NOTICE

The publication “Greenwich Photo-Heliographic Results; 1907, 1908” has been divided into its component years. The contents of the new files are as follows

1. Greenwich Photo-Heliographic Results; 1907

    Photographs of the Sun; 1907

    Measures of Positions and Areas of Sun Spots and Faculae; 1907

    Ledgers of Areas and Positions of Groups of Sun Spots; 1907

2. Greenwich Photo-Heliographic Results; 1908

    Photographs of the Sun; 1908

    Measures of Positions and Areas of Sun Spots and Faculae; 1908

    Ledgers of Areas and Positions of Groups of Sun Spots; 1908

Entered: W. Denig, 03 March 2013

(4-p) → 144, 165, 271, 279, 280, ~~313~~ 304, 313

GREENWICH

PHOTO-HELIOGRAPHIC

RESULTS.

1907, 1908.

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

1908.

PUBLISHED BY ORDER OF THE BOARD OF ADMIRALTY, IN OBEDIENCE TO HIS MAJESTY'S COMMAND.

EDINBURGH:
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1910.

ERRATA.

GREENWICH PHOTO-HELIOGRAPHIC RESULTS, 1908.

Measures of Positions and Areas of Sun Spots and Faculæ, 1908.

Page.	Column.	Line.	
*38**	1	22	No. of Group, *for* 6473, *read* 6476.
*40**	2	last line	No. of Group, *for* 6487, *read* 6488.

Also in the footnotes:—

Page.	
*2**	Group 6333, *insert* Probably a return of Group 6322.
	Group 6335, *for* Third apparition, *read* Fourth apparition.
	Group 6338, *for* Third apparition, *read* Fourth apparition.
*3**	Group 6340,* *insert* Revival of Group 6321.
	Group 6344, *for* Return of Group 6232*a*, *read* Return of Group 6323*a*.
*8**	Group 6357, *for* Fourth and last, *read* Fifth and last.
*11**	Group 6361, *for* Third and last, *read* Fourth and last.
*13**	Group 6372, *insert* Return of Group 6359.
*19**	Group 6391, *for* coalesing, *read* coalescing.
*23**	Group 6407, *insert* Possibly a return of Group 6392.*
*27**	Group 6423, *for* May 5–9, *read* May 5–8.
*28**	Group 6430, *for* May 9–11, *read* May 9–12.
*30**	Group 6443, *insert* Revival of Group 6426.
*33**	Group 6455, *insert* Revival of Group 6437.
*35**	Group 6466, *for* June 29–July 6, *read* June 28–July 6.
*38**	Group 6476, *for* July 13, *read* July 13–14.
	Group 6478, *for* July 14–23, *read* July 14–25.
	Group 6485, *for* July 17–19, *read* July 17–22; *insert* not seen on July 20 or 21.
*40**	Group 6488, *for* July 22–24, *read* July 22–25.
*42**	Group 6492, *for* August 3–11, *read* August 2–11.
*55**	Group 6532, *for* spot, *read* spots.

Ledgers of Sun Spots, 1908.

Page.	Group.	
*84**	6361	Head-note. *For* Third and last, *read* Fourth and last.

GREENWICH PHOTO-HELIOGRAPHIC RESULTS, 1908.

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* 1908; *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 1908 July, when new adjusting screws and blocks were being fitted to the 30-inch mirror, which is carried by the same equatorial,—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 & 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 upon each day in 1908, those finally selected for measurement being supplied by the different observatories as under :—

Greenwich	171
Dehra Dûn	161
Kodaikánal	26
Mauritius	8
Total	366

The measures were made in the manner described in the *Introduction to the Greenwich Photo-Heliographic Results* for 1907, and the results of the measures are printed upon the same plan, the following being the signatures of those persons who measured the photographs for the year 1908 :—

E. W. Maunder	M	C. F. Lait	CL
A. H. Smith	AS	F. A. Saville	FS

The zero of position-angles for the Thompson Photoheliograph employed at Greenwich has been determined by the same method as in 1907, and the following table gives the resulting correction for zero of position for the mean of the two wires :—

Thompson Photoheliograph.

Date, Greenwich Civil Time.			Correction for Zero.	Date, Greenwich Civil Time.			Correction for Zero.
		d h	° ′			d h	° ′
1907	December	9. 13	+ 0. 3	1908	August	29. 11	− 0. 5
1908	February	12. 11	− 0. 10		September	12. 10	− 0. 9
	March	6. 12	+ 0. 6			14. 15	+ 0. 12
		17. 13	− 0. 5			26. 10	− 0. 5
	April	9. 15	+ 0. 18			29. 15	+ 0. 11
	May	9. 12	+ 0. 12		October	3. 12	− 0. 2
		23. 13	+ 0. 7			6. 11	− 0. 2
	June	5. 15	+ 0. 1			30. 10	+ 0. 2
		29. 16	+ 0. 5		November	9. 12	− 0. 1
	July	14. 10	+ 0. 2			20. 12	− 0. 2
		31. 10	− 0. 5		December	8. 12	− 0. 1
	August	6. 15	− 0. 1			10. 13	− 0. 13
		7. 10	0. 0			28. 11	+ 0. 8
		17. 12	− 0. 2	1909	January	7. 11	+ 0. 6

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 photoheliograph at Dehra Dûn was brought into satisfactory adjustment by 1908 February 21, and, as a precaution against any future disturbance passing without record, the practice was adopted of stopping the driving-clock after the exposure of the plate had been made, and making a second exposure about two minutes later, thus affording a means for determining the true west point of the plate.

In the case of five photographs taken at Dehra Dûn, before the photoheliograph was brought into adjustment, and for which the error of position of the wires is not known, the measures of the areas have been used, and, for the identification of the spots and faculæ, a correction for zero of position has been estimated from a comparison with the photographs taken on the days immediately preceding and following. The heliographic longitudes and latitudes thus deduced for these five photographs are only approximate and have been placed in brackets.

Photographs taken at Mauritius in the year 1908 were only selected for measurement from those taken in the months of January and February, and for these the same correction for zero of position was adopted as during the latter part of the year 1907, viz., $-5^{\circ}\cdot4$.

The method of reduction of the measures of the photographs is the same as that described in the *Introduction to the Greenwich Photo-Heliographic Results for* 1907. The inclination of the Sun's axis to the ecliptic is assumed to be $82^{\circ}\ 45'$, the longitude of the ascending node for 1908·0 to be $74^{\circ}\ 28'\cdot6$, and the period of the Sun's sidereal rotation to be 25·38 days; the meridian which passed through the ascending node 1854 January 1, Greenwich Mean Noon, being taken as the zero meridian.

§ 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* 1908.

§ 3. *Catalogue of Recurrent Groups of Sun Spots compiled from the Ledgers of Groups of Sun Spots for the year* 1908.

§ 4. *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* 1908.

These three sections correspond in all respects to the corresponding sections for 1907.

W. H. M. CHRISTIE.

Royal Observatory, Greenwich,
1910 *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.

1908.

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 1908.

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).
1908.				°	°	°			
0·139	FS, AS		0·917	280·6	70·6	+ 8·5			129
		6334	0·778	262·6	56·0	− 7·7	0	7	192*sp*
		6329	0·390	333·7	15·5	+17·5	0	2	
		6329	0·404	337·0	14·7	+18·8	6	19	
		6331	0·234	327·6	12·3	+ 8·4	0	6	
		6331	0·250	330·1	12·3	+ 9·5	0	6	
		6329*	0·434	0·8	4·7	+22·7	0	3	
		6329*	0·393	2·3	4·1	+20·0	0	11	
		6329*	0·420	2·5	4·0	+21·7	3	19	
		6331†	0·255	27·7	358·2	+10·0	1	4	
K.		6333	0·878	93·7	303·8	− 4·7	0	29	
		6333	0·880	95·6	303·5	− 6·4	31	192	508*c*
		6333	0·913	95·8	299·2	− 6·6	5	26	
		6333	0·923	94·8	297·8	− 5·6	9	56	
			0·743	136·4	326·6	−34·8			96
			0·689	108·8	322·8	−15·0			75
			0·741	122·1	321·3	−25·3			390
			0·855	106·3	307·0	−15·4			113
			0·917	115·3	299·9	−24·3			92
			0·961	79·2	292·2	+ 9·5			150
Jan. 1				(+2·6)	(5·1)	(−3·0)	(55)	(380)	(1745)
1·430	FS, CL		0·830	241·7	41·6	−25·0			147
			0·692	245·0	29·6	−19·3			130
		6334*	0·957	262·8	61·2	− 7·8	0	15	223*f*
		6342*	0·117	125·1	342·6	− 7·0	0	7	
		6333	0·699	96·0	303·9	− 6·5	21	161	
		6333	0·750	95·6	299·6	− 6·3	0	89	777*c*
G.		6335*a*	0·955	75·1	276·9	+13·2	19	113	738*c*
		6336	0·959	79·9	275·6	+ 8·8	8	49	
		6337	0·985	80·6	268·9	+ 8·7	0	90	
			0·793	69·6	298·3	+14·0			65
			0·865	86·4	288·6	+ 1·5			225
			0·929	67·2	282·7	+19·8			364
Jan. 2				(+1·9)	(348·1)	(−3·2)	(48)	(524)	(2669)
1908.				°	°	°			
2·450	FS, AS		0·992	262·6	57·6	− 7·8			217
			0·774	249·3	24·1	−18·0			367
			0·699	302·6	13·2	+19·5			258
		6333	0·514	97·3	304·0	− 6·6	12	100	
		6333	0·558	97·6	301·0	− 7·0	0	29	
		6333	0·589	97·6	298·8	− 7·1	5	46	144*c*
		6333	0·589	93·6	298·7	− 4·8	0	6	
		6335*a*	0·871	72·3	276·3	+13·7	12	87	64*n*
		6336	0·874	78·0	275·0	+ 8·8	7	44	98*s*
G.		6337	0·928	80·0	267·6	+ 8·0	6	57	119*s*
		6339	0·959	81·2	262·1	+ 7·4	0	63	235*f*
		6338	0·964	77·2	261·4	+11·4	50	269	266*c*
		6340	0·987	77·0	255·1	+12·3	0	31	
			0·806	75·4	282·6	+ 9·7			435
			0·880	63·6	277·2	+21·2			593
			0·875	85·8	274·1	+ 2·1			146
			0·932	73·8	267·8	+13·8			556
Jan. 3				(+1·4)	(334·7)	(−3·3)	(92)	(732)	(3498)
3·472	FS, CL		0·802	282·5	13·2	+ 7·9			119
			0·828	297·2	12·7	+20·1			207
			0·738	305·0	1·9	+22·4			109
		6341	0·894	249·6	23·9	−19·7	0	21	245*nf*
		6341	0·875	247·9	21·2	−20·9	0	24	
		6342	0·278	263·2	337·2	− 5·2	0	17	
G.		6342	0·235	258·0	334·5	− 6·2	3	15	
		6333	0·306	100·6	303·7	− 6·5	7	120	
		6333	0·345	101·8	301·4	− 7·3	6	24	
		6333	0·370	93·7	299·6	− 4·6	0	7	
		6333	0·382	101·1	299·1	− 7·4	2	65	
		6335*a*	0·743	68·1	276·2	+13·7	10	76	124*p*
		6336	0·745	74·9	274·7	+ 8·8	0	20	94*s*
		6337	0·818	77·9	267·6	+ 7·9	4	33	59*f*

Group 6329, 1907 December 25–1908 January 1. A large regular spot, *a*.
Group 6333, 1907 December 30–1908 January 8. A number of spots, mostly small, in an irregular and very changeful stream.
Group 6329*, 1907 December 31–1908 January 1. Some small spots, *f* Group 6329.
Group 6334, 1907 December 31–1908 January 1. Some very small spots.
Group 6334*, 1908 January 2. A small spot, *f* the place of Group 6334.
Group 6336, January 2–6. A small regular spot, *s* Group 6335 and *p* Group 6337.
Group 6338, January 3–14. Return of Group 6319. ~~Third~~ apparition. A large regular spot, *a*, followed by a long scattered train.
Group 6339, January 3–12. An irregular stream, *s* Group 6338.
Group 6341, January 4–5. A few small faint spots in an irregular cluster.
Group 6342, January 4–9. A number of spots, mostly small, in a straight stream. The group steadily increases in size.
Group 6331, 1907 December 27–1908 January 1. A small spot, *a*, usually with some small companions.
Group 6331†, 1907 December 31–1908 January 1. A very small spot, *f* Group 6331.
Group 6342*, 1908 January 2. A very small spot, *p* the place of Group 6342.
Group 6335, January 2–10. Return of Group 6318. ~~Third~~ apparition. A regular spot, *a*.
Group 6337, January 2–7. A spot rapidly diminishing.
Group 6340, January 3–5. A 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).
1908.				°	°	°			
3·472	FS, CL	6339	0·867	79·7	262·2	+ 7·1	10	89	188*f*
		6339	0·886	79·0	260·0	+ 8·1	0	15	
		6338*a*	0·870	74·6	262·5	+11·6	46	252	824*c*
G.		6340	0·915	75·4	256·6	+11·9	0	42	
			0·819	58·4	272·0	+23·2			376
			0·817	86·6	266·8	+ 0·8			123
			0·859	104·5	262·3	−14·2			138
Jan. 4				(+0·9)	(321·2)	(−3·4)	(88)	(820)	(2606)
4·253	FS, CL		0·918	282·4	16·3	+ 9·9			80
			0·918	296·2	13·8	+22·4			295
			0·852	267·5	9·4	− 4·0			94
			0·821	300·5	0·7	+22·4			172
			0·748	248·1	357·9	−18·6			85
			0·741	292·1	355·8	+13·7			58
		6341	0·965	250·4	25·9	−19·8	9	37	
		6341	0·960	252·4	24·7	−17·8	0	7	363*nf*
		6341	0·949	251·1	22·4	−19·0	0	11	
		6342	0·472	267·8	339·1	− 4·2	18	48	
		6342	0·451	267·4	337·7	− 4·3	2	11	
		6342	0·429	265·9	336·3	− 4·9	0	3	
		6342	0·409	265·2	335·1	− 5·2	4	12	
		6342	0·385	265·3	333·6	− 5·0	5	23	
		6342†	0·526	334·0	325·6	+24·7	1	5	
		6342†	0·515	335·6	324·5	+24·5	0	5	
		6333	0·111	131·7	306·2	− 7·7	2	10	
		6333	0·116	107·6	304·7	− 5·5	0	15	
		6333	0·137	110·2	303·6	− 6·2	26	111	
		6333	0·168	109·2	301·9	− 6·6	0	2	
K.		6333	0·173	112·6	301·8	− 7·3	5	18	
		6333	0·208	109·4	299·6	− 7·4	9	67	
		6333	0·228	110·5	298·6	− 8·0	0	21	
		6333	0·240	114·2	298·2	− 9·1	0	26	
		6333*	0·477	93·7	282·6	− 4·9	0	4	
		6335*a*	0·626	63·1	276·1	+13·6	15	77	79*nf*
		6336	0·622	71·5	274·5	+ 8·5	5	10	
		6337	0·703	75·9	267·8	+ 7·3	5	22	92*c*
		6338	0·753	67·8	265·2	+14·1	0	6	
		6338*a*	0·778	72·3	262·1	+11·3	55	265	490*c*
		6338	0·808	71·6	259·4	+12·6	0	15	
		6339	0·764	78·3	262·3	+ 6·6	18	97	
		6339	0·784	77·4	260·7	+ 7·6	12	32	
		6339	0·815	78·8	257·6	+ 7·0	0	3	
		6340	0·842	73·3	255·7	+12·0	11	67	
		6340*	0·842	78·9	254·8	+ 7·4	0	11	
		6340*	0·845	77·3	254·7	+ 8·8	0	4	
		6343*a*	0·923	95·6	243·6	− 6·6	0	8	67*c*
		6343*b*	0·939	95·9	241·1	− 6·7	0	16	
		6344*a*	0·993	106·3	227·3	−16·6	32	125	95*p*
			0·773	55·4	267·2	+23·5			132

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).
1908.				°	°	°			
4·253	FS, CL		0·717	84·6	265·6	+ 1·4			71
			0·823	105·5	256·1	−14·7			138
K.			0·881	63·8	253·4	+21·0			88
			0·903	115·8	247·7	−24·7			160
			0·953	80·3	239·6	+ 8·1			298
Jan. 5				(+0·5)	(311·0)	(− 3·5)	(234)	(1194)	(2857)
5·142	FS, AS		0·949	(253·0	10·8	−17·2)			183
			0·929	(296·1	3·7	+22·6)			399
			0·862	(263·1	358·7	− 7·8)			94
			0·842	(287·2	354·4	+12·4)			129
			0·800	(253·8	351·7	−15·1)			308
			0·789	(274·0	350·9	+ 0·9)			147
			0·712	(292·0	341·6	+12·8)			159
			0·697	(243·8	341·0	−20·6)			206
		6345	0·711	(264·5	344·4	− 6·5)	5	24	68*c*
		6342	0·653	(267·2	339·9	− 4·6)	21	53	
		6342	0·627	(265·7	338·0	− 5·5)	0	3	
		6342	0·602	(266·6	336·1	− 5·0)	0	7	
		6342	0·575	(266·2	334·2	− 5·1)	7	35	
		6333	0·147	(241·1	306·6	− 7·7)	0	14	
		6333	0·117	(250·2	305·5	− 5·8)	0	14	
		6333	0·108	(239·1	304·5	− 6·7)	3	17	
		6333	0·097	(228·5	303·4	− 7·3)	0	6	
		6333	0·071	(215·2	301·6	− 7·0)	0	6	
		6333	0·092	(186·4	299·8	− 8·9)	0	5	
		6333	0·058	(182·7	299·4	− 7·0)	0	21	
		6333	0·093	(170·2	298·3	− 8·9)	0	33	
D.		6335*a*	0·481	(53·2	276·0	+13·4)	15	73	
		6336	0·469	(63·9	274·1	+ 8·6)	0	3	88*c*
		6337	0·532	(66·6	269·7	+ 9·1)	0	6	
		6337	0·551	(71·3	267·6	+ 7·1)	3	12	
		6338	0·606	(64·1	265·4	+12·3)	0	7	
		6338*a*	0·644	(67·8	261·9	+11·2)	54	292	
		6338	0·659	(70·6	260·2	+ 9·9)	3	11	321*c*
		6338	0·675	(68·2	259·6	+11·7)	0	12	
		6338	0·729	(69·8	255·0	+12·0)	7	36	
		6339	0·620	(74·8	262·3	+ 6·5)	15	73	
		6339	0·639	(73·2	261·2	+ 7·8)	3	12	
		6339	0·649	(76·1	260·0	+ 6·2)	0	11	
		6339	0·654	(78·3	259·4	+ 4·8)	0	6	
		6340	0·716	(74·8	255·1	+ 8·2)	5	30	
		6343*a*	0·807	(95·8	245·4	− 6·8)	4	25	135*c*
		6343*b*	0·845	(95·1	241·6	− 6·3)	12	27	
		6344*a*	0·949	(106·4	227·6	−16·7)	28	176	524*f*
			0·613	(50·4	269·2	+19·8)			149
			0·724	(57·8	258·7	+20·0)			323
			0·879	(79·7	238·8	+ 7·3)			221
			0·948	(71·5	229·9	+16·3)			231
Jan. 6				(+0·1)	(299·2)	(− 3·6)	(185)	(1050)	(3685)

January 6. The position-angles, and therefore the heliographic longitudes and latitudes, are only approximate on this day.
Group 6340*, January 5–8. Some small faint spots *s* of Group 6340. The seven groups, Nos. 6335, 6336, 6337, 6338, 6339, 6340 and 6340* make up a double "procession," the groups being arranged in two close parallel lines.
Group 6342†, January 5. A pair of very small spots.
Group 6333*, January 5. A very small spot. *n* Group 6333.
Group 6343, January 5–8. A pair of small spots, *a* and *b*.
Group 6344, January 5–12. Return of Group ~~6232a~~. A regular spot, *a*.
Group 6345, January 6. A 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).
1908.				°	°	°			
6·172	AS, CL		0·975	294·4	359·9	+22·8			240
			0·955	283·7	357·0	+11·9			181
			0·946	250·6	356·6	−19·5			256
			0·909	258·0	351·0	−12·4			235
			0·862	264·6	345·2	− 6·6			150
			0·841	292·2	339·7	+16·3			137
			0·816	249·9	339·4	−18·5			220
			0·837	237·6	339·2	−28·8			99
			0·798	284·5	337·0	+ 9·2			81
			0·720	254·7	331·1	−13·6			99
		6342	0·815	266·9	340·2	− 4·7	14	83	
		6342	0·798	267·3	338·6	− 4·4	0	3	
		6342	0·791	265·6	337·9	− 5·8	4	22	
		6342	0·775	265·6	336·4	− 5·8	0	6	125c
		6342	0·768	267·5	335·8	− 4·3	4	18	
		6342	0·757	265·5	334·8	− 5·8	0	6	
		6342	0·746	266·7	333·9	− 5·0	0	18	
		6333	0·339	262·0	305·3	− 6·2	4	16	
		6333	0·319	259·4	304·0	− 6·9	0	6	
		6333	0·291	257·3	302·3	− 7·3	0	6	
		6333	0·254	249·4	299·6	− 8·7	0	9	
		6335a	0·334	28·0	276·5	+13·4	14	50	
K.		6337	0·428	57·3	264·3	+ 9·9	0	3	
		6339	0·424	65·5	262·9	+ 6·7	5	11	
		6339	0·443	62·9	262·3	+ 8·2	0	3	
		6339	0·437	65·8	262·1	+ 6·9	6	23	
		6339	0·451	68·2	260·9	+ 6·2	1	10	
		6339	0·485	62·1	260·0	+ 9·8	0	7	
		6339	0·469	68·5	259·8	+ 6·6	0	11	
		6338a	0·462	57·2	262·5	+11·1	42	263	
		6338	0·544	58·9	257·3	+13·0	0	4	
		6338	0·536	62·1	256·9	+11·2	0	7	
		6338	0·568	62·1	254·9	+12·2	4	12	
		6340	0·546	68·5	254·9	+ 8·4	2	11	
		6343a	0·625	95·9	247·1	− 6·6	0	8	49c
		6343b	0·692	95·0	242·0	− 6·2	0	9	
		6344a	0·859	107·1	227·0	−16·5	15	92	194nf
			0·789	78·6	234·8	+ 6·6			176
			0·825	67·2	233·5	+16·3			135
			0·887	111·6	224·0	−20·8			265
			0·931	59·8	222·0	+26·3			147
			0·919	70·5	221·4	+16·3			260
			0·931	83·2	217·8	+ 5·0			101
			0·940	107·5	215·7	−17·7			257
			0·976	102·4	208·0	−12·9			144
Jan. 7				(−0·4)	(285·7)	(−3·7)	(115)	(717)	(3551)
7·131	FS, CL		0·953	262·0	345·6	− 8·8			201
			0·943	252·5	343·6	−17·7			441
1908.				°	°	°			
7·131	FS, CL		0·938	286·1	340·9	+13·7			240
			0·919	242·1	338·6	−27·0			174
			0·836	255·7	329·5	−14·0			143
			0·834	304·9	322·5	+26·0			98
			0·830	226·4	322·1	−37·4			141
			0·759	236·8	318·4	−27·1			325
		6342	0·923	266·5	340·4	− 4·7	15	64	
		6342	0·913	265·5	339·0	− 5·6	34	134	201c
		6342	0·886	266·4	335·5	− 5·0	4	34	
		6342	0·877	265·3	334·4	− 6·0	0	80	
		6333	0·538	263·7	305·5	− 6·6	0	12	
		6333	0·468	255·5	300·4	−10·1	0	11	
		6333	0·462	261·5	300·4	− 7·3	0	6	
		6333	0·436	257·8	298·5	− 8·8	0	7	
		6335a	0·308	348·9	276·6	+13·7	13	40	
		6339	0·269	43·3	262·4	+ 7·5	13	42	
		6339	0·292	44·3	261·3	+ 8·4	4	11	
		6339	0·275	48·4	261·2	+ 6·7	0	11	
		6339	0·301	49·8	259·8	+ 7·5	0	8	
		6338a	0·318	33·9	262·7	+11·5	50	259	
K.		6338	0·330	42·0	260·2	+10·4	2	7	
		6338	0·373	37·8	259·6	+13·4	0	11	
		6338	0·402	43·2	256·7	+13·3	0	15	
		6338	0·428	46·1	254·7	+13·6	0	5	
		6338	0·408	52·0	254·1	+10·9	0	3	
		6340	0·373	53·4	255·5	+ 9·2	6	29	
		6343a	0·455	95·6	246·1	− 5·9	0	3	
		6343b	0·519	94·6	241·9	− 5·6	0	2	
		6344a	0·735	108·4	226·8	−16·0	25	119	390c
			0·671	72·8	232·9	+ 8·5			113
			0·718	58·6	232·9	+19·0			192
			0·696	98·8	229·1	− 8·9			69
			0·826	66·4	221·0	+16·9			200
			0·818	81·4	219·1	+ 4·8			128
			0·875	56·7	218·5	+26·5			126
			0·816	92·2	218·5	− 4·0			148
			0·877	108·8	212·4	−18·3			326
			0·907	69·5	210·7	+16·8			162
			0·896	98·9	209·4	− 9·7			127
			0·939	78·9	204·4	+ 9·1			114
Jan. 8				(−0·8)	(273·1)	(−3·8)	(166)	(913)	(4059)
8·128	FS, CL		0·971	282·7	334·7	+11·3			233
			0·898	247·4	323·1	−22·0			544
			0·869	273·1	319·9	+ 0·8			118
			0·863	286·3	317·5	+11·9			97
			0·700	264·8	304·3	− 6·5			193
		6342	0·984	265·7	339·7	− 5·0	22	270	429c
		6342	0·968	265·6	335·4	− 5·2	15	248	

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).
1908.				°	°	°			
8·128	FS, CL	6335*a*	0·410	318·0	276·3	+14·0	5	27	
		6339	0·205	348·9	262·2	+ 7·7	5	69	
		6339	0·154	353·5	260·9	+ 4·9	0	3	
		6339	0·201	359·3	260·0	+ 7·7	0	11	
		6339	0·171	2·7	259·4	+ 5·9	0	2	
		6338*a*	0·271	350·5	262·5	+11·5	41	257	
		6338	0·303	2·5	259·1	+13·7	0	6	
K.		6344*a*	0·575	112·7	226·5	−16·1	15	91	
			0·686	113·6	218·4	−18·9			230
			0·787	100·9	208·2	−11·0			223
			0·871	119·8	201·5	−27·7			139
			0·912	111·9	194·7	−21·5			101
			0·911	93·4	194·3	− 4·7			166
			0·930	75·4	193·2	+12·0			186
Jan. 9				(−1·3)	(259·9)	(−3·9)	(103)	(984)	(2659)
9·477	FS, M		0·919	242·5	307·8	−26·8			214
			0·859	263·0	301·4	− 8·1			242
		6335*a*	0·626	298·3	276·5	+13·8	5	22	
		6339	0·412	298·2	263·5	+ 7·4	3	20	
		6339	0·388	295·1	262·7	+ 5·6	4	33	
		6339	0·344	299·9	259·5	+ 5·9	6	44	
G.		6338*a*	0·435	306·1	263·0	+11·0	47	262	
		6344*a*	0·339	128·1	226·1	−16·0	13	90	
		6346*a*	0·978	68·4	166·7	+20·1	0	69	120*c*
			0·790	78·2	191·2	+ 6·7			139
			0·811	88·2	188·1	− 1·0			184
			0·862	67·4	185·9	+17·1			156
			0·885	99·2	179·8	−10·1			121
Jan. 10				(−2·0)	(242·1)	(−4·1)	(78)	(540)	(1176)
10·496	FS, AS		0·938	262·8	298·6	− 8·2			388
			0·782	269·1	280·0	− 3·3			132
			0·823	295·6	279·9	+18·2			285
			0·793	284·0	279·6	+ 8·4			484
			0·764	306·1	270·9	+23·7			166
		6339	0·624	290·8	264·8	+ 9·4	0	4	
		6339	0·604	288·2	263·9	+ 7·4	0	4	
		6339	0·592	284·2	263·7	+ 4·9	0	8	109*c*
G.		6339	0·542	288·2	259·8	+ 6·1	5	27	
		6338*a*	0·610	294·6	263·0	+11·2	41	268	
		6344*	0·147	319·4	234·2	+ 2·3	0	4	
		6344*a*	0·202	167·2	226·0	−15·6	10	100	
		6347	0·295	157·4	221·8	−19·9	0	10	
		6346*a*	0·914	65·9	166·3	+20·0	11	50	344*c*
		6348*a*	0·889	99·3	165·9	−10·2	10	49	257*c*
		6349*a*	0·991	93·9	146·4	− 4·4	0	353	
Jan. 11				(−2·5)	(228·7)	(−4·2)	(77)	(877)	(2165)
1908.				°	°	°			
11·503	FS, AS		0·926	278·8	282·3	+ 6·5			356
			0·915	286·8	279·5	+13·4			216
			0·915	294·5	277·9	+20·3			181
			0·865	271·0	275·2	− 1·3			236
			0·841	282·1	271·4	+ 7·7			240
			0·863	303·2	268·5	+25·6			245
			0·793	296·4	263·6	+17·8			502
		6339	0·761	280·7	264·0	+ 5·2	3	28	105*c*
		6339	0·720	282·4	260·3	+ 5·9	3	25	
G.		6338*a*	0·771	288·6	263·5	+11·4	23	234	88*c*
		6344*a*	0·274	223·3	226·7	−15·7	8	92	
		6348*a*	0·756	99·9	166·5	−10·3	10	54	166*f*
		6346*a*	0·815	61·9	165·8	+19·8	5	72	374*c*
		6349*a*	0·934	92·9	146·5	− 4·3	31	261	251*sf*
			0·857	87·8	156·8	− 0·4			241
			0·876	109·2	154·7	−18·9			152
			0·932	71·9	149·1	+15·1			193
			0·952	85·7	143·9	+ 2·8			220
			0·957	100·4	142·1	−11·2			174
Jan. 12				(−3·0)	(215·5)	(−4·3)	(83)	(766)	(3940)
12·462	FS, AS		0·900	271·3	266·7	− 0·8			161
			0·905	279·0	266·6	+ 6·2			477
			0·882	297·6	259·9	+21·8			406
		6338*a*	0·884	285·3	263·0	+11·3	22	283	682*c*
		6344*a*	0·440	241·8	226·5	−16·0	10	71	
		6348*a*	0·588	101·0	167·1	−10·0	0	30	105*f*
		6346*a*	0·693	54·9	165·8	+20·0	6	56	75*c*
		6349	0·808	95·9	148·9	− 7·4	0	12	
G.		6349*a*	0·831	92·1	146·6	− 4·2	27	238	261*c*
		6349	0·837	96·4	145·9	− 7·8	0	34	
			0·788	57·8	157·1	+21·7			294
			0·819	72·0	150·2	+12·0			124
			0·860	82·3	144·3	+ 4·4			210
			0·863	106·6	143·4	−16·5			100
			0·904	63·1	142·6	+22·0			158
			0·896	98·2	139·1	− 9·3			229
Jan. 13				(−3·4)	(202·8)	(−4·4)	(65)	(724)	(3282)
13·542	FS, M		0·762	284·4	236·6	+ 7·9			131
		6338*a*	0·971	282·9	263·3	+11·4	23	252	726*c*
		6344*a*	0·630	249·6	226·4	−16·2	9	53	
		6348*a*	0·375	105·0	167·1	− 9·8	0	6	
G.		6346*a*	0·549	42·1	165·7	+19·8	6	33	
		6349	0·628	90·7	149·7	− 4·0	0	13	
		6349*a*	0·664	91·1	147·0	− 4·2	37	210	148*c*
		6349	0·684	92·3	145·5	− 4·8	7	37	
			0·741	84·7	141·2	+ 0·9			215

Group 6346, January 10–16. A small regular spot.
Group 6344*, January 11. A very small spot.
Group 6347, January 11. A small faint spot.
Group 6348, January 11–14. A small regular spot.
Group 6349, January 11–23. Return of Group 6324. A large regular spot, *a*, followed 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).
1908.				°	°	°			
13·542	FS, M		0·744	100·1	140·6	−10·6			179
G.			0·841	92·7	131·4	− 4·7			183
			0·964	98·0	113·7	− 8·9			168
Jan. 14				(−3·9)	(188·6)	(−4·5)	(82)	(604)	(1750)
14·515	FS, AS		0·923	300·1	237·8	+25·5			160
			0·883	279·9	236·7	+ 6·5			264
			0·856	292·2	231·3	+16·3			251
			0·753	298·5	219·6	+17·7			112
		6344*a*	0·778	252·6	226·3	−16·4	13	65	453*8f*
		6346*a*	0·447	22·4	165·4	+19·8	4	21	
		6349	0·420	95·6	151·0	− 6·6	0	3	
		6349*a*	0·481	90·3	147·1	− 4·2	26	207	
G.		6349	0·493	96·7	146·4	− 7·3	0	6	91*c*
		6349	0·510	91·6	145·2	− 4·8	3	16	
		6349	0·514	89·2	144·9	− 3·6	0	5	
			0·741	92·8	128·0	− 5·2			139
			0·828	75·6	121·7	+ 9·2			126
			0·915	66·4	113·3	+19·3			146
			0·911	99·6	110·0	−10·6			266
			0·932	93·0	107·1	− 4·5			139
Jan. 15				(−4·4)	(175·8)	(−4·6)	(46)	(323)	(2147)
15·247	CL, AS		0·947	279·3	236·4	+ 7·2			249
			0·904	293·0	227·3	+18·4			296
			0·806	238·4	217·0	−28·0			140
		6344*a*	0·868	253·8	226·3	−16·4	11	36	479*c*
		6350*a*	0·231	185·0	167·4	−18·0	5	11	
		6350	0·236	182·0	166·7	−18·3	1	6	
		6350*b*	0·227	172·4	164·4	−17·7	3	11	
M.		6346*a*	0·420	2·8	165·0	+20·0	5	10	
		6349*a*	0·328	89·0	147·1	− 4·1	38	199	
		6349	0·360	91·4	145·1	− 4·9	9	17	
		6349	0·363	95·0	145·0	− 6·2	0	4	
		6349	0·382	91·5	143·8	− 5·0	0	5	
			0·850	102·6	108·0	−13·1			149
			0·946	102·1	94·8	−13·0			232
Jan. 16				(−4·7)	(166·2)	(−4·7)	(72)	(299)	(1545)
16·240	CL, AS		0·944	287·9	221·4	+15·1			265
			0·926	301·0	215·1	+26·2			219
			0·875	267·0	214·2	− 5·0			146
			0·814	282·7	206·1	+ 7·4			85
M.		6344*a*	0·950	254·2	225·3	−16·5	6	23	571*c*
		6351*a*	0·854	254·0	211·6	−16·2	5	19	146*c*
		6351*b*	0·830	252·5	208·8	−17·2	4	12	
1908.				°	°	°			
16·240	CL, AS	6350*a*	0·346	228·6	168·8	−17·8	4	12	
		6350	0·340	226·3	168·0	−18·2	0	3	
		6350	0·296	219·5	164·5	−17·9	0	4	
		6350*b*	0·279	221·2	164·1	−16·8	2	10	
		6349*a*	0·099	81·9	147·5	− 4·0	36	208	
		6349	0·141	89·9	145·0	− 4·8	6	12	
		6349	0·151	88·7	144·4	− 4·6	0	2	
M.		6352	0·160	37·4	147·5	+ 2·5	0	5	
		6352	0·171	46·7	146·0	+ 2·0	0	2	
		6353*a*	0·899	96·2	88·9	− 7·7	0	9	144*p*
		6353*b*	0·909	97·1	87·5	− 8·5	0	11	
			0·842	144·0	107·6	−46·2			182
			0·714	97·6	107·5	− 8·8			155
			0·852	105·2	94·8	−15·4			178
Jan. 17				(−5·2)	(153·1)	(−4·8)	(63)	(332)	(2091)
17·141	FS, AS		0·981	251·2	220·9	−19·4			573
			0·952	294·1	209·6	+21·1			175
			0·919	275·2	207·3	+ 2·8			137
			0·835	287·2	195·5	+11·4			125
		6351*a*	0·948	254·5	213·1	−16·3	6	74	298*c*
		6351*b*	0·919	252·7	208·1	−17·8	17	67	
		6350*a*	0·509	242·6	169·4	−17·8	0	6	
		6350*b*	0·433	238·6	163·9	−17·5	0	6	
K.		6349*a*	0·119	277·9	148·0	− 4·0	40	214	
		6349	0·065	271·9	144·9	− 4·8	3	8	
		6349	0·054	263·1	144·3	− 5·2	0	4	
		6349	0·044	237·2	143·3	− 6·3	0	3	
		6349*	0·575	99·0	106·2	− 9·2	0	8	
		6353*a*	0·770	95·5	90·8	− 7·4	0	5	194*c*
		6353*b*	0·798	96·3	88·2	− 8·0	2	20	
			0·888	71·7	81·2	+13·7			160
			0·952	98·3	68·7	− 9·5			207
Jan. 18				(−5·6)	(141·2)	(−4·9)	(68)	(415)	(1869)
18·151	CL, AS		0·878	268·0	189·3	− 4·1			128
			0·865	278·3	186·9	+ 4·7			118
			0·881	291·6	186·3	+16·3			172
			0·639	261·2	167·5	− 9·4			58
		6351*b*	0·985	252·6	208·9	−18·0	3	50	217*c*
K.		6349*a*	0·345	271·9	148·0	− 4·0	28	187	
		6349	0·293	269·8	144·9	− 4·8	1	4	
		6353*	0·634	97·2	76·7	− 8·4	3	6	
			0·830	99·3	71·7	−10·4			119
			0·909	110·6	62·6	−20·8			112
			0·927	96·6	59·8	− 8·0			157
Jan. 19				(−6·1)	(127·9)	(−4·9)	(35)	(247)	(1081)

Group 6350, January 16–18. A wide pair of small spots, *a* and *b*, sometimes with one or two smaller spots between them.
Group 6351, January 17–19. A pair of spots, *a* and *b*. *a* has passed out of sight at the west limb by January 19.
Group 6352, January 17. Two very small spots.
Group 6353, January 17–27. A pair of small spots, *a* and *b*, on January 17 and 18. The group is not seen on January 19 and 20, but has reappeared by January 21 and rapidly develops into a fine stream of normal type. The first and last spots, *c* and *d*, are the largest and most stable.
Group 6349*, January 18. A very small spot.
Group 6353*, January 19–20. A very small spot, *f* Group 6353.

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).
1908.				°	°	°			
19·497	FS, CL		0·840	256·0	167·4	−14·6			187
			0·841	299·7	161·8	+21·5			146
		6349*a*	0·615	269·9	148·1	− 4·1	30	189	
G.		6353*	0·546	98·4	77·2	− 8·9	0	5	
			0·715	96·2	64·5	− 8·0			171
			0·834	93·0	53·7	− 5·3			185
			0·971	106·8	33·4	−17·5			280
Jan. 20				(−6·7)	(110·2)	(−5·1)	(30)	(194)	(969)
(20·391)	AS, CL		0·935	257·3	(168·0)	−13·7			206
			0·927	297·8	(161·4)	+23·3			169
			0·792	281·7	(149·5)	+ 6·0			97
M.		6349*a*	0·773	269·4	(149·0)	− 3·7	33	183	133*c*
		6353	0·135	111·7	(91·2)	− 7·9	2	7	
		6353	0·166	109·6	(89·3)	− 8·2	3	17	
			0·941	108·7	(27·9)	−19·3			359
Jan. 21				(−7·0)	(98·4)	(−5·1)	(38)	(207)	(964)
21·137	FS, AS		0·968	256·8	164·7	−14·1			213
			0·947	294·5	155·9	+21·2			152
			0·929	283·0	155·2	+10·0			133
			0·863	262·7	148·4	− 8·9			185
			0·847	250·2	146·1	−19·5			111
			0·853	295·0	142·8	+18·1			76
			0·818	279·8	142·4	+ 5·0			162
		6349*a*	0·869	268·6	148·9	− 3·8	28	170	141*n*
		6353	0·089	242·2	93·1	− 7·5	8	33	
		6353	0·075	250·1	92·7	− 6·6	0	2	
K.		6353	0·070	224·1	91·4	− 8·1	2	19	
		6353	0·052	231·0	90·9	− 7·1	0	7	
		6353	0·033	234·1	90·1	− 6·3	0	6	
		6353	0·057	195·7	89·5	− 8·4	8	33	
		6354*a*	0·964	78·4	15·5	+ 9·8	15	70	193*f*
			0·867	68·2	31·9	+16·0			89
			0·888	78·1	27·4	+ 8·1			107
			0·879	102·2	26·8	−13·3			144
			0·916	110·7	22·2	−21·1			415
			0·972	69·0	15·1	+19·0			135
Jan. 22				(−7·5)	(88·6)	(−5·2)	(61)	(340)	(2256)
22·244	CL, AS		0·941	276·2	143·6	+ 4·0			108
			0·893	270·8	137·2	− 1·7			38
			0·887	263·1	136·8	− 8·6			74
M.		6349*a*	0·966	268·1	149·2	− 3·2	24	191	252*c*
		6353*c*	0·376	261·7	96·1	− 8·1	21	108	
		6353	0·344	262·4	94·1	− 7·6	6	24	
		6353	0·318	260·2	92·5	− 8·2	1	7	
1908.				°	°	°			
22·244	CL, AS	6353	0·313	263·9	92·3	− 7·0	0	3	
		6353	0·298	258·5	91·2	− 8·5	1	7	
		6353	0·283	261·2	90·4	− 7·6	7	26	
		6353	0·286	252·8	90·1	−10·0	0	5	
		6353*d*	0·269	257·5	89·4	− 8·5	23	85	
M.		6353	0·265	253·0	88·9	− 9·6	0	4	
		6354*a*	0·871	76·7	15·3	+ 8·8	11	57	112*f*
			0·824	111·4	19·3	−20·6			182
			0·943	63·5	8·0	+22·8			226
			0·948	77·4	4·3	+10·2			130
			0·969	107·5	357·6	−18·3			225
Jan. 23				(−8·0)	(74·1)	(−5·3)	(94)	(517)	(1347)
23·132	FS, CL		0·935	272·9	131·2	+ 0·8			124
			0·928	261·1	130·9	−10·3			184
			0·767	275·4	112·0	+ 0·7			119
			0·748	260·8	110·9	−10·5			130
		6353*c*	0·568	261·9	97·0	− 9·1	16	85	
		6353	0·557	262·9	96·2	− 8·4	0	1	
		6353	0·538	263·1	94·9	− 8·2	9	28	
		6353	0·521	263·3	93·8	− 8·1	0	13	
		6353	0·505	264·2	92·7	− 7·6	7	32	
		6353	0·485	262·0	91·3	− 8·6	1	6	59*c*
		6353	0·472	264·5	90·6	− 7·4	0	2	
		6353	0·468	258·1	90·0	−10·3	2	22	
		6353*d*	0·457	261·3	89·5	− 8·8	42	174	
		6353	0·441	257·1	88·2	−10·6	0	18	
		6355	0·589	53·3	33·1	+15·9	4	10	
K.		6355	0·599	55·3	31·8	+15·2	0	1	
		6355	0·613	56·2	30·6	+15·3	0	4	
		6354*a*	0·750	72·7	16·1	+ 9·2	12	45	
		6354	0·756	74·9	15·2	+ 7·7	0	3	102*f*
		6354	0·763	73·2	14·9	+ 9·1	2	4	
			0·730	111·7	16·6	−19·5			131
			0·811	65·9	12·3	+15·9			63
			0·846	57·1	11·5	+24·0			116
			0·875	73·2	3·7	+11·9			157
			0·928	61·8	359·3	+23·7			138
			0·897	87·8	358·9	− 0·5			67
			0·912	104·3	356·3	−15·3			442
			0·916	95·1	355·8	− 6·9			232
			0·942	114·0	351·8	−24·4			226
Jan. 24				(−8·4)	(62·4)	(−5·4)	(95)	(448)	(2290)
24·129	AS, M		0·891	260·1	112·5	−11·3			194
			0·855	273·5	107·6	+ 0·1			95
K.		6353*c*	0·748	263·5	97·7	− 8·5	16	76	
		6353	0·731	263·9	96·3	− 8·2	2	12	

January 21. A mistake between Mauritius and Greenwich time has apparently been made in dating this photograph. The time has therefore been advanced $3^h\ 50^m$ corresponding to the longitude of Mauritius East of Greenwich, and the heliographic longitudes of the spots and faculæ have been diminished by 2°·1.

Group 6354, January 22–27. A small regular spot, *a*, sometimes followed by one or two very small companions.

Group 6355, January 24. A few small spots in a short 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).
1908.				°	°	°			
24·129	AS, M	6353	0·717	265·8	95·1	− 6·9	0	3	
		6353	0·704	264·8	94·0	− 7·5	6	29	110c
		6353	0·680	264·1	92·1	− 8·0	0	5	
		6353d	0·642	262·9	89·2	− 8·8	27	160	
		6354a	0·581	66·9	16·6	+ 8·5	5	19	
		6354	0·590	70·2	15·3	+ 6·9	0	3	
K.			0·737	53·4	9·8	+21·8			58
			0·765	70·0	2·2	+11·4			99
			0·857	55·7	357·7	+25·5			96
			0·846	106·5	351·5	−16·9			620
			0·915	94·2	342·8	− 6·1			510
			0·944	72·3	341·0	+14·7			163
			0·941	117·1	338·9	−27·3			376
Jan. 25				(−8·8)	(49·2)	(−5·5)	(56)	(307)	(2321)
25·125	FS, AS		0·958	257·3	110·0	−13·7			145
			0·937	273·8	105·1	+ 1·6			119
		6353c	0·879	262·7	97·9	− 9·1	13	87	
		6353	0·858	263·1	95·4	− 8·8	9	52	257c
		6353	0·823	262·7	91·7	− 9·2	0	5	
		6353d	0·802	262·6	89·6	− 9·3	17	155	
		6354a	0·400	53·1	17·3	+ 8·5	0	9	
K.			0·739	47·6	359·1	+25·4			81
			0·766	107·2	346·5	−16·8			260
			0·833	91·0	339·7	− 3·9			356
			0·856	119·7	338·8	−28·2			181
			0·914	67·9	333·6	+17·6			145
			0·940	80·3	327·4	+ 7·1			129
			0·948	110·4	324·1	−21·1			307
			0·969	93·5	320·3	− 4·8			197
Jan. 26				(−9·2)	(36·1)	(−5·6)	(39)	(308)	(2177)
26·128	AS, CL		0·918	254·2	90·0	−16·8			
			0·860	287·2	79·7	+11·6			99
			0·775	258·0	73·7	−12·9			97
			0·730	288·5	67·3	+ 9·3			102
			0·663	265·2	64·5	− 7·5			73
		6353c	0·962	261·6	97·6	− 9·7	32	189	92
		6353	0·923	261·9	90·6	− 9·7	0	13	
K.		6353d	0·916	262·6	89·6	− 9·1	25	110	387c
		6354a	0·259	19·7	17·9	+ 8·4	0	4	
		6354*	0·614	91·5	345·0	− 5·5	1	8	
			0·753	59·6	339·9	+18·2			63c
			0·706	112·5	339·2	−19·8			120
			0·768	88·5	332·9	− 2·5			116
			0·802	123·3	332·5	−29·8			223
			0·838	111·1	326·4	−20·8			190
			0·889	64·6	324·7	+19·5			244
									118
1908.				°	°	°			
26·128	AS, CL		0·872	76·3	324·0	+ 9·0			156
			0·861	99·1	323·2	−10·7			146
K.			0·927	91·7	315·0	− 3·7			183
			0·940	108·1	312·3	−18·9			144
			0·943	117·9	312·3	−28·1			229
			0·975	98·8	305·1	− 9·9			208
Jan. 27				(−9·7)	(22·9)	(−5·7)	(58)	(324)	(2990)
27·509	FS, M		0·989	260·5	86·7	−10·2			186
			0·884	260·9	67·2	−10·8			362
			0·872	272·9	65·0	− 0·4			162
			0·868	284·2	63·0	+ 9·2			170
			0·765	91·8	314·8	− 5·1			374
G.			0·807	120·1	313·0	−27·5			701
			0·887	97·1	301·9	− 9·0			561
			0·921	115·5	297·6	−25·7			230
			0·952	68·8	295·9	+18·1			183
			0·951	79·7	294·1	+ 7·9			517
Jan. 28				(−10·3)	(4·7)	(−5·8)	(0)	(0)	(3446)
28·524	FS, AS		0·911	283·3	55·2	+ 9·6			137
		6356a	0·952	63·4	283·9	+23·1	24	174	406c
			0·719	127·3	310·2	−30·1			122
			0·754	98·9	302·3	−10·6			267
G.			0·819	119·4	298·3	−27·2			168
			0·884	89·2	289·4	− 2·1			193
			0·911	69·2	289·1	+16·2			232
			0·900	76·7	289·0	+ 9·3			490
			0·949	82·9	280·7	+ 4·9			303
Jan. 29				(−10·7)	(351·4)	(−5·8)	(24)	(174)	(2318)
29·126	FS, CL		0·935	259·9	53·2	−11·6			90
			0·910	270·4	48·8	− 2·1			201
			0·843	241·0	39·4	−27·5			92
			0·775	249·3	33·5	−19·7			133
			0·669	242·0	23·1	−22·8			133
		6356a	0·913	61·3	283·0	+23·2	31	207	223nf
K.		6357a	0·976	77·2	267·7	+11·1	9	18	119f
			0·661	128·9	307·4	−29·2			132
			0·694	99·4	299·4	−10·7			186
			0·829	75·1	289·4	+ 8·9			248
			0·835	118·5	288·2	−26·9			135
			0·883	67·0	285·4	+17·1			137
			0·864	88·5	283·8	− 1·7			273
			0·883	109·2	281·3	−19·7			152

Group 6354*, January 27. A very small spot.
Group 6356, January 29–February 7. A regular spot, *a*, frequently followed by some small companions.
Group 6357, January 30–February 3. Return of Group 6338. ~~Fourth~~ and last apparition. A small spot, *a*.

