							
(620*)	5956	708	Aug. 29	−76°·2	Sept. 8	+64°·5	11	20	139	273°·82	+ 5°·31	A double spot, breaking up to form a compact stream.
	5976	709	Sept. 24	−76·4	Sept. 29	−18·7	6	1	9	283·77	+ 6·20	Unstable small spots. *Note.*—5976 is almost certainly a revival of 5956 and not a continuation.
621	(5990	709	Oct. 8	+ 8·3	Oct. 11	+39·8	4	1	13	185·58	+14·30)	A small spot. Very small followers on Oct. 9.
	6001	710	Oct. 29	−80·0	Nov. 10	+78·5	13	20	127	182·75	+15·75	A fine stream of normal type, dividing after passing the C.M.
	(6024	711	Nov. 25	−74·1	Dec. 6	+77·7	12	44	258	196·13	+17·08)	A large regular spot, with companions.
	6027	711	Nov. 26	−77·4	Dec. 3	+19·2	8	5	47	179·51	+17·78	A small spot, with occasional companions.
	6030)	711	Nov. 26	−70·6	Dec. 4	+38·8	9	4	50	186·92	+15·44)	A small stream. *Note.*—These three groups, 6024, 6030, and 6027, seem derived from the leading, the central, and the rear spots respectively of 6001. 6001 is a revival, not a return, of 5990.
622	6004	710	Nov. 8	−73·3	Nov. 19	+73·4	12	56	370	60·69	−10·63	A large composite spot, with companions.
	6034	711	Dec. 5	−70·2	Dec. 12	+22·5	8	7	32	62·79	−12·49	A regular spot, with occasional companions.
623	6019	711	Nov. 22	+ 7·6	Nov. 27	+76·1	6	6	61	315·50	+14·32	A stream of small spots.
	6045	712	Dec. 12	−78·1	Dec. 25	+86·8	14	20	153	322·62	+13·84	A regular spot, with occasional companions.
			1907.		1907.							
	6074	713	Jan. 8	.....	Jan. 14	.....	7			326·	+13·	A regular spot. *Note.*—See "Observatory" for May 1907, pp. 209 and 210, for 6074.
			1906.		1906.							
624	6026	711	Nov. 26	−33·4	Dec. 4	+78·1	9	31	202	225·04	+20·32	An irregular stream.
	6052	712	Dec. 21	−66·4	Dec. 25	−16·8	5	7	41	219·12	+19·62	A regular spot, with small distant unstable companions. *Note.*—6052 is a return of the rear part of 6026.

Correction.—Group 762 and Group 779, appearing under Reference Number 90 on page 12, should each be enclosed in brackets in this place; since, though they form part of the same general disturbance as Group 705 and Group 735, they do not form an uninterrupted continuation of the two earlier groups. They are correctly given, under Reference Number 96, as forming a distinct series.