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).
1908.				°	°	°			
29·126	FS, CL		0·924	100·3	275·4	−11·8			116
K.			0·953	82·7	272·0	+ 5·1			275
			0·979	72·4	267·6	+15·9			250
Jan. 30				(−11·0)	(343·4)	(− 5·9)	(40)	(225)	(2895)
30·129	FS, M		0·893	258·6	33·8	−12·8			88
			0·912	292·0	32·3	+17·2			102
			0·831	245·2	25·5	−23·8			116
		6356*a*	0·809	56·3	283·6	+22·5	35	218	} 392*c*
		6356	0·837	54·5	281·6	+25·1	0	8	
K.		6357*a*	0·899	74·6	268·4	+11·0	3	12	134*f*
			0·755	70·7	284·0	+10·3			264
			0·843	81·6	273·7	+ 3·7			313
			0·928	60·7	267·7	+24·3			105
			0·924	70·0	265·9	+15·9			360
			0·936	82·7	261·7	+ 4·7			361
Jan. 31				(−11·4)	(330·2)	(−6·0)	(38)	(238)	(2235)
31·465	FS, CL		0·895	248·9	16·3	−21·6			266
			0·899	281·7	15·1	+ 7·7			206
			0·857	297·2	6·4	+19·5			274
			0·813	289·1	4·1	+11·7			185
		6354†	0·902	289·2	14·0	+14·4	0	7	120*p*
		6358	0·431	60·5	290·5	+ 6·6	1	5	
		6356*a*	0·645	44·5	283·5	+22·0	22	242	} 382*c*
		6356	0·704	43·5	280·2	+25·5	0	18	
		6357*a*	0·733	69·0	268·6	+10·8	3	13	87*f*
G.			0·740	54·0	272·8	+21·1			97
			0·697	76·8	269·9	+ 4·7			190
			0·834	51·1	265·8	+27·4			133
			0·795	61·9	265·3	+17·8			346
			0·827	82·0	257·7	+ 3·1			121
			0·863	70·6	256·0	+13·3			223
			0·918	58·3	252·5	+25·9			170
			0·880	98·1	250·6	−10·0			249
			0·947	74·7	243·6	+12·3			131
			0·940	83·3	243·4	+ 4·2			189
Feb. 1				(−12·0)	(312·6)	(−6·1)	(26)	(285)	(3369)
32·139	FS, CL		0·942	251·2	14·9	−19·7			117
			0·926	283·0	9·8	+ 9·6			260
			0·908	298·7	3·4	+22·8			129
K.			0·750	252·7	352·1	−17·0			358
			0·900	118·3	240·1	−28·1			90
		6356*a*	0·563	33·0	284·5	+22·4	28	142	
		6356	0·586	35·4	282·3	+22·8	6	53	
		6356	0·636	34·3	280·4	+26·1	2	5	
1908.				°	°	°			
32·139	FS, CL	6357*a*	0·632	63·7	268·7	+11·2	3	11	97*n*
			0·810	46·6	261·5	+29·3			67
			0·792	67·9	255·0	+13·3			142
K.			0·908	58·8	245·0	+25·0			187
			0·902	78·3	241·0	+ 7·8			295
			0·944	104·8	232·4	−16·0			178
Feb. 2				(−12·2)	(303·8)	(−6·1)	(39)	(211)	(1920)
33·139	FS, AS		0·963	286·2	2·5	+13·7			181
			0·947	299·2	356·3	+25·1			145
			0·894	265·4	354·2	− 6·9			176
			0·887	257·3	353·5	−14·1			268
			0·877	247·5	351·8	−22·7			206
			0·789	261·6	342·9	−10·4			105
			0·817	293·2	341·4	+14·9			120
			0·761	247·6	339·3	−20·9			168
			0·749	270·1	339·1	− 4·1			165
			0·772	236·3	338·0	−29·6			140
		6359	0·726	255·0	337·0	−15·1	0	5	} 121*c*
K.		6359*a*	0·702	254·0	334·9	−15·6	6	25	
		6356*a*	0·488	12·2	284·2	+22·2	27	155	
		6356	0·500	15·5	282·3	+22·5	9	28	
		6356	0·506	17·0	281·4	+22·7	0	5	
		6356	0·555	16·7	280·4	+25·9	0	5	
		6357*a*	0·470	51·8	268·6	+11·1	0	9	
			0·772	79·2	241·3	+ 4·3			195
			0·823	122·8	237·5	−30·3			191
			0·895	69·9	230·4	+14·9			232
			0·899	112·6	226·4	−23·0			281
			0·941	61·1	225·9	+24·5			109
			0·951	102·0	217·9	−13·3			420
Feb 3				(−12·6)	(290·6)	(−6·2)	(42)	(232)	(3223)
34·484	FS, M		0·969	260·6	349·2	−10·7			259
			0·905	248·6	338·0	−22·0			331
			0·890	265·4	336·0	− 7·0			253
			0·880	287·4	331·8	+12·0			154
			0·861	297·4	327·0	+19·7			133
			0·729	242·4	317·8	−24·2			82
		6359	0·913	256·4	339·4	−15·0	0	18	} 199*c*
G.		6359*a*	0·875	256·0	334·3	−15·3	0	85	
		6356*a*	0·507	339·7	283·8	+22·1	15	136	
		6360	0·799	102·8	219·7	−14·0	6	36	} 1069*c*
		6360	0·824	101·1	217·1	−12·7	0	3	
		6360	0·838	102·8	215·7	−14·1	21	104	
			0·803	63·3	224·5	+17·0			181
			0·849	118·0	215·9	−27·0			107
			0·925	56·7	212·4	+27·5			125

Group 6354†, February 1. A small spot, *n* of the place of Group 6354.
Group 6358, February 1. A very small spot.
Group 6359, February 3–6. A regular spot, *a*, with a faint spot preceding it. *a* increases in size.
Group 6360, February 4–8. Return of Groups 6344 and 6351. Third and last apparition. Two spots, of which the following soon 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).
1908.				°	°	°			
34·484	FS, M		0·876	88·7	211·9	− 1·9			152
G.			0·911	107·9	206·7	−18·9			232
			0·949	98·9	200·8	−10·4			125
Feb. 4				(−13·2)	(272·9)	(−6·3)	(42)	(382)	(3402)
35·135	CL, AS		0·951	247·4	337·1	−23·4			238
			0·946	267·2	335·5	− 4·7			196
			0·896	236·4	326·7	−32·8			111
			0·840	250·1	321·3	−20·1			173
			0·805	265·3	318·1	− 7·5			192
			0·726	235·7	307·3	−28·8			181
			0·666	263·8	306·4	− 8·8			124
		6359	0·968	256·4	340·6	−14·7	18	70	} 190c
		6359a	0·934	255·7	334·0	−15·6	21	85	
		6356	0·593	324·7	286·1	+23·0	0	5	
K.		6356a	0·559	326·3	283·7	+21·7	20	120	
		6360	0·698	104·0	220·1	−14·3	15	39	} 189c
		6360	0·705	105·1	219·6	−15·1	0	8	
		6360	0·741	104·6	216·6	−15·0	0	4	
		6360	0·750	101·8	215·6	−13·0	8	35	
		6360	0·755	103·4	215·3	−14·2	9	33	
			0·833	102·6	207·6	−14·0			125
			0·843	110·9	207·1	−20·9			106
			0·742	92·7	216·3	− 6·3			115
			0·908	56·7	206·3	+26·7			141
			0·937	95·8	194·4	− 7·7			70
Feb. 5				(−13·4)	(264·3)	(−6·3)	(91)	(399)	(2151)
36·125	FS, AS		0·946	247·4	323·3	−23·5			196
			0·901	267·6	315·7	− 5·0			227
			0·896	281·8	313·3	+ 7·6			111
			0·799	263·4	304·6	− 9·1			239
			0·814	237·3	303·5	−30·1			291
			0·693	294·3	291·3	+11·7			235
		6359a	0·988	255·4	333·5	−15·4	22	200	175c
		6356a	0·672	312·8	283·2	+21·7	21	94	60c
		6360	0·515	107·3	220·9	−14·4	4	21	
K.		6360	0·517	105·3	220·6	−13·4	0	6	
		6360	0·591	106·9	215·6	−15·1	2	6	
		6360	0·591	103·2	215·3	−13·0	0	14	
			0·735	115·9	205·5	−23·2			213
			0·793	101·3	198·6	−12·8			122
			0·850	88·9	193·2	− 2·5			150
			0·893	70·7	191·2	+14·0			241
			0·960	61·9	182·7	+24·7			166
			0·929	98·9	182·5	−10·7			146
			0·985	78·3	172·8	+10·3			140
Feb. 6				(−13·8)	(251·3)	(−6·4)	(49)	(341)	(2712)
1908.				°	°	°			
37·218	AS, CL		0·965	289·6	308·5	+16·9			139
			0·912	240·9	302·5	−29·1			274
			0·916	278·8	302·1	+ 5·4			195
			0·888	259·8	300·0	−12·0			202
			0·923	304·8	296·5	+28·7			82
			0·894	294·7	295·7	+18·7			88
			0·843	287·9	291·6	+11·4			256
			0·921	316·0	290·8	+37·8			150
			0·752	272·6	285·5	− 2·3			97
M.			0·797	311·4	278·9	+27·0			130
		6356a	0·805	304·3	282·8	+22·6	6	18	63c
		6360	0·314	117·8	220·3	−14·6	2	9	
		6360	0·335	120·6	219·5	−15·9	2	14	
		6360	0·349	116·3	218·1	−15·0	1	6	
			0·856	96·3	177·7	− 8·7			114
			0·947	76·4	167·6	+10·7			304
			0·945	90·5	166·1	− 2·6			157
Feb. 7				(−14·2)	(236·9)	(−6·4)	(11)	(47)	(2251)
38·238	FS, AS		0·939	285·3	291·1	+12·0			625
			0·962	311·0	287·9	+36·5			214
			0·897	270·1	287·2	− 2·8			199
			0·836	282·5	278·6	+ 6·7			170
			0·883	305·0	277·3	+26·6			334
			0·929	320·6	276·0	+42·1			158
			0·779	297·8	269·4	+16·8			63
			0·711	285·6	266·9	+ 6·3			126
M.			0·755	310·1	262·6	+24·0			90
		6360*	0·623	272·0	261·9	− 3·9	0	4	
		6360*	0·593	272·7	259·8	− 3·6	2	9	
		6360	0·142	159·3	220·5	−14·1	0	4	
		6360	0·159	160·3	220·3	−15·1	0	4	
			0·858	72·5	167·1	+11·4			277
			0·932	82·6	155·7	+ 4·4			87
			0·948	92·6	151·9	− 4·6			230
Feb. 8				(−14·6)	(223·5)	(−6·5)	(2)	(21)	(2573)
39·321	FS, CL		0·953	(269·2	281·5	− 2·8)			158
			0·963	(297·9	278·4	+24·6)			313
			0·941	(281·4	277·8	+ 8·4)			540
			0·867	(287·8	266·5	+11·9)			277
			0·791	(270·6	261·4	− 3·6)			95
D.			0·842	(310·7	255·9	+28·9)			227
			0·774	(297·2	254·8	+16·2)			474
		6362	0·470	(312·6	229·9	+12·4)	2	8	
		6362	0·478	(314·7	229·6	+13·5)	0	5	
		6362	0·454	(318·0	227·3	+13·5)	2	5	

Group 6360*, February 8. Two small spots.
Group 6362, February 9–11. A few small spots in a straight 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).
1908.				°	°	°			
39·321	FS, CL	6363*a*	0·732	(61·4	167·2	+15·0)	13	26	179*s*
		6363	0·748	(65·9	164·8	+13·2)	0	6	
		6363*b*	0·760	(63·5	164·5	+15·2)	5	15	
		6361*a*	0·828	(88·5	153·5	− 2·5)	8	33	355*sf*
		6364*a*	0·954	(76·9	138·6	+10·4)	30	184	415*c*
		6364	0·974	(77·5	134·0	+10·6)	9	46	
D.			0·694	(89·7	165·3	− 4·5)			178
			0·804	(57·3	162·8	+21·2)			152
			0·813	(102·3	154·5	−13·8)			156
			0·820	(111·5	154·4	−21·3)			102
			0·891	(80·5	147·4	+ 5·4)			123
			0·951	(94·8	136·9	− 6·6)			249
Feb. 9				(−15·1)	(209·2)	(−6·5)	(69)	(328)	(3993)
40·158	AS, CL		0·938	(280·6	266·4	+ 7·5)			275
			0·892	(260·8	261·8	−11·1)			129
			0·887	(270·6	260·6	− 2·6)			127
			0·906	(293·1	259·0	+17·7)			289
			0·892	(305·1	253·1	+27·1)			176
			0·765	(284·4	246·2	+ 6·6)			116
		6362	0·614	(300·8	230·8	+12·7)	3	19	66*c*
		6362	0·581	(304·4	227·6	+13·4)	0	12	
		6365	0·346	(272·4	218·4	− 5·4)	4	19	
		6365	0·315	(270·2	216·6	− 6·2)	3	11	
D.		6363*a*	0·601	(53·9	168·1	+15·0)	11	46	70*c*
		6363*b*	0·644	(57·2	164·3	+14·9)	6	13	
		6361*a*	0·693	(87·2	154·5	− 2·8)	7	38	44*c*
		6364*a*	0·872	(74·6	139·8	+10·0)	26	143	337*c*
		6364	0·922	(75·4	133·2	+10·7)	5	23	
			0·800	(61·4	150·7	+18·1)			115
			0·758	(91·4	148·8	− 5·4)			163
			0·791	(79·2	147·2	+ 4·4)			112
			0·896	(98·4	134·1	−10·4)			227
			0·911	(85·2	133·2	+ 1·6)			123
Feb. 10				(−15·4)	(198·2)	(−6·6)	(65)	(324)	(2369)
41·181	FS, CL		0·944	(294·7	251·0	+20·7)			297
			0·888	(282·0	245·7	+ 7·5)			335
			0·858	(271·1	243·6	− 2·5)			119
			0·765	(245·9	233·6	−22·5)			224
		6362	0·749	(294·7	229·0	+13·6)	0	3	302*c*
D.		6365	0·568	(269·6	219·4	− 5·7)	4	10	
		6365	0·527	(268·4	216·6	− 6·5)	3	11	
		6363*a*	0·459	(36·2	168·4	+15·3)	11	31	
		6363*b*	0·505	(43·4	163·7	+15·3)	2	11	
		6361*a*	0·495	(83·8	155·3	− 2·7)	7	18	
		6361	0·543	(81·5	152·3	− 1·1)	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).
1908.				°	°	°			
41·181	FS, CL	6364*a*	0·736	(68·9	140·6	+10·6)	26	145	326*c*
		6364	0·758	(69·8	138·5	+10·6)	0	14	
		6364	0·791	(71·0	135·3	+10·6)	0	10	
		6364	0·815	(70·6	133·2	+11·6)	0	9	
		6366	0·768	(94·6	134·3	− 7·8)	3	8	140*f*
D.		6366	0·804	(93·0	131·0	− 6·4)	0	6	
			0·799	(81·7	132·6	+ 2·7)			124
			0·935	(66·9	119·5	+18·9)			165
			0·935	(97·7	115·0	− 9·5)			262
Feb. 11				(−15·7)	(184·7)	(−6·6)	(56)	(281)	(2294)
42·461	FS, M		0·926	274·2	235·1	+ 1·3			179
			0·897	259·4	232·2	−12·5			154
			0·904	285·7	230·2	+11·1			258
			0·878	245·5	229·2	−24·7			413
			0·797	253·8	220·8	−16·9			367
			0·851	297·3	220·8	+19·0			335
			0·735	262·7	215·4	− 9·9			568
		6363*a*	0·365	359·5	168·1	+14·6	2	9	
		6361*a*	0·268	70·0	153·4	− 1·2	0	2	
		6364*a*	0·528	57·4	141·1	+10·5	15	132	
		6364	0·589	60·9	136·4	+10·9	0	7	
G.		6366	0·507	93·0	137·3	− 7·3	3	8	
		6366	0·543	93·2	134·9	− 7·4	0	12	
		6366	0·581	95·0	132·3	− 8·4	0	3	
		6366	0·591	92·1	131·6	− 6·6	0	18	
		6367	0·927	59·2	106·3	+25·3	0	8	383*c*
		6367*a*	0·950	59·7	102·2	+26·0	11	34	
		6368*a*	0·954	99·0	94·7	−10·6	11	83	619*p*
			0·778	97·2	116·5	− 9·9			162
			0·854	109·3	109·1	−20·0			131
			0·907	71·2	105·9	+13·9			135
Feb. 12				(−16·2)	(167·9)	(−6·7)	(42)	(316)	(3704)
43·122	FS, CL		0·931	247·6	228·5	−23·3			196
			0·938	298·8	223·2	+24·0			192
			0·918	287·3	223·1	+13·0			285
			0·849	267·4	217·5	− 5·8			145
			0·844	256·8	217·2	−14·7			313
			0·864	309·4	208·8	+29·0			152
		6363*a*	0·397	337·4	168·2	+14·8	5	9	
K.		6361*a*	0·133	46·8	153·7	− 1·5	0	4	
		6364*a*	0·414	45·4	141·8	+10·4	18	108	
		6364	0·435	46·8	140·4	+11·0	4	11	
		6364	0·478	46·3	138·5	+13·0	0	11	
		6364	0·487	49·7	137·0	+12·1	0	13	
		6364	0·501	53·9	134·9	+11·0	0	14	
		6366	0·355	91·4	138·4	− 6·8	4	10	

February 9, 10 and 11. The position-angles, and therefore the heliographic longitudes and latitudes, are only approximate on these days.
Group 6361, February 9–13. Return of Group 6349. ~~Third~~ Fourth and last apparition. A small regular spot, *a*, with a very small companion on February 11.
Group 6363, February 9–15. Two spots, *a* and *b*, with a third to the south on February 9. *b* has disappeared by February 12, and a faint cluster is seen preceding *a* on February 15.
Group 6364, February 9–17. A large double spot, *a*, followed by a train of small spots. The train has disappeared by February 15.
Group 6365, February 10–11. Two small spots.
Group 6366, February 11–18. A small spot on February 11; a straight stream on the succeeding days.
Group 6367, February 12–17. A small regular spot, *a*, preceded at first by a small companion. The latter is not seen after February 14, but a new one has formed following *a*. The group is not seen on February 16, but a short stream of small spots has formed by February 17.
Group 6368, February 12–17. Return of Group 6352. A small regular spot, *a*, with occasionally a 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).
1908.				°	°	°			
43·122	FS, CL	6366	0·379	92·4	136·9	− 7·1	0	6	
		6366	0·409	92·7	135·0	− 7·3	2	10	
		6366	0·452	91·9	132·2	− 6·9	1	7	
		6366	0·468	91·5	131·2	− 6·6	4	14	
		6367	0·855	55·5	108·5	+24·8	0	11	273*p*
K.		6367*a*	0·906	56·1	102·0	+26·8	14	56	
		6368*a*	0·898	98·3	94·8	−10·4	16	76	245*f*
			0·703	93·3	114·4	− 7·1			77
			0·832	96·4	102·6	− 9·1			151
			0·906	103·8	93·6	−15·3			134
			0·917	111·0	92·1	−21·9			167
Feb. 13				(−16·4)	(159·2)	(−6·7)	(68)	(360)	(2330)
44·479	FS, AS		0·959	265·6	215·1	− 6·2			178
			0·950	256·2	214·0	−15·2			432
			0·860	286·9	198·0	+10·8			189
			0·825	260·7	197·3	−11·5			151
			0·790	296·4	188·5	+16·0			116
		6363*a*	0·558	309·5	167·6	+14·7	1	7	
		6364*a*	0·293	358·3	141·8	+10·2	7	94	
		6364	0·299	3·1	140·4	+10·5	1	3	
		6364	0·333	21·4	134·2	+11·3	0	15	
		6366	0·077	97·8	136·9	− 7·4	8	48	
		6366	0·118	96·5	134·5	− 7·5	0	1	
G.		6366	0·135	100·0	133·6	− 8·1	0	6	
		6366	0·167	101·5	131·8	− 8·6	1	14	
		6366	0·171	93·6	131·4	− 7·4	1	7	
		6366	0·193	91·2	130·1	− 6·9	3	30	
		6367	0·724	45·1	106·9	+25·1	0	17	
		6367	0·758	47·6	103·1	+25·4	0	3	292*c*
		6367*a*	0·780	47·8	101·3	+26·4	5	20	
		6368*a*	0·720	98·1	95·0	−10·5	13	45	107*c*
			0·783	100·4	89·4	−12·4			473
			0·907	99·3	75·6	−11·3			148
			0·961	74·2	69·8	+13·1			344
Feb. 14				(−16·9)	(141·3)	(−6·8)	(40)	(310)	(2430)
45·235	FS, CL		0·954	255·1	204·8	−16·2			179
			0·914	245·1	197·7	−25·5			127
			0·913	262·1	197·7	−10·0			90
			0·917	281·4	196·1	+ 7·6			197
			0·764	257·9	181·3	−13·6			107
M.			0·684	239·0	171·8	−25·8			197
		6363	0·713	298·2	171·6	+14·5	0	4	
		6363	0·698	295·6	171·2	+12·3	0	10	
		6363	0·685	299·7	169·1	+14·4	0	22	75*c*
		6363*a*	0·674	301·8	167·6	+15·3	3	7	
		6364*a*	0·349	328·7	141·9	+10·6	18	111	
1908.				°	°	°			
45·235	FS, CL	6364	0·340	332·5	140·5	+10·8	2	5	
		6366	0·130	276·0	138·7	− 6·0	1	7	
		6366	0·117	268·8	138·0	− 6·9	8	37	
		6366	0·075	255·4	135·5	− 7·9	4	14	
		6366	0·035	255·0	133·2	− 7·3	6	14	
		6366	0·045	185·5	131·6	− 9·3	0	2	
		6366	0·030	183·8	131·4	− 8·5	3	8	
		6366	0·012	175·8	131·2	− 7·5	2	14	
		6366	0·021	73·9	130·1	− 6·5	5	15	
M.		6366	0·044	95·1	128·8	− 7·0	0	3	
		6367*a*	0·709	40·3	100·5	+26·8	0	6	
		6367	0·709	42·1	99·5	+25·9	0	6	125*c*
		6368*a*	0·593	99·0	94·8	−10·9	10	32	
		6368	0·627	99·3	92·4	−11·1	0	1	25*c*
			0·685	97·9	87·9	−10·4			136
			0·779	64·6	84·7	+14·9			166
			0·807	95·6	77·2	− 8·5			109
			0·915	133·5	67·9	−42·2			116
			0·921	73·2	66·9	+12·6			340
Feb. 15				(−17·2)	(131·3)	(−6·8)	(62)	(318)	(1989)
46·131	AS, CL		0·951	264·3	191·9	− 7·6			136
			0·856	261·8	178·8	−10·6			163
			0·903	301·1	177·3	+24·2			155
			0·839	290·0	173·2	+12·6			123
			0·761	295·9	164·4	+14·6			168
		6364*a*	0·472	307·2	141·9	+10·2	17	80	
		6366	0·328	269·5	138·7	− 6·7	6	27	
K.		6366	0·286	267·1	136·2	− 7·4	3	11	
		6366	0·230	267·6	132·8	− 7·3	4	23	
		6366	0·207	267·1	131·5	− 7·4	2	26	
		6368*a*	0·407	100·1	95·6	−10·4	9	19	
		6368	0·492	100·9	90·1	−11·4	0	15	
			0·821	67·0	68·4	−14·4			251
			0·849	96·3	61·0	− 9·0			140
Feb. 16				(−17·5)	(119·5)	(−6·9)	(41)	(201)	(1136)
47·258	AS, CL		0·939	257·9	175·3	−13·7			114
			0·887	267·4	167·4	− 5·5			100
			0·910	288·6	167·1	+13·8			249
		6364*a*	0·659	295·1	141·9	+10·7	7	24	
M.		6364	0·657	296·4	141·5	+11·4	0	3	105*p*
		6366	0·568	267·9	139·4	− 6·9	0	5	
		6366	0·529	267·6	136·7	− 7·1	1	6	
		6366	0·458	266·4	132·1	− 7·8	6	30	
		6367	0·536	358·7	105·5	+25·4	2	15	
		6367	0·530	0·2	104·6	+25·0	0	1	

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).
1908.				°	°	°			
47·258	AS, CL	6367	0·539	3·1	102·9	+25·5	1	7	
		6368*a*	0·165	115·1	96·0	−10·9	1	6	
M.			0·698	61·5	65·6	+14·4			132
Feb. 17				(−17·9)	(104·7)	(−6·9)	(18)	(97)	(760)
48·539	FS, CL		0·911	262·7	154·0	− 9·6			138
			0·926	283·7	153·5	+ 9·9			224
			0·901	271·0	151·9	− 2·1			249
			0·895	278·0	150·3	+ 3·9			140
			0·914	305·1	145·6	+28·1			167
			0·819	258·7	143·2	−13·3			79
G.			0·783	266·8	139·6	− 6·9			159
			0·808	289·5	138·6	+11·3			384
		6369	0·990	255·5	171·0	−15·3	0	110	268*c*
		6366	0·694	265·7	131·9	− 8·0	0	8	} 71*c*
		6366	0·691	264·5	131·7	− 8·9	0	5	
			0·822	108·8	32·4	−19·4			348
			0·945	75·7	19·1	+11·0			380
Feb. 18				(−18·3)	(87·8)	(−7·0)	(0)	(123)	(2607)
49·617	FS, AS		0·972	270·5	149·8	− 1·2			286
			0·926	284·9	139·1	+11·0			329
			0·867	264·9	134·0	− 7·9			331
			0·686	319·6	103·0	+25·4			109
		6370	0·296	341·8	79·0	+ 9·3	0	7	
G.		6370	0·299	346·1	77·8	+ 9·9	1	9	
		6371*a*	0·953	102·0	0·4	−13·5	0	11	655*c*
			0·813	72·3	21·9	+10·0			156
			0·901	85·2	9·9	+ 1·3			131
			0·926	72·8	8·6	+13·0			194
			0·944	62·0	8·4	+23·5			128
Feb. 19				(−18·6)	(73·6)	(−7·0)	(1)	(27)	(2319)
50·222	FS, AS		(0·959	285·5	136·8	+12·7)			505
			(0·929	265·8	134·3	− 6·5)			475
			(0·792	266·4	118·3	− 7·1)			158
			(0·759	315·8	102·1	+27·3)			338
		6370	(0·377	321·4	79·5	+10·3)	0	10	
		6370	(0·365	326·5	77·5	+10·8)	1	4	
D.		6370	(0·344	327·8	76·4	+10·0)	2	10	
		6371*a*	(0·911	103·5	359·3	−15·2)	0	8	212*f*
		6372	(0·982	104·5	345·3	−15·6)	17	145	676*s*
			(0·759	70·1	19·4	+10·2)			107
			(0·889	68·0	6·9	+15·9)			175
			(0·924	93·9	357·9	− 6·3)			389
Feb. 20				(−18·8)	(65·7)	(−7·0)	(20)	(177)	(3035)
1908.				°	°	°			
51·140	FS, M		0·944	264·9	124·7	− 7·1			346
			0·766	264·3	103·9	− 8·9			159
			0·848	307·9	102·0	+26·8			303
		6370	0·536	300·9	81·3	+ 9·6	4	17	
		6370	0·513	304·0	79·1	+10·3	1	6	
		6370	0·483	304·9	77·2	+ 9·5	10	50	
D.		6371*a*	0·799	101·9	0·2	−13·8	1	8	346*f*
		6372*a*	0·918	102·2	346·2	−14·0	13	137	382*sf*
			0·893	92·8	350·1	− 5·7			261
			0·929	71·2	348·4	+14·6			95
			0·908	115·5	348·0	−26·1			440
Feb. 21				(−19·1)	(53·6)	(−7·1)	(29)	(218)	(2332)
52·119	FS, M		0·923	304·7	100·0	+28·2			388
			0·835	261·2	97·8	−11·2			566
		6370	0·711	291·7	82·7	+10·0	2	11	}
		6370	0·690	292·5	80·9	+ 9·9	0	7	} 138*c*
		6370	0·634	295·0	76·2	+ 9·8	8	33	}
D.		6371*a*	0·659	103·7	359·5	−14·3	0	4	28[illegible]
		6372*a*	0·817	102·7	345·5	−14·5	13	99	355
			0·816	55·6	354·0	+22·6			112
			0·849	90·1	342·6	− 3·9			152
			0·869	117·6	340·7	−27·5			302
Feb. 22				(−19·4)	(40·7)	(−7·1)	(23)	(154)	(2302)
53·578	FS, CL		0·916	256·5	88·5	−15·2			338
			0·901	266·1	86·0	− 6·6			157
			0·804	291·9	71·2	+12·9			134
			0·853	318·3	64·8	+34·5			76
			0·743	295·5	64·8	+13·5			98
		6379	0·883	284·8	81·1	+ 9·5	0	5	204*p*
		6370	0·832	285·7	75·4	+ 8·9	4	16	
		6373	0·649	292·8	58·5	+ 8·9	0	8	64*c*
		6371*a*	0·373	111·0	0·4	−14·3	0	4	
G.		6372*a*	0·589	104·8	345·5	−14·4	12	111	49*c*
			0·683	107·4	338·6	−17·1			312
			0·774	118·4	332·2	−26·3			140
			0·816	106·8	326·5	−17·8			345
			0·878	126·8	321·9	−35·5			201
			0·889	90·5	318·6	− 3·7			198
			0·911	98·1	315·2	−10·3			330
			0·920	118·2	314·1	−28·7			331
			0·940	108·4	310·3	−19·7			364
Feb. 23				(−19·8)	(21·4)	(−7·1)	(16)	(144)	(3341)

February 20. The position-angles, and therefore the heliographic longitudes and latitudes, are only approximate on this day.
Group 6369, February 18. Two spots close together, seen only when close to the West limb.
Group 6370, February 19–24. A few small unstable spots in a short stream.
Group 6371, February 19–24. A small spot, *a*.
Group 6372, February 20–March 3. A large regular spot, *a*, with occasionally a small companion.
Group 6373, February 23. 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).
1908.				°	°	°			
54·203	FS, AS		0·947	260·4	85·2	−11·4			265
			0·850	291·8	67·6	+14·3			223
		6370	0·949	283·4	82·7	+10·3	3	17	163c
		6370	0·931	284·8	79·5	+11·0	0	7	
		6370	0·905	284·5	75·8	+ 9·9	0	6	
		6374	0·209	286·3	24·7	− 3·6	3	13	
		6374	0·158	282·2	22·1	− 5·1	0	8	
D.		6371a	0·303	117·5	357·1	−14·9	0	4	
		6372a	0·481	108·3	345·1	−15·0	19	119	
		6372	0·515	113·3	343·5	−17·9	0	5	
			0·754	108·6	324·4	−18·7			78
			0·871	94·6	312·3	− 7·5			273
			0·894	111·1	309·3	−22·0			274
			0·935	78·0	305·8	+ 8·6			173
			0·945	121·8	301·4	−32·4			154
Feb. 24				(−20·0)	(13·2)	(−7·1)	(25)	(179)	(1603)
55·133	FS, AS		0·938	257·1	71·6	−14·6			100
			0·904	287·3	62·9	+12·3			313
		6374	0·444	278·4	27·0	− 2·8	4	12	
		6374	0·412	279·7	24·9	− 2·6	0	4	
		6374	0·397	276·3	24·2	− 4·2	0	15	
		6374	0·367	276·3	22·4	− 4·4	1	5	
		6374	0·360	273·3	22·1	− 5·6	9	41	
D.		6372a	0·304	117·4	344·9	−14·9	16	119	
		6372	0·331	123·4	344·2	−17·4	0	5	
			0·788	112·2	309·3	−21·9			109
			0·789	96·8	308·6	− 9·8			175
			0·883	121·0	299·7	−30·6			239
			0·928	74·9	295·3	+11·1			429
			0·914	102·6	294·2	−14·4			171
			0·937	86·8	291·9	+ 0·5			214
Feb. 25				(−20·3)	(1·0)	(−7·2)	(30)	(201)	(1750)
56·110	FS, AS		0·958	283·6	59·3	+10·8			167
			0·862	293·4	43·3	+16·0			95
			0·766	250·3	37·9	−19·7			150
		6374	0·651	271·8	28·7	− 4·3	10	27	
		6374	0·620	271·6	26·4	− 4·7	0	3	
D.		6374	0·607	271·6	25·4	− 4·8	12	45	
		6374	0·596	273·8	24·5	− 3·6	0	5	
		6374	0·577	272·1	23·3	− 4·7	1	10	
		6374	0·558	267·9	22·1	− 7·1	13	77	
		6372a	0·144	153·8	344·3	−14·6	14	102	
		6372	0·186	156·9	343·7	−17·0	0	4	
			0·874	121·6	288·1	−30·9			176
			0·876	72·2	289·9	+11·8			444
1908.				°	°	°			
56·110	FS, AS		0·864	88·4	288·5	− 2·3			202
D.			0·959	59·7	280·8	+26·3			131
Feb. 26				(−20·6)	(348·1)	(−7·2)	(50)	(273)	(1365)
57·197	FS, AS		0·892	263·3	37·4	− 9·2			107
			0·873	251·2	35·1	−20·0			120
			0·780	291·0	21·6	+11·4			146
		6374	0·817	272·3	28·4	− 2·4	25	110	162c
		6374	0·786	273·3	25·3	− 1·9	5	27	
		6374	0·779	271·3	24·9	− 3·6	1	15	
		6374	0·756	273·1	22·7	− 2·4	0	4	
		6374	0·749	269·8	22·4	− 5·0	60	241	
D.		6374	0·738	267·1	21·5	− 7·0	8	48	
		6372a	0·222	234·2	344·5	−14·5	12	93	
		6375	0·189	181·3	334·1	−18·1	3	15	
		6375	0·229	165·8	330·4	−20·0	3	11	
			0·854	58·2	282·3	+22·3			216
			0·845	79·5	277·5	+ 4·9			230
			0·942	69·1	267·1	+16·9			214
			0·955	80·2	262·5	+ 7·1			233
Feb. 27				(−20·9)	(333·8)	(−7·2)	(117)	(564)	(1428)
58·624	FS, M		0·895	289·1	15·3	+13·6			333
			0·853	305·9	4·7	+25·4			229
			0·725	265·2	1·9	− 8·5			432
		6374	0·963	269·2	29·4	− 2·7	15	92	1040c
		6374	0·953	267·6	27·5	− 4·6	0	32	
		6374	0·947	270·3	26·1	− 2·1	19	157	
		6374	0·929	268·1	23·4	− 4·5	0	122	
		6374	0·911	265·8	21·0	− 6·8	39	373	
		6372a	0·491	253·7	344·0	−14·2	10	100	
G.		6372	0·478	246·5	342·2	−17·4	0	3	
			0·681	49·0	281·8	+20·5			269
			0·727	74·2	270·5	+ 6·3			133
			0·784	60·1	269·5	+18·0			156
			0·872	67·6	258·4	+15·5			559
			0·875	83·7	254·7	+ 2·0			283
			0·928	76·0	249·1	+10·1			319
			0·916	95·6	248·2	− 8·1			241
			0·930	107·8	245·6	−19·2			169
Feb. 28				(−21·2)	(315·0)	(−7·2)	(83)	(879)	(4163)
59·525	FS, M		0·953	286·9	12·6	+13·6			337
			0·891	272·0	5·8	− 1·5			176
G.			0·832	259·3	359·9	−12·9			556
			0·752	271·7	352·3	+ 8·0			96
		6374	0·977	264·6	21·3	− 6·8	32	364	436c

Group 6374, February 24–29. Two small spots forming near the central meridian, and developing rather rapidly into a fine complex stream.
Group 6375, February 27. A wide pair 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).
1908.				°	°	°			
59·525	FS, M	6372*a*	0·657	256·6	344·2	−14·3	15	85	53*c*
			0·781	59·1	258·3	+18·6			128
			0·868	48·6	254·3	+30·3			86
			0·902	56·8	246·4	+25·7			145
G.			0·860	79·0	245·3	+ 5·6			146
			0·865	109·7	242·9	−20·6			137
			0·932	69·6	237·9	+16·0			218
			0·972	107·1	225·3	−18·3			180
Feb. 29				(−21·5)	(303·1)	(−7·2)	(47)	(449)	(2694)
60·543	FS, M		0·923	256·9	357·9	−14·9			516
			0·866	269·5	349·7	− 4·0			195
			0·846	240·9	346·6	−28·3			108
		6372*a*	0·810	257·9	344·2	−14·0	12	78	307*s*
G.			0·823	50·8	244·5	+26·3			177
			0·915	66·6	227·9	+18·0			268
			0·895	166·9	226·1	−27·2			282
			0·932	102·8	220·0	−14·6			515
Mar. 1				(−21·8)	(289·7)	(−7·2)	(12)	(78)	(2368)
61·098	FS, CL		0·957	255·6	356·6	−15·9			202
			0·900	268·4	346·7	− 4·6			197
			0·879	288·4	340·8	+12·4			214
		6372*a*	0·876	258·0	344·2	−14·0	13	78	437*f*
D.			0·800	44·2	242·7	+29·5			197
			0·859	62·5	228·8	+19·2			240
			0·819	117·7	228·4	−26·7			160
			0·861	104·0	222·4	−15·7			475
Mar. 2				(−21·9)	(282·4)	(−7·2)	(13)	(78)	(2122)
62·160	FS, AS		0·932	264·6	337·6	− 7·7			215
			0·821	268·8	323·7	− 5·1			141
			0·749	245·9	316·0	−22·7			90
		6372*a*	0·965	257·7	344·2	−13·7	8	85	546*s*
D.			0·766	121·5	220·6	−28·5			167
			0·825	104·3	212·4	−15·9			181
			0·917	60·5	208·1	+23·4			242
			0·880	91·0	206·7	− 4·3			170
Mar. 3				(−22·1)	(268·4)	(−7·2)	(8)	(85)	(1752)
63·210	FS, CL		0·918	237·2	321·1	−32·9			162
			0·904	250·9	320·0	−20·3			213
D.			0·892	261·8	318·3	−10·6			166
			0·763	234·9	301·1	−31·0			100
			0·692	293·7	294·6	+10·6			104
1908.				°	°	°			
63·210	FS, CL	6376	0·860	291·7	310·1	+14·6	0	5	130*c*
		6376	0·836	291·7	307·5	+13·7	8	25	
		6376	0·811	292·7	304·8	+13·7	9	31	
		6377	0·980	103·1	174·8	−14·3	5	24	329*c*
		6377*a*	0·981	104·7	174·5	−15·8	8	46	
D.			0·680	90·1	211·7	− 5·4			66
			0·856	54·3	204·4	+25·4			125
			0·865	89·1	194·8	− 2·9			144
			0·872	114·6	193·9	−24·9			99
			0·914	71·8	191·6	+13·4			178
Mar. 4				(−22·4)	(254·6)	(−7·2)	(30)	(131)	(1816)
64·255	FS, AS		0·926	264·8	309·0	− 7·5			170
			0·914	248·8	307·5	−22·2			305
			0·860	288·0	297·2	+11·5			253
			0·736	295·1	283·8	+13·0			72
		6376	0·949	287·4	309·5	+14·0	3	17	167*c*
		6376	0·913	288·9	303·5	+14·0	9	34	
D.		6377	0·875	102·0	179·1	−14·0	0	8	
		6377	0·891	103·1	177·1	−14·9	0	9	664*c*
		6377*a*	0·915	103·4	173·8	−15·1	12	95	
			0·861	63·7	186·6	+18·3			69
			0·919	92·5	173·8	− 5·2			150
			0·952	73·3	171·4	+13·4			228
Mar. 5				(−22·6)	(240·8)	(−7·2)	(24)	(163)	(2078)
65·478	FS, CL		0·914	260·2	291·4	−11·9			197
			0·887	280·2	285·8	+ 5·6			1091
			0·871	237·8	284·3	−31·5			594
			0·875	299·8	279·3	+21·6			237
			0·885	319·8	270·6	+37·5			320
		6378*a*	0·833	267·4	281·3	− 6·2	5	14	250*c*
G.		6378*b*	0·783	266·7	276·5	− 7·1	14	94	
		6377	0·730	102·8	177·6	−14·3	0	13	
		6377*a*	0·774	103·7	173·7	−15·2	9	52	666*c*
		6377*	0·812	106·9	170·1	−18·0	0	7	
			0·883	70·9	166·0	+13·1			378
			0·885	92·4	162·2	− 5·6			418
Mar. 6				(−22·9)	(224·7)	(−7·3)	(28)	(180)	(4151)
66·339	FS, CL		0·932	278·5	280·9	+ 5·2			355
			0·905	253·5	279·0	−18·0			120
			0·895	236·2	276·0	−33·3			193
D.			0·864	300·2	266·6	+21·5			171
		6378*a*	0·934	265·4	282·8	− 6·9	6	15	203*c*
		6378*b*	0·894	265·1	277·2	− 7·7	17	86	

Group 6376, March 4–5. A few small spots in an irregular stream.
Group 6377, March 4–11. Return of Group 6369. A few small spots in an irregular stream. The rear spot, *a*, is the largest and most stable, and alone remains after March 8.
Group 6378, March 6–8. Two small spots, *a* and *b*, forming suddenly near the west limb.
Group 6377*, March 6–8. Some very small spots forming *sf* Group 6377.

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).
1908.				°	°	°			
66·339	FS, CL	6377	0·562	103·5	179·3	−13·6	2	11	
		6377	0·603	102·6	176·4	−13·3	1	5	
		6377*a*	0·646	105·7	173·4	−15·6	11	37	139*c*
		6377	0·646	103·8	173·2	−14·4	1	4	
		6377*	0·691	107·8	170·0	−17·5	0	3	
D.		6379*a*	0·989	91·7	131·9	− 2·8	21	100	
			0·796	64·5	165·4	+15·3			205
			0·835	88·9	156·9	− 3·1			147
			0·900	76·4	151·3	+ 8·9			197
			0·919	96·1	146·2	− 8·5			246
Mar. 7				(−23·1)	(213·4)	(−7·2)	(59)	(261)	(1976)
67·125	FS, AS		0·957	276·6	275·2	+ 4·2			138
			0·879	281·7	262·8	+ 6·7			158
			0·853	294·8	256·8	+16·8			238
		6378*a*	0·983	265·0	282·8	− 6·3	0	29	145*c*
		6378*b*	0·960	265·0	277·2	− 6·9	13	73	
		6377	0·403	107·9	179·9	−13·7	2	8	
		6377*a*	0·505	110·5	173·6	−16·5	4	21	
D.		6377*	0·564	112·5	169·8	−18·5	0	12	
		6377*	0·634	111·3	164·5	−19·0	0	6	
		6377*	0·667	109·1	161·6	−18·1	0	10	
		6381	0·666	96·4	161·0	− 9·6	0	4	
		6379*a*	0·947	91·5	131·6	− 3·8	18	105	224*f*
			0·868	96·0	142·4	− 8·8			114
			0·945	72·4	135·0	+14·0			131
Mar. 8				(−23·2)	(203·0)	(−7·2)	(37)	(268)	(1148)
68·506	AS, M		0·912	277·1	249·6	+ 3·5			306
			0·870	288·1	242·3	+11·9			244
			0·816	301·4	232·6	+20·4			228
		6377*a*	0·243	132·9	174·1	−16·6	3	8	
G.		6381	0·376	97·2	162·7	− 9·4	0	10	
		6379*a*	0·787	89·2	132·9	− 3·9	8	61	309*f*
			0·736	94·9	137·1	− 8·5			118
			0·887	68·2	126·2	+15·6			298
			0·898	98·4	120·3	−10·7			247
Mar. 9				(−23·5)	(184·8)	(−7·2)	(11)	(79)	(1750)
69·507	AS, M		0·908	288·4	233·7	+13·4			130
			0·837	245·6	228·1	−24·3			209
			0·866	301·4	224·6	+22·6			137
G.			0·750	260·4	220·5	−12·0			121
			0·847	311·1	218·3	+29·0			118
		6380	0·219	226·1	181·0	−15·8	0	4	
		6380	0·186	227·6	179·7	−14·3	2	27	
		6377*a*	0·170	193·9	174·0	−16·7	0	5	
1908.				°	°	°			
69·507	AS, M	6381	0·122	111·6	165·0	− 9·7	1	5	
		6379*a*	0·625	87·0	133·0	− 3·8	9	33	198*f*
		6382	0·978	96·3	93·1	− 7·7	0	16	504*s*
			0·689	61·6	133·2	+13·5			142
			0·799	51·2	128·4	+24·8			115
G.			0·849	64·7	118·4	+17·0			238
			0·805	97·1	117·6	−10·0			193
			0·944	58·4	107·7	+26·6			173
			0·933	76·3	104·8	+10·0			159
Mar. 10				(−23·7)	(171·6)	(−7·2)	(12)	(90)	(2437)
70·468	AS, M		0·878	244·2	220·2	−26·0			215
			0·831	257·7	215·6	−14·2			237
			0·820	309·1	203·9	+26·1			130
		6377*a*	0·303	235·2	173·9	−16·9	0	3	
		6381	0·122	250·0	165·5	− 9·5	15	53	
		6381	0·095	237·8	163·6	−10·1	0	22	
		6381	0·065	241·7	162·2	− 8·9	6	43	
		6381	0·062	215·8	161·0	−10·1	0	5	
G.		6379*a*	0·442	84·3	132·9	− 4·0	6	20	
		6382	0·862	94·7	99·0	− 7·7	7	47	
		6382	0·912	94·8	92·7	− 7·4	0	22	409*s*
			0·776	62·2	113·4	+16·2			262
			0·727	96·8	112·0	− 9·9			134
			0·931	53·8	98·9	+30·0			218
			0·911	108·8	92·5	−20·1			334
			0·958	76·7	87·6	+10·5			158
Mar. 11				(−23·9)	(158·9)	(−7·2)	(34)	(215)	(2097)
71·493	FS, CL	6381	0·374	263·6	167·4	− 9·2	7	92	
		6381	0·293	260·6	162·4	− 9·6	12	61	
		6379*a*	0·233	79·0	132·2	− 4·5	6	26	
		6382*a*	0·702	93·4	100·6	− 7·5	8	117	
G.		6382	0·760	95·0	95·7	− 8·5	0	19	398*c*
		6382	0·789	93·6	93·1	− 7·3	0	13	
			0·869	45·4	98·1	+32·8			277
			0·878	59·2	90·7	+22·7			311
			0·881	72·8	86·5	+11·4			266
Mar. 12				(−24·1)	(145·4)	(−7·2)	(33)	(328)	(1252)
72·437	FS, AS		0·771	256·8	183·7	−14·7			161
			0·835	300·7	183·0	+20·7			104
		6381	0·582	264·7	168·7	− 8·9	3	38	
G.		6381	0·496	262·2	162·8	−10·2	0	13	
		6379*a*	0·047	359·8	133·1	− 4·6	0	22	
		6382*a*	0·526	93·2	101·1	− 7·8	16	167	106*c*
		6382	0·603	94·8	95·7	− 8·6	0	36	

Group 6379, March 7–15. A regular spot, *a*.
Group 6381, March 8–14. A very small spot at first. It suddenly develops, when near the central meridian, into a considerable stream, but diminishes again later.
Group 6380, March 10. Some small spots, *p* Group 6377.
Group 6382. March 10–21. A small spot on March 10. Some new spots form in advance of this on March 11, and by March 12 the group has become a regular spot, *a*, followed by an irregular train of small spots. *a* lengthens out, and finally divides into two parts, but is still measured as one.

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).
1908.				°	°	°			
72·437	FS, AS		0·827	101·9	76·7	−13·9			214
G.			0·870	70·3	75·9	+13·2			244
			0·854	50·0	85·0	+28·5			176
Mar. 13				(−24·3)	(133·0)	(−7·2)	(19)	(276)	(1005)
73·488	FS, M		0·843	255·4	177·0	−16·2			554
			0·836	293·3	171·6	+15·0			209
		6381	0·770	264·9	169·7	− 8·5	0	6	139c
		6381	0·694	263·5	163·3	− 9·8	0	4	
G.		6379a	0·251	280·6	133·4	− 4·3	0	10	
		6382a	0·300	92·4	101·6	− 7·6	20	161	
		6382	0·410	93·4	94·8	− 8·0	0	15	
		6383a	0·950	77·8	49·2	+ 9·2	22	128	286c
			0·863	64·8	64·3	+17·5			147
Mar. 14				(−24·4)	(119·1)	(−7·2)	(42)	(324)	(1335)
74·477	FS, CL		0·920	287·8	170·1	+13·3			407
			0·852	263·8	164·9	− 9·0			327
		6384a	0·875	256·7	167·7	−15·0	4	15	481sf
		6384b	0·849	256·0	164·7	−15·6	0	10	
		6379a	0·466	274·5	133·7	− 4·2	0	7	
G.		6382a	0·074	99·4	101·9	− 7·8	12	113	
		6382	0·187	92·6	95·3	− 7·4	0	5	
		6382	0·214	99·3	93·8	− 8·9	0	5	
		6383a	0·861	75·1	48·9	+ 9·0	17	135	239c
		6385a	0·945	91·1	35·2	− 3·4	12	91	745c
		6386a	0·989	97·0	24·0	− 8·0	0	98	
Mar. 15				(−24·6)	(106·1)	(−7·1)	(45)	(479)	(2199)
75·645	FS, AS		0·800	264·9	144·2	− 8·4			134
			0·731	303·6	130·5	+18·4			126
		6384a	0·971	255·6	167·9	−15·6	28	147	475c
		6384b	0·951	255·9	163·7	−15·6	11	153	
		6382a	0·196	264·0	102·0	− 8·1	20	111	
G.		6382	0·173	256·7	100·5	− 9·3	0	10	
		6382	0·114	257·7	97·1	− 8·5	0	10	
		6383a	0·702	69·3	49·2	+ 9·1	20	91	125n
		6385a	0·827	89·2	35·0	− 3·4	14	82	373f
		6386a	0·926	95·9	22·5	− 8·1	14	124	354c
			0·928	72·9	25·4	+12·9			153
Mar. 16				(−24·8)	(90·7)	(−7·1)	(107)	(728)	(1740)
76·499	AS, M		0·886	263·0	142·4	− 9·5			185
G.			0·808	271·3	133·3	− 3·2			194
			0·806	297·5	127·7	+17·1			251
		6382a	0·385	265·0	102·2	− 8·5	21	112	
1908.				°	°	°			
76·499	AS, M	6382	0·356	269·0	100·4	− 7·0	0	2	
		6382	0·319	263·5	98·1	− 8·8	0	9	
		6383a	0·564	62·4	49·2	+ 9·0	11	76	
		6385a	0·705	87·8	34·8	− 3·5	14	77	115f
G.		6386a	0·830	95·5	23·1	− 8·5	15	111	221c
		6386	0·848	95·5	21·2	− 8·4	0	8	
			0·877	69·7	21·7	+14·0			86
			0·940	99·3	8·7	−11·2			367
			0·958	77·5	8·1	+ 9·8			119
Mar. 17				(−24·9)	(79·5)	(−7·1)	(61)	(395)	(1538)
77·122	FS, CL		0·894	266·4	134·9	− 6·5			253
			0·859	296·6	125·2	+18·5			243
		6382a	0·521	265·1	102·8	− 8·6	14	102	
		6382	0·517	267·0	102·6	− 7·7	0	7	
		6382	0·475	263·2	99·7	− 9·5	0	5	
		6382	0·444	264·9	97·8	− 8·6	0	10	
		6382*	0·512	260·2	102·1	−11·1	8	20	
		6382*	0·481	257·5	99·9	−12·3	0	3	
		6382*	0·468	259·6	99·2	−11·1	4	15	
D.		6383a	0·459	53·8	49·4	+ 9·1	12	89	
		6385a	0·599	85·8	34·7	− 3·2	8	79	61c
		6386a	0·742	95·3	23·1	− 8·7	17	99	85c
		6387	0·903	77·5	8·6	+ 8·1	3	11	115f
			0·645	75·0	32·8	+ 4·0			135
			0·825	66·3	20·0	+15·0			125
			0·904	100·5	6·0	−12·5			430
			0·963	88·6	357·2	− 0·7			139
Mar. 18				(−25·0)	(71·3)	(−7·1)	(66)	(440)	(1586)
78·462	FS, CL		0·927	260·6	122·2	−11·3			351
			0·883	291·1	111·9	+14·9			270
			0·796	317·0	92·3	+30·1			171
		6382a	0·759	265·4	103·2	− 8·1	12	78	272c
		6382*	0·772	261·7	104·5	−10·9	11	31	
		6382*	0·705	261·5	98·7	−11·0	0	5	
		6383	0·316	9·7	50·5	+11·1	2	20	
		6383	0·322	13·9	49·1	+11·2	0	7	
G.		6383a	0·289	17·5	48·6	+ 8·9	6	69	
		6383	0·315	18·0	47·9	+10·4	0	9	
		6385	0·256	79·9	39·0	− 4·3	2	11	
		6385	0·277	84·1	37·6	− 5·1	0	9	
		6385a	0·332	80·2	34·6	− 3·4	13	91	
		6386a	0·497	96·0	23·7	− 9·1	9	86	
		6387	0·713	70·7	10·9	+ 8·5	7	20	173c
		6388	0·756	74·4	6·6	+ 7·0	0	10	
		6388	0·778	72·9	5·0	+ 8·6	4	16	
			0·751	10[illegible]·3	4·6	−12·4			548

Group 6383, March 14–23. A regular spot, *a*. A number of small spots form, *n* of *a*, on March 19.
Group 6384, March 15–16. A pair of spots, *a* and *b*, forming near the West limb, and rapidly increasing in size.
Group 6385, March 15–25. A regular spot, *a*, with several small spots *sf* on March 19, and the succeeding days.
Group 6386, March 15–25. Return of Group 6374. A regular spot, *a*, with occasionally a small companion.
Group 6382*, March 18–20. Some small spots, *s* Group 6382.
Group 6387, March 18–23. A small spot, sometimes with a very small companion.
Group 6388, March 19–21. Some small spots in a compact 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).
1908.				°	°	°			
78·462	FS, CL		0·917	60·5	353·3	+23·5			208
G.			0·891	85·0	351·2	+ 1·2			354
			0·923	110·5	345·6	−21·5			371
Mar. 19				(−25·2)	(53·6)	(−7·0)	(66)	(462)	(2718)
79·156	FS, AS		0·947	290·2	112·2	+16·5			126
			0·886	306·2	98·0	+27·5			128
		6382*a*	0·850	264·8	103·0	− 8·1	13	57	
		6382*	0·868	261·8	105·1	−10·6	5	15	} 443*c*
		6382*	0·806	260·4	98·5	−11·9	0	6	
		6383	0·339	341·4	50·7	+11·7	1	9	
		6383	0·329	348·4	48·3	+11·8	2	10	
		6383*a*	0·285	347·8	47·9	+ 9·1	7	56	
		6385	0·143	71·5	36·6	− 4·4	0	4	
		6385*a*	0·195	71·5	33·8	− 3·4	11	70	
D.		6385	0·208	84·4	32·4	− 5·7	0	8	
		6385	0·229	86·6	31·2	− 6·1	0	5	
		6386*a*	0·364	96·6	23·0	− 8·9	16	75	
		6386	0·393	92·6	21·2	− 7·5	0	5	
		6387	0·606	65·7	10·6	+ 8·6	5	18	
		6388	0·659	70·0	5·9	+ 7·5	3	13	
		6388	0·681	69·2	4·5	+ 8·6	9	19	
		6388	0·690	68·1	4·1	+ 9·6	0	2	
			0·702	103·9	359·8	−14·7			129
			0·883	97·9	341·9	−10·3			156
			0·912	114·4	338·2	−25·0			185
Mar. 20				(−25·3)	(44·4)	(−7·0)	(72)	(372)	(1167)
80·514	FS, M		0·907	286·0	89·1	+11·3			150
			0·925	307·3	85·1	+30·6			375
		6382*a*	0·975	264·2	104·2	− 7·3	0	48	737*sf*
		6383	0·509	306·4	51·1	+11·2	0	9	
		6383	0·489	308·9	49·2	+11·4	1	7	
		6383*a*	0·450	306·0	48·0	+ 8·8	5	60	
		6385*a*	0·150	293·0	34·4	− 3·6	13	56	
G.		6385	0·138	312·5	32·3	− 1·7	0	2	
		6386*a*	0·044	131·6	24·6	− 8·7	12	75	
		6387	0·355	43·7	12·2	+ 8·1	0	13	
		6387	0·379	46·8	10·4	+ 8·2	0	2	
		6388	0·438	53·7	5·7	+ 8·4	0	9	
			0·912	120·4	320·8	−30·5			321
			0·930	100·1	317·4	−12·0			389
			0·952	71·8	317·3	+14·9			252
Mar. 21				(−25·5)	(26·5)	(−7·0)	(31)	(281)	(2224)
1908.				°	°	°			
81·133	FS, CL		0·957	257·5	92·4	−13·9			409
			0·951	282·3	88·6	+ 9·4			96
			0·949	304·3	82·5	+29·5			172
		6383	0·610	298·3	51·4	+11·0	2	10	
		6383	0·593	299·5	50·0	+11·1	3	20	
		6383	0·558	295·3	48·9	+ 7·8	3	8	
		6383*a*	0·559	297·6	48·4	+ 9·0	3	16	
		6385	0·319	276·3	36·9	− 4·6	1	4	
		6385	0·286	274·4	35·0	− 5·4	0	3	
D.		6385*a*	0·281	280·8	34·4	− 3·6	7	49	
		6385	0·256	272·2	33·2	− 6·1	0	4	
		6385	0·200	269·0	30·0	− 7·0	0	2	
		6386*a*	0·115	256·4	24·9	− 8·4	9	66	
		6387	0·263	23·7	12·3	+ 7·0	0	3	
		6387	0·287	21·8	12·2	+ 8·5	0	6	
			0·929	70·1	313·5	+15·6			270
			0·913	87·5	312·8	− 0·6			200
			0·911	106·4	312·0	−17·8			316
Mar. 22				(−25·5)	(18·4)	(−6·9)	(28)	(191)	(1463)
82·226	FS, AS		0·911	290·2	66·1	+15·2			145
		6383	0·757	291·9	49·5	+11·6	3	11	} 262*c*
		6383*a*	0·735	288·1	48·6	+ 8·3	0	5	
		6385	0·522	268·9	35·4	− 6·5	0	6	
		6385*a*	0·513	274·3	34·6	− 3·7	8	41	
		6385	0·491	271·5	33·3	− 5·3	3	15	
D.		6386*a*	0·367	264·3	25·5	− 8·5	11	74	
		6387	0·281	334·6	10·9	+ 7·8	0	7	
			0·866	105·8	303·5	−17·1			273
			0·875	117·5	303·3	−27·3			248
			0·894	73·6	303·1	+11·3			496
			0·972	94·8	287·1	− 6·3			286
Mar. 23				(−25·6)	(3·9)	(−6·9)	(25)	(159)	(1710)
83·438	FS, AS		0·894	287·3	48·6	+12·1			307
		6385*a*	0·725	271·1	34·4	− 4·0	5	27	} 183*s*
		6385	0·702	269·8	32·6	− 5·1	0	6	
		6386*a*	0·611	265·1	25·8	− 8·5	7	37	
			0·790	73·8	298·1	+ 8·3			273
G.			0·894	64·4	289·6	+19·2			307
			0·889	79·0	286·8	+ 6·5			213
			0·888	123·3	286·4	−32·6			225
			0·881	93·2	286·0	− 6·1			340
			0·924	110·2	279·8	−21·2			142
			0·959	103·1	273·5	−14·5			221
Mar. 24				(−25·8)	(348·0)	(−6·9)	(12)	(70)	(2211)

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).
1908.				°	°	°			
84·151	FS, CL		0·905	281·9	41·7	+ 7·7			191
			0·854	254·1	37·6	−17·1			105
			0·821	293·6	29·6	+14·9			86
		6385*a*	0·829	270·1	34·6	− 3·8	0	8	349*c*
		6386*a*	0·735	265·3	26·1	− 8·1	0	18	62*c*
D.			0·737	67·9	294·6	+11·2			194
			0·844	110·0	281·0	−20·5			132
			0·911	63·6	278·1	+20·6			184
			0·887	80·1	277·4	+ 5·5			306
			0·892	100·0	274·9	−12·0			516
			0·921	122·8	271·8	−32·8			140
Mar. 25				(−25·8)	(338·6)	(−6·8)	(0)	(26)	(2265)
85·122	FS, M		0·889	267·1	28·7	− 5·8			858
			0·897	292·6	25·5	+16·8			177
			0·774	115·5	276·2	−23·9			104
K.			0·856	59·2	273·6	+21·9			137
			0·814	106·1	271·1	−17·1			296
			0·914	71·1	262·9	+14·1			386
			0·911	99·3	259·6	−11·3			196
Mar. 26				(−25·9)	(325·8)	(−6·8)	(0)	(0)	(2154)
86·480	FS, CL		0·917	261·5	14·8	−10·4			461
			0·886	272·0	9·9	− 1·4			125
			0·893	285·0	8·8	+10·2			211
			0·795	253·4	0·5	−17·2			220
G.		6389	0·306	343·7	312·8	+10·3	4	12	
		6389	0·290	347·9	311·3	+ 9·7	0	5	
			0·884	62·3	251·3	+20·6			222
			0·861	102·6	247·9	−14·3			204
			0·888	78·4	246·8	+ 7·1			188
Mar. 27				(−26·0)	(307·8)	(−6·7)	(4)	(17)	(1631)
87·484	FS, AS		0·902	281·5	357·4	+ 7·3			200
			0·881	253·2	356·9	−18·0			329
		6389*a*	0·458	310·0	315·4	+10·8	12	98	
		6389	0·440	315·4	312·9	+11·9	0	3	
		6389	0·407	311·8	312·4	+ 9·3	0	15	
G.		6389	0·407	315·9	311·3	+10·5	0	15	
		6389*b*	0·406	319·2	310·2	+11·4	4	46	
			0·893	60·0	237·6	+23·0			205
			0·873	110·6	233·6	−21·2			207
			0·940	101·4	223·9	−13·0			218
Mar. 28				(−26·1)	(294·6)	(−6·7)	(16)	(177)	(1159)
1908.				°	°	°			
88·490	FS, AS		0·891	248·8	344·6	−21·9			241
		6389*a*	0·638	296·3	316·8	+11·0	15	106	
		6389	0·623	298·6	315·1	+11·9	0	6	102*c*
		6389	0·595	296·7	313·8	+ 9·9	0	7	
G.		6389*b*	0·559	302·4	310·0	+11·6	11	66	
			0·864	58·6	228·4	+22·8			218
			0·866	112·1	221·3	−22·4			196
			0·902	86·2	217·4	+ 0·5			187
Mar. 29				(−26·1)	(281·3)	(−6·6)	(26)	(185)	(944)
89·446	FS, CL		0·899	241·2	332·4	−28·7			250
		6389*a*	0·787	289·7	317·5	+11·1	15	107	138*c*
		6389*b*	0·705	293·9	309·7	+11·6	0	20	
G.			0·878	54·0	215·9	+27·1			241
			0·819	120·2	215·4	−28·3			242
			0·911	76·6	205·0	+ 9·3			182
Mar. 30				(−26·2)	(268·7)	(−6·6)	(15)	(127)	(1053)
90·096	FS, AS		0·951	240·7	332·8	−29·8			140
			0·883	257·4	322·6	−14·2			163
		6389*a*	0·871	287·2	318·0	+11·5	11	77	
D.		6389	0·856	287·7	316·2	+11·5	0	3	296*c*
		6389*b*	0·794	290·5	309·4	+12·0	2	9	
			0·934	69·7	194·4	+16·3			122
			0·937	103·1	189·8	−14·6			233
Mar. 31				(−26·3)	(260·1)	(−6·5)	(13)	(89)	(954)
91·659	FS, M		0·868	248·0	299·7	−22·3			255
			0·837	288·8	293·4	+11·9			200
			0·734	268·6	286·8	− 5·5			128
		6389*a*	0·984	282·3	317·5	+10·8	0	35	293*f*
G.		6390*a*	0·872	97·8	178·4	−10·0	13	99	231*c*
		6391	0·901	98·4	174·8	−10·4	5	24	
		6391	0·918	97·0	172·4	− 9·0	15	74	
			0·896	63·4	181·0	+20·3			143
			0·881	105·9	177·3	−17·1			659
Apr. 1				(−26·3)	(239·5)	(−6·5)	(33)	(232)	(1909)
92·544	FS, M		0·935	248·0	297·7	−22·8			276
			0·927	261·3	296·2	−10·4			169
			0·835	265·4	284·6	− 7·4			443
G.			0·846	233·7	282·7	−33·8			229
			0·848	297·4	280·5	+19·2			246
			0·784	282·9	277·8	+ 5·9			374
			0·766	243·3	276·3	−24·4			180

Group 6389, March 27–April 1. One or two small spots on March 27, developing on the succeedings days into an irregular stream, of which *a* and *b*, the first and last spots, are the largest and most stable members.

Group 6390, April 1–11. A large composite spot, *a*, which becomes a regular spot by April 7 by throwing off some of its outlying portions.

Group 6391, April 1–10. A cluster of spots, *f* Group 6390, and coalesing to form a large composite spot, *a*, by April 3. *a* breaks up into a short stream by April 5. Groups 6390 and 6391 together make up a long straggling 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).
1908.				°	°	°			
92·544	FS, M	6390*a*	0·751	97·1	178·9	− 9·6	28	215	
		6391	0·795	97·0	174·9	− 9·5	0	5	489*c*
G.		6391	0·805	98·5	173·9	−10·6	6	106	
		6391	0·826	97·0	171·8	− 9·4	10	87	
			0·874	110·0	166·7	−20·6			490
Apr. 2				(−26·3)	(227·8)	(− 6·4)	(44)	(413)	(2896)
93·509	FS, AS		0·933	279·0	282·8	+ 6·0			345
			0·874	247·5	275·9	−22·7			251
			0·892	230·5	275·5	−37·8			243
			0·908	300·4	274·1	+24·2			248
		6392*	0·895	264·0	278·9	− 8·2	0	9	317*c*
		6392	0·236	132·9	204·8	−15·4	0	8	
		6392	0·266	129·1	202·8	−15·8	0	10	
		6390*a*	0·577	96·8	179·8	− 9·1	31	247	
G.		6391	0·631	96·9	175·9	− 9·2	0	2	
		6391*a*	0·671	97·9	172·8	−10·0	29	243	
		6395	0·658	106·3	174·3	−15·4	0	11	299*f*
		6398	0·867	104·4	154·7	−15·6	0	31	76*c*
		6396*	0·907	95·4	149·7	− 7·6	0	6	155*f*
		6399	0·976	108·3	136·4	−19·2	0	13	
		6394*a*	0·993	103·4	130·8	−14·0	0	152	881*p*
			0·845	118·5	158·6	−27·3			119
			0·862	76·4	157·4	+ 8·4			218
Apr. 3				(−26·4)	(215·1)	(− 6·3)	(60)	(732)	(3152)
94·110	FS, AS		0·955	263·8	280·3	− 7·8			314
			0·931	245·2	276·3	−25·4			210
			0·890	292·9	266·1	+17·1			180
		6392	0·170	169·3	205·3	−15·9	6	22	
		6392	0·194	160·2	203·3	−16·8	0	6	
		6392	0·174	153·1	202·5	−15·2	0	4	
		6392	0·191	152·5	202·0	−16·0	4	19	
		6390*a*	0·463	96·9	179·6	− 8·8	35	237	
D.		6391*a*	0·572	98·5	172·3	−10·0	42	210	
		6395	0·562	109·2	173·8	−15·9	0	4	
		6393*a*	0·767	105·4	157·2	−15·9	9	77	
		6396	0·801	106·4	154·0	−16·9	0	6	146*c*
		6396	0·799	103·8	154·0	−14·8	10	81	
		6396*	0·844	97·3	149·3	− 9·5	0	5	128*f*
		6399	0·941	108·7	136·3	−19·7	0	6	
		6397	0·950	102·6	134·6	−14·0	0	7	847*c*
		6394*a*	0·969	103·0	130·7	−14·1	20	165	
Apr. 4				(−26·4)	(207·2)	(− 6·3)	(126)	(849)	(1825)
1908.				°	°	°			
95·575	FS, M		0·872	266·2	248·6	− 6·3			261
			0·879	282·9	247·5	+ 8·2			243
			0·871	298·7	242·6	+21·2			319
		6392*a*	0·363	240·0	206·8	−16·3	29	140	
		6392	0·313	230·3	202·4	−17·5	15	71	
		6392	0·274	230·6	200·5	−16·0	8	44	
		6390*a*	0·131	111·3	180·7	− 8·9	33	194	
		6390	0·168	110·7	178·7	− 9·5	0	6	
		6391	0·249	110·2	174·1	−11·0	2	11	
		6391	0·262	105·6	173·0	−10·0	7	46	
		6391	0·268	99·0	172·4	− 8·4	7	42	
		6395	0·264	132·8	176·2	−16·4	0	16	
		6395	0·311	130·4	173·5	−17·7	0	5	
		6393*a*	0·476	111·6	160·6	−15·6	57	327	
G.		6396	0·517	109·4	157·6	−15·3	0	3	
		6396	0·528	111·9	157·2	−16·7	0	12	
		6396	0·545	108·0	155·5	−15·0	3	18	
		6396	0·567	106·3	153·8	−14·3	9	56	
		6396	0·575	111·5	153·8	−17·4	3	14	
		6396	0·587	108·8	152·6	−16·0	13	61	
		6399	0·780	110·7	137·1	−20·0	0	4	784*c*
		6397	0·772	98·0	137·0	−10·2	0	4	
		6397	0·781	100·6	136·3	−12·1	0	28	
		6394*a*	0·840	103·4	130·4	−14·6	10	121	
		6398*a*	0·912	97·1	121·6	− 9·1	14	116	
		6398	0·925	95·7	119·9	− 7·6	9	58	1146*c*
			0·900	65·6	128·0	+18·8			199
			0·941	77·9	119·3	+ 9·2			111
Apr. 5				(−26·4)	(187·8)	(− 6·2)	(219)	(1397)	(3063)
96·614	FS, M		0·892	284·3	235·2	+ 9·9			218
			0·844	301·8	224·9	+22·6			346
			0·764	246·3	222·8	−21·9			270
			0·850	314·9	219·6	+32·6			182
		6392*a*	0·569	249·9	207·8	−16·4	21	287	
		6392	0·485	248·0	201·9	−15·9	0	7	
		6392	0·489	243·5	201·4	−18·0	11	84	
		6392	0·462	246·7	200·2	−16·0	6	58	
		6390	0·165	239·0	182·3	−10·9	0	4	
G.		6390*a*	0·135	245·7	181·2	− 9·2	20	207	
		6391	0·084	181·8	174·3	−10·9	2	7	
		6391	0·012	163·8	173·9	− 6·7	1	6	
		6391	0·062	166·4	173·3	− 9·6	1	17	
		6391	0·044	146·6	172·7	− 8·2	5	35	
		6395	0·186	190·4	176·1	−16·6	2	23	
		6395	0·151	178·7	173·9	−14·7	0	4	
		6395	0·205	178·8	173·8	−17·9	4	25	
		6395	0·184	166·7	171·6	−16·3	1	7	
		6393*a*	0·269	129·4	161·7	−15·7	70	353	

Group 6392*, April 3. A small spot, seen only near the West limb.

Group 6392, April 3–10. A number of small spots in an irregular stream. The group developes rapidly, and the leader, *a*, is a large composite spot by April 5. A large regular spot, *b*, forms in the rear of the group by April 9.

Group 6393, April 3–13. A cluster of small faint spots, on April 3 rapidly developing into a large regular spot, *a*. It appears to be a revival, not a return, of Group 6384.

Group 6395, April 3–7. Several small unstable spots, scattered over a considerable area, *s* of Groups 6390 and 6391.

Group 6396*, April 3–4. One or two small unstable spots, *sf* Group 6396.

Group 6399, April 3–7. A very small spot.

Group 6394, April 3–10. A large composite spot, *a*, with some small companions on April 6 and the succeeding days. *a* diminishes rapidly in size.

Group 6396, April 4–12. A number of spots, mostly small and unstable in a cluster, *f* Group 6393, and forming with it a long straight stream. The group undergoes considerable and frequent changes.

Group 6397, April 4–8. Some small spots, *np* Group 6394.

Group 6398, April 5–14. A regular spot, *a*, with a few small companions. The groups, Nos. 6390 to 6399 inclusive, make up together a magnificent sinuous "procession" of spots, extending over nearly 90° of longitude.

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).
1908.				°	°	°			
96·614	FS, M	6396	0·330	119·2	156·8	−15·0	2	15	
		6396	0·350	116·5	155·3	−14·8	0	5	
		6396	0·366	120·1	154·9	−16·3	4	11	
		6396	0·367	113·7	153·9	−14·2	4	23	
		6396	0·393	119·7	153·3	−16·9	0	8	
		6396	0·400	116·2	152·3	−15·8	14	123	
		6399	0·628	113·4	136·6	−19·3	0	8	107*f*
G.		6397	0·611	101·4	136·5	−11·8	5	20	395*c*
		6394	0·677	107·8	132·0	−16·5	0	14	
		6394	0·678	103·3	131·5	−13·5	0	4	
		6394*a*	0·695	104·7	130·3	−14·6	8	63	
		6398*a*	0·788	96·8	121·9	− 9·2	11	83	490*c*
		6398	0·807	95·0	120·1	− 7·7	0	14	
			0·852	70·1	118·8	+13·4			287
			0·919	98·2	106·9	− 9·9			440
Apr. 6				(−26·4)	(174·1)	(−6·1)	(192)	(1515)	(2735)
97·420	FS, AS		0·888	241·3	225·4	−28·2			127
			0·883	286·2	223·1	+11·2			211
			0·851	253·0	222·0	−17·7			189
			0·896	300·4	220·9	+23·7			236
		6392*a*	0·722	253·2	209·4	−16·3	27	377	
		6392	0·678	252·5	205·7	−16·3	3	30	
		6392	0·672	249·9	204·9	−18·0	0	6	
		6392	0·658	252·2	204·1	−16·2	0	9	286*c*
		6392	0·644	249·9	202·7	−17·5	3	35	
		6392	0·620	248·3	200·6	−18·1	8	45	
		6392	0·605	251·2	200·0	−16·2	10	59	
		6390	0·363	246·1	183·4	−14·2	0	5	
		6390	0·338	253·0	182·7	−11·4	0	8	
		6390*a*	0·316	258·2	181·7	− 9·5	20	157	
		6390	0·295	255·6	180·3	−10·1	4	32	
G.		6391	0·194	248·4	174·0	−10·1	0	13	
		6391	0·167	257·8	172·9	− 8·1	3	19	
		6395	0·292	228·5	176·7	−17·1	0	8	
		6395	0·264	231·6	175·8	−15·8	0	10	
		6395	0·275	220·5	174·3	−18·0	0	10	
		6393*a*	0·170	172·8	162·2	−15·8	67	361	
		6396	0·187	144·3	157·1	−14·7	2	38	
		6396	0·227	141·6	155·1	−16·3	4	21	
		6396	0·207	132·0	154·4	−14·0	0	10	
		6396	0·254	130·4	152·0	−15·4	20	140	
		6399	0·488	118·9	136·7	−19·1	0	5	
		6397	0·445	103·2	137·4	−11·3	0	24	
		6397	0·495	96·7	133·8	− 8·6	0	19	
		6394	0·557	103·8	130·0	−12·7	0	8	
		6394*a*	0·561	107·3	130·0	−14·7	7	48	
		6398*a*	0·661	97·0	122·0	− 9·2	9	95	242*f*
		6398	0·678	94·5	120·7	− 7·5	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).
1908.				°	°	°			
97·420	FS, AS		0·787	67·1	115·4	+13·8			265
G.			0·849	98·7	105·1	−10·6			440
			0·932	59·8	100·8	+25·2			160
Apr. 7				(−26·4)	(163·5)	(−6·1)	(187)	(1598)	(2156)
98·452	FS, CL		0·871	305·5	202·3	+26·8			284
		6392*a*	0·871	254·4	210·7	−16·5	24	251	
		6392	0·839	255·1	207·0	−15·7	7	31	
		6392	0·823	251·6	205·2	−18·6	0	7	462*c*
		6392	0·815	254·0	204·5	−16·5	12	68	
		6392	0·801	252·4	203·0	−17·7	12	63	
		6392	0·765	254·1	199·7	−16·0	4	49	
		6390*a*	0·529	261·6	181·8	− 9·6	22	167	
		6390	0·510	260·1	180·5	−10·2	5	24	
		6391	0·392	262·9	172·9	− 8·3	4	10	
		6393*a*	0·269	231·4	162·4	−15·5	51	315	
		6396	0·217	219·7	158·1	−15·5	8	58	
		6396	0·190	217·3	156·7	−14·7	0	2	
		6396	0·221	208·6	156·2	−17·1	0	7	
G.		6396	0·175	208·7	154·9	−14·8	0	6	
		6396	0·225	200·5	154·6	−18·1	0	2	
		6396	0·190	201·1	154·0	−16·2	5	73	
		6396	0·162	189·4	151·5	−15·1	13	104	
		6400	0·241	7·6	148·1	+ 7·8	3	17	
		6400	0·219	12·8	147·1	+ 6·3	0	12	
		6400	0·243	17·4	145·7	+ 7·4	2	15	
		6397	0·262	97·9	134·8	− 7·9	0	3	
		6394	0·330	120·7	132·9	−15·4	0	3	
		6394	0·369	118·9	130·4	−15·9	0	9	
		6394*a*	0·366	115·2	130·0	−14·6	6	18	
		6398*a*	0·458	98·7	122·7	− 9·3	11	86	
		6398	0·458	92·7	122·6	− 6·6	0	7	
		6398	0·482	93·9	121·0	− 7·1	0	7	
			0·728	98·5	103·1	−10·3			680
Apr 8				(−26·4)	(149·9)	(−6·0)	(189)	(1414)	(1426)
99·619	FS, M		0·899	308·0	189·5	+30·3			278
		6392*a*	0·969	254·5	211·1	−16·5	26	233	
		6392	0·958	256·0	208·6	−15·1	4	22	
		6392	0·937	254·3	204·7	−16·8	3	36	799*c*
		6392*b*	0·924	253·2	202·5	−17·8	21	164	
G.		6392	0·909	254·9	200·3	−16·2	0	17	
		6390*a*	0·738	262·8	182·2	− 9·3	19	142	257*nf*
		6390	0·720	261·5	180·7	−10·3	4	23	
		6391	0·627	263·9	173·4	− 8·4	0	4	68*c*
		6393*a*	0·490	249·3	162·7	−15·2	60	312	
		6396	0·441	245·6	159·1	−15·8	5	32	
		6396	0·379	244·2	155·1	−15·0	3	12	

Group 6400, April 8–11. A few 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).
1908.				°	°	°			
99·619	FS, M	6396	0·371	241·1	154·1	−15·9	3	9	
		6396	0·359	239·3	153·2	−16·2	0	16	
		6396	0·322	245·6	152·0	−13·3	0	6	
		6396	0·322	238·6	151·0	−15·3	15	76	
		6400	0·349	311·9	149·6	+ 7·8	2	5	
		6400	0·300	324·5	144·6	+ 8·3	0	11	
		6394	0·168	172·1	133·1	−15·4	4	16	
G.		6394	0·146	166·6	132·5	−14·1	0	3	
		6394*a*	0·185	159·3	130·6	−15·8	3	20	
		6394	0·154	153·9	130·5	−13·8	1	8	
		6398	0·179	84·6	124·2	− 4·8	0	2	
		6398*a*	0·210	106·5	122·8	− 9·2	8	53	
		6398	0·218	93·8	121·9	− 6·6	0	8	
		6401*a*	0·979	96·8	55·9	− 7·8	39	292	323*c*
Apr. 9				(−26·4)	(134·5)	(− 5·9)	(220)	(1522)	(1725)
100·086	FS, AS		0·793	250·3	180·3	−19·2			218
			0·812	294·0	178·5	+15·6			190
		6392	0·978	254·0	207·3	−16·9	0	58	432*c*
		6392*b*	0·959	253·2	202·7	−17·8	19	185	
		6390*a*	0·810	262·9	182·6	− 9·2	23	171	184*c*
		6390	0·788	262·0	180·5	−10·0	8	32	
		6391	0·713	263·8	173·9	− 8·5	0	3	171*n*
		6393*a*	0·581	252·1	163·1	−15·1	59	326	
		6396	0·529	250·1	159·2	−15·4	3	56	
		6396	0·461	246·2	154·2	−16·0	1	5	
		6396	0·429	249·4	152·6	−14·0	0	15	
		6396	0·413	244·5	151·0	−15·7	14	83	
D.		6400*	0·563	295·5	159·1	+ 8·9	0	5	
		6400	0·439	301·1	150·5	+ 7·7	0	7	
		6400	0·379	303·3	146·6	+ 6·4	0	3	
		6400	0·378	310·3	145·2	+ 8·5	0	19	
		6400	0·348	309·1	144·0	+ 7·0	0	19	
		6394	0·186	207·3	133·4	−15·4	2	15	
		6394*a*	0·171	194·1	130·8	−15·4	3	22	
		6394	0·216	185·7	129·6	−18·3	0	11	
		6398*a*	0·113	121·7	122·7	− 9·3	3	16	
		6398	0·110	98·2	122·0	− 6·8	0	6	
		6401*a*	0·959	96·4	54·4	− 7·8	35	324	391*c*
			0·873	67·8	71·3	+16·0			124
Apr. 10				(−26·4)	(128·3)	(− 5·9)	(170)	(1381)	(1710)
101·219	FS, AS		0·910	253·3	179·2	−17·6			282
		6390*a*	0·930	263·4	182·0	− 8·3	19	124	289*f*
K.		6402	0·916	294·2	175·5	+19·4	5	25	109*c*
		6402	0·903	293·8	173·8	+18·6	0	12	
		6393*a*	0·763	256·4	163·0	−14·1	63	300	84*c*
		6396	0·727	255·0	159·7	−14·9	1	12	
1908.				°	°	°			
101·219	FS, AS	6396	0·650	251·4	153·1	−16·5	0	8	
		6396	0·630	255·3	152·0	−13·7	0	2	
		6396	0·618	252·8	150·8	−15·1	5	20	
		6396	0·604	258·3	150·3	−11·7	0	3	
K.		6400	0·570	293·8	145·0	+ 8·4	0	9	
		6398*a*	0·179	252·6	123·2	− 8·8	3	10	
		6398	0·154	266·6	122·2	− 6·3	2	12	
		6398	0·152	229·2	120·0	−11·4	0	5	
		6403	0·468	54·6	90·6	+10·4	8	16	
		6403	0·503	56·3	88·2	+11·0	6	35	
		6401*a*	0·848	96·1	55·1	− 8·2	42	330	133*c*
		6401	0·872	94·0	52·5	− 6·3	0	9	
			0·915	79·7	48·5	+ 7·0			101
			0·933	97·6	44·0	− 9·2			379
Apr. 11				(−26·4)	(113·3)	(− 5·8)	(154)	(932)	(1377)
102·090	FS, CL		0·923	251·5	169·6	−19·3			271
			0·806	290·3	152·4	+12·6			79
			0·661	285·4	141·5	+ 5·6			192
		6402	0·959	290·8	172·1	+18·0	0	12	211*c*
		6393*a*	0·875	256·4	163·1	−14·7	71	278	498*c*
		6396	0·758	253·7	150·8	−16·1	3	20	
		6396	0·756	256·1	150·8	−14·3	0	7	
		6398	0·367	266·8	123·3	− 6·6	2	19	
		6398*a*	0·369	260·1	123·3	− 9·1	2	7	
		6398	0·335	263·3	121·3	− 7·7	0	6	
		6398*	0·211	217·1	109·4	−15·4	0	2	
D.		6398†	0·060	188·3	102·3	− 9·2	0	2	
		6403	0·325	30·8	92·1	+10·4	6	25	
		6403	0·337	35·3	90·4	+10·2	1	6	
		6403	0·381	35·6	88·7	+12·3	0	6	
		6403	0·357	41·1	88·1	+10·0	0	8	
		6401	0·710	92·2	56·5	− 5·6	0	13	
		6401*a*	0·727	94·7	55·1	− 7·4	39	314	163*c*
		6401	0·758	93·3	52·4	− 6·3	0	14	
			0·818	99·5	46·7	−11·1			251
			0·904	74·7	39·3	+11·1			181
			0·918	94·3	35·0	− 6·2			499
Apr. 12				(−26·3)	(101·8)	(− 5·8)	(124)	(739)	(2345)
103·418	AS, M		0·904	281·3	147·5	+ 7·7			155
			0·764	256·1	134·1	−14·5			489
		6393*a*	0·976	256·4	162·5	−14·5	58	26	815*f*
G.		6398*a*	0·633	262·6	123·6	− 9·1	1	7	76*c*
		6398†	0·279	266·2	100·5	− 6·5	0	13	
		6403	0·314	329·4	93·6	+10·0	0	6	
		6401*a*	0·473	93·9	56·0	− 6·9	47	295	

Group 6401, April 9–21. A large regular spot, *a*, with occasionally some very small companions.
Group 6400*, April 10. A very small spot, *p* Group 6400.
Group 6402, April 11–12. A cluster of small spots.
Group 6403, April 11–14. A few small unstable spots.
Group 6398*, April 12. A very small spot. *sf* Group 6398.
Group 6398†, April 12–13. A very small spot, *f* Group 6398.

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).
1908.				°	°	°			
103·418	AS, M	6401	0·496	99·3	54·7	− 9·5	0	3	
		6401	0·510	95·0	53·6	− 7·5	0	6	
			0·707	91·8	39·3	− 5·3			91
G.			0·857	94·9	25·2	− 7·2			497
			0·906	70·0	22·5	+15·4			219
			0·965	106·2	8·7	−17·1			264
Apr. 13				(−26·3)	(84·3)	(−5·7)	(106)	(594)	(2606)
104·143	FS, AS		0·965	256·8	150·2	−14·2			469
			0·960	280·3	147·1	+ 8·2			137
			0·860	256·6	134·2	−14·4			508
			0·888	298·7	131·8	+22·2			132
		6398*a*	0·759	263·4	124·2	− 8·7	0	4	225*c*
		6403	0·363	325·9	86·7	+12·0	0	4	
		6401	0·302	102·3	57·4	− 9·1	0	4	
D.		6401*a*	0·322	95·8	56·0	− 7·1	45	245	
		6401	0·326	87·9	55·7	− 4·6	0	3	
		6401	0·366	103·1	53·6	−10·0	0	2	
		6401	0·363	95·5	53·4	− 7·2	0	3	
			0·747	106·7	26·7	−16·2			75
			0·801	95·2	21·4	− 7·5			194
			0·929	73·0	8·9	+13·5			193
			0·915	107·0	8·2	−17·8			370
Apr. 14				(−26·2)	(74·7)	(−5·6)	(45)	(265)	(2303)
105·438	FS, CL		0·892	259·8	121·0	−11·6			813
			0·685	258·2	100·7	−12·1			386
		6401	0·051	176·5	57·4	− 8·4	3	11	
		6401*a*	0·022	141·5	56·8	− 6·5	44	228	
		6401	0·080	169·1	56·7	−10·0	1	4	
G.		6401	0·089	119·4	53·1	− 8·0	0	4	
		6404	0·776	105·6	6·9	−15·6	0	9	383*c*
			0·787	62·9	10·6	+17·3			228
			0·895	75·0	356·2	+10·8			341
			0·888	94·2	354·8	− 6·3			330
Apr. 15				(−26·2)	(57·6)	(−5·5)	(48)	(256)	(2481)
106·492	FS, AS		0·878	259·7	105·3	−11·6			464
			0·763	289·6	90·6	+11·1			131
		6401	0·270	257·3	59·1	− 8·6	0	5	
		6401*a*	0·233	264·3	57·1	− 6·6	45	246	
G.		6401	0·242	249·7	57·0	−10·0	0	5	
		6401	0·182	260·3	54·1	− 7·1	2	19	
			0·763	68·0	357·3	+12·9			226
			0·976	99·1	325·7	−10·1			291
Apr. 16				(−26·1)	(43·7)	(−5·4)	(47)	(275)	(1112)
1908.				°	°	°			
107·479	FS, M		0·929	256·8	99·4	−14·3			188
		6401	0·483	261·8	59·5	− 8·6	0	7	
		6401*a*	0·454	265·6	57·7	− 6·7	36	220	
		6401	0·448	258·2	57·0	−10·0	0	7	
G.		6401	0·405	266·0	54·6	− 6·5	0	4	
		6401	0·386	260·3	53·2	− 8·6	0	18	
			0·915	99·8	324·2	−11·1			331
			0·937	73·5	323·5	+13·4			150
Apr. 17				(−26·0)	(30·7)	(−5·3)	(36)	(256)	(669)
108·106	FS, CL		0·906	284·3	85·5	+10·6			262
			0·868	254·2	82·7	−16·3			245
		6401*a*	0·588	265·8	58·4	− 6·8	35	217	
		6405	0·040	206·8	23·4	− 7·3	0	9	
D.		6406*a*	0·970	91·9	306·4	− 3·2	9	72	172*c*
			0·860	123·0	325·5	−30·8			174
			0·858	100·1	323·1	−11·4			508
			0·919	68·7	318·9	+17·2			169
Apr. 18				(−26·0)	(22·4)	(−5·3)	(44)	(298)	(1530)
109·514	FS, M	6408	0·857	285·3	60·7	+10·3	3	19	96*c*
		6401*a*	0·819	265·6	58·9	− 6·6	35	236	506*c*
		6404	0·183	204·3	8·2	−14·7	0	10	
		6404	0·188	194·2	6·5	−15·7	2	5	
		6406*a*	0·836	90·6	307·1	− 3·4	12	68	606*f*
		6407*a*	0·932	97·1	294·8	− 8·5	24	152	525*f*
G.			0·762	63·5	318·7	+16·2			118
			0·716	102·6	318·3	−12·6			277
			0·844	129·5	310·7	−35·6			153
			0·863	114·7	305·1	−23·8			173
			0·894	74·3	302·6	+11·5			261
			0·936	61·0	299·6	+24·8			132
Apr. 19				(−25·9)	(3·8)	(−5·2)	(76)	(490)	(2847)
110·158	FS, AS	6408	0·938	282·9	63·3	+10·2	0	22	} 96*c*
		6408	0·914	284·0	59·5	+10·6	8	23	
		6401*a*	0·899	265·1	59·5	− 6·6	25	197	396*c*
		6405	0·488	264·4	24·5	− 7·2	3	13	
		6405	0·455	261·6	22·2	− 8·4	0	5	
		6404	0·306	236·5	10·5	−14·7	0	2	
		6404	0·298	234·2	9·7	−15·0	5	27	
		6404	0·263	227·2	6·8	−15·3	0	2	
D.		6404	0·260	222·2	5·7	−16·1	2	9	
		6406*a*	0·753	89·5	306·6	− 3·0	12	77	
		6406	0·755	87·9	306·5	− 1·9	0	6	
		6411	0·827	82·3	300·3	+ 3·5	0	10	382*f*
		6407*a*	0·877	96·4	293·8	− 8·1	18	142	609*f*

Group 6404, April 15–22. A few small unstable spots. The group is not seen on April 16, 17, or 18.
Group 6405, April 18–23. One or two small unstable spots. The group is not seen on April 19.
Group 6406, April 18–29. A large regular spot, *a*, with occasionally a small companion.
Group 6408, April 19–21. A short stream of spots forming near the West limb.
Group 6407, April 19–30. A large regular spot, *a*, with occasionally a small companion.
Group 6411, April 20–21. A few very small spots in a short 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).
1908.				°	°	°			
110·158	FS, AS		0·669	106·0	313·9	−14·4			104
			0·894	69·6	295·0	+15·7			247
D.			0·878	115·1	294·7	−24·4			116
			0·935	84·6	286·7	+ 3·2			78
Apr. 20				(−25·8)	(355·3)	(− 5·1)	(73)	(535)	(2028)
111·153	FS, AS	6408	0·994	280·6	64·6	+ 9·9	0	20	
		6408	0·981	281·7	59·6	+10·4	14	65	237c
		6408	0·979	283·4	58·8	+12·0	0	11	
		6401	0·977	264·0	60·2	− 7·0	15	170	446f
		6405	0·706	264·9	27·1	− 7·1	0	4	
		6405	0·692	262·0	26·0	− 9·2	2	22	
		6405	0·669	265·0	24·2	− 7·1	0	5	93c
		6405	0·635	263·5	21·6	− 8·0	0	2	
		6409	0·496	249·3	10·7	−14·5	1	7	
		6404	0·435	241·6	5·6	−16·5	0	6	
		6410	0·265	117·6	328·4	−11·9	0	12	
		6406a	0·580	87·8	306·9	− 2·8	10	66	
D.		6406	0·591	85·9	306·2	− 1·6	0	11	
		6411	0·656	78·9	302·2	+ 3·4	2	7	
		6411	0·682	79·1	300·2	+ 3·7	0	8	
		6407a	0·742	95·6	294·3	− 7·5	27	139	84c
		6407	0·770	95·1	291·8	− 7·1	0	9	
			0·827	70·1	289·3	+13·4			158
			0·821	82·8	287·7	+ 3·0			117
			0·903	57·5	284·2	+26·4			207
			0·862	98·5	282·5	− 9·9			580
			0·921	122·5	276·4	−31·8			92
			0·953	78·4	271·3	+ 9·5			146
Apr. 21				(−25·7)	(342·2)	(− 5·0)	(71)	(564)	(2160)
112·066	FS, AS		0·949	260·8	42·1	−10·3			246
		6405	0·842	264·0	27·5	− 7·7	6	45	233c
		6405	0·814	265·6	24·6	− 6·5	0	4	
		6409	0·661	254·3	10·9	−14·0	0	10	
		6404	0·595	248·3	5·2	−16·7	0	4	
		6410	0·131	167·7	328·5	−12·3	0	17	
		6406a	0·396	85·5	306·9	− 2·7	12	77	
D.		6407a	0·583	96·4	294·5	− 7·8	21	118	
		6407	0·605	96·0	292·9	− 7·5	0	18	
			0·790	100·5	277·9	−11·3			364
			0·913	73·4	266·4	+13·0			150
			0·931	126·0	263·1	−35·2			136
			0·925	98·1	262·2	− 9·4			145
Apr. 22				(−25·6)	(330·1)	(− 4·9)	(39)	(293)	(1274)
1908.				°	°	°			
113·102	FS, CL		0·854	289·7	12·2	+14·0			112
			0·779	252·6	7·0	−16·5			197
		6405	0·948	264·3	28·0	− 7·0	12	111	
		6405	0·924	265·5	24·0	− 6·0	16	50	385c
		6405	0·915	263·2	22·8	− 8·2	6	19	
		6405	0·902	265·2	20·9	− 6·4	0	3	
		6406a	0·164	77·0	307·2	− 2·7	12	79	
		6412	0·224	115·5	304·6	−10·3	0	3	
D.		6412	0·227	108·1	303·8	− 8·8	0	16	
		6407a	0·380	98·9	294·2	− 7·8	19	125	
		6413	0·947	108·0	244·8	−18·6	0	19	202c
		6413	0·973	108·5	239·1	−19·1	0	5	
			0·808	70·7	265·2	+12·4			104
			0·818	100·7	261·5	−11·5			107
			0·917	65·8	253·8	+19·9			195
			0·901	85·3	252·7	+ 2·1			115
Apr. 23				(−25·5)	(316·4)	(− 4·8)	(65)	(430)	(1417)
114·519	FS, AS		0·934	252·1	7·0	−18·4			278
			0·868	294·6	353·9	+18·6			153
			0·815	278·0	351·5	+ 3·7			96
		6406a	0·196	279·4	308·8	− 2·8	14	62	
		6406	0·080	223·4	300·9	− 8·1	0	7	
		6407a	0·066	137·6	295·1	− 7·5	14	83	
G.		6413	0·802	107·9	244·9	−17·1	4	33	163c
		6413	0·826	108·0	242·5	−17·5	0	8	
		6414	0·977	105·5	219·3	−16·2	0	68	506c
		6414	0·986	107·2	216·6	−17·7	0	103	
			0·940	114·7	227·8	−24·8			222
Apr. 24				(−25·3)	(297·7)	(− 4·7)	(32)	(364)	(1418)
115·090	FS, AS		0·952	250·1	2·6	−20·4			217
			0·913	284·9	354·1	+11·6			123
		6406a	0·328	274·9	309·1	− 2·8	10	52	
		6407a	0·099	240·5	295·1	− 7·4	15	98	
		6413	0·730	109·1	244·1	−17·0	6	22	128c
D.		6413	0·771	109·5	240·5	−17·9	4	26	
		6417	0·924	103·8	222·4	−14·5	0	10	
		6414	0·953	105·2	217·4	−15·9	15	73	739c
		6414	0·968	106·4	214·1	−17·0	18	142	
		6415	0·987	108·3	208·5	−18·8	7	346	
			0·894	114·3	227·5	−23·7			217
Apr. 25				(−25·2)	(290·1)	(− 4·6)	(75)	(769)	(1424)

Group 6409, April 21–22. A very small spot.
Group 6410, April 21–22. A small faint spot.
Group 6412, April 23. Some very small spots.
Group 6413, April 23–27. Some small spots in a straight stream.
Group 6414, April 24–May 3. Return of Group 6392. A few small unstable spots in an irregular cluster
Group 6415, April 25–May 5. A few small unstable spots in an irregular cluster; not seen on April 30.
Group 6417, April 25–28. A very small spot, not seen on April 26 and 27.

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).
1908.				°	°	°			
116·525	FS, CL		0·856	257·8	330·1	−12·8			136
			0·784	298·0	317·9	+18·5			152
			0·724	256·1	317·2	−13·1			94
		6406*a*	0·624	271·0	309·7	− 2·9	8	60	
		6407*a*	0·409	261·9	295·2	− 7·4	8	92	
		6413	0·490	118·1	244·4	−17·3	0	10	
G.		6413	0·520	116·3	242·1	−17·2	0	3	
		6413	0·562	116·8	239·4	−18·5	1	5	
		6414	0·823	107·2	216·3	−16·7	17	226	1013*c*
		6415	0·889	109·2	208·7	−19·1	10	121	
			0·724	119·4	227·7	−24·0			145
Apr. 26				(−25·0)	(271·2)	(−4·5)	(44)	(517)	(1540)
117·085	FS, CL		0·918	258·6	330·6	−12·3			224
			0·793	257·0	316·1	−13·0			275
		6406*a*	0·723	270·3	310·0	− 2·9	6	37	155*f*
		6407*a*	0·528	263·2	295·6	− 7·4	13	87	
		6413	0·396	125·8	244·2	−17·6	0	9	
		6413	0·470	122·7	239·2	−18·7	0	5	
D.		6414	0·745	108·5	216·4	−16·8	24	176	
		6415	0·828	110·4	208·7	−19·3	12	90	837*c*
		6415	0·833	112·8	208·4	−21·4	0	10	
		6415	0·861	106·9	204·7	−16·8	0	5	
		6416*a*	0·982	98·6	184·4	− 9·3	15	87	120*p*
			0·952	107·4	191·4	−17·9			352
Apr. 27				(−24·9)	(263·8)	(−4·5)	(70)	(506)	(1963)
118·169	FS, AS		0·886	258·9	312·0	−11·9			222
			0·895	233·1	309·9	−34·8			125
			0·874	287·1	308·2	+12·6			172
			0·851	297·7	302·9	+20·6			127
		6406*a*	0·866	268·9	309·4	− 3·2	4	17	215*n*
		6407*a*	0·708	264·0	294·5	− 7·4	13	90	63*c*
		6417	0·465	112·6	223·3	−14·2	0	3	
		6414	0·553	117·6	216·5	−18·6	0	5	
		6414	0·561	108·4	216·4	−13·9	0	3	
		6414	0·582	113·1	215·6	−16·9	28	101	
D.		6414	0·584	110·5	215·1	−15·4	0	26	
		6414	0·613	111·6	213·2	−16·6	0	4	
		6414	0·634	112·3	211·7	−17·4	0	6	
		6415	0·670	112·4	209·0	−18·1	0	17	
		6415	0·696	114·9	207·4	−20·3	7	40	
		6415	0·703	117·1	207·3	−21·9	0	3	
		6415	0·700	111·3	206·4	−18·0	2	15	
		6415	0·704	113·5	206·4	−19·5	1	14	
		6415	0·731	108·4	203·4	−16·4	0	6	
		6415	0·773	108·0	199·6	−16·6	0	4	
118·169	FS, AS	6418*a*	0·887	71·3	189·6	+14·3	10	25	
		6418	0·910	72·4	186·3	+14·0	5	16	102*c*
		6418	0·911	73·9	185·9	+12·7	0	5	
		6416*a*	0·920	98·2	182·4	− 9·3	17	92	
D.		6419*a*	0·988	100·9	168·0	−11·4	11	85	258*c*
			0·775	109·4	199·6	−17·8			310
			0·870	105·8	189·2	−15·9			339
Apr. 28				(−24·7)	(249·5)	(−4·4)	(98)	(577)	(1933)
119·066	FS, CL		0·927	259·1	305·7	−11·7			251
			0·863	244·1	295·9	−24·4			110
			0·860	288·5	294·4	+13·5			240
			0·654	260·4	278·3	− 9·5			75
		6406*a*	0·957	267·9	310·7	− 3·3	0	11	254*n*
		6407*a*	0·851	263·9	296·0	− 7·5	14	70	231*f*
		6407*	0·692	270·2	281·3	− 3·0	0	16	61*c*
		6407*	0·677	273·1	280·0	− 1·1	0	5	
		6414	0·406	123·7	217·0	−17·1	10	109	
		6414	0·389	117·8	216·9	−14·4	1	11	
		6414	0·472	118·6	212·0	−16·9	0	31	
		6414	0·488	112·5	209·9	−14·6	0	6	
D.		6415	0·540	119·5	207·9	−19·1	3	21	
		6415	0·541	113·5	206·6	−16·1	0	11	
		6418*a*	0·755	65·9	192·2	+15·0	6	29	142*c*
		6418	0·815	68·6	186·1	+14·6	5	12	
		6416*a*	0·809	97·7	183·6	− 8·8	15	99	71*c*
		6421	0·946	93·0	166·5	− 4·3	0	10	144*c*
		6419*a*	0·927	100·2	169·5	−11·0	13	103	422*c*
		6420*a*	0·961	103·4	163·3	−14·1	48	243	
			0·691	109·6	195·0	−16·5			171
			0·882	105·8	175·8	−16·0			212
			0·894	77·7	175·7	+ 8·9			130
Apr. 29				(−24·6)	(237·6)	(−4·3)	(115)	(787)	(2514)
120·397	CL, M		0·964	278·6	293·6	+ 7·2			239
			0·956	298·6	288·6	+25·8			151
			0·889	251·7	282·4	−18·1			67
		6407*a*	0·971	263·9	296·3	− 6·9	11	69	448*f*
		6414	0·251	175·9	218·9	−18·6	1	14	
		6414	0·187	167·6	217·6	−14·6	0	14	
		6414	0·229	168·1	217·2	−17·1	10	48	
		6414	0·259	154·6	213·3	−17·5	2	23	
		6418*a*	0·531	54·1	193·7	+14·4	7	49	
		6418	0·557	57·2	191·3	+14·0	1	15	
		6418	0·616	60·6	186·5	+14·2	0	7	
D.		6416*a*	0·591	99·4	184·0	− 8·9	15	92	
		6422*a*	0·755	81·2	171·8	+ 3·9	2	16	95*c*
		6422	0·788	81·4	168·8	+ 4·2	0	14	

Group 6416, April 27–May 8. Return of Group 6390. A large regular spot, *a*, with a small companion on May 6.
Group 6418, April 28–May 8. A regular spot, *a*, with a train of small unstable spots.
Group 6419, April 28–May 9. A regular spot, *a*, followed by some very small companions on May 2 and 6. A revival, not a return, of Group 6391.
Group 6407*, April 29. Some small spots, *nf* Group 6407.
Group 6420, April 29–May 11. Return of Group 6393. A large regular spot, *a*, with occasionally some small companions.
Group 6421. April 29–May 8. Some small unstable spots in a straggling stream, not seen on May 7.
Group 6422, April 30–May 5. A small regular spot, *a*, with a distant follower.

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).
1908.				°	°	°			
120·397	CL, M	6421	0·773	92·8	169·4	− 4·8	2	9	} 312*f*
		6421	0·815	92·6	165·4	− 4·6	5	24	
		6419*a*	0·773	101·5	169·6	−11·5	19	94	} 521*c*
D.		6420*a*	0·845	104·5	162·6	−14·4	42	230	
			0·978	100·6	141·7	−11·2			264
			0·911	94·0	154·4	− 5·4			135
			0·922	106·2	152·8	−16·5			400
Apr. 30				(−24·4)	(220·0)	(−4·1)	(117)	(718)	(2632)
121·514	FS, AS		0·903	259·4	269·9	−11·3			137
			0·864	279·8	264·0	+ 6·4			123
			0·815	299·3	254·7	+20·9			112
		6414	0·368	226·1	221·5	−18·6	0	6	
		6414	0·347	227·3	220·7	−17·4	0	13	
		6414	0·297	222·0	217·2	−16·6	3	19	
		6415	0·237	212·1	212·8	−15·5	0	16	
		6415	0·221	201·0	210·0	−15·9	0	7	
		6415	0·241	192·7	208·5	−17·5	0	3	
		6415	0·220	192·5	208·1	−16·3	0	15	
		6415	0·257	187·4	207·3	−18·7	0	2	
		6418*a*	0·366	31·0	194·1	+14·3	14	99	
G.		6418	0·387	37·0	191·5	+14·1	0	4	
		6418	0·397	40·6	190·0	+13·6	0	9	
		6418	0·433	43·7	187·4	+14·4	0	18	
		6416*a*	0·364	103·3	184·4	− 8·5	13	76	
		6422*a*	0·541	76·4	173·6	+ 3·9	15	51	
		6422	0·608	76·9	169·0	+ 4·7	2	15	
		6421	0·573	91·2	170·4	− 4·0	0	6	
		6421	0·596	93·1	168·8	− 5·1	0	4	
		6421	0·633	92·4	166·1	− 4·6	7	25	
		6419*a*	0·585	104·2	170·1	−11·6	18	105	}
		6420	0·668	102·4	163·8	−11·3	0	10	} 130*c*
		6420*a*	0·686	106·5	162·7	−14·2	36	251	}
			0·792	100·8	153·1	−11·0			252
			0·920	102·4	138·3	−13·0			344
May 1				(−24·2)	(205·3)	(−4·0)	(108)	(754)	(1098)
122·128	FS, AS		0·930	280·5	264·4	+ 8·2			181
			0·872	293·0	254·3	+17·8			274
			0·748	250·3	244·4	−17·3			135
		6414	0·428	240·0	219·7	−16·0	0	4	
		6414	0·409	235·8	217·7	−17·0	1	7	
D.		6414	0·380	241·8	217·2	−14·1	0	13	
		6414	0·377	231·0	214·9	−17·5	0	23	
		6414	0·348	233·7	214·0	−15·7	0	5	
		6415	0·293	223·1	209·1	−16·2	2	22	
		6415	0·284	209·3	205·5	−18·3	0	12	
		6418*a*	0·318	10·4	193·7	+14·2	17	67	
1908.				°	°	°			
122·128	FS, AS	6418	0·318	14·6	192·4	+13·9	0	8	
		6418	0·319	21·6	190·2	+13·3	2	12	
		6418	0·346	25·3	188·4	+14·2	0	8	
		6418	0·363	29·6	186·5	+14·4	0	8	
		6416*a*	0·236	111·2	184·3	− 8·8	13	72	
		6422*a*	0·417	72·7	173·7	+ 3·5	7	31	
		6422	0·496	74·4	168·6	+ 4·1	0	22	
		6421	0·446	92·8	170·7	− 4·9	0	3	
D.		6421	0·521	94·1	165·8	− 5·6	5	20	
		6419*a*	0·471	108·2	170·0	−12·0	17	94	
		6419	0·507	111·6	168·1	−14·2	0	5	
		6419	0·532	111·1	166·4	−14·4	0	3	
		6420	0·563	105·7	163·6	−12·1	0	6	
		6420*a*	0·588	110·5	162·4	−15·2	40	220	
			0·646	92·4	156·9	− 4·6			96
			0·724	109·4	151·8	−16·7			212
			0·888	102·8	134·5	−13·2			738
May 2				(−24·1)	(197·1)	(−4·0)	(104)	(665)	(1636)
123·079	FS, CL		0·937	287·0	252·1	+14·4			334
			0·852	251·4	242·4	−17·8			202
		6414	0·621	246·7	221·1	−17·3	0	4	
		6415	0·489	243·1	211·5	−16·2	0	14	
		6415	0·415	234·5	205·3	−17·5	0	7	
		6418*a*	0·344	333·6	193·6	+14·0	11	70	
		6418	0·318	332·0	193·4	+12·4	0	2	
		6418	0·335	337·0	192·3	+14·0	0	6	
		6418	0·319	343·7	189·9	+13·9	2	15	
D.		6418	0·317	352·8	186·9	+14·3	0	10	
		6416*a*	0·084	177·0	184·3	− 8·7	6	50	
		6422*a*	0·220	55·2	174·2	+ 3·4	4	13	
		6422	0·301	61·1	169·3	+ 4·6	0	6	
		6421	0·321	95·0	166·0	− 5·3	0	14	
		6419*a*	0·281	119·8	170·2	−11·8	13	101	
		6420*a*	0·417	118·2	162·3	−15·0	39	244	
			0·763	108·6	135·8	−16·6			261
			0·918	103·3	118·0	−13·7			450
May 3				(−23·9)	(184·6)	(−3·9)	(75)	(556)	(1247)
124·196	FS, AS		0·943	253·9	240·4	−16·5			301
			0·923	289·6	234·7	+16·5			188
			0·902	301·3	228·7	+26·1			233
			0·782	248·1	219·8	−19·3			778
D.		6415	0·659	248·3	209·4	−16·9	0	13	
		6415	0·645	251·1	208·8	−14·9	0	8	
		6415	0·628	246·8	206·8	−17·2	0	5	
		6418*a*	0·494	307·7	193·5	+14·1	14	75	
		6418	0·448	315·2	188·8	+15·0	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).
1908.				°	°	°			
124·196	FS, AS	6416*a*	0·268	251·4	184·6	− 8·5	9	51	
		6422*a*	0·148	327·2	174·4	+ 3·5	1	9	
		6422	0·144	358·2	170·1	+ 4·6	0	5	
		6421	0·055	259·0	172·9	− 4·3	0	8	
		6421	0·026	222·4	170·8	− 4·8	2	15	
		6421	0·036	125·7	168·1	− 4·9	0	2	
		6421	0·062	126·9	167·0	− 5·8	0	17	
		6419*a*	0·138	186·2	170·7	−11·6	14	93	
D.		6420	0·218	169·4	167·4	−16·0	0	2	
		6420	0·245	160·0	164·8	−17·0	0	2	
		6420	0·194	153·9	164·8	−13·7	0	9	
		6420	0·180	144·0	163·6	−12·0	0	5	
		6420*a*	0·231	148·0	162·6	−15·0	35	229	
			0·884	104·7	107·9	−14·7			442
			0·940	84·3	100·4	+ 4·1			219
May 4				(−23·7)	(169·8)	(− 3·7)	(75)	(559)	(2161)
125·105	FS, M		0·916	303·6	218·1	+28·7			167
		6415	0·796	250·0	209·5	−18·0	0	7	1511*c*
		6418*a*	0·644	296·7	194·0	+13·9	12	84	
		6418	0·597	302·1	189·3	+15·4	0	17	
		6416*a*	0·462	258·0	184·9	− 8·7	12	50	
		6422*a*	0·292	291·9	173·5	+ 2·8	0	6	
		6422	0·211	295·2	168·8	+ 1·6	0	6	
		6421	0·228	262·8	170·9	− 5·1	0	11	
		6421	0·201	261·9	169·3	− 5·2	0	3	
		6421	0·164	265·0	167·2	− 4·4	0	3	
		6419*a*	0·263	238·4	171·0	−11·4	16	92	
D.		6420	0·233	225·8	167·6	−12·8	0	4	
		6420	0·205	222·5	165·9	−12·2	1	7	
		6420	0·256	207·8	164·9	−16·6	0	3	
		6420	0·186	218·3	164·5	−12·0	3	10	
		6420*a*	0·215	201·9	162·5	−15·0	35	212	
		6420	0·176	205·8	162·3	−12·7	0	3	
		6423*a*	0·966	81·6	83·7	+ 7·1	11	66	405*f*
			0·838	103·8	101·2	−13·5			226
			0·886	74·4	97·3	+12·0			175
			0·901	89·0	93·8	− 0·7			148
May 5				(−23·5)	(157·8)	(− 3·6)	(90)	(584)	(2632)
126·085	FS, AS		0·897	250·2	208·0	−19·3			1569
			0·743	253·6	192·1	−14·6			134
		6418*a*	0·784	290·0	193·8	+13·2	16	77	117*n*
D.		6416	0·686	264·4	188·0	− 6·5	0	10	
		6416*a*	0·649	260·0	185·0	− 9·2	10	53	
		6421	0·448	264·2	171·3	− 5·8	0	15	
		6421	0·388	264·5	167·5	− 5·5	0	7	

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).
1908.				°	°	°			
126·085	FS, AS	6419*a*	0·459	251·0	171·0	−11·8	20	95	
		6419	0·449	248·4	170·0	−12·7	0	4	
		6419	0·423	257·8	169·4	− 8·4	0	3	
		6420*a*	0·356	234·3	162·2	−15·4	42	220	
D.		6423*a*	0·885	79·3	83·7	+ 7·8	12	77	
		6425	0·968	81·3	70·2	+ 7·5	4	22	
		6424*a*	0·973	76·2	69·6	+12·5	38	230	522*c*
			0·959	94·0	71·3	− 4·9			196
May 6				(−23·3)	(144·8)	(− 3·6)	(142)	(813)	(2538)
127·431	FS, AS		0·946	251·7	197·9	−18·4			670
			0·755	247·1	174·3	−19·3			145
			0·736	278·5	173·7	+ 3·9			131
			0·714	266·5	172·5	− 4·9			119
		6418*a*	0·930	286·1	193·6	+13·6	6	42	218*c*
		6416*a*	0·852	261·7	185·3	− 8·8	8	29	123*c*
		6419*a*	0·703	257·0	171·2	−11·5	11	79	83*c*
		6420*a*	0·596	249·1	162·0	−15·0	31	228	
G.		6427	0·532	270·3	159·0	− 2·7	0	24	
		6427*a*	0·491	269·2	156·3	− 3·4	5	24	
		6426	0·538	286·8	158·1	+ 6·0	2	8	
		6428	0·069	124·1	123·7	− 5·6	0	6	
		6423*a*	0·696	75·9	84·3	+ 7·3	0	20	45*c*
		6424*a*	0·846	73·6	71·2	+11·9	28	209	610*f*
		6425	0·840	79·0	71·0	+ 7·4	4	24	193*c*
			0·926	96·6	59·2	− 7·4			562
May 7				(−23·0)	(127·0)	(− 3·4)	(95)	(693)	(2899)
128·130	FS, CL		0·922	255·5	184·9	−14·7			202
			0·809	277·0	171·2	+ 3·7			172
		6418*a*	0·974	285·0	193·2	+13·8	0	59	174*f*
		6416*a*	0·925	261·6	185·5	− 9·1	6	26	142*c*
		6421	0·833	265·3	174·1	− 5·8	0	10	} 166*c*
		6421	0·761	263·8	167·3	− 6·9	0	6	
		6419*a*	0·807	257·8	171·3	−11·8	13	76	131*f*
		6420*a*	0·710	251·8	162·0	−15·2	26	230	71*c*
D.		6427	0·660	271·2	158·9	− 1·7	2	3	} 65*c*
		6427*a*	0·626	269·1	156·5	− 3·2	12	46	
		6426	0·662	283·2	158·0	+ 6·2	0	11	
		6428	0·114	246·2	123·8	− 5·9	0	18	
		6423*a*	0·584	72·4	83·8	+ 7·4	0	6	
		6424*a*	0·765	71·1	70·2	+12·1	19	194	228*c*
		6425	0·751	77·3	70·4	+ 7·3	3	12	
			0·853	73·8	61·1	+12·0			398
			0·866	98·7	57·9	− 9·2			743
May 8				(−22·9)	(117·8)	(− 3·3)	(81)	(697)	(2492)

Group 6423, May 5–9. A small regular spot, *a*.
Group 6424, May 6–15. Return of Group 6408. A large regular spot, *a*, breaking up into a cluster of small spots after May 9.
Group 6425, May 6–9. A small spot.
Group 6426, May 7–9. A few very small spots.
Group 6427, May 7–11. A double spot, *a*, preceded by a few small unstable spots.
Group 6428, May 7–13. A small double spot rapidly developing 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).
1908.				°	°	°			
129·518	FS, CL		0·958	275·0	172·2	+ 3·9			164
		6419*a*	0·947	258·2	170·7	−12·2	13	84	355*f*
		6420*a*	0·888	254·4	161·7	−15·3	23	208	252*f*
		6426	0·886	279·0	160·9	+ 6·5	0	11	143*c*
		6426	0·841	278·8	155·8	+ 5·6	0	20	
		6429	0·851	263·4	157·6	− 7·3	11	77	306*c*
		6427	0·835	265·2	155·9	− 5·8	0	8	
		6427*a*	0·832	268·5	155·6	− 3·1	11	68	
G.		6428	0·433	263·3	124·9	− 5·8	0	18	
		6424	0·537	58·1	71·5	+13·6	0	4	
		6424*a*	0·535	61·7	70·8	+11·9	7	130	
		6425	0·495	69·5	71·7	+ 7·1	0	8	
		6431*a*	0·911	102·0	33·8	−12·3	0	37	416*f*
		6430*a*	0·922	98·2	32·2	− 8·8	6	46	
			0·633	66·6	63·1	+12·0			214
			0·728	80·1	53·5	+ 5·0			82
			0·745	105·8	52·0	−13·8			276
May 9				(−22·6)	(99·4)	(− 3·2)	(71)	(719)	(2208)
130·588	FS, AS		0·945	277·2	155·5	+ 5·8			261
			0·823	259·1	140·4	−10·7			167
		6420*a*	0·971	255·0	161·5	−15·3	29	200	276*f*
		6429	0·970	263·7	161·3	− 6·9	12	135	470*c*
		6427*a*	0·956	268·2	158·1	− 2·7	12	100	
		6432	0·693	260·8	128·9	− 8·6	4	36	
		6432	0·678	263·7	127·8	− 6·6	7	23	
G.		6432	0·664	259·8	126·6	− 9·1	0	6	
		6432	0·658	263·2	126·3	− 6·9	0	5	
		6428	0·618	265·7	123·4	− 5·1	8	66	
		6424*a*	0·358	42·8	71·0	+12·1	7	60	
		6433	0·575	98·9	50·5	− 7·7	0	11	
		6431*a*	0·782	102·8	34·3	−12·0	5	45	254*c*
		6430*a*	0·805	98·9	31·9	− 9·0	4	24	
			0·942	105·0	15·1	−15·1			193
May 10				(−22·3)	(85·3)	(− 3·1)	(88)	(711)	(1621)
131·153	AS, M		0·969	277·9	152·8	+ 6·9			202
			0·892	257·8	140·7	−12·3			161
		6420*a*	0·992	255·6	161·0	−14·7	30	207	326*sf*
		6429	0·993	263·9	161·0	− 6·4	9	87	271*f*
		6427*a*	0·981	268·5	156·5	− 2·1	17	80	218*p*
D.		6432	0·798	261·7	130·6	− 8·5	18	51	280*c*
		6432	0·778	264·4	128·8	− 6·3	11	57	
		6432	0·775	262·6	128·4	− 7·6	0	12	
		6432	0·752	263·8	126·4	− 6·7	1	10	
		6432	0·753	261·1	126·4	− 8·7	4	32	
		6428	0·713	266·7	123·2	− 4·5	6	43	
		6424	0·290	28·4	69·7	+11·8	4	21	
1908.				°	°	°			
131·153	AS, M	6431*a*	0·699	104·9	34·2	−12·6	11	35	312*f*
		6430*a*	0·728	100·1	31·4	− 9·4	2	11	
D.			0·912	109·3	12·6	−18·8			259
			0·960	81·4	4·9	+ 7·4			99
May 11				(−22·2)	(77·8)	(− 3·0)	(113)	(646)	(2128)
132·535	FS, M		0·856	249·6	117·3	−18·8			128
		6432	0·941	263·4	129·8	− 7·2	42	400	445*c*
		6432	0·915	260·7	125·7	− 9·6	3	15	
		6428	0·901	265·8	123·8	− 5·0	18	161	
		6434	0·347	303·6	76·5	+ 8·4	5	19	
G.		6424	0·307	316·7	71·9	+10·1	0	16	
		6424	0·329	325·5	70·6	+13·0	0	14	
		6433	0·240	133·8	49·4	−12·3	2	10	
		6431*a*	0·441	113·0	35·1	−12·4	3	23	
		6430	0·482	103·4	31·4	− 8·9	0	4	
		6435	0·551	67·4	28·6	+ 9·8	0	6	
May 12				(−21·8)	(59·6)	(− 2·8)	(73)	(668)	(573)
133·453	FS, M		0·840	258·5	104·2	−11·1			164
		6432	0·992	264·9	130·1	− 5·4	9	155	585*c*
		6432	0·986	262·5	127·8	− 7·8	0	35	
		6428	0·970	265·1	123·3	− 5·5	2	51	
G.		6424	0·480	297·2	73·0	+10·2	1	9	
		6424	0·455	303·8	70·1	+12·1	0	6	
		6433	0·161	193·5	49·6	−11·7	0	2	
		6431*a*	0·269	129·7	35·2	−12·5	8	32	
		6436*a*	0·978	78·2	330·4	+11·0	42	212	417*f*
May 13				(−21·6)	(47·4)	(− 2·7)	(62)	(502)	(1166)
134·172	FS, CL		0·894	255·7	100·8	−13·9			300
			0·755	287·1	85·0	+11·0			206
		6424	0·615	291·9	73·3	+11·1	0	9	
D.		6431*a*	0·180	163·9	35·0	−12·6	6	20	
		6436*a*	0·941	76·5	329·0	+11·7	31	210	603*f*
			0·929	105·6	330·0	−15·4			227
May 14				(−21·4)	(37·9)	(− 2·6)	(37)	(239)	(1336)
135·069	FS, AS		0·941	255·2	96·0	−14·9			198
			0·869	281·3	85·3	+ 8·5			165
		6424	0·767	286·8	74·3	+11·1	0	9	259*c*
D.		6424	0·715	288·7	69·5	+11·3	0	6	
		6424*	0·656	286·7	65·3	+ 8·9	0	11	
		6431*a*	0·249	223·6	36·1	−12·9	3	12	
		6431	0·222	222·5	34·8	−12·0	0	3	

Group 6429, May 9–11. A regular spot, forming *np* Group 6427.
Group 6430, May 9–11. Return of Group 6405. A small double spot, *a*.
Group 6431, May 9–18. A small double spot, *a*, with occasionally a very small companion.
Group 6432, May 10–13. An irregular cluster of small unstable spots on May 10, rapidly developing on the succeeding days.
Group 6433, May 10–13. Some very small unstable spots. The group is not seen on May 11.
Group 6434, May 12. A pair of small spots.
Group 6435, May 12. Some very small spots.
Group 6436, May 13–25. A large regular spot, *a*, generally followed by a short train.
Group 6424*, May 15. A small spot, *sf* Group 6424.

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).
1908.				°	°	°			
135·069	FS, AS	6436*a*	0·836	75·5	330·8	+10·6	43	215	
		6436	0·843	73·6	330·3	+12·3	0	4	453*c*
		6436	0·869	75·8	327·1	+10·9	1	9	
		6437	0·902	79·8	322·5	+ 8·0	3	25	
D.			0·788	109·4	335·3	−16·8			137
			0·934	94·7	317·1	− 5·3			125
			0·937	106·3	316·8	−16·2			280
May 15				(−21·2)	(26·0)	(− 2·6)	(50)	(294)	(1617)
136·057	FS, AS		0·807	286·9	65·0	+12·1			678
			0·738	257·8	60·0	−10·6			184
		6431*a*	0·430	244·4	36·3	−12·9	6	18	
		6431	0·400	241·8	34·1	−13·1	0	9	
		6436*a*	0·690	70·5	331·6	+11·5	41	237	
D.		6436	0·733	70·9	328·1	+12·1	5	24	389*c*
		6437	0·753	74·3	325·8	+10·1	0	10	
		6437	0·777	75·8	323·4	+ 9·5	4	12	
			0·901	99·9	309·0	− 9·9			414
			0·925	80·1	306·2	+ 8·2			206
May 16				(−20·9)	(13·0)	(− 2·4)	(56)	(310)	(1871)
137·500	AS, M		0·939	284·8	62·4	+13·0			413
			0·874	257·4	54·4	−12·1			331
		6431	0·694	254·1	36·9	−12·6	0	7	
		6436*a*	0·422	57·0	332·8	+11·1	51	255	
G.		6437	0·547	69·1	322·9	+ 9·2	0	10	
			0·719	110·1	309·5	−15·9			129
			0·845	69·0	298·8	+16·3			234
			0·873	98·8	293·3	− 8·8			439
May 17				(−20·5)	(353·9)	(− 2·3)	(51)	(272)	(1546)
138·436	CL, M		0·987	280·9	61·5	+10·4			246
			0·936	256·3	50·6	−13·6			227
		6431	0·838	255·9	37·8	−13·0	0	5	248*f*
		6436*a*	0·277	34·4	332·4	+11·0	44	258	
		6436	0·318	31·9	331·6	+13·5	0	4	
		6437	0·373	60·0	322·5	+ 8·6	0	6	
G.		6437	0·372	66·5	321·5	+ 6·5	0	9	
			0·686	98·6	298·5	− 7·5			262
			0·764	72·1	293·6	+12·1			130
			0·848	59·1	288·6	+24·5			259
			0·832	99·3	285·5	− 8·9			417
May 18				(−20·2)	(341·5)	(− 2·2)	(44)	(282)	(1789)
1908.				°	°				
139·700	FS, M		0·909	258·0	29·8	−11·7			228
			0·774	254·7	14·7	−13·1			113
		6436*a*	0·262	330·7	332·3	+11·1	43	240	
		6437	0·164	6·2	323·8	+ 7·4	0	9	
		6437	0·156	16·0	322·3	+ 6·6	0	6	
		6437	0·203	16·3	321·5	+ 9·2	0	9	
G.		6437	0·237	16·5	320·9	+11·1	0	8	
			0·849	117·2	269·3	−24·0			113
			0·881	124·7	267·2	−31·1			176
			0·877	108·3	264·5	−17·0			117
			0·909	84·2	259·9	+ 4·4			164
			0·952	110·2	253·3	−19·8			154
May 19				(−19·8)	(324·8)	(− 2·0)	(43)	(272)	(1065)
140·690	AS, M		0·891	253·9	14·0	−15·2			170
			0·793	240·7	0·7	−24·0			98
		6436*a*	0·409	303·4	332·0	+11·2	38	226	
		6437	0·248	311·7	322·4	+ 7·6	0	17	
G.		6437	0·194	316·0	319·5	+ 6·2	0	14	
		6437	0·178	335·0	316·0	+ 7·4	0	3	
			0·897	105·3	248·5	−14·6			188
May 20				(−19·5)	(311·7)	(− 1·9)	(38)	(260)	(456)
141·688	FS, AS		0·925	249·2	5·1	−19·9			234
			0·861	279·9	357·1	+ 7·6			105
		6436*a*	0·586	292·6	331·9	+11·5	27	203	
		6437	0·460	293·6	323·7	+ 8·9	0	7	
G.		6437	0·435	300·2	320·9	+11·0	0	4	
		6438	0·489	225·5	320·4	−21·6	0	8	
			0·802	112·2	247·0	−18·7			120
			0·967	107·5	223·6	−17·4			417
May 21				(−19·2)	(298·5)	(− 1·8)	(27)	(222)	(876)
142·641	CL, M		0·856	284·3	343·4	+11·3			150
		6436*a*	0·740	287·3	331·9	+11·5	34	210	106*c*
		6437	0·628	283·4	323·7	+ 7·0	0	4	
G.		6438	0·639	237·0	321·0	−21·7	3	16	
			0·897	107·4	223·0	−16·3			995
May 22				(−18·9)	(285·9)	(− 1·7)	(37)	(230)	(1251)
143·403	FS, CL		0·870	250·4	335·0	−17·8			133
			0·733	242·5	319·7	−20·9			93
		6436*a*	0·843	285·1	331·8	+11·8	27	200	179*f*
		6439	0·791	116·7	226·4	−21·8	0	14	341*c*
G.		6439	0·785	114·0	226·4	−19·6	0	4	
			0·923	110·9	209·6	−19·8			539
			0·958	81·7	203·1	+ 7·5			124
May 23				(−18·6)	(275·8)	(− 1·6)	(27)	(218)	(1409)

Group 6437, May 15–22. Some small spots, *sf* Group 6436.
Group 6438, May 21–22. A small spot.
Group 6439, May 23–26. Some 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).
1908.				°	°	°			
144·483	FS, M		0·857	252·0	319·4	−16·2			162
		6436*a*	0·946	283·2	331·6	+12·0	24	197	372*f*
		6439	0·633	124·1	227·2	−22·0	0	6	
			0·687	110·7	219·9	−15·1			231
G.			0·851	114·6	205·4	−21·5			465
			0·851	82·2	203·8	+ 5·8			131
			0·898	71·3	199·5	+16·0			162
			0·891	104·3	199·1	−13·4			197
			0·879	126·1	204·8	−32·0			112
May 24				(−18·3)	(261·5)	(−1·5)	(24)	(203)	(1832)
145·109	CL, M		0·908	252·3	317·5	−16·6			282
			0·846	267·5	310·8	− 2·9			148
			0·843	283·9	309·5	+10·2			147
		6436*a*	0·981	283·0	331·2	+12·4	29	223	367*sf*
		6439	0·551	131·3	226·7	−22·5	0	2	
D.		6439*	0·533	120·5	224·6	−16·9	0	3	
			0·785	117·1	204·6	−21·8			933
			0·880	53·7	198·0	+30·5			130
			0·890	73·3	191·9	+14·1			210
			0·905	100·9	188·8	−10·4			371
May 25				(−18·1)	(253·2)	(−1·4)	(29)	(228)	(2588)
146·130	FS, M		0·949	254·0	310·7	−15·6			187
			0·937	272·5	309·0	+ 2·0			169
			0·889	285·7	301·1	+13·3			203
			0·825	262·2	294·9	− 7·1			181
		6439	0·404	144·8	225·4	−20·4	0	10	
D.		6439	0·429	147·1	225·2	−22·2	0	5	
		6439	0·446	144·8	223·6	−22·5	1	5	
		6440*a*	0·987	106·1	159·3	−16·0	17	137	450*n*
			0·785	99·0	188·4	− 7·8			114
			0·905	106·5	175·8	−15·4			205
			0·933	93·7	171·0	− 3·9			320
			0·951	80·4	168·4	+ 8·7			120
May 26				(−17·7)	(239·7)	(−1·2)	(18)	(157)	(1949)
147·638	FS, AS		0·951	262·0	291·6	− 8·0			154
			0·897	254·6	282·8	−14·3			121
		6440*a*	0·881	107·8	159·2	−16·2	20	145	271*c*
G.		6441	0·973	93·0	143·3	− 3·2	97	593	370*c*
			0·820	97·0	165·0	− 6·4			240
			0·842	80·1	163·2	+ 7·7			155
May 27				(−17·2)	(219·8)	(−1·1)	(117)	(738)	(1311)
1908.				°	°	°			
148·431	FS, M		0·958	257·0	282·1	−12·7			289
			0·853	247·3	265·7	−19·7			126
			0·837	230·1	259·0	−33·0			104
		6442	0·625	257·9	247·2	− 8·4	0	8	
		6442	0·582	259·0	244·2	− 7·2	0	7	
		6443	0·749	79·2	161·5	+ 7·4	7	29	} 174*c*
G.		6443	0·788	79·7	158·0	+ 7·4	0	19	
		6440*a*	0·786	109·7	159·0	−16·0	17	116	439*f*
		6441	0·915	92·9	143·2	− 3·1	83	496	} 788*c*
		6441	0·932	90·2	140·7	− 0·5	0	18	
			0·732	99·3	162·6	− 7·5			238
			0·890	99·8	146·7	− 9·2			144
May 28				(−16·9)	(209·2)	(−1·0)	(107)	(693)	(2302)
149·410	FS, M	6442	0·782	259·6	247·2	− 8·7	0	5	} 143*c*
		6442	0·770	261·8	246·2	− 6·9	0	8	
		6443	0·565	75·9	162·9	+ 7·1	9	39	} 83*c*
		6443	0·641	76·2	157·5	+ 8·1	4	16	
		6440*a*	0·641	113·7	158·9	−15·6	19	115	} 211*c*
G.		6440	0·662	111·1	156·8	−14·4	0	6	
		6441	0·798	92·9	143·6	− 2·9	101	519	322*c*
			0·832	116·1	142·8	−22·0			173
			0·912	96·5	130·8	− 6·3			829
May 29				(−16·6)	(196·3)	(−0·9)	(133)	(708)	(1761)
150·058	FS, CL		0·910	298·6	249·7	+25·4			149
		6442	0·887	262·9	249·9	− 6·6	0	2	} 147*c*
		6442	0·858	261·3	246·3	− 7·8	0	4	
		6443	0·437	72·2	163·0	+ 6·9	7	28	
		6440*a*	0·538	119·4	158·6	−16·0	20	128	
D.		6444	0·533	73·5	156·8	+ 8·0	4	13	
		6441*a*	0·702	94·1	143·3	− 3·5	111	507	} 185*c*
		6441	0·729	96·6	141·2	− 5·4	0	7	
			0·858	97·2	129·0	− 6·6			539
			0·956	107·8	115·6	−17·2			111
May 30				(−16·4)	(187·7)	(−0·8)	(142)	(689)	(1131)
151·475	AS, CL		0·925	263·1	236·3	− 6·6			149
			0·811	248·8	221·2	−17·4			492
		6443	0·154	34·9	163·9	+ 6·7	3	17	
G.		6443	0·193	43·7	161·3	+ 7·4	0	5	
		6443	0·237	51·9	158·2	+ 7·8	0	15	
		6440*a*	0·301	145·7	158·9	−15·0	15	117	
		6441*a*	0·425	95·2	144·0	− 2·7	77	519	

Group 6439*, May 25. A very small spot, *nf* Group 6439.
Group 6440, May 26–June 6. Return of Group 6420. Third apparition. A large regular spot, *a*, followed on May 29 by a small companion.
Group 6441, May 27–June 7. A very large regular spot, *a*, crossed by several bright bridges, and generally accompanied by a few small followers. *a* has divided into two parts by June 7.
Group 6442, May 28–30. Some very small spots.
Group 6443, May 28–June 2. Some very small unstable spots.
Group 6444, May 30. 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).
1908.				°	°	°			
151·475	AS,CL	6441	0·431	90·5	143·6	− 0·8	0	5	
		6441	0·477	99·1	140·9	− 4·8	0	7	
		6445*a*	0·910	76·3	104·5	+12·2	12	46	180*c*
G.		6447	0·933	77·4	100·9	+11·5	0	23	
		6446*a*	0·917	101·6	103·1	−10·9	12	120	552*c*
		6448	0·960	100·6	95·7	−10·3	13	314	
			0·637	99·5	129·9	− 6·5			203
May 31				(−15·8)	(169·0)	(−0·6)	(132)	(1188)	(1576)
152·498	FS, CL		0·926	251·5	222·0	−17·2			569
			0·784	244·4	204·1	−20·1			367
		6449*a*	0·530	253·4	186·2	− 9·1	3	18	
		6449*b*	0·493	251·9	183·6	− 9·3	0	19	
		6443	0·191	312·0	163·6	+ 6·8	0	6	
		6443	0·182	320·4	162·1	+ 7·5	0	9	
		6440*a*	0·252	192·3	158·6	−14·7	11	95	
		6450	0·266	44·4	144·5	+10·4	8	29	
		6450*b*	0·296	56·7	141·0	+ 8·9	5	25	
		6441*a*	0·202	101·4	144·0	− 2·8	87	554	
G.		6441	0·207	90·9	143·5	− 0·7	0	7	
		6441	0·249	106·0	141·6	− 4·4	0	11	
		6445*a*	0·780	74·8	105·4	+11·5	21	109	
		6445	0·803	73·9	103·4	+12·6	0	3	
		6445	0·801	76·3	103·2	+10·6	0	16	149*c*
		6447	0·828	76·3	100·6	+11·0	5	71	
		6446*a*	0·793	103·8	103·9	−11·2	15	229	
		6448*a*	0·842	102·3	98·8	−10·6	11	101	
		6448	0·878	100·0	94·5	− 9·0	11	135	632*c*
		6448*b*	0·883	102·3	94·1	−11·1	10	281	
			0·953	80·0	83·6	+ 9·3			323
June 1				(−15·4)	(155·4)	(−0·5)	(187)	(1718)	(2040)
153·518	FS, AS		0·891	246·5	202·9	−21·0			565
			0·810	258·6	195·4	− 9·5			133
		6449*b*	0·671	256·1	183·2	− 9·6	0	7	67*p*
		6441*	0·425	258·3	166·6	− 5·3	0	5	
		6443	0·387	285·2	163·9	+ 5·5	0	5	
		6440*a*	0·369	228·0	158·4	−14·6	10	83	
G.		6441	0·074	254·0	146·1	− 1·6	4	19	
		6441*a*	0·061	217·8	144·1	− 3·2	97	566	
		6441	0·018	232·2	142·8	− 1·1	5	25	
		6450	0·151	333·0	145·9	+ 7·3	0	8	
		6450*a*	0·189	340·2	145·7	+ 9·8	4	10	
		6450*	0·464	138·8	123·0	−20·8	0	2	
		6445*a*	0·614	71·0	105·9	+11·1	18	158	
		6447	0·681	73·6	100·5	+10·8	5	72	103*c*
153·518	FS, AS	6446*a*	0·621	107·6	105·1	−11·1	32	197	
		6448	0·662	106·9	101·9	−11·4	0	21	
		6448	0·689	103·3	99·3	− 9·4	0	7	398*f*
G.		6448*a*	0·724	106·0	96·9	−11·8	23	254	
		6448*b*	0·756	103·7	93·8	−10·6	27	401	
		6448	0·781	102·1	91·4	− 9·6	0	19	
			0·902	78·4	78·3	+10·3			457
			0·948	98·0	70·9	− 7·7			224
June 2				(−15·1)	(142·0)	(−0·4)	(225)	(1859)	(1947)
154·478	FS, CL		0·942	245·0	197·6	−23·5			391
			0·827	259·7	184·4	− 8·7			288
			0·666	249·9	169·0	−13·4			121
		6441*	0·613	264·3	166·7	− 3·7	0	5	109*c*
		6440*a*	0·529	242·4	158·0	−14·4	11	78	
		6450*a*	0·333	299·8	146·1	+ 9·2	0	12	
		6441*a*	0·268	259·2	144·4	− 3·2	85	605	
		6441	0·267	245·3	143·3	− 6·7	0	8	
		6441	0·243	266·5	143·2	− 1·2	0	32	
		6441	0·229	250·2	141·6	− 4·7	0	31	
		6441	0·199	251·4	140·0	− 3·9	2	16	
G.		6445*a*	0·414	61·8	107·5	+11·0	7	92	
		6445	0·443	64·5	105·3	+10·7	4	32	
		6447	0·473	66·9	103·1	+10·4	0	23	
		6447	0·513	66·5	100·6	+11·6	7	73	
		6446*a*	0·432	114·2	105·7	−10·4	31	184	
		6448	0·485	112·9	102·2	−11·1	0	41	
		6448	0·526	107·5	98·8	− 9·3	7	70	
		6448*a*	0·538	110·9	98·5	−11·3	13	156	323*c*
		6448*b*	0·592	108·5	94·5	−11·0	48	521	
		6448	0·588	105·1	94·3	− 9·1	6	49	
			0·851	75·3	72·0	+12·3			616
			0·866	100·2	69·8	− 9·0			382
June 3				(−14·7)	(129·2)	(−0·3)	(221)	(2028)	(2230)
155·151	FS,CL		0·908	261·6	185·1	− 7·7			363
			0·795	271·4	172·7	+ 1·0			196
			0·788	251·8	170·7	−14·3			285
			0·726	284·9	165·7	+10·6			165
			0·590	235·0	151·1	−19·9			261
			0·679	220·4	151·1	−31·2			163
D.		6440*a*	0·642	247·8	158·0	−14·2	7	63	
		6441*a*	0·423	263·4	145·1	− 2·9	121	554	
		6441	0·404	267·6	144·0	− 1·2	2	41	
		6441	0·381	263·1	142·5	− 2·8	0	12	
		6441	0·386	258·5	142·5	− 4·6	2	11	
		6441	0·330	258·3	139·1	− 4·0	0	15	
		6445*a*	0·290	49·5	107·4	+10·7	13	99	

Group 6445, May 31–June 9. A number of spots in a short stream. The leader, *a*, is the largest member.
Group 6446, May 31–June 9. A regular spot, *a*, followed by a short train. *a* breaks up into a short stream by June 7.
Group 6447, May 31–June 7. An irregular cluster following Group 6445, and forming with it a long straggling stream.
Group 6448, May 31–June 10. A fine irregular stream, of which the principal member, *b*, is a very large composite spot in the rear of the group. *a* is a large, nearly regular spot in the fore part of the stream. *b* is divided by a bright bridge and measured in two parts, *c* and *d*, on June 6. The group follows Group 6446, forming with it a long straight stream.
Group 6449, June 1–2. Two small spots, *a* and *b*, of which *a* has disappeared by June 2.
Group 6450, June 1–3. A pair of small spots, *a* and *b*, on June 1. *b* has disappeared by June 2, but some small spots are then seen, *s* of *a*, but disappear before June 3.
Group 6441*, June 2–3. A very small spot, *p* Group 6441, at a considerable distance.
Group 6450*, June 2. 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).
1908.				°	°	°			
155·151	FS, CL	6445	0·325	54·4	104·8	+10·7	13	61	
		6447	0·392	57·2	100·7	+12·0	11	87	
		6447	0·385	61·1	100·3	+10·5	0	31	
		6446*a*	0·305	126·7	106·0	−10·6	37	192	
		6448	0·351	123·1	102·9	−11·2	4	29	
		6448	0·379	119·7	100·8	−11·0	0	7	
		6448*a*	0·408	119·1	99·1	−11·6	31	165	
D.		6448	0·411	114·1	98·0	− 9·8	7	49	
		6448	0·431	116·0	97·2	−11·0	3	19	
		6448	0·460	110·0	94·4	− 9·2	4	33	
		6448*b*	0·477	114·5	94·1	−11·6	70	487	
		6448	0·508	112·1	91·8	−11·1	3	22	
			0·834	74·7	65·0	+12·6			277
			0·855	105·1	62·6	−13·0			371
June 4				(−14·4)	(120·3)	(−0·2)	(328)	(1977)	(2081)
156·437	FS, AS		0·889	264·0	165·7	− 5·4			300
			0·850	277·4	161·1	+ 6·3			272
			0·802	243·3	153·3	−21·1			130
		6440*a*	0·828	252·7	157·8	−14·3	13	64	234*p*
		6441	0·691	262·4	146·6	− 5·2	0	9	
		6441*a*	0·674	265·8	145·4	− 2·8	82	575	
		6441	0·660	268·6	144·4	− 0·9	0	22	
		6441	0·636	271·6	142·6	+ 1·1	0	6	123*c*
		6441	0·625	269·1	141·8	− 0·6	0	8	
		6441	0·618	263·4	141·1	− 4·1	0	11	
		6445*a*	0·201	331·6	108·8	+10·2	14	90	
		6445	0·185	343·7	106·3	+10·2	4	27	
		6447	0·239	11·0	100·6	+13·6	0	9	
		6447	0·218	12·1	100·6	+12·3	0	47	
		6446*a*	0·195	199·0	107·0	−10·6	22	167	
G.		6446	0·186	186·5	104·5	−10·6	1	9	
		6451	0·293	179·8	103·2	−17·0	0	5	
		6451	0·292	175·2	101·8	−16·9	2	19	
		6451	0·299	166·9	99·3	−16·9	0	7	
		6451	0·278	158·1	97·2	−14·9	0	7	
		6448	0·187	168·7	101·2	−10·6	6	43	
		6448	0·173	161·0	100·0	− 9·4	0	12	
		6448*a*	0·214	161·0	99·2	−11·6	16	103	
		6448	0·186	149·0	97·8	− 9·2	2	12	
		6448	0·224	150·8	96·9	−11·3	0	5	
		6448	0·229	144·4	95·5	−10·7	0	15	
		6448	0·210	134·7	94·7	− 8·5	2	11	
		6448*b*	0·256	141·5	94·0	−11·5	43	431	
			0·807	110·3	51·5	−16·2			132
			0·898	103·3	40·3	−11·9			143
June 5				(−13·9)	(103·3)	(0·0)	(207)	(1714)	(1334)
1908.				°	°	°			
157·134	FS, M		0·943	267·5	164·4	− 2·3			185
			0·923	280·6	160·9	+ 9·9			524
			0·861	243·9	150·5	−22·2			400
			0·764	281·2	143·2	+ 8·6			149
		6440*a*	0·904	254·3	157·7	−14·1	12	53	479*np*
		6441*a*	0·793	266·3	146·3	− 2·9	86	552	
		6441	0·779	269·2	145·1	− 0·6	0	7	597*c*
		6441	0·750	271·2	142·5	+ 1·0	0	4	
		6445*a*	0·319	304·6	109·5	+10·5	17	94	
		6445	0·285	308·9	107·1	+10·4	1	16	
		6447	0·234	327·3	101·5	+11·4	0	3	
		6447	0·245	332·6	100·7	+12·7	2	19	
D.		6446*a*	0·291	230·1	107·2	−10·6	20	156	
		6446	0·261	223·8	104·6	−10·7	0	4	
		6451	0·329	206·5	102·9	−16·9	3	13	
		6451	0·318	195·3	99·1	−17·7	2	8	
		6448	0·229	214·8	101·7	−10·7	5	16	
		6448*a*	0·218	202·5	99·0	−11·5	8	42	
		6448	0·172	203·9	98·1	− 8·9	0	5	
		6448	0·149	184·7	94·8	− 8·4	0	3	
		6448*c*	0·216	181·9	94·5	−12·3	26	227	
		6448*d*	0·189	177·9	93·7	−10·7	34	206	
			0·915	104·4	28·8	−13·1			265
June 6				(−13·6)	(94·1)	(+0·1)	(216)	(1428)	(2599)
158·671	FS, CL		0·857	263·6	132·3	− 5·4			408
		6441*a*	0·964	266·2	148·0	− 3·6	36	264	337*c*
		6441*a*	0·945	266·9	144·4	− 2·9	15	102	
		6445*a*	0·611	286·6	110·0	+10·2	7	60	
		6445	0·575	286·7	107·5	+ 9·7	0	6	76*c*
		6447	0·513	292·4	102·5	+11·4	0	14	
		6447	0·491	296·0	100·5	+12·6	0	12	
		6446	0·573	250·8	107·0	−10·7	15	99	
		6446	0·535	253·2	104·8	− 8·7	1	5	
		6451	0·566	239·0	104·0	−16·7	15	110	
		6451	0·532	238·3	101·7	−16·0	1	19	
G.		6451	0·512	234·1	99·3	−17·2	6	63	
		6448	0·512	248·9	102·6	−10·4	5	15	
		6448	0·476	247·1	100·1	−10·4	0	23	
		6448	0·459	243·3	98·3	−11·7	0	5	
		6448	0·442	247·2	98·0	− 9·7	0	4	
		6448	0·422	243·6	96·2	−10·6	5	59	
		6448*cd*	0·393	239·7	93·8	−11·2	16	255	
		6448	0·394	234·3	92·8	−13·1	0	3	
		6452	0·301	226·5	86·5	−11·7	0	3	
			0·841	111·2	18·6	−17·5			333
			0·907	100·9	9·2	− 9·8			156
June 7				(−13·0)	(73·7)	(+0·2)	(122)	(1121)	(1310)

Group 6451, June 5–11. A stream of small spots, *s* of Groups 6446 and 6448.
Group 6452, June 7. A very small spot, *f* Group 6448.

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).
1908.				°	°	°			
159·637	FS, AS		0·955	264·5	133·4	− 5·1			623
		6445*a*	0·761	283·0	109·7	+10·2	6	45	97*f*
		6446	0·736	255·3	107·2	−10·4	9	46	
		6451	0·716	246·5	104·0	−16·3	17	114	185*c*
		6451	0·665	243·1	99·2	−17·2	9	77	
		6448	0·687	254·9	103·2	−10·0	0	8	
		6448	0·661	253·6	101·0	−10·4	0	3	
G.		6448	0·632	251·6	98·5	−11·2	0	11	
		6448*c*	0·580	248·5	94·3	−11·9	10	81	154*c*
		6448*d*	0·566	250·9	93·8	−10·3	4	72	
		6448	0·518	252·4	90·8	− 8·6	0	8	
			0·670	110·4	21·0	−13·2			85
			0·828	105·9	6·5	−12·8			203
			0·855	118·6	6·1	−23·8			174
June 8				(−12·6)	(61·0)	(+0·4)	(55)	(465)	(1521)
160·242	FS, AS		0·965	264·0	127·4	− 5·7			575
		6445*a*	0·842	281·2	109·6	+ 9·6	0	57	510*f*
		6446	0·822	256·9	107·2	−10·5	4	22	
		6446	0·811	258·4	106·3	− 9·2	0	6	
		6451	0·804	248·4	104·1	−16·9	19	86	
		6451	0·767	249·8	100·9	−15·1	0	8	
		6451	0·767	245·4	100·0	−18·3	0	7	
D.		6451	0·750	246·2	98·7	−17·3	15	38	
		6448	0·771	256·2	102·3	−10·3	0	12	
		6448	0·746	253·8	99·7	−11·7	0	20	
		6448	0·744	251·7	99·2	−13·2	0	19	833*c*
		6448*c*	0·687	251·8	94·6	−12·1	8	73	
		6448*d*	0·670	253·8	93·6	−10·4	0	17	
		6453*a*	0·982	79·3	334·1	+10·6	0	129	216*p*
			0·718	103·7	8·1	− 9·5			139
June 9				(−12·4)	(52·9)	(+0·4)	(46)	(494)	(2273)
161·683	FS, M		0·947	282·4	104·6	+11·9			428
			0·779	282·1	84·3	+ 9·8			192
		6451	0·945	252·6	103·6	−16·2	9	91	
		6451	0·928	253·3	100·8	−15·2	0	18	1411*c*
		6451	0·915	251·3	98·5	−16·8	0	9	
G.		6448*d*	0·868	257·0	93·2	−11·0	1	7	
		6454	0·519	287·8	63·8	+ 9·6	3	13	
		6454	0·512	290·6	63·0	+10·9	3	12	
		6454	0·494	290·6	61·8	+10·5	0	4	
		6454*a*	0·476	291·9	60·5	+10·7	9	33	
		6453*a*	0·870	79·0	334·0	+ 9·9	11	95	339*c*
June 10				(−11·8)	(33·9)	(+0·6)	(36)	(282)	(2370)
1908.				°	°	°			
162·497	AS, M		0·949	255·9	93·8	−13·1			1440
			0·906	281·1	87·5	+10·3			310
			0·774	288·9	72·2	+15·0			181
			0·773	253·7	72·2	−12·0			152
		6451	0·985	253·1	102·3	−16·5	0	68	
G.		6454	0·682	283·7	65·2	+ 9·8	0	33	156*c*
		6454*a*	0·615	286·5	59·8	+10·6	12	64	
		6453*a*	0·767	77·6	333·8	+ 9·9	11	92	274*c*
			0·902	108·0	320·2	−15·9			166
			0·917	86·4	316·8	+ 3·6			255
June 11				(−11·5)	(23·1)	(+0·7)	(23)	(257)	(2934)
163·068	FS, CL		0·967	255·5	89·8	−13·8			757
			0·903	283·2	79·4	+12·3			469
			0·837	256·6	71·2	−10·7			197
		6454	0·789	281·6	66·9	+ 9·6	3	13	222*c*
		6454*a*	0·719	284·0	60·5	+10·6	10	44	
		6453*a*	0·679	75·7	333·7	+10·2	12	84	
D.			0·772	76·7	325·8	+10·7			116
			0·876	110·5	316·4	−17·4			118
			0·864	83·6	316·0	+ 5·9			135
			0·935	75·1	307·0	+14·2			190
			0·954	100·9	303·6	−10·2			97
			0·960	89·1	302·0	+ 1·1			140
June 12				(−11·2)	(15·5)	(+0·8)	(25)	(141)	(2541)
164·051	FS, M		0·928	257·8	69·8	−11·0			287
			0·787	248·1	51·9	−16·5			110
		6454	0·908	280·4	67·3	+ 9·9	0	5	265*c*
		6454*a*	0·851	281·4	60·2	+10·2	6	22	226*n*
		6453*a*	0·508	71·1	333·4	+10·3	16	92	
D.		6455	0·640	81·6	323·1	+ 6·0	3	7	
		6455	0·678	80·9	320·3	+ 6·9	0	3	
			0·888	74·5	300·8	+14·1			86
			0·939	95·2	293·0	− 4·6			155
June 13				(−10·8)	(2·5)	(+0·9)	(25)	(129)	(1129)
165·622	FS, CL		0·959	285·2	54·7	+14·9			273
			0·945	252·4	51·2	−16·2			265
		6453*a*	0·213	42·5	333·3	+10·1	10	89	
G.		6455	0·299	74·6	324·9	+ 5·6	4	15	
			0·824	55·6	291·3	+28·4			148
			0·826	110·6	288·3	−16·2			341
			0·927	83·7	274·0	+ 6·3			191
June 14				(−10·2)	(341·7)	(+1·1)	(14)	(104)	(1218)

Group 6453, June 9–20. Return of Group 6436. A regular spot, *a*.
Group 6454, June 10–13. A few very small spots developing into an irregular stream, of which, *a*, the last spot, is the largest and most stable member.
Group 6455, June 13–15. A few 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).
1908.				°	°	°			
166·388	FS, AS		0·805	253·3	23·6	−12·7			127
		6453*a*	0·158	349·5	333·3	+10·2	9	79	
		6455	0·137	57·7	325·0	+ 5·4	0	4	
G.			0·775	114·2	283·9	−17·7			172
			0·819	52·4	282·8	+30·7			179
			0·871	85·5	271·3	+ 4·5			201
			0·969	96·5	256·3	− 6·0			432
June 15				(−9·8)	(331·6)	(+1·2)	(9)	(83)	(1111)
167·171	FS, AS		0·901	254·7	24·1	−13·1			137
		6453*a*	0·260	308·1	333·2	+10·5	12	74	
		6456*a*	0·957	93·2	248·4	− 2·7	12	66	270*f*
		6457*a*	0·980	84·5	242·8	+ 5·7	11	48	} 249*c*
D.		6457	0·991	84·1	239·1	+ 6·0	0	49	
			0·793	87·1	268·9	+ 3·1			65
			0·918	66·6	256·2	+21·9			107
			0·912	98·4	256·0	− 7·1			598
June 16				(−9·5)	(321·2)	(+1·3)	(35)	(237)	(1426)
168·176	AS, M		0·912	256·2	12·6	−12·0			204
		6453*a*	0·447	291·1	332·9	+10·5	11	64	
		6456*a*	0·869	93·4	247·9	− 2·3	6	30	347*c*
K.		6457*a*	0·901	83·9	243·9	+ 6·2	15	85	} 251*c*
		6457	0·936	83·8	238·7	+ 6·3	9	33	
			0·812	100·1	254·4	− 7·4			612
			0·984	96·0	228·6	− 5·7			231
June 17				(−9·0)	(307·9)	(+1·4)	(41)	(212)	(1645)
169·625	AS, CL		0·840	285·1	345·1	+13·5			100
		6453*a*	0·705	283·6	332·8	+10·7	11	60	60*c*
		6458	0·463	294·5	314·3	+12·5	1	7	
		6458	0·426	295·9	311·8	+12·1	0	7	
		6459	0·218	205·8	294·3	− 9·7	4	23	
G.		6456*a*	0·649	94·9	248·7	− 2·0	4	19	136*c*
		6457*a*	0·692	83·6	245·3	+ 5·6	15	84	136*f*
			0·686	106·4	247·0	−10·0			158
			0·863	97·9	229·7	− 6·0			167
			0·922	111·5	223·9	−19·0			464
June 18				(−8·4)	(288·8)	(+1·6)	(35)	(200)	(1221)
170·679	FS, CL	6453*a*	0·852	281·7	332·8	+10·9	9	53	109*f*
		6458	0·658	287·5	314·7	+12·7	0	8	
G.		6459	0·420	242·8	297·0	− 9·5	0	9	
		6460	0·203	310·3	283·8	+ 9·2	1	11	
		6460	0·192	317·9	282·3	+ 9·9	6	24	
		6460	0·168	330·5	279·6	+10·0	3	7	
1908.				°	°	°			
170·679	FS, CL	6456	0·401	96·5	251·4	− 1·1	0	3	
		6456	0·430	100·2	249·8	− 2·8	0	2	
		6456*a*	0·447	97·7	248·6	− 1·9	0	5	
		6457*a*	0·503	81·6	244·9	+ 5·7	12	62	
G.		6457	0·564	83·5	240·7	+ 5·1	2	13	
		6457	0·579	80·3	239·9	+ 7·0	0	3	
		6457	0·605	85·7	237·7	+ 4·0	0	8	
			0·765	106·3	226·5	−11·3			281
			0·854	116·8	219·9	−21·6			624
June 19				(−8·0)	(274·8)	(−1·7)	(33)	(208)	(1014)
171·408	FS, AS		0·809	273·0	318·9	+ 3·5			113
		6453*a*	0·927	281·0	332·8	+10·9	6	26	196*c*
		6460	0·357	291·8	284·6	+ 9·3	3	17	
		6460	0·329	292·3	283·0	+ 8·9	0	13	
		6460	0·325	297·1	282·1	+10·2	6	41	
		6460	0·288	303·8	279·1	+10·9	0	11	
G.		6461	0·180	144·4	259·1	− 6·6	0	7	
		6456*	0·307	117·3	249·2	− 6·3	0	6	
		6457*a*	0·357	79·3	244·6	+ 5·5	9	43	
		6457	0·412	82·0	241·0	+ 5·0	0	11	
			0·709	118·3	224·2	−18·3			222
			0·880	117·1	207·2	−22·7			266
			0·935	104·4	197·1	−12·8			135
June 20				(−7·6)	(265·1)	(+1·8)	(24)	(175)	(932)
172·599	FS, CL		0·908	280·9	314·3	+10·7			243
			0·901	252·6	312·0	−14·8			215
			0·724	282·2	295·2	+10·1			175
			0·709	252·6	292·8	−10·9			171
		6460	0·536	286·9	280·7	+10·6	0	17	
		6456*	0·135	193·4	251·2	− 5·6	0	9	
G.		6457*a*	0·100	54·0	244·8	+ 5·2	5	22	
		6462	0·190	60·5	239·8	+ 7·3	0	7	
		6462	0·203	77·4	238·0	+ 4·4	0	4	
			0·783	119·0	202·4	−20·9			473
			0·889	101·8	187·7	− 9·6			288
			0·940	89·5	179·6	+ 1·1			105
			0·944	78·3	178·9	+11·7			253
June 21				(−7·1)	(249·4)	(+1·9)	(5)	(59)	(1923)
173·103	FS, M		0·957	253·0	314·3	−15·6			116
			0·870	280·8	302·8	+10·4			207
D.			0·815	258·5	296·3	− 8·2			216
		6457*a*	0·065	334·9	244·3	+ 5·4	3	13	
		6457	0·087	343·3	244·1	+ 6·8	0	3	
			0·716	121·8	202·3	−20·6			228

Group 6456, June 16–19. A small spot, *a*, with two very small companions on June 19.
Group 6457, June 16–23. A regular spot, *a*, usually followed by a short train.
Group 6458, June 18–19. Some very small spots.
Group 6459, June 18–19. Some very small spots.
Group 6460, June 19–21. Some small unstable spots in a straggling stream.
Group 6456*, June 20–21. A small spot, *s*, the place of Group 6456.
Group 6461, June 20. A very small spot.
Group 6462, June 21. Some very small spots. *f* Group 6457.

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).
1908.				°	°	°			
173·103	FS, M		0·887	124·1	186·0	−28·7			160
			0·902	93·1	178·6	− 2·0			158
D.			0·920	105·0	177·1	−13·0			252
			0·935	81·4	173·6	+ 8·8			270
June 22				(−6·9)	(242·7)	(+2·0)	(3)	(16)	(1607)
174·652	FS, CL		0·869	280·3	282·2	+10·0			103
		6461*	0·644	257·6	261·3	− 6·3	0	5	59*p*
		6457*a*	0·384	280·5	244·4	+ 6·0	0	4	
		6461†	0·389	241·7	242·4	− 8·6	0	12	
		6463	0·364	189·1	225·7	−18·9	8	39	
		6463	0·408	182·9	223·5	−21·9	2	8	
		6463	0·398	180·2	222·3	−21·2	0	4	
G.		6463*	0·701	61·6	181·0	+21·0	0	6	
		6464*a*	0·929	93·9	154·3	− 2·8	13	123	327*c*
			0·763	82·4	172·7	+ 7·2			60
			0·805	98·9	169·3	− 5·9			81
			0·877	107·1	162·7	−13·8			150
			0·881	86·7	160·6	+ 3·9			121
			0·934	113·9	155·9	−21·4			92
June 23				(−6·2)	(222·2)	(+2·1)	(23)	(201)	(993)
175·379	FS, AS		0·921	280·4	279·4	+10·4			223
			0·708	257·1	256·5	− 7·5			291
		6463	0·420	211·4	225·9	−18·8	13	102	
		6463	0·430	205·8	224·1	−20·5	4	24	
		6463	0·445	201·0	222·5	−22·3	3	15	
		6464	0·843	97·4	155·8	− 5·0	0	25	} 557*c*
G.		6464*a*	0·859	94·5	153·8	− 2·7	20	133	
		6465*a*	0·988	106·0	132·8	−15·4	61	342	213*p*
			0·623	119·4	178·4	−16·0			101
			0·682	78·5	170·1	+ 9·4			182
			0·786	86·9	160·9	+ 3·8			194
			0·841	112·3	158·2	−17·3			323
			0·918	43·9	153·1	+42·5			128
June 24				(−5·8)	(212·6)	(+2·2)	(101)	(641)	(2212)
176·144	FS, M		0·943	283·6	272·7	+13·6			186
			0·811	256·5	255·3	− 9·5			281
			0·698	268·6	246·5	+ 0·7			87
		6463	0·529	227·0	226·4	−19·0	17	129	
		6463	0·533	221·3	224·5	−21·4	0	5	
D.		6463	0·512	221·8	223·6	−20·3	0	9	
		6464*a*	0·757	95·1	153·6	− 2·4	31	130	283*s*
		6465*a*	0·956	106·6	131·0	−15·1	42	273	728*c*
			0·873	101·7	142·7	− 9·0			163
			0·914	92·1	136·6	− 1·0			335
June 25				(−5·5)	(202·4)	(+2·3)	(90)	(546)	(2063)
1908.				°	°	°			
177·335	FS, M		0·923	260·3	253·2	− 8·0			327
			0·881	296·1	246·5	+24·0			140
			0·895	240·9	245·8	−24·5			74
			0·811	276·4	240·7	+ 6·6			185
		6463	0·709	240·4	227·1	−18·6	11	121	}
		6463	0·691	235·4	224·1	−21·2	3	22	} 346*c*
		6463	0·666	236·4	222·7	−19·7	3	26	}
G.		6464	0·469	104·9	159·8	− 4·8	0	2	
		6464	0·527	103·6	155·9	− 5·0	0	4	
		6464*a*	0·549	98·9	153·9	− 2·9	14	109	
		6465*a*	0·845	110·0	131·4	−15·4	45	306	762*sf*
			0·788	92·7	135·0	− 0·7			195
			0·956	79·5	113·9	+10·7			183
			0·972	102·0	111·2	−11·1			354
June 26				(−5·0)	(186·7)	(+2·4)	(76)	(590)	(2566)
178·297	FS, M	6463	0·835	244·8	227·0	−19·2	39	146	} 530*c*
		6463	0·790	241·7	221·7	−20·2	0	13	
		6464*a*	0·360	104·9	153·7	− 2·9	18	115	
		6465*a*	0·722	113·9	131·1	−15·0	64	300	} 576*sf*
D.		6465	0·757	112·1	127·7	−14·7	0	3	
			0·756	91·1	125·1	+ 0·9			112
			0·927	103·9	107·4	−11·9			828
			0·921	76·7	107·2	+13·3			305
			0·937	88·6	104·6	+ 2·3			153
June 27				(−4·5)	(174·0)	(+2·6)	(121)	(577)	(2504)
179·172	FS, AS		0·763	238·4	206·5	−21·5			123
		6463	0·933	248·8	228·9	−18·7	0	19	}
		6463	0·918	248·9	226·5	−18·1	9	76	} 399*c*
		6463	0·899	246·9	223·4	−19·3	4	34	}
		6463*	0·889	242·9	221·1	−22·5	0	4	}
		6464*a*	0·176	123·6	154·0	− 2·9	15	84	
D.		6465*a*	0·584	121·5	131·4	−15·4	42	241	
		6465	0·619	117·6	128·0	−14·4	0	4	
		6466	0·957	77·6	89·3	+12·7	0	16	314*c*
			0·742	122·3	120·3	−21·3			186
			0·797	78·7	109·9	+10·7			132
			0·827	106·2	108·4	−11·7			323
			0·932	108·2	95·6	−15·9			560
June 28				(−4·1)	(162·4)	(+2·7)	(70)	(478)	(2037)
180·390	FS, M		0·851	241·8	200·1	−22·0			183
		6463	0·986	248·3	224·8	−20·9	0	127	377*c*
G.		6464*a*	0·171	235·3	154·4	− 2·8	12	94	
		6465*a*	0·399	141·1	131·3	−15·3	48	293	

Group 6461*, June 23. A very small spot, possibly a revival of Group 6461.
Group 6461†, June 23. A small spot, *f* Group 6461*.
Group 6463, June 23–29. Several unstable spots in a stream much inclined to the equator. The stream undergoes considerable change.
Group 6463*, June 23. Some very small faint spots.
Group 6464, June 23–July 4. Return of Group 6441. A large regular spot. *a*, sometimes preceded by several small spots.
Group 6465, June 24–July 6. A large regular spot, *a*, with occasionally a very small companion.
Group 6466, June 29–July 6. A few small spots in an irregular straggling 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).
1908.				°	°	°			
180·390	FS, M	6466	0·842	75·4	89·5	+13·8	0	13	429c
			0·804	112·1	95·7	−15·8			515
G.			0·903	99·8	82·7	− 7·6			210
			0·970	76·1	70·4	+14·1			196
June 29				(− 3·6)	(146·3)	(+ 2·8)	(60)	(527)	(1910)
181·393	FS, AS		0·932	244·3	198·3	−22·6			297
			0·856	254·7	190·2	−11·5			139
			0·753	241·1	177·1	−19·2			256
		6464	0·486	257·2	161·2	− 3·6	0	7	
		6464	0·404	255·3	155·9	− 3·2	0	18	
		6464	0·400	252·0	155·3	− 4·4	0	5	
		6464a	0·374	254·5	154·1	− 3·0	14	103	
		6464	0·356	250·4	152·6	− 4·2	0	9	
G.		6465a	0·313	173·5	130·9	−15·1	48	282	
		6466	0·686	72·6	90·7	+14·0	0	13	} 294c
		6466	0·711	71·7	88·8	+15·0	0	12	
		6466	0·735	73·1	86·7	+14·3	0	7	
			0·706	117·1	92·2	−16·5			308
			0·864	106·5	75·1	−12·6			347
			0·886	87·8	70·7	+ 3·3			168
			0·911	74·6	67·7	+15·2			466
June 30				(− 3·1)	(133·0)	(+ 2·9)	(62)	(456)	(2275)
182·358	FS, AS		0·933	238·6	184·2	−27·8			149
			0·877	253·9	179·7	−12·6			300
			0·791	264·4	172·0	− 2·6			157
			0·708	279·6	165·0	+ 8·9			141
			0·708	245·8	161·9	−14·6			180
		6464a	0·565	259·8	153·9	− 3·3	10	93	
		6465a	0·360	208·9	130·5	−15·3	44	294	
		6467	0·276	153·3	113·0	−11·3	0	3	
G.		6466	0·517	68·9	90·6	+13·3	0	12	
		6466	0·585	69·8	85·9	+14·1	0	19	
		6468	0·718	95·2	74·7	− 1·6	0	10	} 90c
		6468	0·752	96·8	72·0	− 3·1	0	7	
			0·742	109·7	74·7	−12·4			333
			0·843	73·3	63·5	+15·6			370
			0·920	111·4	56·0	−18·3			168
July 1				(− 2·7)	(120·2)	(+ 3·0)	(54)	(438)	(1888)
183·678	FS, M		0·920	256·2	168·2	−11·4			153
		6464a	0·786	263·3	153·9	− 3·3	12	89	359p
G.		6465a	0·547	234·9	130·3	−15·6	41	270	116c
		6466	0·295	50·3	89·2	+13·8	6	42	
		6466	0·357	54·8	85·2	+14·9	6	81	
		6468	0·450	101·5	76·6	− 2·4	5	27	

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).
1908.				°	°	°			
183·678	FS, M	6468	0·517	103·5	72·6	− 4·3	4	17	
		6468	0·517	100·8	72·3	− 2·9	4	15	
G.		6469	0·908	104·2	39·0	−11·5	0	7	101nf
July 2				(− 2·1)	(102·7)	(+ 3·1)	(78)	(548)	(729)
184·351	FS, CL		0·932	253·8	160·7	−13·8			165
		6464a	0·876	264·5	154·4	− 3·3	15	85	464c
		6465a	0·654	241·1	130·2	−15·8	45	282	103c
		6466	0·192	19·3	90·1	+13·6	4	33	
		6466	0·195	32·8	87·6	+12·6	0	4	
		6466	0·252	30·8	86·1	+15·6	0	39	
		6466	0·245	37·3	85·0	+14·4	9	41	
		6468	0·298	108·1	77·4	− 2·3	1	25	
G.		6468	0·378	109·6	73·0	− 4·3	3	13	
		6468	0·388	104·2	71·8	− 2·5	3	12	
		6469	0·833	106·9	39·4	−12·1	0	11	} 158c
		6469	0·859	104·1	36·1	−10·3	0	11	
			0·842	64·2	38·4	+23·3			190
			0·954	105·4	22·9	−13·7			219
			0·959	77·8	20·2	+12·6			284
July 3				(− 1·8)	(93·8)	(+ 3·2)	(80)	(556)	(1583)
185·088	FS, M		0·835	264·6	140·2	− 2·7			144
		6464a	0·946	266·2	154·7	− 2·5	9	66	233c
		6465a	0·761	246·2	130·2	−15·6	40	224	
		6465	0·706	250·8	126·7	−11·0	0	7	
		6466	0·217	330·9	90·3	+14·1	2	12	
		6466	0·251	357·8	84·7	+17·8	0	2	
		6466	0·211	357·1	84·7	+15·4	5	27	
		6468	0·151	131·4	77·6	− 2·4	3	14	
D.		6468	0·237	124·7	72·9	− 4·5	0	5	
		6468	0·247	114·2	71·1	− 2·6	0	4	
		6469	0·741	110·3	38·9	−12·6	3	9	} 79c
		6469	0·771	107·5	35·7	−11·2	0	8	
		6470	0·957	113·9	14·0	−21·7	0	19	429c
		6471a	0·972	81·0	7·5	+ 9·6	0	33	182f
			0·883	106·7	24·0	−13·1			85
			0·942	77·0	13·7	+13·4			319
July 4				(− 1·4)	(84·1)	(+ 3·3)	(62)	(430)	(1471)
186·082	FS, AS		0·964	253·4	143·7	−15·0			190
			0·912	266·6	136·3	− 1·7			676
			0·840	241·3	123·2	−21·7			523
D.		6465a	0·880	249·9	129·9	−15·9	43	244	141c
		6466	0·406	297·7	92·5	+14·0	2	7	
		6466	0·356	299·4	89·4	+13·3	0	7	
		6466	0·317	310·6	85·3	+15·1	3	41	

Group 6467, July 1. A very small spot.
Group 6468, July 1–5. A few small spots in an irregular straggling stream.
Group 6469, July 2–5. A few small spots.
Group 6470, July 4–11. Some small spots. The group is not seen on July 7, 8, and 10.
Group 6471, July 4–9. A small regular spot, *a*, that speedily 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).
1908.				°	°	°			
186·082	FS, AS	6468	0·156	235·0	78·2	− 1·7	0	9	
		6469	0·570	116·8	39·7	−12·0	0	8	
		6469	0·613	112·5	35·9	−10·7	0	4	
		6470	0·873	116·3	14·2	−20·9	0	19	676*f*
D.		6471*a*	0·895	81·0	7·4	+ 9·6	5	74	186*f*
		6472*a*	0·975	80·5	353·6	+10·0	23	131	286*c*
			0·809	106·5	18·8	−11·2			261
			0·860	74·6	12·0	+14·9			533
July 5				(− 1·0)	(70·9)	(+ 3·4)	(76)	(544)	(3472)
187·251	FS, CL		0·934	243·1	120·5	−23·5			284
			0·873	281·8	116·0	+12·0			210
			0·855	253·9	112·2	−11·8			460
			0·728	243·6	98·0	−16·3			374
D.		6465*a*	0·971	251·6	129·5	−16·9	40	197	125*f*
		6466	0·528	294·7	85·2	+15·7	0	14	
		6470	0·744	121·7	13·1	−20·4	2	14	453*f*
		6471*a*	0·744	79·7	7·6	+10·0	10	60	268*c*
		6472*a*	0·885	80·2	353·2	+10·3	15	90	261*f*
July 6				(− 0·5)	(55·4)	(+ 3·5)	(67)	(375)	(2435)
188·535	FS, M		0·912	278·6	104·2	+ 9·4			175
			0·864	249·8	95·4	−15·3			693
			0·751	286·9	86·3	+15·1			555
			0·657	261·8	78·8	− 2·5			112
		6473	0·328	73·3	19·9	+ 8·9	0	11	
		6473	0·345	69·0	19·4	+10·6	0	9	
G.		6473	0·373	67·2	17·9	+11·8	2	12	
		6473	0·413	63·2	16·2	+14·1	0	11	
		6471	0·503	76·3	8·8	+10·0	3	11	} 218*c*
		6471	0·574	75·9	4·0	+11·1	0	10	
		6472*a*	0·700	79·6	354·2	+ 9·9	10	84	299*f*
			0·838	97·7	342·2	− 4·4			188
			0·866	80·8	338·4	+ 9·8			216
July 7				(+ 0·1)	(38·4)	(+ 3·7)	(15)	(148)	(2456)
189·062	FS, M		0·942	278·1	102·0	+ 8·9			168
			0·919	251·8	96·0	−15·1			574
			0·840	285·0	88·3	+14·6			491
D.		6473	0·226	63·3	19·7	+ 9·5	2	5	
		6473	0·271	57·6	18·0	+11·9	0	8	
		6471	0·408	73·1	8·2	+10·2	0	8	
189·062	FS, M	6471	0·431	78·8	6·3	+ 8·1	0	4	
		6471	0·480	74·0	3·6	+10·9	0	7	
D.		6472*a*	0·619	79·0	353·6	+ 9·7	9	65	
			0·894	78·1	328·2	+12·3			215
July 8				(+ 0·4)	(31·5)	(+ 3·7)	(11)	(97)	(1448)
190·352	FS, CL		0·955	283·8	87·3	+14·3			442
			0·890	263·0	76·6	− 4·4			217
			0·897	249·4	75·3	−16·5			325
			0·768	282·8	64·3	+12·3			141
			0·714	235·8	53·4	−20·6			112
		6473	0·150	306·7	21·4	+ 9·0	1	3	
		6473	0·122	317·8	19·1	+ 9·1	0	17	
G.		6473	0·148	333·7	18·2	+11·5	0	2	
		6473	0·192	342·1	17·9	+14·4	0	9	
		6470	0·416	179·2	14·0	−20·6	0	3	
		6475	0·451	159·1	4·5	−21·0	0	7	
		6471	0·181	48·6	6·5	+10·7	0	5	
		6472*a*	0·351	71·0	354·8	+10·3	10	62	
			0·803	80·7	321·1	+ 9·8			222
			0·926	81·5	306·6	+ 9·3			317
July 9				(+ 1·0)	(14·4)	(+ 3·9)	(11)	(108)	(1776)
191·389	FS, M		0·963	268·4	74·7	− 0·5			239
			0·897	281·9	64·5	+12·4			212
			0·913	249·7	63·8	−16·6			209
D.		6475	0·435	188·3	4·6	−21·4	0	9	
		6472*a*	0·151	40·8	355·0	+10·6	6	37	
		6472	0·170	45·0	353·7	+10·9	0	3	
			0·919	77·0	293·8	+13·6			108
July 10				(+ 1·4)	(0·7)	(+ 4·0)	(6)	(49)	(768)
192·409	FS, AS		0·944	287·5	58·0	+17·9			253
			0·929	246·7	52·1	−19·8			242
			0·846	266·6	44·6	− 0·7			147
			0·793	252·1	37·4	−11·4			167
		6470	0·590	222·2	12·4	−22·1	0	5	
		6475	0·512	212·5	4·3	−21·5	1	10	
G.		6472	0·184	303·1	356·2	+ 9·8	0	4	
		6472*a*	0·170	312·7	354·5	+10·6	3	20	
		6472	0·141	321·5	352·3	+10·4	0	4	
			0·740	91·4	299·6	+ 1·7			152
			0·838	66·1	291·6	+22·2			138
			0·878	105·9	288·8	−11·9			176
			0·872	80·1	286·5	+10·6			148
July 11				(+ 1·9)	(347·2)	(+ 4·1)	(4)	(43)	(1423)

Group 6472, July 5–14. A regular spot, *a*, with occasionally some small companions.
Group 6473, July 7–9. A few small spots in an irregular stream, much inclined to the equator.
Group 6475, July 9–11. 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).
1908.				°	°	°			
193·494	CL, M		0·912	254·8	36·7	−12·0			62
		6472	0·406	289·6	355·7	+11·7	0	2	
D.		6472*a*	0·387	286·4	354·9	+10·2	1	4	
			0·936	101·2	264·7	− 8·9			224
July 12				(+2·4)	(332·8)	(+4·2)	(1)	(6)	(286)
194·060	AS, M		0·902	256·4	28·1	−10·3			132
			0·838	278·3	22·2	+ 9·2			83
			0·815	241·0	14·7	−20·5			265
			0·729	291·2	10·8	+18·2			116
			0·658	283·8	6·0	+12·2			204
			0·714	231·9	2·7	−22·8			178
D.		6476	0·815	285·5	19·5	+15·1	0	5	176*c*
		6472	0·522	286·4	356·0	+12·1	0	3	
		6472*a*	0·502	283·5	354·9	+10·3	0	4	
		6477	0·234	329·6	332·3	+15·7	1	5	
		6477	0·207	326·7	332·0	+14·1	1	4	
			0·891	104·8	264·1	−11·1			331
July 13				(+2·6)	(325·3)	(+4·2)	(2)	(21)	(1485)
195·114	FS, M		0·887	243·9	9·6	−20·7			455
			0·832	284·2	7·5	+14·2			296
		6473	0·943	283·4	22·2	+14·1	0	12	332*c*
		6472	0·706	282·6	356·0	+11·9	0	4	
D.		6478	0·985	110·5	233·7	−19·3	16	103	410*c*
		6478	0·986	112·0	233·6	−20·8	0	40	
			0·834	107·5	257·2	−12·0			174
			0·900	81·2	247·1	+ 9·8			143
July 14				(+3·1)	(311·4)	(+4·3)	(16)	(159)	(1810)
196·197	FS, CL		0·953	245·9	5·9	−21·3			744
			0·895	282·4	0·7	+13·1			676
		6480*a*	0·481	227·7	318·6	−14·7	13	79	
		6480	0·460	223·2	316·1	−15·4	3	50	
D.		6480	0·442	224·9	315·8	−14·0	2	23	
		6478	0·902	113·7	236·3	−19·2	0	26	
		6478	0·924	114·5	233·4	−20·6	16	89	
		6478	0·938	112·6	230·7	−19·4	10	68	
		6481	0·963	114·1	226·1	−21·8	17	223	1272*c*
July 15				(+3·6)	(297·1)	(+4·4)	(61)	(558)	(2692)
197·189	FS, AS		0·984	248·4	1·0	−20·3			328
D.			0·945	281·4	355·1	+12·3			259
			0·796	276·8	336·7	+ 8·2			94
197·189	FS, AS	6480*a*	0·651	239·9	319·5	−15·3	25	140	
		6480	0·634	241·2	318·7	−14·0	0	3	
		6480	0·610	241·2	317·1	−13·3	0	12	
		6480	0·612	237·4	316·1	−15·4	0	6	
		6480	0·588	238·4	314·8	−14·0	7	63	
		6478	0·805	117·8	235·2	−19·0	0	22	
D.		6478	0·819	118·8	234·2	−20·3	13	52	
		6478	0·847	116·9	230·7	−19·8	17	122	
		6481	0·875	119·0	228·1	−22·6	0	11	1404*c*
		6481	0·872	116·4	227·7	−20·3	0	9	
		6481	0·890	116·9	225·6	−21·4	7	57	
		6481	0·904	115·8	223·5	−20·9	0	43	
July 16				(+4·0)	(283·9)	(+4·5)	(69)	(540)	(2085)
198·338	AS, CL		0·938	280·4	338·7	+11·4			179
		6480*a*	0·819	247·4	320·2	−15·5	18	89	191*c*
		6480	0·761	248·0	315·0	−13·4	0	47	
		6482	0·349	112·0	249·9	− 3·2	0	14	
		6482	0·379	112·4	248·2	− 4·0	0	8	
		6482	0·392	108·9	247·0	− 3·0	1	8	
		6478	0·651	127·4	235·6	−19·4	0	13	
		6478	0·665	128·4	235·0	−20·5	8	35	
		6478	0·680	127·2	233·5	−20·4	13	33	
		6478	0·692	125·7	232·1	−20·1	0	8	869*c*
		6478	0·703	123·9	230·6	−19·5	2	10	
D.		6481	0·760	124·2	226·2	−21·9	10	44	
		6481	0·796	124·1	223·0	−23·3	4	11	
		6483	0·673	113·5	229·7	−12·0	2	6	
		6483	0·698	114·0	228·0	−13·0	0	2	223*c*
		6483*a*	0·729	113·0	225·3	−13·2	0	7	
		6484	0·935	103·7	201·2	−11·0	0	6	433*c*
		6484	0·952	106·3	198·6	−14·0	9	22	
		6485*a*	0·985	97·0	189·4	− 6·1	13	52	309*c*
			0·846	126·3	218·9	−27·1			320
			0·910	129·5	212·2	−32·8			116
			0·935	116·6	203·8	−22·8			398
July 17				(+4·5)	(268·7)	(+4·6)	(80)	(415)	(3038)
199·074	CL, AS	6480*a*	0·898	250·5	320·2	−15·2	5	31	219*c*
		6480	0·859	252·5	315·8	−12·4	0	2	
		6480	0·849	250·8	314·4	−13·6	0	9	
D.		6482	0·182	131·1	251·1	− 2·2	8	14	
		6482	0·191	133·1	251·0	− 2·8	0	7	
		6482	0·230	128·0	248·6	− 3·5	2	11	

Group 6476, July 13. Two very small spots; probably a revival of part of Group 6473.

Group 6477, July 13. A few very small spots.

Group 6478, July 14–23. An irregular stream, which soon condenses to form a regular spot, *a*, followed by a short train of small spots.

Group 6480, July 15–19. A fine irregular cluster, appearing suddenly some distance west of the central meridian, and diminishing again as quickly as it grew. The leader, *a*, is a large double spot on July 16.

Group 6481, July 15–25. Return of Group 6463. An irregular stream, closely following Group 6478.

Group 6482, July 17–25. A fine irregular cluster, forming suddenly near the central meridian. The changes in the group are great and rapid.

Group 6483, July 17–18. A small spot, *a*, preceded on July 17 by two other small spots.

Group 6484, July 17–21. Some small scattered unstable spots.

Group 6485, July 17–19. A diminishing 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).
1908.				°	°	°			
199·074	CL, AS	6482	0·238	119·4	247·1	− 2·1	7	18	
		6486	0·285	52·1	245·6	+14·7	1	4	
		6478*a*	0·570	137·3	234·7	−20·4	11	57	
		6478	0·594	132·5	231·4	−19·4	1	8	
		6481	0·657	130·5	226·7	−21·2	12	45	605*c*
		6481	0·671	131·5	226·2	−22·4	5	22	
		6481	0·666	129·0	225·5	−20·8	0	3	
D.		6481	0·711	129·9	222·7	−23·3	3	12	
		6483*a*	0·624	118·6	224·8	−13·5	0	11	98*c*
		6484	0·862	105·8	201·5	−11·0	0	9	
		6484	0·867	108·2	201·4	−13·2	0	2	344*c*
		6484	0·890	108·6	198·8	−14·1	5	14	
		6485*a*	0·940	98·0	189·9	− 5·9	7	33	281*f*
			0·772	91·7	208·7	+ 1·7			267
			0·874	119·0	203·4	−22·4			386
July 18				(+4·9)	(259·0)	(+4·7)	(67)	(312)	(2200)
200·263	FS, AS		0·885	277·5	305·6	+ 8·9			220
			0·836	266·4	299·5	− 0·4			207
			0·739	242·3	286·1	−16·5			235
		6480*a*	0·979	253·8	319·5	−14·8	0	33	390*f*
		6482	0·205	235·9	252·9	− 1·9	4	14	
		6482	0·184	233·2	251·6	− 1·6	0	2	
		6482	0·184	213·1	249·0	− 4·1	0	8	
		6482	0·141	214·2	247·7	− 1·9	4	13	
		6486	0·176	339·9	246·8	+14·3	0	2	
		6486	0·174	344·1	246·0	+14·4	0	9	
		6486	0·176	351·2	244·8	+14·8	0	8	
		6486	0·147	356·5	243·7	+13·3	0	15	
		6486	0·179	1·7	242·9	+15·1	0	19	
		6478	0·427	168·5	238·0	−19·8	0	3	
		6478*a*	0·448	163·9	235·6	−20·6	17	65	
D.		6478	0·462	153·0	230·4	−19·6	0	4	
		6481	0·471	145·9	227·1	−18·3	0	4	
		6481	0·488	145·3	226·2	−19·0	0	10	
		6481	0·524	147·6	225·7	−21·6	1	13	
		6481	0·522	143·2	223·8	−20·1	0	27	
		6484	0·690	111·5	202·5	−11·0	0	3	272*c*
		6484	0·744	114·6	199·0	−14·6	0	5	
		6485*a*	0·819	100·7	189·4	− 5·9	0	6	
			0·660	138·7	214·5	−25·4			312
			0·760	125·1	201·1	−22·3			191
			0·860	98·6	184·8	− 4·9			422
			0·911	109·9	180·4	−15·9			248
			0·937	75·1	173·3	+15·7			194
			0·961	92·0	169·6	− 0·5			457
July 19				(+5·4)	(243·2)	(+4·8)	(26)	(263)	(3148)
1908.									
201·257	FS, CL		0·891	246·8	289·4	−18·1			225
			0·851	266·9	288·1	− 0·1			140
		6482	0·409	253·9	253·2	− 2·0	8	31	
		6482	0·381	249·2	250·9	− 3·2	0	28	
		6482	0·360	257·1	250·6	0·0	0	9	
		6482	0·367	244·4	249·4	− 4·4	0	10	
		6482	0·338	251·6	248·7	− 1·5	8	30	
		6482	0·327	239·4	246·4	− 4·8	0	14	
		6486	0·338	299·4	247·7	+14·2	0	13	
		6486	0·316	299·6	246·5	+13·7	6	50	
		6486	0·292	303·6	244·5	+14·0	0	20	
		6486	0·284	307·9	243·4	+14·8	18	82	
		6478*a*	0·441	193·1	236·2	−20·5	14	52	
		6478	0·406	187·9	233·5	−18·7	0	23	
D.		6478	0·424	181·7	230·9	−20·1	0	13	
		6481	0·403	172·8	227·1	−18·6	0	7	
		6481	0·440	170·2	225·5	−20·7	0	18	
		6481	0·440	166·3	223·7	−20·3	0	15	
		6484	0·548	122·5	201·9	−12·7	3	19	
		6484	0·591	125·9	200·3	−16·0	0	5	139*c*
		6484	0·587	121·9	199·4	−13·8	0	5	
			0·719	102·4	185·4	− 5·4			599
			0·772	115·5	183·8	−16·0			178
			0·880	124·5	175·8	−27·0			263
			0·838	77·1	173·2	+13·5			510
			0·908	108·3	167·5	−14·3			420
			0·900	92·9	166·3	− 0·4			949
July 20				(+5·8)	(230·1)	(+4·9)	(57)	(444)	(3423)
202·097	AS, CL		0·757	252·3	265·9	− 9·9			242
		6482	0·572	258·6	253·0	− 2·3	3	10	
		6482	0·537	257·0	250·5	− 2·7	7	57	
		6482	0·540	252·2	250·0	− 5·2	0	4	
		6482	0·507	259·7	248·8	− 0·9	15	73	
		6482	0·509	256·8	248·6	− 2·3	0	14	
		6482	0·475	257·7	246·5	− 1·3	1	5	
		6486	0·517	288·9	249·1	+14·0	0	3	
		6486	0·491	288·8	247·4	+13·5	10	53	
		6486	0·466	293·3	245·2	+15·1	0	9	
D.		6486	0·468	297·9	244·5	+17·1	0	6	
		6486	0·444	295·2	243·5	+15·4	12	66	
		6486	0·429	289·8	243·3	+12·9	0	4	
		6486	0·423	291·7	242·7	+13·6	2	13	
		6478*a*	0·514	213·1	236·4	−20·6	12	64	
		6478	0·471	213·4	234·8	−18·3	0	5	
		6478	0·491	210·1	234·2	−20·2	0	17	
		6478	0·463	210·6	233·3	−18·6	1	6	
		6478	0·452	206·6	231·3	−18·9	0	3	
		6478	0·457	203·4	230·1	−19·8	0	7	

Group 6486, July 18–25. A small spot forming near the central meridian, and developing into a fine irregular cluster, which draws out into a stream, of which, *a*, the last spot, is the largest and most stable member.

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).
1908.									
202·097	AS, CL	6481	0·427	195·6	226·0	−19·2	0	3	
		6481	0·441	194·2	225·6	−20·3	0	4	
		6481	0·432	191·7	224·3	−20·0	0	18	
		6481	0·443	185·3	221·5	−21·1	0	4	
		6484	0·407	137·5	202·7	−12·6	0	4	
D.		6484	0·455	139·9	201·4	−15·5	0	6	
		6484	0·451	131·7	198·9	−12·7	0	8	
			0·820	80·3	163·8	+10·8			178
			0·842	93·7	162·1	− 0·4			609
			0·959	112·6	148·8	−20·0			277
			0·968	97·6	144·4	− 6·0			579
July 21				(+6·2)	(219·0)	(+5·0)	(63)	(466)	(1885)
203·333	CL, M		0·872	248·4	259·9	−16·0			126
			0·815	277·3	257·3	+ 8·9			74
		6482	0·749	260·1	250·1	− 4·0	9	29	380c
		6482	0·736	263·9	249·5	− 1·1	35	274	
		6486	0·719	285·0	248·2	+14·3	16	88	
		6486	0·689	286·7	245·6	+15·2	1	12	335c
		6486	0·667	288·2	243·6	+15·9	17	124	
		6478a	0·673	232·4	237·0	−20·0	9	45	
		6478	0·641	235·1	235·9	−17·2	0	3	
G.		6478	0·612	229·6	232·0	−18·9	0	2	
		6481	0·562	222·7	226·4	−19·7	3	7	
		6485	0·324	128·0	187·8	− 6·6	0	8	
		6485	0·334	120·4	185·9	− 4·8	0	13	
		6487a	0·694	80·4	158·7	+10·3	6	44	139c
		6488	0·745	78·5	154·5	+12·0	4	19	
		6489a	0·972	110·2	128·9	−18·3	23	150	142p
			0·693	102·2	159·9	− 4·7			164
			0·839	68·9	146·2	+20·4			144
			0·881	116·0	145·4	−20·0			165
			0·885	98·9	141·4	− 5·4			324
July 22				(+6·7)	(202·6)	(+5·1)	(123)	(818)	(1993)
204·220	FS, CL		0·979	263·9	268·4	− 4·9			328
			0·926	252·0	256·1	−14·4			179
		6482	0·883	265·3	252·4	− 1·7	14	52	
		6482	0·866	265·3	250·4	− 1·5	0	7	
		6482	0·863	263·8	249·9	− 2·7	1	7	
		6482	0·856	261·6	248·8	− 4·4	0	4	390c
D.		6482	0·847	265·9	248·3	− 0·7	13	85	
		6482	0·837	263·5	247·0	− 2·5	14	57	
		6482	0·832	265·2	246·7	− 1·1	4	15	
		6486	0·850	282·8	249·2	+13·6	13	73	
		6486	0·832	284·6	247·1	+15·0	0	14	
		6486	0·804	286·4	244·1	+16·2	0	17	378c
		6486a	0·794	284·8	243·3	+14·9	25	144	
204·220	FS, CL	6478	0·794	241·3	238·1	−18·9	0	4	
		6478a	0·784	238·7	236·3	−20·3	10	33	
		6478	0·758	239·0	234·2	−19·2	0	11	693c
		6478	0·767	234·4	233·3	−22·7	0	4	
		6481	0·670	232·2	225·1	−20·0	2	11	
		6487a	0·511	79·0	160·4	+10·1	8	21	
		6487	0·552	78·3	157·6	+10·8	0	2	
D.		6488	0·565	75·7	157·0	+12·3	0	2	
		6488	0·600	76·3	154·4	+12·4	4	9	
		6489a	0·916	112·2	128·1	−17·9	24	146	373c
			0·763	104·5	142·9	− 7·5			289
			0·820	93·0	136·1	+ 0·5			208
			0·962	103·5	118·5	−11·4			431
			0·952	75·9	118·2	+15·0			202
July 23				(+7·1)	(190·9)	(+5·2)	(132)	(718)	(3471)
205·093	FS, AS		0·846	254·6	235·0	−10·0			107
			0·765	224·0	216·7	−29·2			114
		6482	0·956	266·7	251·8	− 1·6	8	57	
		6482	0·942	266·1	249·2	− 1·9	0	27	
		6482	0·927	267·3	246·9	− 0·5	15	90	356c
		6482	0·925	264·9	246·4	− 2·7	13	38	
		6486	0·927	282·6	247·6	+13·6	12	51	
		6486	0·896	285·6	243·1	+16·3	11	41	
		6486	0·914	281·3	242·8	+12·4	4	22	571c
		6486a	0·893	283·5	242·8	+14·4	18	141	
		6478a	0·876	243·3	235·6	−20·3	7	18	855c
D.		6481	0·787	238·9	225·1	−20·4	4	11	537c
		6487a	0·327	74·9	160·7	+ 9·8	5	14	
		6488	0·395	68·0	157·3	+13·3	0	6	
		6488	0·413	69·6	156·0	+13·1	0	3	
		6488	0·432	71·2	154·6	+12·7	1	8	
		6489a	0·832	115·6	127·5	−17·8	24	135	117c
			0·787	127·2	135·8	−24·7			115
			0·920	121·1	118·3	−25·9			431
			0·894	106·8	118·3	−12·5			277
			0·920	98·5	113·4	− 5·7			179
			0·922	77·1	111·8	+13·9			232
July 24				(+7·5)	(179·3)	(+5·2)	(122)	(662)	(3891)
206·138	CL, AS		0·894	259·5	227·6	− 6·9			113
			0·864	233·7	217·1	−27·5			135
		6482	0·991	269·1	247·5	− 0·1	15	58	324p
D.		6486a	0·973	283·4	242·9	+14·3	15	58	732c
		6478	0·959	247·2	235·6	−20·1	4	15	1012c
		6481	0·900	244·2	225·1	−20·4	0	9	
		6487	0·104	45·9	161·2	+ 9·5	5	14	
		6487	0·145	55·2	158·6	+10·0	0	2	

Group 6487, July 22–26. A small spot, *a*, with occasionally some very small companions.
Group 6488, July 22–[illegible] A small spot, *a*, sometimes preceded by one or two small companions.
Group 6489, July 22–August 2. Return of Group 6465. A large regular spot, *a*.

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).
1908.				°	°	°			
206·138	CL, AS	6487	0·168	49·9	158·0	+11·4	0	5	
		6487	0·175	40·8	158·8	+12·8	0	4	
		6489*a*	0·701	122·4	127·2	−17·9	25	132	87*c*
			0·775	110·9	117·8	−12·4			403
D.			0·837	126·1	116·8	−26·1			424
			0·787	100·1	114·7	− 4·6			110
			0·923	78·8	97·8	+12·4			496
			0·948	110·0	97·0	−17·0			547
			0·972	95·1	89·7	− 3·7			143
July 25				(+7·9)	(165·5)	(+5·3)	(64)	(297)	(4526)
207·526	AS, M		0·965	245·8	218·2	−21·6			274
		6487	0·266	289·0	161·9	+10·2	2	8	
		6489*a*	0·507	140·9	127·6	−18·0	21	131	
			0·830	120·7	97·3	−21·6			462
G.			0·803	78·4	93·7	+12·5			254
			0·886	97·8	85·7	− 4·3			121
			0·906	106·1	84·5	−12·1			79
			0·959	110·7	76·7	−18·1			156
			0·955	78·7	73·9	+12·4			150
July 26				(+8·5)	(147·2)	(+5·4)	(23)	(139)	(1496)
208·633	AS, CL		0·765	260·2	181·4	− 3·9			149
			0·664	270·3	174·1	+ 4·3			159
		6489*a*	0·403	168·0	127·5	−17·7	18	137	
			0·730	127·2	93·8	−21·9			231
G.			0·709	73·0	87·9	+15·9			207
			0·813	97·2	78·9	− 2·6			212
			0·885	117·6	75·4	−21·2			336
			0·895	79·9	68·7	+11·5			364
July 27				(+9·0)	(132·5)	(+5·5)	(18)	(137)	(1658)
209·668	CL, AS	6485*	0·739	258·3	165·3	− 4·8	0	3	
		6485*	0·721	256·8	163·6	− 5·5	0	7	
		6489*a*	0·413	199·5	127·2	−17·3	23	136	
G.			0·797	120·0	71·9	−19·7			121
			0·810	100·7	66·0	− 5·2			115
			0·838	75·0	62·0	+15·6			185
July 28				(+9·4)	(118·9)	(+5·6)	(23)	(146)	(421)
210·275	FS, AS		0·947	251·9	179·4	−15·1			193
			0·903	285·4	175·6	+16·3			119
			0·906	262·8	174·9	− 4·1			334
D.			0·824	278·5	166·5	+10·2			280
			0·822	268·6	165·9	+ 2·1			338
		6489*a*	0·467	214·9	127·0	−17·1	21	121	
1908.				°	°	°			
210·275	FS, AS	6490	0·995	105·3	28·4	−14·6	0	131	
			0·878	66·6	49·8	+23·2			236
D.			0·917	111·1	47·7	−16·8			226
			0·898	80·6	46·6	+10·9			180
July 29				(+9·5)	(110·8)	(+5·6)	(21)	(252)	(1906)
211·341	AS, M		0·931	271·3	165·2	+ 3·3			334
			0·886	281·5	159·4	+12·8			156
		6489*a*	0·609	233·3	127·2	−16·4	16	123	
G.		6490	0·941	108·1	29·1	−14·9	15	150	293*f*
			0·936	83·1	27·0	+ 8·5			283
July 30				(+10·1)	(96·7)	(+5·7)	(31)	(273)	(1066)
212·687	FS, M		0·907	260·7	142·8	− 5·9			241
			0·727	228·9	115·5	−23·8			79
		6489*a*	0·788	243·8	126·2	−16·4	19	116	202*c*
		6490*a*	0·803	111·5	28·9	−13·4	20	143	
		6490	0·869	114·8	23·0	−18·2	0	6	407*c*
G.		6490	0·871	109·7	21·4	−14·0	0	11	
		6490	0·878	111·7	21·1	−15·9	0	4	
		6491	0·976	79·4	0·8	+11·6	76	634	550*c*
			0·805	82·9	25·1	+ 9·2			111
			0·951	112·8	10·6	−19·5			154
July 31				(+10·6)	(78·9)	(+5·8)	(115)	(914)	(1774)
213·375	FS, M		0·944	262·6	139·6	− 5·0			271
			0·789	281·8	122·0	+12·9			146
			0·833	232·9	117·4	−26·2			163
		6489*a*	0·868	247·0	126·1	−16·6	17	94	273*f*
		6490*a*	0·706	115·2	29·0	−13·0	16	116	
		6490	0·740	116·7	26·7	−15·1	12	50	
		6490	0·773	115·7	23·7	−15·4	2	25	256*c*
G.		6490	0·789	117·9	22·9	−17·7	0	14	
		6490	0·789	112·9	21·5	−14·0	0	7	
		6491*a*	0·932	79·9	0·5	+11·6	63	638	572*c*
			0·707	80·6	24·7	+10·9			111
			0·863	73·4	10·0	+17·3			107
			0·920	115·4	7·4	−20·6			221
Aug. 1				(+10·9)	(69·8)	(+5·9)	(110)	(944)	(2120)
214·401	FS, M		0·913	266·4	121·6	− 0·9			234
			0·880	282·8	118·2	+14·1			151
G.			0·898	236·3	112·8	−26·7			286
			0·721	234·4	94·7	−20·2			264
		6489*a*	0·952	250·6	125·4	−16·4	16	89	420*f*

Group 6485*, July 28. Two very small spots *f* the place of Group 6485.

Group 6490. July 29–August 10. A magnificent stream, of closely compacted spots, showing much detail. Three very large composite spots, *a*, *b*, and *c*, are the chief members of the group, on August 3 and 4, and a smaller spot, *d*, lies *s* of *c*. The group undergoes rapid change, and *a* and *b* have coalesced by August 7 to form a very large spot, *e*; whilst *e* and *c* have similarly combined to form *f* by August 9. Easily visible to the naked eye.

Group 6491. July 31–August 13. Revival rather than return of Group 6472. A very large oval spot, *a*, crossed by bright bridges, with sometimes one or two very small companions. *a* has divided into two portions, *b* and *c*, by August 11. Visible to the naked eye.

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).
1908.				°	°	°			
214·401	FS, M	6490*a*	0·556	124·8	28·4	−13·2	38	236	393*c*
		6490	0·623	125·4	24·4	−16·1	43	305	
		6490	0·682	126·7	20·9	−19·2	18	69	
		6492*a*	0·531	85·0	24·1	+ 7·7	7	31	
G.		6492*bc*	0·567	84·0	21·6	+ 8·3	7	32	
		6491*a*	0·829	80·3	0·0	+11·4	83	649	530*c*
			0·829	122·8	7·3	−22·8			171
			0·875	112·2	358·9	−16·2			112
Aug. 2				(+11·3)	(56·2)	(+5·9)	(212)	(1411)	(2561)
215·426	FS, M		0·954	237·5	108·8	−28·5			218
			0·894	257·5	104·4	− 8·4			194
			0·816	281·0	97·6	+12·4			321
			0·831	241·0	93·2	−20·0			389
		6490*a*	0·394	144·7	29·3	−12·8	33	258	
		6490*b*	0·446	144·6	27·2	−15·4	81	429	
G.		6490*c*	0·492	138·8	23·1	−16·0	65	428	
		6490	0·531	139·3	21·4	−18·1	0	53	
		6490*d*	0·558	139·8	20·3	−19·6	17	84	
		6492*a*	0·301	82·4	25·2	+ 8·0	13	45	
		6492*bc*	0·355	81·7	22·0	+ 8·6	19	152	
		6491*a*	0·672	79·7	0·5	+11·4	105	597	344*c*
			0·778	116·7	356·5	−16·3			95
Aug. 3				(+11·7)	(42·7)	(+6·0)	(333)	(2046)	(1561)
216·476	FS, CL		0·926	258·5	95·0	− 8·2			238
			0·929	243·0	92·1	−22·3			409
			0·876	283·8	90·3	+15·0			328
			0·788	235·6	73·2	−22·0			184
		6493	0·291	200·6	34·7	− 9·7	0	3	
		6493	0·303	196·8	33·9	−10·7	2	5	
		6490*a*	0·326	180·1	28·9	−12·8	36	211	
		6490	0·331	175·1	27·1	−13·1	0	8	
		6490	0·318	173·9	26·8	−12·3	5	38	
		6490*b*	0·368	174·3	26·6	−15·3	84	464	
		6490	0·333	171·1	25·8	−13·1	1	12	
D.		6490	0·399	169·4	24·4	−16·9	3	29	
		6490	0·417	164·9	22·3	−17·6	6	36	
		6490	0·433	165·3	22·2	−18·6	9	30	
		6490*c*	0·391	162·3	21·7	−15·7	68	410	
		6490	0·429	160·2	20·1	−17·7	0	3	
		6490*d*	0·443	161·0	20·1	−18·7	3	60	
		6490	0·386	157·2	19·9	−14·7	1	14	
		6490	0·454	161·0	19·8	−19·3	5	56	
		6490	0·457	159·6	19·1	−19·2	1	4	
		6490	0·461	157·7	18·2	−19·2	8	42	
		6490	0·438	156·3	18·2	−17·5	0	4	
		6492*a*	0·059	51·5	26·1	+ 8·2	17	79	
1908.				°	°	°			
216·476	FS, CL	6492	0·054	76·8	25·8	+ 6·8	3	10	
		6492	0·099	53·6	24·2	+ 9·5	0	4	
		6492*b*	0·124	63·1	22·4	+ 9·3	15	93	
		6492*c*	0·121	75·7	22·0	+ 7·8	19	92	
		6491*a*	0·480	75·6	0·5	+12·2	168	599	
		6491	0·475	84·7	0·4	+ 7·9	0	3	
		6491	0·500	82·2	358·8	+ 9·2	0	8	
		6491	0·532	75·0	357·1	+13·1	0	7	
D.		6491	0·540	78·1	356·3	+11·6	0	5	
		6494	0·709	106·5	345·7	− 7·2	7	18	91*c*
		6494	0·726	107·2	344·5	− 8·1	0	2	
		6494	0·743	105·6	342·8	− 7·3	8	19	
			0·793	68·3	336·9	+20·9			195
			0·834	80·2	332·0	+11·6			103
			0·940	107·6	321·5	−14·2			230
Aug. 4				(+12·1)	(28·8)	(+6·1)	(469)	(2368)	(1778)
217·435	AS, CL		0·960	282·7	90·6	+13·9			219
			0·972	246·2	88·7	−21·4			356
			0·904	267·3	80·4	+ 0·3			172
			0·870	242·7	71·3	−20·1			160
			0·818	280·5	71·2	+12·1			187
		6493	0·434	231·2	36·1	−10·0	3	14	
		6493	0·410	225·7	33·4	−10·7	0	4	
		6493	0·353	219·1	29·1	− 9·9	0	2	
		6490*a*	0·391	213·3	28·8	−13·1	45	294	
		6490	0·358	215·0	28·1	−11·0	0	4	
		6490	0·367	207·4	26·0	−13·0	0	4	
		6490	0·370	201·9	24·2	−14·0	0	7	
		6490*bc*	0·400	199·4	24·0	−16·1	99	859	
		6490*d*	0·433	189·1	20·2	−19·1	34	170	
		6490	0·409	186·2	18·7	−17·8	0	14	
		6492	0·201	282·9	27·5	+ 8·5	0	12	
D.		6492	0·197	263·6	27·4	+ 4·7	0	6	
		6492*a*	0·188	277·0	26·9	+ 7·3	28	177	
		6492	0·159	279·9	25·2	+ 7·6	0	9	
		6492	0·155	290·3	24·5	+ 9·1	2	13	
		6492	0·121	280·6	23·0	+ 7·3	0	7	
		6492*b*	0·120	295·5	22·4	+ 9·0	14	99	
		6492*c*	0·096	282·2	21·5	+ 7·3	11	79	
		6491	0·221	71·9	3·8	+ 9·9	0	2	
		6491	0·240	77·3	2·5	+ 8·9	0	13	
		6491*a*	0·287	69·0	0·3	+11·8	113	643	
		6491	0·294	83·1	359·0	+ 7·9	0	4	
		6491	0·326	62·2	358·8	+14·6	0	7	
		6491	0·308	76·1	358·5	+10·0	5	29	
		6491	0·333	70·5	357·5	+12·1	0	7	
		6494*a*	0·521	114·3	347·6	− 7·0	28	133	
		6494	0·539	115·4	346·8	− 8·0	3	5	

Group 6492, August 8–11. An irregular stream, chiefly consisting of three composite spots, *a*, *b*, and *c*, besides many smaller spots. The group undergoes continual change, and by April 8, a new regular spot, *d*, has formed *f a*, whilst *b* and *c* have coalesced to form *e*.
Group 6493, August 4–5. One or two very small spots *np* Group 6490.
Group 6493*, August 8–9. One or two very small spots, *n*, the place of Group 6493.
Group 6494, August 4–13. A large regular spot, *a*, followed by a considerable train.

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).
1908.				°	°	°			
217·435	AS, CL	6494	0·529	111·6	346·6	− 5·9	0	7	
		6494	0·546	112·1	345·6	− 6·6	0	23	
		6494	0·559	114·3	345·3	− 8·1	1	4	
		6494	0·570	109·7	343·6	− 5·9	3	8	
		6494	0·577	112·2	343·6	− 7·4	0	14	
D.		6494	0·593	112·6	342·7	− 8·1	1	4	
		6494	0·597	110·9	342·0	− 7·3	11	50	
		6494	0·611	114·2	341·8	− 9·5	0	3	
			0·875	111·1	318·6	−15·1			233
			0·927	88·5	308·1	+ 3·7			127
Aug. 5				(+12·5)	(16·1)	(+6·1)	(401)	(2730)	(1454)
218·600	FS, M		0·916	284·9	67·6	+16·2			224
			0·926	244·8	63·9	−20·5			174
			0·732	242·4	42·8	−15·2			141
		6490*a*	0·563	236·4	29·3	−12·7	50	319	
		6490	0·587	230·1	28·6	−16·6	6	55	
		6490*b*	0·559	231·6	27·5	−14·7	35	343	
		6490	0·525	236·8	27·2	−11·1	0	4	536*c*
		6490*c*	0·520	224·3	22·8	−16·1	11	352	
		6490*d*	0·538	219·6	21·8	−18·7	11	322	
		6490	0·535	214·1	19·3	−20·4	0	15	
		6492*a*	0·458	274·5	28·0	+ 7·5	18	146	
G.		6492	0·413	277·6	25·1	+ 8·8	3	14	
		6492	0·377	275·3	22·9	+ 7·7	1	13	
		6492*b*	0·373	279·4	22·5	+ 9·2	7	77	
		6492*c*	0·348	274·4	21·1	+ 7·3	8	50	
		6491*a*	0·102	7·6	359·9	+12·0	106	633	
		6494*a*	0·310	138·9	348·9	− 7·4	47	244	
		6494	0·345	136·3	346·8	− 8·4	2	10	
		6494	0·359	132·8	345·3	− 8·1	0	8	
		6494	0·375	127·3	343·3	− 7·2	17	133	
			0·771	118·2	315·6	−17·0			207
			0·834	46·0	310·0	+39·4			109
Aug. 6				(+12·9)	(0·7)	(+6·2)	(322)	(2738)	(1391)
219·422	FS, AS		0·921	249·0	53·4	−16·6			161
			0·861	274·4	49·4	+ 7·0			176
			0·788	247·6	38·1	−13·3			155
		6490	0·703	238·5	28·4	−16·6	8	59	
G.		6490*e*	0·681	242·4	28·0	−13·4	107	809	462*c*
		6490*cd*	0·644	233·3	22·4	−17·3	20	686	
		6490	0·609	227·4	17·9	−18·7	6	35	
		6490	0·511	241·4	16·7	− 8·5	0	4	

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).
1908.				°	°	°			
219·422	FS, AS	6492*a*	0·624	273·7	28·5	+ 7·3	14	125	
		6492*d*	0·586	274·9	25·8	+ 8·0	15	90	
		6492	0·567	273·4	24·4	+ 7·1	0	15	133*c*
		6492*e*	0·544	274·1	22·8	+ 7·5	14	83	
		6492	0·539	277·4	22·5	+ 9·3	0	19	
		6492	0·509	273·9	20·5	+ 7·4	4	33	
		6491	0·245	301·7	2·1	+13·5	0	5	
G.		6491*a*	0·197	299·6	359·8	+11·8	111	639	
		6491	0·156	284·2	358·6	+ 8·4	0	9	
		6494*a*	0·227	176·5	349·0	− 6·7	50	282	
		6494	0·252	155·1	343·7	− 6·9	38	179	
			0·945	96·6	279·8	− 4·2			218
			0·953	81·2	276·8	+10·3			215
Aug. 7				(+13·3)	(349·8)	(+6·3)	(387)	(3072)	(1520)
220·276	FS, CL		0·969	288·1	55·4	+19·1			158
			0·937	276·4	48·5	+ 8·2			177
			0·944	244·9	44·8	−21·1			195
		6493	0·872	257·2	37·5	− 8·0	0	3	116*c*
		6493	0·855	257·0	35·6	− 7·7	0	13	
		6490	0·819	244·7	29·0	−16·5	4	50	
		6490*e*	0·806	248·2	28·7	−13·4	152	779	
		6490	0·779	245·0	25·4	−14·9	22	147	
		6490	0·761	245·0	23·8	−14·4	0	3	
		6490*d*	0·772	239·6	23·0	−18·5	34	319	
		6490*c*	0·758	242·3	22·7	−16·1	30	192	621*c*
		6490	0·749	240·1	21·3	−17·3	9	43	
		6490	0·749	238·3	20·6	−18·5	0	11	
		6490	0·755	235·2	20·0	−20·8	0	9	
		6490	0·733	236·5	18·7	−19·0	7	42	
		6490	0·700	239·5	17·3	−15·9	0	2	
		6492*a*	0·772	274·0	29·3	+ 7·1	14	78	
		6492	0·768	271·0	28·8	+ 4·8	0	3	
		6492*d*	0·742	274·0	26·6	+ 7·2	17	104	
		6492	0·724	275·2	25·1	+ 8·1	0	16	259*c*
		6492*e*	0·701	273·7	23·2	+ 7·1	41	228	
D.		6492	0·691	276·8	22·5	+ 9·3	2	8	
		6492	0·673	274·6	21·0	+ 7·7	3	40	
		6495	0·679	251·1	18·9	− 7·9	0	4	
		6491	0·412	290·8	1·9	+14·2	0	20	
		6491*a*	0·380	286·4	0·4	+12·0	130	606	
		6491	0·371	273·6	0·4	+ 7·2	0	2	
		6491	0·342	283·3	358·3	+10·4	1	2	
		6494*a*	0·294	223·4	350·3	− 6·1	43	233	
		6494	0·266	221·9	348·8	− 5·2	0	1	
		6494	0·293	215·4	348·4	− 7·5	27	127	
		6494	0·273	211·3	346·8	− 7·2	4	15	
		6494	0·301	208·0	346·8	− 9·1	2	14	
		6494	0·291	202·8	345·1	− 9·3	1	9	

Group 6495, August 8. 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).
1908.				°	°	°			
220·276	FS, CL	6494	0·250	204·5	344·6	− 6·9	32	202	
		6494	0·288	200·4	344·4	− 9·3	4	17	
		6494	0·244	197·4	342·8	− 7·1	9	41	
		6494	0·222	196·7	342·3	− 5·9	0	2	
D.		6496	0·935	110·6	272·8	−16·7	2	9	236*f*
			0·902	82·7	273·8	+ 9·3			170
			0·982	94·5	260·1	− 3·2			264
			0·982	79·6	258·7	+11·4			190
Aug. 8				(+13·6)	(338·6)	(+6·3)	(590)	(3394)	(2386)
221·181	FS, AS		0·895	262·5	29·2	− 3·8			37
			0·796	238·4	12·7	−20·2			120
		6493	0·955	259·4	37·9	− 8·1	0	24	175*c*
		6493	0·936	259·7	34·5	− 7·3	0	15	
		6492*a*	0·876	274·9	28·0	+ 7·4	37	292	567*c*
		6492	0·856	277·1	25·8	+ 9·4	0	6	
		6492	0·831	273·4	23·0	+ 6·4	16	60	
		6492*e*	0·830	275·1	22·9	+ 7·8	34	219	
		6492	0·810	274·9	20·9	+ 7·8	5	43	
		6492	0·809	276·4	20·9	+ 8·9	0	4	
		6490	0·909	249·1	28·5	−16·0	4	45	
		6490*f*	0·897	251·8	27·5	−13·2	169	989	
		6490	0·862	249·3	22·7	−14·2	0	35	616*c*
		6490	0·872	245·2	22·7	−18·0	21	456	
		6490	0·861	246·9	22·0	−16·2	31	162	
		6490	0·851	247·5	21·0	−15·3	0	15	
		6490	0·863	240·9	20·3	−21·1	0	4	
K.		6490	0·838	242·8	18·3	−18·6	2	27	
		6491	0·581	286·7	1·6	+14·9	0	6	
		6491*a*	0·556	282·2	0·2	+12·1	109	678	
		6491	0·557	274·2	0·5	+ 7·7	0	10	
		6494*a*	0·453	244·5	350·7	− 5·4	48	211	
		6494	0·441	240·0	349·1	− 6·8	42	246	
		6494	0·414	239·0	347·4	− 6·3	0	13	
		6494	0·425	235·8	347·3	− 7·8	0	8	
		6494	0·428	232·6	346·6	− 9·0	0	9	
		6494	0·402	233·1	345·5	− 7·9	0	9	
		6494	0·406	231·2	345·2	− 8·6	0	3	
		6494	0·379	233·9	344·5	− 6·8	75	372	
		6494	0·344	231·5	342·2	− 6·2	0	9	
		6496	0·847	114·9	273·3	−17·1	0	7	246*f*
			0·795	82·6	273·7	+ 9·8			258
			0·943	96·6	257·0	− 4·0			203
			0·947	77·5	254·7	+13·8			403
Aug. 9				(+14·0)	(326·6)	(+6·4)	(593)	(3977)	(2625)
222·418	FS, CL		0·902	287·2	15·1	+18·3			207
G.			0·921	241·1	11·6	−23·5			145
222·418	FS, CL	6492*a*	0·973	275·5	27·3	+ 6·9	20	225	480*c*
		6492*e*	0·952	275·3	22·7	+ 7·0	31	364	
		6490*f*	0·978	253·9	25·8	−14·2	96	1080	
		6490	0·956	247·7	19·4	−19·1	0	61	706*c*
		6497	0·885	248·6	8·8	−15·6	0	23	77*c*
		6491*a*	0·762	280·4	0·0	+12·1	56	544	453*c*
		6491	0·743	278·3	358·4	+10·4	0	14	
G.		6491	0·741	275·4	358·2	+ 8·3	0	3	
		6494*a*	0·674	253·5	350·6	− 6·2	73	408	293*c*
		6494	0·645	250·4	347·8	− 7·4	0	16	
		6494	0·614	247·4	345·0	− 8·4	5	41	
		6494	0·585	248·0	343·2	− 7·3	30	256	
			0·761	117·6	265·8	−16·0			120
			0·837	98·2	254·3	− 3·3			294
			0·873	75·0	249·0	+16·2			760
			0·958	113·0	240·7	−19·9			351
Aug. 10				(+14·4)	(310·2)	(+6·4)	(311)	(3035)	(3886)
223·405	FS, AS	6492*e*	0·995	276·8	21·9	+ 7·4	0	207	318*c*
		6497	0·960	250·5	7·8	−16·6	0	110	243*p*
		6491*b*	0·892	279·0	0·8	+11·0	29	218	361*c*
		6491*c*	0·887	281·6	0·2	+13·3	31	252	
		6494*a*	0·824	257·8	351·1	− 6·2	72	475	318*c*
		6494	0·803	256·2	348·8	− 7·0	0	12	
G.		6494	0·745	255·2	343·5	− 6·5	32	205	
		6494	0·737	252·1	342·2	− 8·5	7	32	
			0·705	105·6	254·3	− 6·2			245
			0·710	75·1	252·1	+15·1			282
			0·834	66·0	241·3	+23·5			151
			0·916	114·6	235·4	−19·4			668
Aug. 11				(+14·7)	(297·2)	(+6·5)	(171)	(1511)	(2586)
224·150	FS, AS		0·962	237·8	355·1	−28·6			163
		6491*b*	0·957	279·9	1·1	+11·3	19	131	597*c*
		6491*c*	0·954	282·0	0·6	+13·4	32	250	
		6494*a*	0·908	259·9	351·1	− 6·3	98	450	496*c*
D.		6494	0·895	258·7	349·3	− 7·1	0	8	
		6494	0·844	258·4	343·3	− 6·2	15	73	
		6494	0·844	255·9	342·9	− 8·2	13	71	
			0·862	120·2	234·1	−21·9			500
			0·947	111·9	219·8	−18·3			278
Aug. 12				(+15·0)	(287·3)	(+6·5)	(177)	(983)	(2034)
225·184	FS, CL		0·905	286·7	339·1	+17·9			172
		6491*b*	0·997	280·8	0·1	+11·2	0	152	446*f*
D.		6491*c*	0·996	283·1	359·9	+13·6	0	174	
		6491	0·994	281·7	358·5	+12·3	0	35	

Group 6496, August 8–9. A small spot.
Group 6497, August 10–11. A spot forming *f* Group 6490.

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).
1908.				°	°	°			
225·184	FS, CL	6494	0·980	262·1	351·1	− 6·4	111	355	424f
		6494	0·943	258·1	342·5	− 8·9	0	34	
		6498	0·735	248·6	317·7	−10·9	3	8	87c
		6498	0·725	249·3	317·1	−10·1	0	7	
		6498	0·703	248·1	315·1	−10·3	0	9	
		6499	0·212	165·0	270·6	− 5·2	5	28	
		6499	0·228	162·3	269·7	− 5·9	0	2	
D.		6499	0·203	157·2	269·2	− 4·2	0	5	
		6499	0·221	152·1	267·8	− 4·7	4	13	
		6499	0·236	145·7	266·1	− 4·7	0	9	
		6500	0·923	109·2	209·5	−14·9	4	16	314f
		6500	0·940	108·7	206·7	−15·0	0	13	
			0·747	126·5	233·7	−21·3			476
			0·868	117·5	218·9	−19·9			203
			0·915	87·9	207·4	+ 4·6			250
			0·961	121·5	206·0	−27·8			261
Aug. 13				(+15·4)	(273·7)	(+6·6)	(127)	(860)	(2633)
226·514	FS, M		0·879	253·5	315·0	−11·0			224
			0·821	272·4	311·4	+ 5·8			142
			0·712	261·0	300·6	− 1·6			77
		6499a	0·354	235·5	273·1	− 5·1	39	263	
		6499	0·318	228·2	269·8	− 5·7	5	41	
		6499	0·279	227·5	268·0	− 4·3	19	104	
		6499b	0·283	221·3	266·9	− 5·6	19	123	
		6501	0·199	297·3	266·5	+11·8	2	14	
		6501	0·149	307·3	263·0	+11·8	1	6	
G.		6501	0·092	308·2	260·3	+ 9·9	0	3	
		6502	0·139	28·7	252·2	+13·7	0	2	
		6502	0·163	37·4	250·3	+14·1	0	9	
		6500	0·770	116·2	210·5	−15·2	0	7	
		6500	0·802	114·5	207·2	−15·0	0	9	193c
		6500	0·821	112·5	204·8	−14·1	0	6	
		6503	0·941	108·3	188·8	−14·7	2	18	
		6503	0·973	106·9	182·1	−14·7	0	10	302s
		6504	0·986	89·3	175·8	+ 1·9	0	21	246c
			0·828	104·6	202·3	− 8·1			117
			0·952	98·0	185·0	− 5·5			154
Aug. 14				(+15·8)	(256·1)	(+6·7)	(87)	(636)	(1455)
227·389	FS, AS		0·892	276·9	308·0	+ 9·2			164
		6498	0·965	257·3	317·4	−10·3	0	11	127sf
		6499a	0·526	248·3	273·8	− 5·4	62	373	
G.		6499	0·484	244·3	270·4	− 6·1	7	51	
		6499	0·476	246·4	270·4	− 4·9	0	5	
		6499	0·439	245·4	268·0	− 4·4	15	98	
		6499b	0·440	241·1	267·2	− 6·0	43	266	
		6501	0·397	284·6	267·5	+11·9	1	7	
1908.				°	°	°			
227·389	FS, AS	6501	0·335	289·2	263·3	+12·7	0	4	
		6502	0·212	309·2	254·2	+14·3	0	11	
		6502	0·180	310·8	252·5	+13·4	0	5	
		6502	0·165	321·5	250·6	+14·1	0	4	
		6500	0·674	120·0	207·6	−14·4	11	36	117c
G.		6500	0·715	118·4	204·1	−14·8	0	24	
		6503	0·854	111·1	189·5	−14·1	10	62	270c
		6503	0·905	111·1	183·3	−15·9	0	39	
		6504	0·904	89·4	179·8	+ 3·4	6	36	541c
		6504	0·931	90·6	176·1	+ 1·9	0	11	
			0·815	102·7	191·6	− 6·3			114
Aug. 15				(+16·1)	(224·5)	(+6·7)	(155)	(1043)	(1333)
228·160	AS, CL		0·941	276·5	305·0	+ 8·4			107
		6499a	0·680	254·9	275·4	− 5·1	46	342	
		6499	0·649	254·5	273·0	− 4·8	3	21	
		6499	0·644	252·3	272·2	− 6·0	21	141	
		6499	0·618	253·2	270·6	− 4·9	1	14	153c
		6499	0·613	251·2	269·8	− 5·9	0	8	
		6499	0·590	252·8	268·6	− 4·6	6	74	
		6499b	0·581	249·1	267·3	− 6·3	29	278	
		6501	0·562	282·1	268·4	+12·4	0	5	
		6502	0·357	289·8	254·4	+13·3	1	2	
		6502	0·328	291·6	252·5	+13·3	1	7	
		6500a	0·544	130·0	208·9	−14·4	20	54	
D.		6500	0·594	128·5	205·5	−15·8	1	6	
		6500	0·606	125·8	203·8	−15·0	3	15	
		6500	0·624	126·8	203·1	−16·2	0	2	
		6503	0·757	115·2	189·6	−14·0	15	53	
		6503	0·776	115·9	188·1	−15·2	0	7	
		6503	0·795	115·6	186·4	−15·6	2	14	285c
		6503	0·833	113·2	182·0	−15·1	8	31	
		6503	0·846	115·2	181·3	−17·1	7	45	
		6504	0·816	90·8	179·7	+ 3·3	0	6	673c
		6504	0·851	92·2	176·2	+ 1·7	0	9	
			0·929	105·4	168·4	−11·6			181
			0·916	86·6	167·8	+ 5·8			153
Aug. 16				(+16·4)	(234·3)	(+6·7)	(164)	(1134)	(1552)
229·410	FS, CL		0·878	244·1	274·2	−18·9			222
			0·821	277·8	273·4	+10·3			146
			0·682	261·6	260·1	− 0·7			122
			0·600	212·2	238·2	−24·0			283
G.		6499a	0·849	259·2	274·5	− 5·5	56	534	439c
		6499	0·808	258·2	270·2	− 5·4	0	6	
		6499b	0·778	256·6	267·1	− 5·9	59	442	
		6500a	0·390	158·2	209·2	−14·4	13	61	
		6500	0·433	147·3	203·9	−14·7	0	10	

Group 6498, August 13–15. A few small unstable spots. The group is not seen on August 14.
Group 6499, August 13–19. A number of small spots in an irregular stream. The group rapidly develops into a fine compact stream of which *a* and *b*, the first and last spots, are the largest members. *a* and *b* continue to grow, and by April 17 have become very large composite spots, and have practically absorbed the whole of the group.
Group 6500, August 13–23. Some small spots in an irregular stream. The group has developed by August 16 into a regular spot, *a*, followed by a small train.
Group 6501, August 14–16. Some small unstable spots.
Group 6502, August 14–18. Some small unstable spots. The group is not seen on August 17.
Group 6503, August 14–26. A number of spots, mostly small and unstable, irregularly scattered over a wide area. The group changes very rapidly.
Group 6504, August 14–18. Some small unstable spots. The group is not seen on August 17.

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).
1908.				°	°	°			
229·410	FS, CL	6503	0·563	126·0	190·0	−13·3	7	18	
		6503	0·600	125·9	187·8	−14·7	0	16	
		6503	0·639	122·9	184·3	−14·6	0	25	177*c*
G.		6503	0·689	122·5	180·7	−16·3	6	72	
		6505	0·628	71·0	179·6	+17·1	0	15	
		6505	0·674	72·9	175·8	+16·5	2	31	
		6505	0·712	73·2	172·6	+16·7	0	19	
			0·682	93·2	175·0	+ 2·8			293
Aug. 17				(+16·8)	(217·8)	(+6·8)	(143)	(1249)	(1682)
230·158	FS, AS		0·933	273·4	277·0	+ 5·6			147
			0·923	250·9	272·1	−14·7			181
			0·833	280·9	264·7	+12·8			325
			0·671	226·0	239·1	−21·9			236
			0·655	210·3	229·8	−28·1			142
		6499*a*	0·931	261·5	275·3	− 5·3	104	447	
		6499	0·906	262·3	271·9	− 4·0	0	28	476*c*
		6499*b*	0·879	259·6	268·0	− 5·8	106	498	
		6502	0·700	284·2	252·3	+14·8	0	24	111*c*
		6500*a*	0·368	183·9	209·4	−14·7	17	62	
		6500	0·379	169·2	203·7	−15·0	0	7	
		6500	0·359	166·0	202·8	−13·5	0	2	
		6500	0·411	167·0	202·4	−16·8	0	7	
		6503	0·472	138·1	189·0	−14·0	10	32	
		6503	0·495	134·7	186·7	−14·0	3	14	
		6503	0·507	135·4	186·4	−14·8	0	1	
		6503	0·527	136·9	186·0	−16·3	5	27	
		6503	0·553	135·7	184·2	−17·0	1	12	
D.		6503	0·534	132·5	184·0	−14·9	17	35	
		6503	0·557	134·0	183·3	−16·5	1	26	
		6503	0·551	130·7	182·4	−14·9	1	8	
		6503	0·576	131·1	181·1	−16·2	3	13	
		6503	0·575	129·3	180·5	−15·3	3	14	
		6503	0·597	131·8	180·2	−17·4	7	31	
		6504	0·460	97·0	180·8	+ 2·9	0	4	
		6504	0·513	96·5	177·4	+ 2·6	0	12	
		6504	0·551	93·8	174·6	+ 3·6	0	8	
		6505	0·488	65·7	180·2	+17·7	10	23	
		6505	0·502	68·2	178·9	+16·7	0	4	
		6505	0·532	67·5	177·0	+17·5	2	5	
		6505	0·529	70·9	176·7	+15·8	4	14	
		6505	0·536	69·4	176·4	+16·7	0	12	
		6505	0·555	68·9	175·2	+17·3	0	6	
		6505	0·554	71·3	175·0	+16·0	6	24	
			0·703	105·2	165·1	− 5·6			269
			0·906	118·1	148·6	−21·9			199
			0·895	102·3	146·2	− 7·8			353
			0·905	86·6	142·9	+ 6·0			356
Aug. 18				(+17·1)	(207·9)	(+6·8)	(300)	(1400)	(2795)
1908.				°	°	°			
231·122	FS, CL		0·927	279·3	263·8	+11·2			248
			0·951	249·6	263·7	−16·9			159
			0·848	261·5	252·1	− 3·5			118
			0·831	284·3	251·7	+15·7			310
			0·785	234·8	238·8	−21·9			161
			0·655	242·0	231·3	−12·3			83
			0·705	227·4	229·3	−22·8			118
		6499*a*	0·985	262·8	274·2	− 5·8	82	477	
		6499*b*	0·956	261·3	266·9	− 6·2	77	593	316*c*
		6500*a*	0·431	212·4	208·9	−14·6	17	48	
		6503	0·357	164·2	189·5	−13·2	12	44	
		6503	0·367	159·4	187·6	−13·2	0	8	
		6503	0·399	159·4	186·9	−15·0	14	64	
		6503	0·418	159·0	186·3	−16·1	10	49	
		6503	0·444	158·4	185·4	−17·5	2	6	
		6503	0·404	155·3	185·2	−14·7	2	7	
		6503	0·441	155·4	184·2	−16·8	0	12	
		6503	0·431	154·3	184·0	−16·0	0	7	
		6503	0·407	151·8	183·8	−14·2	13	43	
		6503	0·460	154·3	183·2	−17·7	15	38	
K.		6503	0·425	150·0	182·6	−14·8	2	9	
		6503	0·455	151·4	182·1	−16·8	0	5	
		6503	0·441	148·3	181·4	−15·3	7	19	
		6503	0·475	149·2	180·5	−17·3	0	8	
		6503	0·441	145·3	180·2	−14·5	1	9	
		6503	0·470	147·2	179·9	−16·6	6	23	
		6505	0·280	46·7	182·9	+17·8	0	3	
		6505	0·295	46·9	182·1	+18·3	12	53	
		6505	0·303	48·6	181·4	+18·3	0	5	
		6505	0·315	57·4	179·2	+16·4	0	4	
		6505	0·345	56·1	177·8	+17·6	0	2	
		6505	0·363	61·3	175·9	+16·5	4	17	
		6505	0·365	63·0	175·5	+16·0	9	25	
			0·799	105·7	144·4	− 8·1			183
			0·855	121·1	143·2	−22·0			191
			0·821	79·0	139·6	+13·0			201
			0·900	87·5	130·9	+ 5·3			143
			0·950	111·7	127·2	−18·1			173
			0·958	100·1	123·4	− 7·6			197
Aug. 19				(+17·4)	(195·2)	(+6·9)	(285)	(1578)	(2601)
232·224	FS, AS		0·913	283·9	247·2	+15·4			481
			0·911	264·4	245·5	− 2·2			245
			0·847	293·5	238·3	+23·5			158
			0·848	236·1	230·7	−23·8			551
D.			0·739	243·3	223·4	−14·4			192
		6500*a*	0·583	232·8	209·2	−14·6	10	59	
		6503	0·372	204·9	189·8	−12·8	13	71	
		6503	0·367	199·8	187·9	−13·3	0	35	

Group 6505, August 17–23. A number of spots, mostly small and unstable, irregularly scattered.

Measures of Positions and Area 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).
1908.				°	°	°			
232·224	FS, AS	6503	0·384	197·1	187·3	−14·6	13	79	
		6503	0·407	193·5	186·3	−16·3	1	42	
		6503	0·338	196·7	186·3	−12·0	0	20	
		6503	0·375	192·5	185·4	−14·6	4	37	
		6503	0·387	189·3	184·3	−15·5	0	9	
		6503	0·344	190·7	184·3	−12·8	0	4	
		6503	0·366	188·1	183·6	−14·3	7	18	
		6503	0·428	185·7	183·2	−18·2	9	61	
		6503	0·368	184·9	182·5	−14·5	0	7	
		6503	0·351	180·7	180·9	−13·6	0	5	
		6503	0·383	180·4	180·8	−15·6	0	4	
D.		6503	0·399	178·3	179·9	−16·5	4	58	
		6505	0·208	350·1	182·8	+18·7	11	49	
		6505	0·180	4·5	179·8	+17·2	0	20	
		6505	0·192	22·5	176·2	+17·1	2	29	
		6505	0·182	29·6	175·3	+15·9	2	11	
		6505	0·208	27·9	174·8	+17·5	3	13	
			0·662	103·5	140·6	− 3·6			225
			0·835	86·5	123·8	+ 6·7			153
			0·908	125·0	123·6	−27·7			188
			0·886	108·2	121·2	−12·6			593
			0·896	74·0	116·4	+17·4			455
Aug. 20				(+17·7)	(180·6)	(+6·9)	(79)	(631)	(3241)
233·412	FS, CL		0·901	241·4	223·3	−22·0			478
		6500*a*	0·750	243·5	208·7	−14·6	9	56	125*c*
		6506	0·659	227·3	195·9	−20·6	0	2	
		6506	0·663	225·1	195·2	−21·9	4	14	
		6503	0·519	231·3	189·3	−12·6	16	80	
		6503	0·523	228·2	188·5	−14·0	1	11	
		6503	0·509	225·1	186·7	−14·6	19	114	
		6503	0·482	226·0	185·7	−13·1	0	5	
		6503	0·511	220·8	185·2	−16·2	0	6	
		6503	0·475	222·2	184·0	−14·0	8	31	
G.		6503	0·498	217·5	183·3	−16·7	14	57	
		6503	0·512	214·8	182·7	−18·3	5	29	
		6503	0·480	215·2	181·6	−16·4	5	33	
		6503	0·450	213·0	179·6	−15·4	0	11	
		6505	0·366	305·2	183·2	+18·7	5	18	
		6505	0·303	309·3	179·1	+17·8	0	8	
		6505	0·266	310·4	177·0	+16·6	0	6	
			0·724	118·5	123·9	−15·0			320
			0·883	125·4	111·3	−26·8			214
			0·905	75·2	99·4	+16·3			174
			0·944	111·3	97·8	−17·5			251
Aug. 21				(+18·1)	(164·9)	(+6·9)	(86)	(481)	(1562)
1908.				°	°	°			
234·517	FS, M		0·958	248·6	220·0	−18·2			348
			0·810	256·5	202·6	− 6·6			116
		6500*a*	0·882	249·1	208·5	−14·7	8	26	168*c*
		6506	0·822	236·2	197·8	−22·5	4	14	
		6506	0·793	237·8	195·7	−20·1	0	10	118*c*
		6506	0·775	235·4	193·3	−21·1	9	26	
		6503	0·690	243·7	189·4	−12·4	7	23	
		6503	0·673	240·2	187·2	−14·0	11	95	
		6503	0·662	236·9	185·3	−15·4	0	6	
		6503	0·647	239·3	185·1	−13·6	3	13	
		6503	0·626	236·7	182·8	−14·2	1	5	253*c*
G.		6503	0·651	230·5	182·2	−18·5	4	14	
		6503	0·637	232·3	182·0	−16·9	8	49	
		6503	0·617	234·7	181·6	−14·9	0	15	
		6505	0·567	293·9	183·5	+19·2	2	7	
		6505	0·507	292·9	179·5	+17·5	0	7	
		6505	0·457	294·5	176·0	+17·2	0	10	
		6507*a*	0·464	154·3	138·2	−17·8	0	5	
		6507	0·418	148·6	137·4	−14·0	0	3	
		6507*b*	0·487	149·9	135·5	−18·1	0	5	
			0·784	75·3	98·5	+15·9			134
			0·894	118·4	92·8	−21·5			172
			0·971	82·6	73·5	+ 8·9			245
Aug. 22				(+18·4)	(150·3)	(+7·0)	(57)	(333)	(1554)
235·151	FS, CL		0·914	249·8	204·5	−15·3			234
			0·894	259·1	203·8	− 6·5			156
			0·900	232·9	196·9	−29·0			115
			0·800	264·0	194·4	− 0·6			196
			0·787	284·8	194·0	+16·0			309
			0·665	269·4	183·6	+ 4·8			196
		6500	0·939	253·4	209·1	−13·0	3	16	128*c*
		6500*a*	0·937	252·0	208·4	−14·1	8	32	
		6506	0·895	241·6	199·5	−21·5	5	11	
		6506	0·861	239·9	194·9	−21·5	0	8	177*c*
		6506	0·844	240·0	193·1	−20·6	8	50	
		6503	0·780	248·5	189·6	−11·9	5	25	
D.		6503	0·767	245·7	187·7	−13·5	14	63	
		6503	0·745	246·1	186·0	−12·6	3	7	
		6503	0·739	244·7	185·1	−13·4	2	6	
		6503	0·702	245·6	182·5	−11·6	0	2	
		6503	0·726	239·5	182·4	−16·3	7	31	863*c*
		6503	0·734	236·8	182·1	−18·4	2	11	
		6503	0·708	242·5	182·0	−13·7	0	10	
		6503	0·711	241·4	181·9	−14·6	6	18	
		6503	0·713	237·8	180·9	−16·9	11	44	
		6503	0·720	233·9	179·9	−19·6	0	6	
		6503	0·694	235·1	178·5	−17·8	0	10	
		6505	0·631	292·4	180·0	+19·5	0	9	

Group 6506, August 21–24. A few small unstable spots.
Group 6507, August 22–28. A few small spots quickly developing into a stream of normal type, of which two double spots, *a* and *b*, are the principal 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).
1908.				°	°	°			
235·151	FS, CL	6505	0·624	290·0	179·8	+17·8	0	6	
		6505	0·579	291·4	176·3	+18·0	1	12	
		6507*a*	0·427	173·2	138·9	−18·0	7	23	
		6507	0·416	171·9	138·4	−17·2	0	5	
		6507*b*	0·436	166·2	135·6	−18·0	4	14	
		6508	0·935	82·1	72·1	+ 9·9	0	3	} 297*f*
D.		6508	0·940	83·0	71·3	+ 9·0	0	16	
			0·739	156·8	120·8	−36·2			192
			0·822	140·0	102·6	−33·6			217
			0·643	75·8	102·0	+14·5			191
			0·846	122·4	91·4	−22·6			410
			0·960	69·7	66·9	+21·4			237
Aug. 23				(+18·6)	(141·9)	(+7·0)	(86)	(438)	(3918)
236·465	FS, CL		0·827	270·2	180·4	+ 4·2			232
			0·821	287·3	180·0	+18·2			317
		6506	0·951	245·2	192·0	−20·9	0	10	942*c*
		6503	0·903	251·8	186·1	−13·1	6	102	
		6503	0·883	247·7	182·5	−15·9	14	137	
G.		6509	0·440	268·5	150·7	+ 5·7	0	7	
		6507*a*	0·492	211·0	140·0	−18·1	11	52	
		6507*b*	0·463	203·7	135·8	−18·1	9	47	
		6508	0·789	83·7	72·2	+ 9·3	0	5	
			0·818	83·7	69·4	+ 9·2			258
			0·888	68·1	61·6	+22·7			270
Aug. 24				(+19·0)	(124·6)	(+7·0)	(40)	(360)	(2019)
237·511	FS, M		0·903	286·4	176·1	+17·9			317
			0·887	268·1	173·1	+ 1·7			576
		6503	0·982	256·3	187·9	−12·0	0	68	
		6503	0·963	253·2	182·4	−14·0	0	13	} 828*c*
		6503	0·964	250·1	182·0	−17·0	0	35	
		6507*a*	0·633	229·0	140·9	−18·4	18	121	
		6507	0·586	225·7	136·8	−17·8	1	9	
G.		6507*b*	0·573	223·5	135·2	−18·1	11	58	
		6510	0·952	86·9	38·4	+ 5·1	73	403	
		6510	0·968	86·3	35·0	+ 5·4	0	70	
		6510	0·984	84·7	30·7	+ 6·5	72	691	
		6510	0·990	81·4	28·2	+ 9·5	0	123	903*c*
		6511*a*	0·990	105·0	31·3	−13·7	98	429	529*p*
			0·701	85·7	66·1	+ 8·1			75
Aug. 25				(+19·3)	(110·8)	(−7·1)	(273)	(2020)	(3228)
238·146	CL, AS		0·968	286·5	179·2	+17·8			419
K.			0·969	275·1	178·5	+ 6·7			234
			0·942	268·0	172·4	+ 0·5			238
			0·877	278·2	164·2	+10·6			97

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).
1908.				°	°	°			
238·146	CL, AS		0·878	262·2	162·8	− 3·3			216
		6503	0·991	252·0	181·9	−16·7	0	60	715*c*
		6507*a*	0·726	236·3	141·7	−18·3	16	82	
		6507	0·724	234·6	140·9	−19·2	0	6	
		6507	0·710	236·2	140·5	−17·7	0	6	
		6507	0·672	233·7	136·9	−17·5	0	4	
		6507*b*	0·661	232·0	135·5	−18·0	18	74	109*c*
		6512	0·590	125·2	72·8	−13·7	0	6	
		6512	0·593	122·6	71·8	−12·5	0	10	
K.		6510	0·897	88·0	38·5	+ 5·0	80	372	
		6510	0·907	87·1	37·1	+ 5·6	7	14	
		6510	0·918	87·0	35·6	+ 5·6	0	86	
		6510	0·917	84·3	35·5	+ 8·1	0	4	} 406*c*
		6510	0·922	85·9	34·9	+ 6·5	0	15	
		6510	0·937	86·4	32·6	+ 5·9	0	7	
		6510	0·936	84·1	32·6	+ 8·0	0	6	
		6510	0·951	85·0	30·0	+ 7·0	67	763	806*c*
		6511*a*	0·966	106·6	30·0	−14·0	99	528	610*c*
		6513	0·983	72·2	21·5	+18·7	11	72	208*c*
			0·898	103·0	40·4	− 8·4			188
			0·951	113·2	34·6	−19·4			450
			0·959	94·1	29·5	− 1·9			91
Aug. 26				(+19·6)	(102·4)	(+7·1)	(298)	(2115)	(4787)
239·414	AS, CL		0·906	275·3	150·9	+ 7·8			167
			0·894	256·9	147·0	− 8·4			171
			0·706	238·3	124·2	−16·2			126
		6507*a*	0·878	244·1	141·9	−18·7	17	59	} 190*c*
		6507*b*	0·819	241·9	134·9	−18·1	5	33	
		6514	0·599	262·3	121·9	+ 1·2	0	10	
		6515	0·560	243·7	115·9	− 8·2	0	12	
		6515	0·529	240·3	113·2	− 8·9	4	17	
		6512	0·394	149·1	73·7	−12·7	3	26	
		6512	0·425	144·3	70·9	−13·3	3	20	
G.		6510	0·723	86·5	39·1	+ 7·5	0	24	
		6510	0·732	89·6	38·5	+ 5·2	64	557	
		6510	0·810	87·1	31·3	+ 6·6	51	505	} 1096*c*
		6510	0·829	81·9	29·2	+10·7	8	31	
		6510	0·839	84·3	28·2	+ 8·6	11	141	
		6511*a*	0·852	110·8	30·8	−13·6	88	495	631*f*
		6513	0·901	72·8	20·6	+18·6	11	46	461*f*
		6516	0·956	109·1	15·9	−15·9	0	60	192*f*
			0·821	118·7	36·3	−18·6			395
			0·981	84·1	6·3	+ 7·2			329
Aug. 27				(+19·9)	(85·6)	(+7·1)	(265)	(2036)	(3758)
240·672	FS, AS	6507*b*	0·935	247·1	134·0	−18·5	0	22	205*c*
G.		6514*	0·772	271·0	119·6	+ 5·3	0	11	123*s*

Group 6508, August 23–24. Two very small spots of which one has disappeared by August 24. Group 6509, August 24. A pair of very small faint spots.
Group 6510, August 25–September 6. Return of Group 6492. A magnificent irregular and nearly continuous stream, undergoing frequent changes.
Group 6511, August 25–September 6. Return of Group 6490. A very large regular spot, *a*, usually with several small companions. A considerable cluster, *b*, has formed *y* the chief spot by September 2, but soon breaks up.
Group 6512, August 26–27. Some small unstable spots in an irregular stream.
Group 6513, August 26–September 2. A small spot on August 26. A second is seen near it and is measured with it, on August 27. The two are measured separately, as *a* and *b* on the succeeding days. Both *a* and *b* have disappeared by September 1, but some very small unstable spots are seen in the neighbourhood.
Group 6514, August 27. A small spot.
Group 6515, August 27–28. One or two small spots. Group 6514*, August 28. A small faint spot, *n*, of the place of Group 6514.

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 each Day).	Spots. Area of WHOLE for each Spot (and for each Day).	Faculæ. Area for each Group (and for Day).
				°	°	°			
1908.									
240·672	FS, AS	6515	0·754	252·7	115·5	− 8·1	0	6	151c
		6512	0·361	191·7	73·3	−13·6	0	12	
		6512	0·346	184·9	70·7	−13·0	3	29	
		6510	0·490	87·7	39·6	+ 7·3	0	23	
		6510	0·496	93·0	39·3	+ 4·7	59	377	
		6510	0·529	89·7	37·0	+ 6·2	7	80	
		6510	0·553	89·8	35·4	+ 6·0	1	16	642c
		6510	0·581	83·6	33·3	+ 9·5	0	35	
		6510	0·610	88·1	31·3	+ 6·8	84	586	
		6510	0·630	83·2	29·8	+ 9·8	11	112	
G.		6510	0·685	81·9	25·5	+10·7	0	7	
		6511	0·661	122·2	33·8	−14·8	0	5	
		6511a	0·686	118·5	30·8	−13·6	77	469	173f
		6511	0·726	119·6	28·2	−15·7	0	7	
		6513a	0·737	71·6	21·8	+18·3	4	15	433f
		6513b	0·759	71·4	19·8	+18·7	4	15	
		6516	0·853	113·8	14·9	−16·0	6	47	242f
		6517a	0·968	98·5	354·8	− 6·3	70	330	372c
			0·790	123·8	24·4	−21·1			444
			0·897	82·6	4·7	+ 9·8			587
				(+20·2)	(69·0)	(+7·1)	(326)	(2204)	(3372)
Aug. 28									
241·404	Cl., M		0·931	248·0	123·9	−17·4			451
			0·888	272·3	122·1	+ 5·4			308
			0·833	257·7	114·0	− 6·1			321
			0·838	228·9	105·0	−28·4			130
		6512	0·401	210·5	71·3	−13·1	0	8	
		6510	0·332	88·6	39·8	+ 7·3	0	3	
		6510	0·346	95·7	39·2	+ 4·8	76	464	
		6510	0·361	101·7	38·7	+ 2·6	0	3	
		6510	0·369	87·5	37·6	+ 7·7	0	13	
		6510	0·423	85·1	34·2	+ 8·6	3	24	
G.		6510	0·427	90·8	34·0	+ 6·2	11	124	
		6510	0·483	87·8	30·3	+ 7·4	95	707	
		6510	0·495	78·6	29·7	+11·9	0	3	
		6511a	0·570	126·2	31·2	−13·3	81	445	
		6511	0·616	129·1	29·5	−16·6	0	5	
		6513a	0·619	69·5	21·8	+18·3	6	26	180f
		6513b	0·643	69·6	20·0	+18·6	3	11	
		6516	0·766	117·7	14·7	−15·7	8	39	257f
		6517a	0·914	100·2	354·7	− 6·3	67	363	493c
			0·723	125·9	21·1	−19·4			292
			0·833	82·3	2·5	+10·4			589
				(+20·4)	(59·3)	(+7·2)	(350)	(2238)	(3021)
Aug. 29									
242·553	FS, CL		0·952	259·0	114·7	− 8·1			268
			0·815	239·2	92·1	−19·9			164
G.		6510	0·092	121·8	39·7	+ 4·4	93	602	

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).
				°	°	°			
1908.									
242·553	FS, CL	6510	0·114	80·4	37·7	+ 8·3	7	93	
		6510	0·180	78·6	34·0	+ 9·1	8	67	
		6510	0·189	96·6	33·4	+ 5·9	19	408	
		6510	0·217	82·5	31·7	+ 8·6	4	82	
		6510	0·259	83·6	29·2	+ 8·6	60	355	
		6510	0·274	101·0	28·6	+ 4·0	0	26	
		6511a	0·411	148·3	31·4	−13·4	69	440	
		6511	0·448	146·9	29·6	−15·0	0	12	
G.		6511	0·456	143·6	28·0	−14·6	0	44	
		6516	0·603	128·6	15·0	−15·8	10	25	
		6513a	0·411	59·7	22·3	+18·6	3	12	
		6513b	0·439	62·0	20·2	+18·5	0	9	
		6518	0·691	78·8	0·3	+13·0	8	64	144c
		6518	0·722	78·5	357·8	+13·3	14	46	
		6517a	0·779	104·1	354·9	− 6·3	59	352	418f
				(+20·7)	(44·2)	(+7·2)	(354)	(2637)	(994)
Aug. 30									
243·359	FS, CL		0·917	286·0	100·8	+17·5			112
			0·857	241·8	86·7	−19·7			135
		6510	0·197	277·6	44·8	+ 8·6	0	7	
		6510	0·177	271·3	43·7	+ 7·3	0	3	
		6510	0·180	248·1	43·1	+ 3·3	0	11	
		6510	0·152	281·3	42·1	+ 8·8	0	6	
		6510	0·128	250·3	40·4	+ 4·7	88	673	
		6510	0·111	286·8	39·6	+ 9·1	0	12	
		6510	0·096	275·0	39·0	+ 7·7	2	16	
		6510	0·093	264·2	38·8	+ 6·7	2	7	
		6510	0·077	291·2	37·6	+ 8·8	2	8	
		6510	0·070	248·6	37·2	+ 5·8	10	147	
		6510	0·058	285·6	36·7	+ 8·1	2	9	
		6510	0·077	316·2	36·6	+10·4	0	5	
		6510	0·050	272·5	36·4	+ 7·3	0	18	
		6510	0·048	306·6	35·7	+ 8·8	14	105	
D.		6510	0·036	238·3	35·3	+ 6·1	0	67	
		6510	0·082	341·9	35·0	+11·7	0	2	
		6510	0·049	340·8	34·4	+ 9·9	2	15	
		6510	0·007	192·7	33·6	+ 6·8	0	16	
		6510	0·032	24·1	32·7	+ 8·9	20	107	
		6510	0·025	142·1	32·6	+ 6·1	0	20	
		6510	0·027	41·2	32·5	+ 8·4	2	12	
		6510	0·045	149·2	32·2	+ 5·0	0	5	
		6510	0·035	94·3	31·5	+ 7·0	0	42	
		6510	0·051	128·4	31·2	+ 5·4	12	110	
		6510	0·083	51·4	29·7	+10·2	3	15	
		6510	0·069	78·5	29·6	+ 8·0	28	143	
		6510	0·106	123·3	28·4	+ 3·9	0	9	
		6510	0·103	62·7	28·2	+ 9·9	27	104	
		6510	0·119	62·3	27·4	+10·3	0	5	
		6511a	0·360	174·6	31·5	−13·7	53	344	

Group 6516. August 27–September 1. Return of Group 6497. A small spot.
Group 6517, August 28–September 9. Return of Group 6494. A large regular spot, *a*, with, very occasionally, a small companion.
Group 6518, August 30–September 7. A number of small unstable spots in an irregular stream. Revival of Group 6491.

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).
1908.				°	°	°			
243·359	FS, CL	6511	0·358	169·7	29·7	−13·4	2	13	
		6511	0·382	168·9	29·2	−14·7	0	7	
		6511	0·397	165·4	27·6	−15·4	0	4	
		6513*a*	0·279	40·9	22·4	+19·2	4	11	
		6513*b*	0·301	48·0	19·9	+18·6	0	4	
		6513	0·316	57·4	17·4	+16·7	0	4	
		6516	0·496	141·3	14·8	−15·9	2	16	
		6518	0·530	77·3	1·6	+12·8	15	111	
		6518	0·539	75·6	1·1	+13·8	3	16	
D.		6518	0·558	75·9	359·8	+13·8	3	19	
		6518	0·567	79·2	358·9	+12·0	0	7	
		6518	0·576	74·8	358·6	+14·6	4	35	
		6518	0·590	76·4	357·5	+13·8	0	3	
		6518	0·594	77·5	357·1	+13·2	13	31	
		6517*a*	0·659	108·6	354·7	− 6·5	59	336	134*c*
			0·778	105·5	344·6	− 7·3			349
			0·876	72·8	331·8	+18·5			116
			0·956	105·2	323·0	−12·2			170
Aug. 31				(+20·9)	(33·5)	(+7·2)	(372)	(2660)	(1016)
244·497	FS, AS		0·961	242·4	87·1	−24·0			169
			0·855	277·5	77·7	+10·1			160
			0·860	249·5	74·3	−13·6			150
		6510	0·432	272·6	44·2	+ 7·6	4	45	
		6510	0·426	266·5	43·7	+ 5·1	0	5	
		6510	0·410	262·1	42·4	+ 3·3	14	55	
		6510	0·375	266·2	40·5	+ 5·2	44	284	
		6510	0·360	259·9	39·2	+ 3·2	39	286	
		6510	0·347	271·8	38·9	+ 7·4	4	32	
		6510	0·346	278·6	38·7	+ 9·8	3	16	
		6510	0·329	275·9	37·7	+ 8·7	25	111	
		6510	0·314	267·6	36·8	+ 6·1	18	203	
		6510	0·311	272·1	36·7	+ 7·5	3	18	
		6510	0·299	283·4	35·6	+10·9	1	18	
G.		6510	0·289	272·0	35·4	+ 7·5	0	34	
		6510	0·290	276·4	35·4	+ 8·8	5	79	
		6510	0·243	278·3	32·5	+ 9·1	20	123	
		6510	0·229	265·3	31·7	+ 5·9	18	104	
		6510	0·236	291·2	31·4	+11·9	1	5	
		6510	0·212	281·0	30·6	+ 9·4	4	18	
		6510	0·193	273·6	29·7	+ 7·8	34	209	
		6510	0·205	251·7	29·7	+ 3·4	0	15	
		6510	0·181	285·6	28·6	+ 9·9	27	203	
		6510	0·163	271·7	27·9	+ 7·4	0	5	
		6511*a*	0·414	211·2	31·2	−13·7	62	354	
		6511	0·395	207·4	29·2	−13·4	0	4	
		6511	0·356	210·6	29·1	−10·7	0	5	
		6511	0·428	202·7	28·4	−16·1	3	15	
		6511	0·395	201·7	27·1	−14·4	0	5	
1908.				°	°	°			
244·497	FS, AS	6513	0·171	4·9	17·6	+17·0	0	16	
		6513	0·195	36·1	11·7	+16·2	0	8	
		6516	0·393	170·8	14·8	−15·6	0	8	
		6518	0·303	69·0	1·7	+13·1	19	151	
G.		6518	0·354	69·9	358·6	+13·7	0	8	
		6518	0·372	69·2	357·6	+14·3	6	48	
		6517*a*	0·456	119·3	355·0	− 6·3	46	299	
		6517	0·517	107·0	349·0	− 2·4	0	15	
			0·854	79·0	319·3	+13·1			250
Sept. 1				(+21·2)	(18·5)	(+7·2)	(400)	(2804)	(729)
245·691	CL, AS		0·959	252·9	73·4	−14·1			155
			0·871	283·6	63·9	+15·4			108
		6510	0·671	273·7	45·0	+ 7·8	9	91	
		6510	0·658	264·3	43·4	+ 1·7	0	12	
		6510	0·652	267·0	43·2	+ 3·5	8	45	
		6510	0·632	272·7	42·0	+ 7·3	0	6	
		6510	0·629	269·2	41·7	+ 5·1	4	130	
		6510	0·615	264·9	40·4	+ 2·6	9	285	
		6510	0·608	272·5	40·3	+ 7·3	9	75	
		6510	0·609	259·8	39·4	− 0·4	0	21	
		6510	0·590	263·2	38·4	+ 1·9	4	21	
		6510	0·580	269·1	38·2	+ 5·4	64	393	
		6510	0·576	275·3	38·0	+ 9·0	67	228	
		6510	0·551	277·8	36·3	+10·3	0	13	
		6510	0·546	268·7	35·8	+ 5·4	1	36	
		6510	0·509	275·3	33·4	+ 8·9	4	52	
		6510	0·505	267·5	33·0	+ 5·0	2	8	
G.		6510	0·501	271·4	32·9	+ 7·0	0	5	
		6510	0·480	267·5	31·4	+ 5·1	11	60	
		6510	0·478	277·9	31·3	+10·1	3	23	
		6510	0·453	273·5	29·7	+ 8·0	38	192	
		6510	0·438	278·0	28·7	+10·0	31	198	
		6510	0·425	268·1	27·9	+ 5·8	3	25	
		6511*a*	0·573	233·4	30·8	−13·6	53	344	
		6511	0·594	228·9	30·4	−16·6	4	21	
		6511*b*	0·557	226·9	27·6	−15·8	21	104	
		6513	0·336	315·8	17·2	+20·9	0	11	
		6518	0·144	3·8	2·1	+15·4	0	5	
		6518	0·105	9·2	1·7	+13·1	14	107	
		6518	0·155	34·7	357·5	+14·5	7	38	
		6517*a*	0·269	149·7	354·9	− 6·2	61	322	
		6517	0·279	131·4	350·6	− 3·6	0	6	
		6518*	0·422	61·4	339·8	+18·3	0	5	
		6518*	0·445	61·7	338·4	+18·7	0	5	
		6519*a*	0·992	96·2	280·8	− 5·2	59	353	85*p*
Sept. 2				(+21·5)	(2·7)	(+7·2)	(486)	(3240)	(348)

Group 6518*, September 2. A pair of very small faint spots, *nf* Group 6518.
Group 6519, September 2–15. Return of Group 6499. A very large regular spot, *a*, with occasionally a 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).
1908.				°	°	°			
246·103	FS, CL		0·928	283·4	66·2	+15·1			223
			0·802	258·7	49·1	− 4·6			150
			0·739	234·5	36·8	−19·9			284
			0·597	223·4	22·8	−19·2			105
		6510	0·749	273·9	45·9	+ 7·7	14	90	
		6510	0·739	276·4	45·1	+ 9·6	0	4	
		6510	0·726	274·6	44·0	+ 8·4	0	16	
		6510	0·726	268·3	43·7	+ 3·8	9	40	
		6510	0·712	271·2	42·7	+ 5·9	6	67	
		6510	0·705	273·2	42·2	+ 7·4	3	21	
		6510	0·700	269·4	41·6	+ 4·8	9	39	
		6510	0·694	264·6	40·7	+ 1·5	0	9	
		6510	0·685	273·1	40·6	+ 7·4	14	48	
		6510	0·687	266·9	40·4	+ 3·1	39	233	
		6510	0·681	274·9	40·4	+ 8·6	0	5	
		6510	0·681	271·3	40·2	+ 6·2	3	9	
		6510	0·679	269·5	40·0	+ 5·0	29	86	
		6510	0·670	264·4	38·9	+ 1·6	3	17	
		6510	0·658	275·5	38·6	+ 9·1	48	177	
		6510	0·657	273·1	38·5	+ 7·5	4	30	
		6510	0·648	270·7	37·7	+ 6·0	27	216	
		6510	0·646	278·4	37·6	+10·9	0	4	
		6510	0·638	274·6	37·0	+ 8·5	0	6	
		6510	0·639	267·8	36·8	+ 4·2	0	7	
		6510	0·625	270·4	36·0	+ 5·9	0	10	
D.		6510	0·621	277·6	35·8	+10·3	0	2	593c
		6510	0·609	271·8	34·9	+ 6·9	0	6	
		6510	0·591	275·6	33·6	+ 9·1	8	50	
		6510	0·584	269·7	33·0	+ 5·7	1	12	
		6510	0·570	277·5	32·1	+10·2	0	7	
		6510	0·564	270·6	31·6	+ 6·3	12	54	
		6510	0·556	271·6	31·1	+ 6·9	0	3	
		6510	0·553	276·4	30·9	+ 9·6	0	2	
		6510	0·537	274·0	29·8	+ 8·2	31	114	
		6510	0·536	278·0	29·7	+10·4	11	33	
		6510	0·538	266·1	29·6	+ 4·0	0	11	
		6510	0·532	270·2	29·4	+ 6·2	0	2	
		6510	0·532	283·4	29·2	+13·2	0	3	
		6510	0·524	279·7	28·8	+11·2	14	57	
		6510	0·522	269·3	28·7	+ 5·8	0	8	
		6510	0·512	275·7	28·1	+ 9·1	20	102	
		6510	0·506	280·7	27·6	+11·6	0	5	
		6510	0·499	270·2	27·2	+ 6·4	0	11	
		6510	0·493	278·2	26·8	+10·3	0	9	
		6510	0·494	266·2	26·7	+ 4·4	0	9	
		6510	0·474	276·3	25·6	+ 9·3	0	12	
		6511	0·679	235·4	32·8	−16·8	0	2	
		6511	0·662	235·4	31·6	−16·2	5	18	
		6511	0·666	233·9	31·3	−17·1	0	3	
		6511	0·614	244·3	31·2	− 9·5	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).
1908.				°	°	°			
246·103	FS, CL	6511a	0·638	238·2	31·0	−13·6	86	352	
		6511	0·646	234·8	30·3	−15·8	0	4	
		6511	0·645	232·2	29·3	−17·2	0	3	
		6511	0·628	231·0	27·8	−17·1	5	19	
		6511b	0·611	233·0	27·5	−15·3	6	54	
		6511	0·600	234·6	27·4	−14·1	0	13	
		6511	0·590	233·8	26·5	−14·1	0	6	
		6518	0·105	304·9	2·2	+10·6	0	1	
		6518	0·165	330·1	2·1	+15·4	0	5	
		6518	0·125	322·2	1·7	+12·8	21	90	
D.		6518	0·131	332·5	0·8	+13·8	5	24	
		6518	0·101	323·3	0·7	+11·9	1	7	
		6518	0·106	341·3	359·2	+13·0	2	25	
		6518	0·124	351·5	358·3	+14·2	1	12	
		6518	0·104	354·0	357·8	+13·1	0	3	
		6518	0·133	359·9	357·3	+14·8	2	13	
		6518	0·124	9·1	356·0	+14·2	1	7	
		6517a	0·241	170·3	354·9	− 6·5	65	309	
		6519a	0·982	97·3	279·2	− 5·8	128	471	321c
			0·908	84·5	291·6	+ 8·0			140
Sept. 3				(+21·6)	(357·2)	(+7·2)	(633)	(3090)	(1816)
247·126	AS, CL		0·933	288·8	53·7	+20·1			169
			0·866	259·1	42·3	− 5·7			89
			0·869	249·6	40·6	−13·8			113
			0·843	239·6	34·7	−20·8			279
			0·729	231·6	21·4	−21·2			385
		6510	0·892	274·8	47·3	+ 7·5	14	64	
		6510	0·887	276·6	46·8	+ 9·2	0	12	
		6510	0·875	275·1	45·2	+ 8·0	0	14	
		6510	0·874	273·0	44·9	+ 6·1	0	3	
		6510	0·868	270·3	44·0	+ 3·9	10	40	
		6510	0·869	268·1	43·9	+ 1·9	0	5	
		6510	0·858	272·8	43·1	+ 6·1	11	104	
		6510	0·849	269·7	41·9	+ 3·6	8	59	
		6510	0·835	274·6	40·7	+ 7·8	8	49	
D.		6510	0·829	275·6	40·1	+ 8·7	4	17	
		6510	0·829	273·2	39·9	+ 6·7	3	20	1416c
		6510	0·828	269·7	39·7	+ 3·9	46	211	
		6510	0·827	272·0	39·7	+ 5·8	2	6	
		6510	0·816	276·2	38·8	+ 9·2	39	158	
		6510	0·817	267·5	38·4	+ 2·2	0	4	
		6510	0·811	273·9	38·3	+ 7·4	8	73	
		6510	0·808	272·0	37·8	+ 5·9	26	151	
		6510	0·781	276·0	35·5	+ 9·2	20	77	
		6510	0·762	276·6	33·8	+ 9·8	7	21	
		6510	0·764	270·9	33·7	+ 5·4	2	14	
		6510	0·751	271·9	32·6	+ 6·2	8	35	
		6510	0·749	276·1	32·6	+ 9·3	0	8	

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).
1908.				°	°	°			
247·126	AS, CL	6510	0·742	277·4	32·0	+10·3	3	8	
		6510	0·734	272·8	31·2	+ 6·9	0	6	
		6510	0·732	275·0	31·1	+ 8·6	7	28	
		6510	0·735	268·4	31·0	+ 3·7	0	3	
		6510	0·729	276·1	30·9	+ 9·3	6	36	
		6510	0·727	277·6	30·7	+10·4	1	11	
		6510	0·717	280·5	29·9	+12·6	0	22	
		6510	0·715	274·2	29·7	+ 8·1	24	99	
		6510	0·711	269·7	29·1	+ 4·8	0	13	
		6510	0·705	278·1	28·9	+10·8	22	121	
		6510	0·700	275·5	28·5	+ 9·0	19	108	
		6510	0·699	272·5	28·3	+ 6·9	0	11	
		6511	0·805	245·3	32·8	−15·0	13	70	
		6511	0·795	244·1	31·6	−15·6	0	4	
		6511*a*	0·781	246·3	30·9	−13·4	70	340	
		6511	0·788	241·4	30·0	−17·2	0	13	
		6511	0·774	242·6	29·2	−15·8	6	18	
		6511	0·754	246·8	28·8	−12·2	0	2	378*c*
		6511	0·769	240·1	27·9	−17·4	4	12	
D.		6511	0·756	241·8	27·4	−15·7	1	9	
		6511	0·742	243·5	26·8	−14·1	10	48	
		6511	0·728	243·2	25·6	−13·8	0	5	
		6518	0·349	293·1	3·1	+14·7	0	2	
		6518	0·323	289·1	2·0	+12·9	24	76	
		6518	0·322	292·9	1·5	+14·1	1	10	
		6518	0·315	290·6	1·4	+13·2	0	4	
		6518	0·290	292·8	359·7	+13·4	12	93	
		6518	0·288	297·2	359·1	+14·5	0	5	
		6518	0·294	302·7	358·7	+16·1	0	6	
		6518	0·282	307·3	357·3	+16·8	0	2	
		6517*a*	0·303	219·7	355·0	− 6·4	65	299	
		6519*a*	0·909	99·9	279·8	− 5·9	123	499	
		6519	0·929	98·3	276·7	− 5·0	0	7	342*c*
		6520*a*	0·989	77·9	261·2	+13·0	0	15	161*c*
			0·902	112·3	283·5	−16·5			155
			0·924	83·3	275·8	+ 8·9			210
			0·959	98·7	271·6	− 6·2			584
Sept. 4				(+21·9)	(343·8)	(+7·2)	(627)	(3150)	(4281)
248·455	FS, CL		0·798	290·2	19·0	+20·4			137
		6510	0·985	277·1	46·9	+ 8·2	0	107	
		6510	0·972	272·9	42·8	+ 4·6	0	84	
		6510	0·963	275·1	41·1	+ 6·9	26	255	
		6510	0·950	272·7	38·2	+ 4·8	23	233	
G.		6510	0·943	277·0	37·3	+ 9·0	49	268	1435*c*
		6510	0·910	276·9	32·2	+ 9·2	20	144	
		6510	0·907	273·1	31·6	+ 5·9	0	33	
		6510	0·894	274·7	29·9	+ 7·5	5	60	
		6510	0·878	278·7	28·1	+11·0	15	138	

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).
1908.				°	°	°			
248·455	FS, CL	6510	0·877	276·2	27·9	+ 8·9	39	140	
		6511	0·943	251·2	33·5	−15·0	11	60	
		6511*a*	0·923	252·1	30·5	−13·4	73	336	462*f*
		6511	0·896	250·2	26·4	−14·2	0	21	
		6511*	0·697	247·6	6·9	−10·0	0	7	
		6511*	0·669	245·4	4·3	−10·5	0	6	
G.		6518	0·574	281·8	1·2	+12·7	15	48	
		6518	0·548	283·1	359·3	+13·2	3	18	58*c*
		6517*a*	0·531	245·1	355·1	− 6·6	56	305	
		6519*a*	0·747	104·4	279·7	− 5·8	100	527	410*f*
		6520*a*	0·881	77·7	263·8	+14·3	19	80	
		6522	0·926	76·9	257·5	+14·9	0	56	296*c*
Sept. 5				(+22·2)	(326·2)	(+7·2)	(454)	(2926)	(2798)
249·537	AS, CL		0·945	243·5	17·6	−22·1			215
			0·884	287·6	14·6	+18·9			202
			0·838	274·8	9·1	+ 8·0			152
		6510	0·989	278·1	34·1	+ 9·1	0	194	
		6510	0·965	279·4	27·5	+10·9	0	36	1090*c*
		6511*a*	0·986	254·8	29·9	−13·6	55	394	525*f*
		6511*	0·854	253·9	8·0	− 9·7	2	8	146*c*
		6518	0·757	280·7	1·4	+12·8	5	22	159*f*
G.		6517*a*	0·711	253·2	355·0	− 6·6	49	300	125*c*
		6519*a*	0·572	111·2	279·6	− 5·8	87	490	
		6521	0·660	106·0	272·5	− 5·0	0	9	295*f*
		6520*a*	0·733	77·3	264·6	+14·2	33	245	
		6522	0·766	77·9	261·6	+13·9	7	42	
		6522	0·796	78·8	258·8	+13·3	6	47	342*c*
		6522	0·820	76·4	256·4	+15·3	4	23	
			0·904	109·2	250·5	−13·9			165
			0·937	72·0	241·4	+19·0			202
Sept. 6				(+22·5)	(311·9)	(+7·2)	(248)	(1810)	(3618)
250·412	FS, AS		0·959	286·7	15·1	+18·0			411
			0·966	245·5	11·0	−21·4			158
		6511*	0·942	257·0	8·7	− 9·6	0	10	215*c*
		6518	0·873	280·8	1·8	+13·0	0	19	440*c*
		6517	0·872	262·0	0·1	− 3·3	0	8	
		6517*a*	0·833	257·3	355·0	− 6·4	48	290	257*f*
		6523*a*	0·275	81·3	284·5	+ 9·3	7	37	
G.		6523	0·292	78·3	283·6	+10·3	0	4	
		6523	0·310	82·8	282·3	+ 9·1	0	2	
		6523*b*	0·336	87·2	280·7	+ 7·7	14	63	
		6519	0·374	121·3	281·8	− 4·4	0	13	
		6519*a*	0·411	121·1	279·8	− 5·5	118	511	
		6519	0·408	114·5	278·7	− 3·0	0	10	
		6521	0·499	111·7	272·8	− 4·2	0	36	
		6520*a*	0·585	75·7	264·8	+14·2	76	390	

Group 6520, September 4–16. A small spot, *a*, rapidly developing into a very large regular spot.
Group 6511*, September 5–7. One or two very small unstable spots, *nf* Group 6511.
Group 6522, September 5–16. A few small spots at first, developing into a fine, very compact stream of many small spots, closely following Group 6520, and forming a train to it. The two groups were visible to the naked eye as a single stream.
Group 6521, September 6–11. Some small unstable spots. *f* Group 6519, and forming a feeble train to it.
Group 6523, September 7–10. An irregular stream suddenly appearing, *p* Group 6519. The first and last spots, *a* and *b*, are the two chief members. Only *b* remains on September 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).
1908.				°	°	°			
250·412	FS, AS	6522	0·644	74·9	260·3	+15·2	0	15	
		6522	0·643	78·0	260·3	+13·2	0	6	
		6522	0·665	77·5	258·6	+13·7	19	115	
G.		6522	0·676	75·5	257·9	+15·1	0	10	
		6522	0·692	77·0	256·5	+14·2	0	23	
			0·850	70·9	241·9	+20·0			145
			0·915	114·9	239·0	−19·3			319
Sept. 7				(+22·7)	(300·4)	(+7·2)	(282)	(1562)	(1945)
251·476	FS, CL		0·949	283·9	358·9	+15·4			408
		6517*a*	0·940	260·5	354·9	− 6·4	34	325	428*f*
		6523*a*	0·040	9·3	285·9	+ 9·5	10	25	
		6523	0·056	30·4	284·7	+10·0	1	10	
		6523	0·081	67·3	282·0	+ 9·0	0	5	
		6523*b*	0·099	83·9	280·6	+ 7·8	17	84	
		6519*a*	0·250	152·8	279·7	− 5·7	96	496	
		6519	0·238	140·5	277·6	− 3·4	0	5	
		6519	0·263	144·3	277·5	− 5·2	0	7	
		6521	0·286	132·7	274·2	− 4·2	0	22	
G.		6521	0·317	130·5	272·4	− 4·8	0	6	
		6520*a*	0·350	70·8	266·5	+13·4	85	425	
		6522	0·397	70·7	263·7	+14·2	3	21	
		6522	0·422	68·8	262·3	+15·4	3	8	
		6522	0·427	71·9	261·7	+14·1	7	63	
		6522	0·454	73·0	259·8	+14·1	1	7	
		6522	0·483	73·4	257·9	+14·3	22	171	
		6522	0·505	71·0	256·7	+15·7	3	37	
		6524*a*	0·815	112·7	235·7	−13·8	12	43	} 159*c*
		6524*b*	0·839	111·5	233·0	−13·6	4	35	
Sept. 8				(+22·9)	(286·3)	(+7·2)	(298)	(1795)	(995)
252·414	FS, AS	6517*a*	0·989	262·3	354·3	− 6·5	47	349	533*f*
		6523*a*	0·257	277·3	288·8	+ 8·8	0	11	
		6523	0·215	278·8	286·3	+ 8·9	0	8	
		6523*b*	0·122	275·7	280·9	+ 7·8	7	50	
		6519*a*	0·244	204·4	279·7	− 5·6	92	519	
		6519	0·194	198·3	277·4	− 3·4	0	5	
		6521	0·203	177·1	273·3	− 4·4	0	25	
		6521	0·204	161·0	270·1	− 3·9	0	5	
G.		6521	0·206	153·3	268·6	− 3·4	0	15	
		6520*a*	0·130	51·8	267·9	+11·7	94	421	
		6522	0·164	51·4	266·4	+13·0	2	20	
		6522	0·168	60·3	265·4	+11·9	3	12	
		6522	0·166	65·9	265·1	+11·0	0	16	
		6522	0·200	51·3	264·7	+14·3	4	30	
		6522	0·202	62·8	263·3	+12·4	0	10	
		6522	0·228	57·5	262·5	+14·1	7	51	
		6522	0·228	64·0	261·8	+12·8	1	15	
1908.				°	°	°			
252·414	FS, AS	6522	0·257	55·3	261·3	+15·4	0	12	
		6522	0·250	62·7	260·7	+13·6	0	3	
		6522	0·281	62·2	259·1	+14·4	2	23	
		6522	0·307	64·1	257·4	+14·6	15	79	
		6522	0·321	58·9	257·3	+16·5	9	53	
		6522	0·343	62·8	255·5	+15·9	3	25	
		6524*	0·625	128·6	243·4	−16·7	3	14	69*c*
G.		6524*a*	0·682	118·9	236·1	−13·6	13	82	} 208*c*
		6524	0·713	116·8	233·2	−13·3	0	13	
		6524*b*	0·727	116·9	232·2	−13·8	19	72	
			0·805	129·1	230·3	−25·3			174
			0·804	106·4	222·8	− 8·6			149
			0·902	115·9	214·6	−19·6			286
			0·948	102·3	204·4	− 9·2			284
Sept. 9				(+23·1)	(273·9)	(+7·2)	(321)	(1938)	(1703)
253·411	CL, AS		0·873	254·8	319·2	− 9·5			90
		6523*b*	0·350	273·1	281·4	+ 7·9	1	15	
		6519*a*	0·390	236·5	279·8	− 5·6	86	471	
		6519	0·352	241·9	278·8	− 2·7	0	4	
		6519	0·348	236·4	277·6	− 4·2	2	16	
		6521	0·309	228·4	274·1	− 4·8	0	6	
		6521	0·308	222·3	272·8	− 6·1	0	15	
		6520*a*	0·164	296·5	269·4	+11·3	94	588	
		6522	0·142	311·4	267·0	+12·6	3	10	
		6522	0·122	306·1	266·5	+11·3	2	19	
		6522	0·098	316·8	264·7	+11·3	0	8	
		6522	0·123	336·7	263·7	+13·7	16	170	
		6522	0·105	354·1	261·4	+13·2	2	14	
G.		6522	0·150	357·6	261·2	+15·8	0	5	
		6522	0·150	5·9	259·9	+15·7	2	14	
		6522	0·167	11·9	258·7	+16·6	0	7	
		6522	0·140	19·0	258·1	+14·8	8	41	
		6522	0·178	18·6	257·4	+16·9	4	15	
		6522	0·182	24·4	256·3	+16·7	0	30	
		6524*a*	0·523	130·1	236·6	−13·1	20	90	
		6524*b*	0·578	126·1	232·2	−13·6	12	85	
		6525*a*	0·980	94·3	183·0	− 2·7	35	207	230*np*
			0·802	95·8	208·1	− 0·3			118
			0·863	120·3	207·8	−21·5			133
			0·933	107·2	194·8	−13·1			748
Sept. 10				(+23·3)	(260·8)	(+7·2)	(287)	(1830)	(1319)
254·105	AS, CL		0·922	264·0	318·0	− 2·7			150
		6519*a*	0·513	246·4	279·7	− 5·5	87	498	
D.		6519	0·471	247·6	277·4	− 3·8	0	24	
		6519	0·480	241·6	276·7	− 6·7	0	4	
		6521	0·414	238·3	272·2	− 5·8	0	11	

Group 6524, September 8–18. Some small unstable spots in a short stream. The largest and most stable spots are lettered *a*, *b*, and *c*. The leading portion of the group soon dies out, and new spots form in the rear.
Group 6524*, September 9. A small spot. *sp* Group 6524.
Group 6525, September 10–22. A large regular spot, *a*, frequently with some 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).
1908.				°	°	°			
254·105	AS, CL	6520	0·329	276·5	270·8	+ 8·9	1	35	
		6520*a*	0·330	284·4	270·6	+11·5	117	495	
		6520	0·295	277·8	268·7	+ 9·2	0	6	
		6522	0·283	290·0	267·3	+12·5	23	128	
		6522	0·264	285·0	266·6	+10·9	28	157	
		6522	0·236	292·7	264·4	+12·3	3	9	
D.		6522	0·229	300·1	263·3	+13·6	26	213	
		6522	0·194	301·3	261·3	+12·9	2	9	
		6522	0·197	311·2	260·4	+14·6	0	8	
		6522	0·174	323·8	257·7	+15·2	0	14	
		6522	0·188	334·5	256·4	+16·9	0	17	
		6524*a*	0·432	143·5	236·4	−13·3	16	63	
		6524*b*	0·480	136·8	231·9	−13·7	12	72	
		6525*a*	0·944	95·9	181·7	− 3·1	40	218	248*f*
			0·869	83·7	190·8	+ 9·0			112
			0·903	110·6	190·7	−15·1			699
			0·934	71·8	181·6	+19·5			201
Sept. 11				(+23·4)	(251·6)	(+7·2)	(355)	(1981)	(1410)
255·427	FS, CL		0·779	276·7	285·6	+ 9·8			226
		6519*a*	0·732	255·6	279·3	− 5·4	88	512	} 321*c*
		6519	0·703	252·0	276·3	− 7·3	3	56	
		6520*a*	0·592	278·9	270·5	+11·1	123	658	
		6520	0·570	275·4	269·0	+ 9·0	0	19	
		6522	0·532	280·6	266·2	+11·7	24	252	
		6522	0·516	284·9	264·9	+13·8	3	13	
		6522	0·477	285·2	262·2	+13·6	25	134	
		6522	0·464	289·4	261·0	+15·3	0	10	
G.		6522	0·402	287·0	257·3	+13·4	0	23	
		6522	0·415	294·4	257·2	+16·5	0	12	
		6524*a*	0·342	186·6	236·4	−12·6	3	15	
		6524*b*	0·352	175·0	232·3	−13·3	10	36	
		6525*a*	0·797	99·3	182·3	− 2·9	39	232	470*nf*
			0·782	116·9	187·8	−15·8			699
			0·771	68·3	184·1	+21·2			156
			0·892	76·0	170·3	+15·7			155
			0·943	103·2	165·6	− 9·9			114
Sept. 12				(+23·7)	(234·1)	(+7·2)	(318)	(1972)	(2141)
256·461	AS, CL		0·886	276·7	283·3	+ 9·3			240
			0·855	241·9	273·5	−19·5			114
		6519*a*	0·870	259·8	279·6	− 5·2	76	531	} 494*f*
		6519	0·845	256·8	276·3	− 7·1	0	29	
G.		6520*a*	0·765	278·6	270·8	+11·2	126	664	266*c*
		6522	0·731	279·4	267·8	+11·8	0	16	
		6522	0·715	278·5	266·4	+11·1	0	14	
		6522	0·715	281·6	266·3	+13·3	3	24	
		6522	0·702	279·8	265·3	+12·0	16	83	
1908.				°	°	°			
256·461	AS, CL	6522	0·686	281·7	264·0	+13·3	6	41	
		6522	0·667	282·4	262·4	+13·7	0	8	
		6522	0·650	283·0	261·1	+14·0	6	56	
		6522*b*	0·610	287·7	257·6	+16·5	0	15	
		6524	0·404	210·9	232·7	−13·1	3	15	
G.		6524	0·370	203·7	229·2	−12·6	0	4	
		6524	0·354	197·6	226·8	−12·5	0	9	
		6525*a*	0·631	103·6	182·8	− 2·9	38	236	
			0·692	124·3	183·9	−17·2			375
			0·694	99·9	177·5	− 1·6			131
Sept. 13				(+23·8)	(220·5)	(+7·2)	(274)	(1745)	(1620)
257·528	FS, AS		0·967	275·9	282·1	+ 7·5			251
			0·937	243·4	270·7	−21·9			134
		6519*a*	0·965	262·4	280·1	− 5·4	78	487	600*sf*
		6520*a*	0·899	278·8	271·0	+11·0	99	614	836*c*
		6522	0·882	276·3	268·8	+ 9·0	1	21	
		6522	0·874	279·2	267·9	+11·5	0	8	
		6522	0·860	280·0	266·3	+12·3	9	76	
		6522	0·852	281·2	265·3	+13·3	0	17	
		6522	0·817	282·5	261·6	+14·4	7	82	
		6524*c*	0·511	230·8	230·2	−12·2	16	47	
G.		6524	0·497	227·9	228·5	−12·7	1	7	
		6524	0·462	225·6	226·0	−12·0	0	12	
		6525	0·401	112·5	184·7	− 2·1	0	4	
		6525*a*	0·428	111·7	183·0	− 2·5	46	236	
		6525	0·450	113·9	182·2	− 3·9	0	3	
		6526*a*	0·970	83·1	129·8	+ 8·5	38	429	} 391*c*
		6526	0·987	82·3	124·9	+ 8·8	0	168	
			0·850	102·6	149·9	− 6·8			312
			0·942	113·1	140·3	−18·9			296
			0·975	100·8	130·9	− 8·8			287
Sept. 14				(+24·0)	(206·4)	(+7·2)	(295)	(2211)	(3107)
258·087	FS, CL		0·933	259·9	266·4	− 6·7			100
			0·824	244·2	249·5	−16·5			118
		6519*a*	0·989	264·0	279·5	− 4·8	88	367	345*f*
		6520*a*	0·945	279·8	270·7	+11·6	139	608	714*c*
		6522	0·917	280·6	266·2	+12·6	11	70	
		6522	0·911	282·3	265·4	+14·1	0	12	
		6522	0·887	282·4	262·1	+14·3	7	55	
D.		6524*c*	0·615	240·0	231·8	−11·9	12	52	
		6524	0·595	235·1	229·0	−13·7	0	7	
		6524	0·573	238·3	228·7	−11·3	0	7	
		6524	0·562	235·3	227·1	−12·3	5	28	
		6525	0·301	120·9	184·1	− 1·9	0	8	
		6525*a*	0·324	121·0	182·9	− 2·7	54	238	
		6525	0·361	126·1	182·0	− 5·4	0	3	
		6526*a*	0·928	84·5	130·5	+ 7·8	83	414	

Group 6526, September 14–26. A compact stream of which the chief members are two large composite spots, *a* and *b*. The latter breaks up before September 19, and soon disappears.

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).
1908.				°	°	°			
258·087	FS, CL	6526	0·953	84·9	126·2	+ 7·1	18	120	313c
		6526	0·957	83·2	125·3	+ 8·6	0	70	
D.			0·876	107·9	140·8	−11·9			391
Sept. 15				(+24·1)	(199·0)	(+7·2)	(417)	(2059)	(1981)
259·140	AS, CL		0·917	287·0	252·4	+18·4			139
			0·892	245·7	243·5	−17·8			147
			0·860	233·7	235·5	−26·1			98
		6520a	0·994	281·3	270·1	+12·0	186	578	1118f
		6522	0·984	281·6	265·9	+12·7	0	98	
		6524c	0·779	248·7	232·7	−11·6	8	43	214p
		6524	0·718	246·1	227·0	−11·6	3	17	120c
		6524	0·720	244·6	226·7	−12·6	0	26	
D.		6525a	0·175	168·5	183·1	− 2·7	39	215	
		6526a	0·810	85·5	130·7	+ 7·9	70	416	
		6526	0·827	88·1	129·2	+ 5·6	0	4	261c
		6526b	0·856	85·2	125·9	+ 7·8	36	304	
			0·797	122·7	139·5	−20·5			212
			0·882	103·7	125·3	− 8·5			400
			0·919	113·2	122·6	−18·0			267
Sept. 16				(+24·3)	(185·1)	(+7·2)	(342)	(1701)	(2976)
260·627	FS, CL		0·915	241·6	225·8	−22·4			151
		6524c	0·942	255·1	233·5	−11·4	3	42	
		6524	0·930	254·0	231·3	−12·0	6	25	557c
		6524	0·901	254·4	227·3	−10·7	5	22	
		6524	0·895	251·2	225·8	−13·3	0	16	
		6527a	0·770	242·1	210·5	−16·2	24	59	
		6527	0·761	240·7	209·2	−16·8	0	6	98c
		6527	0·736	241·2	207·4	−15·5	0	19	
		6527	0·741	238·9	207·0	−17·2	3	11	
		6527*	0·574	231·0	192·9	−14·9	0	6	
G.		6525a	0·348	242·0	183·3	− 2·6	43	235	
		6525	0·289	243·3	180·4	− 0·6	0	3	
		6525	0·299	238·5	180·2	− 2·1	0	4	
		6526a	0·570	85·7	130·6	+ 8·3	59	505	
		6526	0·595	89·1	128·9	+ 6·3	3	25	195c
		6526b	0·635	84·8	125·9	+ 8·8	47	319	
		6528	0·915	108·3	102·3	−13·6	0	17	554c
			0·742	122·4	124·4	−18·1			236
			0·795	107·8	115·6	− 9·6			154
			0·875	74·2	100·9	+17·2			387
Sept. 17				(+24·6)	(165·5)	(+7·1)	(193)	(1314)	(2332)
261·415	FS, AS		0·948	243·8	221·5	−22·0			137
G.			0·717	243·6	196·2	−13·3			176
			0·694	228·6	189·0	−21·4			155
1908.				°	°	°			
261·415	FS, AS	6524c	0·982	257·1	232·2	−11·1	0	55	621sf
		6527a	0·866	246·6	210·8	−16·2	13	108	
		6527	0·830	245·7	206·7	−15·6	0	19	176c
		6527	0·835	244·0	206·7	−17·1	0	9	
		6525a	0·497	252·3	183·3	− 2·4	34	220	
		6526a	0·412	85·2	130·7	+ 8·5	57	379	
		6526	0·439	90·0	129·0	+ 6·4	7	52	
		6526	0·450	87·3	128·3	+ 7·5	0	10	
		6526b	0·483	84·2	126·1	+ 9·0	53	336	
G.		6528	0·837	111·5	102·0	−13·7	0	11	
		6529a	0·891	107·3	94·9	−11·9	10	57	508c
		6529	0·910	108·8	92·8	−13·8	6	66	
		6530a	0·978	75·0	75·9	+16·1	22	121	243c
			0·734	131·7	118·5	−23·5			99
			0·816	72·9	100·2	+18·0			172
			0·889	122·7	99·8	−24·8			153
			0·845	85·7	97·1	+ 7·5			153
Sept. 18				(+24·7)	(155·1)	(+7·1)	(202)	(1443)	(2593)
262·507	CL, AS		0·951	230·9	203·1	−33·7			122
			0·774	234·5	183·2	−21·5			435
		6527	0·963	250·9	211·9	−16·2	9	58	265f
		6531	0·877	249·2	198·3	−14·4	0	13	567c
		6531	0·847	246·7	194·3	−15·4	0	8	
		6525a	0·696	259·1	183·7	− 2·4	24	215	97c
		6526a	0·167	80·0	131·2	+ 8·7	43	343	
		6526	0·183	94·7	130·2	+ 6·2	1	10	
		6526	0·205	76·8	129·1	+ 9·6	0	36	
		6526	0·234	82·5	127·2	+ 8·6	19	140	
G.		6526	0·261	78·2	125·7	+ 9·9	8	67	
		6528	0·697	118·4	101·7	−13·8	0	7	
		6529a	0·741	113·7	96·9	−12·3	13	89	454c
		6529	0·790	114·3	92·9	−14·3	4	27	
		6532a	0·727	88·6	94·0	+ 5·9	3	16	105c
		6532b	0·752	86·9	91·7	+ 7·0	2	13	
		6530a	0·899	75·5	75·9	+16·2	20	101	477f
			0·871	125·5	88·7	−26·1			179
			0·882	103·3	80·8	− 8·2			124
Sept. 19				(+24·9)	(140·7)	(+7·1)	(146)	(1143)	(2825)
263·527	FS, CL		0·904	247·8	187·9	−16·6			764
		6525a	0·841	262·7	183·6	− 2·3	28	195	140nf
		6526a	0·072	293·8	131·0	+ 8·8	31	336	
		6526	0·063	343·7	128·2	+10·6	0	4	
G.		6526	0·034	352·3	127·5	+ 9·1	20	99	
		6526	0·054	15·1	126·4	+10·1	0	12	
		6526	0·035	37·7	126·0	+ 8·7	0	5	
		6526	0·066	28·9	125·3	+10·4	19	51	

Group 6527, September 17–19. A few unstable spots in an irregular stream. The leader, *a*, is the largest and most stable member.
Group 6527*, September 17. A very small cluster, *nf* Group 6527.
Group 6528, September 17–26. A small spot. The group is not seen from September 20 to September 25 inclusive.
Group 6529, September 18–27. A regular spot, *a*, followed by a short train.
Group 6530, September 18–25. A regular spot, *a*, usually with one or two small companions.
Group 6531, September 19. Two small spots.
Group 6532, September 19–20. Two small spots, *a* and *b*.

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).
1908.				°	°	°			
263·527	FS, CL	6529*a*	0·576	123·0	97·7	−12·1	13	107	
		6529	0·656	122·2	92·3	−14·6	0	10	
		6532*a*	0·543	90·9	94·3	+ 5·5	4	15	} 54*c*
G.		6532*b*	0·580	88·6	91·6	+ 6·6	0	9	
		6530*a*	0·779	74·8	75·8	+16·3	15	94	} 216*f*
		6530	0·803	74·8	73·5	+16·4	0	20	
		6533	0·993	81·1	43·3	+ 9·6	0	182	529*p*
Sept. 20				(+25·0)	(127·2)	(+7·1)	(130)	(1139)	(1703)
264·147	FS, CL		0·938	248·1	184·8	−17·7			555
			0·903	290·5	184·1	+21·5			161
			0·892	278·5	182·7	+10·8			232
			0·880	268·2	180·4	+ 1·9			267
			0·842	255·9	174·3	− 7·8			102
		6525*a*	0·913	264·8	184·2	− 1·8	27	183	168*c*
		6526*a*	0·209	280·3	131·0	+ 9·1	39	291	
		6526	0·201	269·3	130·6	+ 6·9	0	3	
		6526	0·174	290·3	128·5	+10·5	6	41	
		6526	0·163	275·3	128·4	+ 7·9	0	3	
		6526	0·152	283·5	127·6	+ 9·1	7	69	
		6526	0·154	293·9	127·2	+10·6	0	20	
D.		6526	0·122	286·3	125·8	+ 9·1	2	15	
		6526	0·124	299·7	125·3	+10·6	9	54	
		6529*a*	0·480	132·8	98·0	−12·3	15	133	
		6529	0·535	132·0	94·9	−14·4	0	5	
		6529	0·562	129·5	92·5	−14·6	0	9	
		6530*a*	0·695	74·2	75·1	+16·0	11	72	} 325*f*
		6530	0·721	74·3	72·9	+16·2	0	5	
		6533	0·938	85·5	48·9	+ 6·7	3	35	
		6533	0·952	83·4	46·3	+ 8·4	0	14	
		6533	0·967	83·6	43·2	+ 8·0	0	34	} 1368*c*
		6533	0·970	82·1	42·3	+ 9·4	14	104	
		6533	0·973	85·1	42·0	+ 6·4	0	19	
			0·938	99·9	50·7	− 6·7			269
Sept. 21				(+25·1)	(119·0)	(+7·1)	(133)	(1109)	(3447)
265·097	FS, AS		0·920	280·9	174·1	+12·7			196
			0·866	236·1	158·6	−24·7			122
		6525*a*	0·979	266·6	184·2	− 1·9	21	139	254*f*
		6526*a*	0·413	276·4	131·0	+ 9·1	46	294	
		6526	0·388	281·4	129·2	+10·9	4	22	
		6526	0·359	277·3	127·6	+ 9·2	2	26	
D.		6526	0·359	280·3	127·4	+10·2	2	21	
		6526	0·331	276·9	125·8	+ 8·9	0	14	
		6256	0·329	282·9	125·5	+10·9	7	38	
		6529*a*	0·358	158·0	98·6	−12·4	16	132	
		6529	0·348	153·2	97·3	−11·1	0	8	
		6530*a*	0·534	70·9	75·0	+16·0	9	53	
1908.				°	°	°			
265·097	FS, AS	6530	0·565	72·6	72·6	+15·6	0	22	
		6534*a*	0·811	85·5	52·0	+ 7·8	13	97	
		6533	0·862	86·4	46·7	+ 6·7	0	60	
		6533	0·862	84·0	46·6	+ 8·7	3	37	1139*c*
		6533	0·891	83·4	43·0	+ 9·1	29	169	
D.			0·840	97·2	50·2	− 2·1			162
			0·946	106·8	38·1	−13·4			220
			0·960	116·3	37·7	−22·8			215
			0·946	76·1	34·5	+15·4			490
			0·957	89·0	33·4	+ 3·1			756
Sept. 22				(+25·2)	(106·5)	(+7·0)	(152)	(1132)	(3554)
266·072	CL, AS		0·914	278·5	160·2	+10·6			183
			0·858	259·2	151·2	− 5·5			301
			0·823	239·0	142·3	−20·5			156
		6526*a*	0·603	276·3	130·8	+ 9·3	42	268	
		6526	0·571	278·6	128·5	+10·6	3	39	
		6526	0·532	277·5	125·8	+ 9·9	0	5	
		6526	0·530	275·5	125·7	+ 8·9	3	9	
		6526	0·526	279·7	125·4	+11·1	3	24	
		6529*a*	0·343	195·0	98·8	−12·3	18	129	
		6529	0·320	194·3	98·2	−11·0	0	7	
		6529	0·317	190·5	97·0	−11·1	0	8	
		6530*a*	0·352	62·4	74·7	+16·0	8	48	
D.		6530	0·386	65·3	72·3	+15·8	0	7	
		6534*a*	0·642	86·4	53·5	+ 7·7	17	103	218*c*
		6533	0·698	87·2	49·2	+ 7·0	0	3	
		6533	0·715	88·4	47·8	+ 6·0	3	17	
		6533	0·717	85·1	47·6	+ 8·4	2	10	} 727*c*
		6533	0·735	86·0	46·1	+ 7·7	26	167	
		6533	0·764	83·6	43·5	+ 9·4	34	200	
		6533	0·773	87·0	42·8	+ 6·8	3	24	
			0·829	113·2	41·8	−14·7			436
			0·876	91·0	32·6	+ 2·5			573
			0·920	103·3	28·7	− 9·3			182
			0·938	112·3	27·9	−18·1			395
			0·910	75·1	27·3	+16·5			692
Sept. 23				(+25·3)	(93·6)	(+7·0)	(162)	(1068)	(3863)
267·079	FS, AS		0·936	285·6	150·6	+17·0			187
			0·944	258·3	149·3	− 8·6			174
			0·900	242·3	138·8	−21·2			158
			0·786	253·0	129·6	− 8·7			162
			0·766	237·0	123·1	−19·5			104
D.		6526*a*	0·769	276·3	130·9	+ 9·3	30	231	} 318*c*
		6526	0·732	277·7	127·6	+10·4	0	11	
		6529	0·443	228·4	99·9	−10·5	2	8	
		6529*a*	0·453	223·0	98·7	−12·7	19	113	

Group 6533, September 20–October 2. Return of the preceding portion of Group 6510. A very fine compact cluster in constant change.
Group 6534, September 22–October 1. A regular spot, *a*, appearing suddenly, *p* Group 6533. Some small companions are sometimes seen near *a*.

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).
1908.				°	°	°			
267·079	FS, AS	6529	0·433	225·3	98·5	−11·0	2	9	
		6529	0·420	222·7	97·1	−11·2	4	20	
		6529	0·386	222·9	95·7	− 9·6	0	4	
		6530*a*	0·187	30·7	74·6	+16·2	4	14	
		6530	0·242	33·2	72·3	+18·6	0	5	
		6534	0·406	81·5	56·4	+ 9·8	0	11	
		6534*a*	0·433	85·7	54·5	+ 8·2	22	108	
		6533	0·532	88·5	48·1	+ 6·7	0	2	
		6533	0·551	91·7	46·9	+ 5·0	0	8	
D.		6533	0·558	88·7	46·3	+ 6·6	3	18	
		6533	0·560	85·4	46·1	+ 8·4	30	187	
		6533	0·571	89·3	45·4	+ 6·2	0	7	
		6533	0·586	80·0	44·3	+11·6	0	9	
		6533	0·588	85·7	44·1	+ 8·2	7	59	
		6533	0·595	83·3	43·6	+ 9·6	41	215	
		6533	0·600	87·2	43·3	+ 7·3	3	14	
		6533	0·621	87·0	41·8	+ 7·4	3	27	
		6533	0·622	79·3	41·8	+12·1	0	11	
		6533	0·627	81·0	41·3	+11·1	3	31	
		6533	0·639	83·8	40·4	+ 9·3	0	8	
		6535*a*	0·992	97·3	358·6	− 6·3	0	51	285*p*
			0·778	126·8	38·0	−22·6			416
			0·771	86·8	29·7	+ 7·0			1088
			0·873	117·6	25·1	−20·0			655
			0·890	67·5	17·1	+23·2			217
			0·923	110·3	16·4	−15·7			157
			0·934	78·8	10·5	+13·0			292
Sept. 24				(+25·5)	(80·3)	(+7·0)	(173)	(1181)	(4213)
268·165	AS, CL		0·905	258·8	129·2	− 7·0			201
			0·890	247·3	124·8	−16·6			102
			0·905	238·2	123·8	−24·9			78
		6526*	0·944	274·6	137·1	+ 6·6	23	116	} 238*c*
		6526*	0·918	273·7	132·9	+ 6·2	4	29	
		6526*a*	0·903	277·9	131·1	+10·1	22	141	568*f*
		6529	0·614	241·1	99·1	−11·5	1	12	
		6529*a*	0·619	239·5	99·0	−12·5	17	59	
		6529	0·597	241·6	98·2	−10·6	0	4	
		6529	0·589	239·7	97·1	−11·4	3	13	
D.		6530*a*	0·209	320·5	73·9	+16·1	2	14	
		6534*a*	0·187	81·8	55·3	+ 8·3	15	98	
		6533	0·363	84·1	44·7	+ 8·6	57	476	
		6533	0·400	76·8	42·7	+11·6	17	125	
		6533	0·433	88·1	40·3	+ 7·0	0	2	
		6536*	0·664	121·8	30·4	−14·9	3	10	97*c*
		6535*a*	0·945	99·7	356·5	− 6·8	10	55	175*c*
			0·792	124·7	21·6	−21·9			235
			0·794	108·4	16·3	−10·1			118
			0·796	84·7	13·0	+ 8·4			146
268·165	AS, CL		0·895	116·8	7·8	−20·3			173
			0·902	74·6	1·0	+16·8			140
D.			0·952	88·3	353·8	+ 3·7			250
			0·982	104·9	349·2	−13·1			244
Sept. 25				(+25·6)	(66·0)	(+6·9)	(174)	(1154)	(2765)
269·415	AS, CL		0·945	259·1	118·8	− 7·9			177
		6526*a*	0·984	278·8	130·0	+ 9·9	0	26	} 606*c*
		6526	0·965	279·7	125·0	+11·1	0	20	
		6528	0·856	249·7	104·9	−13·4	0	9	
		6529	0·819	249·6	101·1	−12·4	0	22	
		6529*a*	0·806	247·7	99·4	−13·4	0	39	
		6529	0·790	250·8	98·7	−10·6	0	6	} 401*c*
		6529	0·775	250·1	97·2	−10·7	0	6	
		6529	0·774	248·7	96·8	−11·7	4	26	
		6529	0·766	244·4	94·9	−14·5	0	5	
		6534	0·163	295·2	58·1	+10·9	0	8	
		6534*a*	0·112	280·3	55·9	+ 8·0	18	91	
		6534	0·100	263·0	55·2	+ 6·2	0	5	
		6534	0·106	305·7	54·5	+10·4	0	9	
		6534	0·090	290·1	54·4	+ 8·7	0	5	
G.		6533	0·061	30·1	47·7	+ 9·9	1	9	
		6533	0·040	74·1	47·3	+ 7·5	15	75	
		6533	0·081	40·2	46·5	+10·4	0	44	
		6533	0·068	89·9	45·6	+ 6·9	0	9	
		6533	0·092	52·5	45·3	+10·1	18	74	
		6533	0·118	45·5	44·6	+11·6	7	41	
		6533	0·090	75·0	44·5	+ 8·2	28	150	
		6533	0·136	56·1	42·9	+11·2	13	114	
		6533	0·125	72·6	42·6	+ 9·0	11	46	
		6533	0·155	76·6	40·8	+ 8·9	1	14	
		6536	0·544	124·0	22·2	−11·6	1	8	
		6536	0·563	121·1	20·2	−10·9	0	6	
		6535*a*	0·811	102·9	357·0	− 6·2	16	64	218*c*
			0·816	84·2	354·5	+ 8·8			241
Sept. 26				(+25·7)	(49·5)	(+6·9)	(133)	(931)	(1643)
270·081	FS, CL		0·904	281·4	106·0	+13·2			323
			0·791	273·5	93·2	+ 7·0			117
			0·840	245·0	93·2	−16·7			244
			0·814	234·0	86·6	−23·9			219
		6529	0·884	251·3	99·7	−13·0	0	6	} 345*c*
D.		6529	0·861	252·0	97·2	−11·7	4	17	
		6529	0·861	250·0	96·8	−13·4	0	8	
		6530	0·504	285·7	70·5	+13·7	0	5	
		6534*a*	0·266	275·8	56·1	+ 8·1	15	79	
		6534	0·257	270·7	55·6	+ 6·7	0	7	
		6534	0·233	274·5	54·2	+ 7·7	0	10	

Group 6535, September 24–October 3. Return of Group 6517. A regular spot, *a*, steadily diminishing in size. A small spot, *b*, is seen near it on October 2, and alone remains on October 3.
Group 6526*, September 25. A large double spot, *a*, followed by a short train, appearing suddenly when close to the West limb, *s* of Group 6526.
Group 6536*, September 25. A small spot, *sp*, the place of Group 6536.
Group 6536, September 26. A pair 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).
1908.				°	°	°			
270·081	FS, CL	6533	0·149	274·9	49·3	+ 7·5	0	8	
		6533	0·123	272·0	47·8	+ 7·0	0	2	
		6533	0·138	299·4	47·7	+10·6	0	3	
		6533	0·111	279·9	47·0	+ 7·9	11	36	
		6533	0·094	296·7	45·6	+ 9·2	52	317	
		6533	0·083	266·3	45·5	+ 6·5	0	3	
		6533	0·113	317·7	45·1	+11·6	6	27	
		6533	0·078	313·5	44·0	+ 9·9	1	9	
		6533	0·062	307·4	43·5	+ 8·9	0	4	
		6533	0·077	327·8	43·1	+10·5	7	34	
D.		6533	0·095	340·0	42·6	+11·9	7	41	
		6533	0·047	322·1	42·4	+ 8·9	3	24	
		6533	0·030	343·5	41·2	+ 8·4	0	16	
		6533	0·051	350·3	41·2	+ 9·7	0	8	
		6533	0·061	14·9	39·8	+10·2	0	6	
		6535*a*	0·719	106·2	356·8	− 6·7	9	50	246*s*
			0·687	69·4	358·0	+19·0			115
			0·798	115·7	352·5	−15·7			357
			0·748	91·8	352·4	+ 3·2			234
			0·867	72·6	340·2	+18·4			215
			0·944	87·7	329·9	+ 4·5			199
Sept. 27				(+25·8)	(40·7)	(+6·8)	(115)	(720)	(2614)
271·610	FS, AS		0·976	255·8	95·8	−12·2			656
			0·955	242·7	88·0	−23·5			175
			0·924	232·5	78·8	−30·7			227
			0·752	284·5	69·3	+15·3			283
			0·789	200·1	41·6	−41·4			124
		6534*a*	0·587	273·4	56·6	− 7·5	20	113	145*c*
		6533	0·504	269·8	50·8	+ 5·8	0	28	
		6533	0·482	276·6	49·4	+ 9·2	0	20	
		6533	0·451	273·6	47·4	+ 7·7	3	19	
		6533	0·440	278·6	46·6	+ 9·9	52	315	
G.		6533	0·405	275·0	44·4	+ 8·2	0	13	
		6533	0·393	279·9	43·6	+10·2	0	18	
		6533	0·372	278·0	42·3	+ 9·3	9	31	
		6533	0·341	278·7	40·4	+ 9·3	0	27	
		6533*	0·210	263·2	32·5	+ 5·2	0	11	
		6533*	0·194	270·2	31·7	+ 6·7	0	13	
		6535*a*	0·453	119·4	357·2	− 6·6	8	38	
		6535*	0·662	65·3	340·5	+21·3	0	16	
		6537	0·920	105·9	316·1	−11·7	0	10	} 463*c*
		6537*a*	0·938	105·9	313·3	−12·3	30	173	
			0·954	88·0	307·9	+ 4·0			173
Sept. 28				(+25·9)	(20·5)	(+6·8)	(122)	(845)	(2246)
272·509	FS, CL		0·875	282·4	70·2	+14·1			252
G.		6534*a*	0·744	273·8	56·9	+ 7·3	14	99	92*n*
1908.				°	°	°			
272·509	FS, CL	6533	0·645	278·4	49·0	+10·5	0	12	
		6533	0·644	275·5	48·9	+ 8·7	0	9	
		6533	0·633	277·0	48·1	+ 9·6	18	103	
		6533	0·619	274·4	47·1	+ 8·0	0	14	
		6533	0·609	279·6	46·3	+11·1	1	21	
		6533	0·605	276·3	46·1	+ 9·2	13	72	
		6533	0·584	276·6	44·5	+ 9·3	0	19	
		6533	0·582	278·7	44·4	+10·5	2	19	
G.		6533	0·558	276·4	42·7	+ 9·2	4	21	
		6533	0·541	276·1	41·5	+ 8·9	0	29	
		6533†	0·465	260·6	35·9	+ 1·6	0	3	
		6535*a*	0·301	139·8	357·5	− 6·7	4	14	
		6535†	0·210	86·2	356·6	+ 7·4	0	8	
		6537	0·817	109·8	317·1	−11·9	0	7	299*f*
		6537*a*	0·850	109·0	313·5	−12·3	29	185	
			0·875	88·9	307·6	+ 4·3			168
Sept. 29				(+26·0)	(8·7)	(+6·7)	(85)	(635)	(811)
273·500	FS, AS		0·952	280·9	68·5	+12·4			358
			0·704	287·6	40·0	+17·1			139
			0·635	265·9	34·8	+ 2·6			257
			0·700	237·6	33·6	−16·7			98
		6534*a*	0·873	274·6	56·7	+ 7·3	18	117	798*c*
		6533	0·803	276·8	49·3	+ 9·5	20	177	
		6533	0·797	278·8	48·8	+11·1	0	4	
		6533	0·780	276·8	47·1	+ 9·5	0	7	
		6533	0·767	276·2	46·0	+ 9·1	22	109	
		6533	0·763	278·8	45·6	+11·1	0	31	
G.		6533	0·741	276·3	43·7	+ 9·2	3	19	
		6535*a*	0·231	187·4	357·3	− 6·5	4	11	
		6538*a*	0·606	127·5	325·7	−15·8	7	21	
		6538*b*	0·632	124·2	323·0	−15·1	5	24	
		6537*a*	0·722	113·9	313·3	−12·1	32	186	79*f*
		6539	0·967	98·6	281·6	− 6·5	7	41	} 732*c*
		6539*a*	0·980	97·2	278·1	− 5·6	46	321	
		6540	0·991	79·8	272·3	+11·0	59	346	217*p*
			0·846	111·4	301·5	−14·1			327
			0·927	82·9	287·2	+ 9·1			131
Sept. 30				(+26·1)	(355·6)	(+6·7)	(223)	(1414)	(3136)
274·537	CL, AS		0·869	252·1	39·4	−12·0			129
			0·820	287·0	37·1	+17·7			254
			0·796	271·5	34·7	+ 5·2			509
			0·821	239·8	30·8	−20·1			168
G.		6534*a*	0·962	275·6	56·4	+ 7·2	19	84	967*c*
		6533	0·918	277·3	49·0	+ 9·3	32	146	
		6533	0·900	278·6	46·6	+10·6	13	90	
		6533	0·899	275·9	46·3	+ 8·2	0	45	

Group 6533*, September 28. Some small spots, *sf* Group 6533.
Group 6535*, September 28. A small spot.
Group 6537, September 28–October 9. A large regular spot, *a*, with occasionally a small attendant.
Group 6533†, September 29. A very small spot, *sf* Group 6533.
Group 6535†, September 29. A very small spot, *sp* Group 6535*. It is on the same meridian as Group 6535, and at the same distance from the equator but in the northern hemisphere.
Group 6538, September 30–October 5. Two widely separated spots, *a* and *b*, *p* Group 6537. *b* has disappeared by October 4.
Group 6539, September 30–October 12. Return of Group 6519. Third apparition. A large regular spot, *a*, usually with some small companions.
Group 6540. September 30–October 12. Return of Group 6520. A large regular spot, *a*, with occasionally one or more 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).
1908.					°	°			
274·537	CL, AS	6533	0·892	277·1	45·4	+ 9·3	20	113	
		6533	0·879	276·6	43·8	+ 8·9	0	21	
		6535*a*	0·350	229·9	357·5	− 6·6	0	11	
		6538*a*	0·444	146·6	327·3	−15·3	9	51	
		6538*b*	0·487	139·1	322·7	−15·3	3	23	
		6537*a*	0·557	123·3	313·6	−12·0	27	183	109*f*
		6539	0·884	101·1	281·3	− 6·6	10	53	
		6539*a*	0·909	99·6	277·8	− 5·9	44	289	784*c*
G.		6541*	0·960	105·4	270·5	−12·7	0	23	
		6541	0·958	99·2	269·8	− 6·9	0	52	812*c*
		6541	0·967	97·9	267·8	− 5·9	0	41	
		6540	0·937	80·5	271·7	+11·2	63	348	727*nf*
			0·705	114·3	301·0	−11·9			164
			0·791	76·6	289·4	+14·7			138
			0·906	112·9	281·0	−17·5			246
			0·883	87·2	279·7	+ 5·6			272
Oct. 1				(+26·1)	(341·9)	(+6·6)	(240)	(1573)	(5279)
275·605	FS, CL		0·944	256·0	36·4	−10·9			140
			0·917	289·4	34·9	+20·4			254
			0·898	263·8	30·9	− 2·6			197
			0·878	275·6	29·5	+ 8·1			883
			0·913	244·0	28·8	−20·5			412
			0·768	282·8	18·2	+14·1			189
		6533	0·981	278·3	47·3	+ 9·5	47	252	812*c*
		6535*a*	0·537	246·4	357·4	− 6·7	0	4	
		6535	0·515	243·5	355·4	− 7·4	0	9	
		6538*a*	0·374	180·5	328·0	−15·3	10	26	
		6538*b*	0·384	168·8	323·4	−15·5	0	12	
		6537*a*	0·394	142·6	313·7	−11·8	30	161	
		6537	0·426	142·0	312·2	−13·2	0	6	
G.		6537	0·422	138·3	311·2	−12·0	0	12	
		6542	0·556	130·3	301·9	−15·1	0	13	
		6539	0·708	101·9	284·0	− 3·7	2	10	
		6539	0·749	105·0	281·2	− 6·7	9	23	
		6539*a*	0·782	102·6	277·9	− 5·6	45	293	516*c*
		6539	0·791	100·1	276·7	− 3·8	0	15	
		6541	0·857	102·0	270·4	− 6·7	5	34	
		6541	0·873	100·3	268·3	− 5·7	7	13	685*f*
		6541*	0·872	109·6	270·3	−13·5	0	6	
		6540	0·826	80·6	271·8	+11·5	54	346	178*c*
			0·799	87·7	274·7	+ 5·8			212
			0·828	70·8	271·9	+19·6			228
			0·925	74·8	259·4	+16·6			502
Oct. 2				(+26·2)	(327·8)	(+6·6)	(209)	(1235)	(5208)
276·499	AS, CL		0·967	278·1	31·8	+ 9·5			474
G.			0·965	267·5	30·4	− 0·7			307
276·499	AS, CL		0·944	245·1	22·2	−20·9			333
			0·864	278·1	16·2	+10·3			161
			0·840	290·3	13·1	+20·6			193
		6535	0·672	251·0	355·7	− 7·7	0	3	119*c*
		6538*a*	0·423	209·1	328·3	−15·3	2	11	
		6538*b*	0·399	198·3	323·4	−15·7	0	8	
		6537*a*	0·319	172·6	313·6	−11·9	27	183	
		6537	0·354	170·4	312·5	−13·8	1	18	
G.		6537	0·333	165·7	311·2	−12·3	0	7	
		6539	0·547	107·9	284·7	− 4·1	0	4	
		6539	0·610	109·8	280·9	− 6·6	0	18	
		6539*a*	0·639	107·0	278·3	− 5·6	56	287	143*c*
		6539	0·661	106·9	276·7	− 6·0	0	7	
		6541	0·726	106·1	271·5	− 7·0	.0	19	
		6541	0·750	103·6	269·1	− 5·8	0	7	451*f*
		6540	0·697	80·1	271·7	+11·6	47	324	97*c*
			0·777	85·4	264·8	+ 7·7			102
			0·826	73·6	260·2	+17·2			567
Oct. 3				(+26·2)	(316·0)	(+6·5)	(133)	(896)	(2947)
277·603	FS, AS		0·954	277·3	14·6	+ 8·9			279
			0·936	288·5	11·7	+19·6			172
			0·946	248·2	8·9	−18·2			214
			0·842	256·1	356·9	− 8·0			204
			0·820	266·4	356·2	+ 0·8			102
			0·791	245·5	349·4	−14·8			143
		6543*a*	0·862	274·4	1·3	+ 7·1	7	23	
		6543	0·836	275·1	358·5	+ 7·8	0	8	172*c*
		6543*b*	0·825	273·8	357·3	+ 6·8	6	23	
		6538*a*	0·568	230·1	328·3	−15·6	0	10	
		6537*a*	0·378	212·9	313·6	−12·1	30	146	
		6537	0·417	208·7	313·4	−15·0	0	4	
G.		6537	0·387	205·8	311·5	−14·0	0	6	
		6537	0·357	206·5	310·8	−12·1	0	10	
		6539	0·422	121·5	280·4	− 6·6	3	14	
		6539*a*	0·439	116·7	278·4	− 5·4	52	259	
		6539	0·465	114·4	276·4	− 5·2	3	15	
		6539	0·492	115·6	275·1	− 6·4	0	2	
		6541	0·543	113·9	271·6	− 7·1	0	6	
		6540	0·501	77·5	271·6	+11·9	53	315	
			0·641	113·5	265·1	− 9·6			152
			0·718	72·1	256·0	+17·4			336
			0·867	116·7	246·6	−19·2			140
			0·934	104·2	234·6	−10·7			533
Oct. 4				(+26·3)	(301·5)	(+6·5)	(154)	(841)	(2447)
278·090	CL, AS		0·949	288·8	7·5	+19·8			147
D.			0·893	261·0	357·1	− 5·0			207

Group 6541, October 1–9. Some small spots, *f* Group 6539.
Group 6541*, October 1–2. A small spot, *s* Group 6541.
Group 6542, October 2. A small spot, *sf* Group 6537.
Group 6543, October 4–5. A small stream of normal type. The first and last spots, *a* and *b*, are 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).
1908.				°	°	°			
278·090	CL, AS		0·858	269·9	354·0	+ 3·3			192
		6543*a*	0·918	275·1	1·9	+ 7·3	8	41	
		6543	0·887	276·2	357·9	+ 8·5	0	3	201*c*
		6543*b*	0·883	275·0	357·3	+ 7·5	8	31	
		6538*a*	0·636	236·0	328·0	−15·3	0	3	
		6537*a*	0·448	224·9	313·8	−12·3	23	144	
		6539	0·333	132·6	280·8	− 6·7	2	6	
D.		6539*a*	0·354	125·6	278·3	− 5·6	52	250	
		6539	0·378	123·0	276·5	− 5·7	0	5	
		6541	0·452	118·7	271·6	− 6·6	0	4	
		6540	0·407	75·2	271·4	+12·0	42	269	
		6544	0·845	106·8	239·9	−10·4	2	8	510*f*
			0·829	119·8	245·2	−20·1			142
			0·891	66·0	232·0	+24·3			217
Oct. 5				(+26·3)	(295·0)	(+6·5)	(137)	(764)	(1616)
279·440	FS, CL		0·978	274·3	355·5	+ 5·6			411
			0·949	263·3	347·9	−14·3			256
			0·956	253·4	347·6	−13·8			255
			0·928	286·1	346·0	+17·3			248
			0·773	246·5	323·9	−13·6			238
		6537*a*	0·650	242·4	313·2	−12·3	29	156	101*f*
		6545	0·296	213·5	286·7	− 7·9	0	15	
		6545	0·244	211·4	284·5	− 5·6	0	11	
		6539	0·273	194·6	281·2	− 8·9	0	9	
G.		6539	0·236	193·2	280·3	− 6·9	0	26	
		6539*a*	0·202	186·8	278·6	− 5·1	48	265	
		6539	0·266	184·8	278·5	− 8·9	0	7	
		6541	0·251	157·1	271·6	− 7·0	2	15	
		6540	0·139	44·1	271·5	+12·1	52	310	
		6540	0·187	53·1	268·4	+12·8	0	13	
		6544	0·637	114·5	241·3	−10·2	0	8	391*f*
			0·902	73·4	212·2	+17·8			201
			0·925	104·7	211·7	−11·0			365
Oct. 6				(+26·4)	(277·2)	(+6·4)	(131)	(835)	(2466)
280·510	FS, AS		0·918	277·3	330·1	+ 9·2			138
			0·920	250·5	326·9	−15·2			214
			0·815	282·2	317·9	+13·6			110
		6537*a*	0·800	249·4	313·0	−12·3	21	131	164*c*
		6545	0·409	244·8	284·8	− 4·2	0	10	
G.		6539*a*	0·332	233·8	278·6	− 5·2	47	269	
		6539	0·299	220·4	274·3	− 6·9	0	8	
		6541	0·280	210·4	271·3	− 7·7	4	19	
		6540	0·174	305·8	271·4	+12·1	55	301	
		6540	0·133	315·8	268·5	+11·7	0	2	
		6544	0·471	125·4	240·3	−10·0	0	8	
1908.				°	°	°			
280·510	FS, AS	6544	0·497	126·5	239·1	−11·4	0	1	
		6547*a*	0·976	84·0	185·3	+ 7·2	0	68	274*p*
G.			0·578	116·9	231·7	− 9·8			207
			0·877	107·1	204·4	−11·7			434
Oct. 7				(+26·4)	(263·1)	(+6·3)	(127)	(817)	(1541)
281·626	FS, OL		0·913	280·7	314·8	+12·3			283
			0·853	239·5	300·6	−21·9			167
			0·648	253·6	286·9	− 5·7			122
		6537*a*	0·924	253·7	313·4	−12·4	15	100	351*f*
		6539*a*	0·545	250·3	279·3	− 5·2	43	252	
		6539	0·517	251·8	277·8	− 3·9	0	11	
		6539	0·503	244·1	275·4	− 7·2	0	2	
		6541	0·465	242·7	272·9	− 6·6	0	16	
		6541	0·463	238·4	271·8	− 8·3	0	5	
G.		6541	0·386	238·0	267·5	− 5·9	0	9	
		6546	0·619	216·6	272·1	−24·0	0	8	
		6546	0·615	213·5	270·3	−25·0	0	12	
		6540	0·405	286·3	271·7	+12·3	43	287	
		6540	0·384	292·3	269·8	+14·1	0	10	
		6540	0·368	287·6	269·3	+12·1	0	6	
		6547*a*	0·891	85·7	185·2	+ 6·6	9	46	362*f*
			0·759	112·8	202·7	−12·8			214
			0·797	70·0	195·9	+19·7			192
			0·886	94·1	186·5	− 0·8			250
			0·936	115·2	183·5	−21·0			474
Oct. 8				(+26·4)	(248·4)	(+6·2)	(110)	(764)	(2415)
282·158	FS, AS		0·905	251·0	303·2	−14·3			296
			0·843	263·8	298·2	− 1·9			122
			0·719	252·5	285·0	− 8·0			246
		6537*a*	0·961	255·7	313·3	−11·9	12	94	123*f*
		6548*a*	0·623	273·0	280·0	+ 6·7	1	12	
		6548*b*	0·598	272·9	278·2	+ 6·7	0	5	
		6539*a*	0·642	255·0	279·7	− 4·7	50	262	
		6539	0·609	254·8	277·4	− 4·2	0	6	
D.		6539	0·602	250·0	276·0	− 6·8	0	8	
		6541	0·569	246·8	273·1	− 7·7	0	5	
		6541	0·558	248·3	272·7	− 6·6	0	4	
		6540	0·511	284·5	271·7	+12·7	56	283	
		6547*a*	0·834	86·9	184·8	+ 6·0	7	30	73*f*
			0·746	116·1	197·7	−14·7			157
			0·819	96·6	187·1	− 1·8			221
			0·891	118·2	183·9	−21·7			516
			0·893	80·9	177·8	+10·9			387
Oct. 9				(+26·4)	(241·4)	(+6·2)	(126)	(709)	(2141)

Group 6544, October 5–7. One or two very small unstable spots. Probably a revival, rather than a return, of Group 6524.
Group 6545, October 6–7. Some very faint unstable spots, *p* Group 6545.
Group 6547, October 7–15. A small regular spot, *a*, frequently with one or more unstable companions.
Group 6546, October 8. Two very faint small spots.
Group 6548, October 9–10. Two small spots, *a* and *b*, *sp* Group 6540.

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).
1908.				°	°	°			
283·533	AS, CL		0·832	235·7	271·8	−24·0			105
			0·763	254·2	270·8	− 7·9			242
		6539*a*	0·847	260·4	279·9	− 4·8	35	222	409*p*
		6539	0·826	261·7	277·9	− 3·3	0	5	
		6548*a*	0·835	272·6	279·9	+ 5·6	0	4	210*c*
		6548*b*	0·808	274·1	277·3	+ 6·9	0	6	
		6540	0·744	281·2	271·4	+12·4	43	246	
		6540	0·724	281·4	269·6	+12·5	0	6	
G.		6549	0·731	236·8	263·3	−18·9	0	20	
		6549	0·709	236·8	261·7	−18·1	0	7	84*c*
		6549	0·718	234·1	261·3	−20·1	0	3	
		6549*a*	0·698	234·7	260·1	−18·9	6	36	
		6547*a*	0·620	87·9	184·8	+ 6·2	4	15	148*c*
		6547	0·652	84·2	182·4	+ 8·4	3	14	
			0·758	124·2	181·3	−20·6			248
			0·904	102·2	160·2	− 8·3			176
Oct. 10				(+26·4)	(223·2)	(+6·1)	(91)	(584)	(1622)
284·565	FS, CL		0·954	253·2	279·6	−14·0			144
			0·924	268·6	276·9	+ 1·1			151
			0·871	257·3	268·4	− 7·9			588
			0·812	281·3	264·1	+12·7			287
		6539*a*	0·949	262·9	280·3	− 4·7	36	193	327*p*
		6540	0·880	281·2	271·6	+12·8	24	219	419*c*
		6540	0·870	280·5	270·4	+12·1	2	16	
		6549	0·862	244·2	264·4	−18·6	0	9	
G.		6549	0·840	241·8	261·3	−19·7	0	2	164*c*
		6549*a*	0·822	242·0	259·5	−18·8	5	65	
		6547	0·365	91·0	188·2	+ 5·4	0	1	
		6547*a*	0·418	88·6	184·9	+ 6·2	4	12	
		6547	0·437	83·9	183·7	+ 8·2	0	3	
			0·925	83·6	141·6	+ 8·2			273
			0·954	102·7	138·9	−10·2			306
Oct. 11				(+26·4)	(209·6)	(+6·1)	(71)	(520)	(2659)
285·401	FS, AS		0·939	273·0	268·6	+ 4·9			200
			0·940	258·8	267·1	− 8·4			421
			0·892	286·0	262·1	+17·0			268
			0·799	238·9	245·3	−20·3			125
		6539*a*	0·992	264·5	280·6	− 4·7	36	178	140*f*
		6540	0·954	281·5	271·8	+12·8	34	199	208*c*
G.		6549	0·925	246·2	262·1	−19·3	0	26	
		6549	0·907	244·6	259·1	−20·0	0	12	211*c*
		6549*a*	0·904	246·0	259·1	−18·7	11	82	
		6547*a*	0·239	88·6	184·8	+ 6·2	3	13	
			0·912	105·3	135·0	−11·3			267
			0·864	81·8	138·5	+10·1			469
Oct. 12				(+26·4)	(198·6)	(+6·0)	(84)	(510)	(2309)
1908.				°	°	°			
286·546	CL, AS		0·928	285·9	252·1	+16·9			286
			0·841	248·4	237·2	−14·6			418
		6549*a*	0·979	249·8	258·9	−18·4	0	73	309*p*
		6547*a*	0·032	284·7	185·3	+ 6·4	3	8	
		6547	0·014	241·1	184·2	+ 5·5	0	2	
G.			0·811	113·1	133·2	−14·9			178
			0·800	79·0	130·2	+12·3			261
			0·861	102·9	125·8	− 8·0			148
			0·930	71·9	114·6	+19·0			211
			0·972	102·5	108·8	−10·6			365
Oct. 13				(+26·4)	(183·5)	(+5·9)	(3)	(83)	(2176)
287·519	FS, AS		0·963	287·6	245·8	+18·5			276
			0·918	252·3	234·5	−13·7			450
		6547*a*	0·262	273·0	185·8	+ 6·5	1	10	
G.			0·931	106·3	104·4	−12·9			614
			0·917	68·4	103·9	+22·1			188
			0·953	86·2	98·1	+ 5·4			133
Oct. 14				(+26·4)	(170·6)	(+5·8)	(1)	(10)	(1661)
288·620	FS, CL		0·964	253·1	228·3	−14·6			258
			0·893	266·1	218·9	− 0·8			218
			0·797	248·3	205·5	−13·4			269
			0·672	232·8	190·5	−19·2			236
		6547*a*	0·506	271·8	186·5	+ 5·9	0	5	
		6547	0·465	277·6	183·8	+ 8·7	0	7	
G.			0·801	71·4	103·2	+18·3			261
			0·845	110·2	101·6	−13·7			680
			0·839	85·3	98·9	+ 7·1			360
			0·921	122·9	95·9	−27·2			266
			0·951	100·2	85·5	− 7·8			260
			0·963	66·5	80·8	+24·2			213
Oct. 15				(+26·3)	(156·1)	(+5·8)	(0)	(12)	(3021)
289·078	FS, CL		0·909	297·2	215·1	+27·1			131
			0·851	269·1	208·3	+ 2·3			229
			0·857	255·4	207·0	− 9·3			169
			0·810	245·1	199·8	−16·2			363
			0·695	229·2	184·6	−22·2			342
			0·799	114·4	101·2	−15·6			628
D.			0·824	86·7	94·5	+ 6·0			222
			0·916	124·3	91·1	−28·2			339
			0·923	101·2	84·3	− 8·0			169
			0·919	81·4	82·9	+10·2			152
			0·937	72·6	80·0	+18·3			264
Oct. 16				(+26·3)	(150·1)	(+5·7)	(0)	(0)	(3008)

Group 6549, October 10–13. A short stream of spots, forming near the West limb. The last spot, *a*, is the largest and 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).
1908.				°	°	°			
290·093	AS, CL		0·936	253·9	203·8	−12·9			308
			0·915	269·4	202·7	+ 1·7			115
			0·866	241·5	191·2	−21·2			294
			0·783	273·1	188·3	+ 5·9			282
			0·789	250·3	185·9	−11·8			285
			0·753	262·4	184·8	− 2·0			208
			0·689	284·7	179·9	+14·1			166
D.			0·739	230·0	174·8	−23·9			227
			0·747	118·6	93·6	−16·9			238
			0·806	103·6	84·7	− 7·5			267
			0·810	70·6	83·0	+19·0			121
			0·892	126·2	81·8	−28·6			384
			0·903	94·6	72·7	− 1·7			191
			0·918	76·1	69·6	+15·0			315
			0·977	84·2	58·6	+ 6·9			353
Oct. 17				(+26·3)	(136·7)	(+5·6)	(0)	(0)	(3754)
291·091	FS, CL		0·930	256·1	190·0	−10·7			325
			0·821	268·1	178·5	+ 1·7			191
			0·737	279·1	171·0	+10·5			267
			0·799	240·9	171·0	−19·1			437
			0·706	119·2	83·8	−15·9			508
D.			0·881	124·7	69·4	−26·8			437
			0·931	135·8	67·3	−38·8			134
			0·851	62·0	66·5	+26·7			156
			0·858	102·6	66·0	− 7·8			360
			0·917	77·6	56·6	+13·6			491
			0·981	87·3	44·6	+ 3·7			748
Oct. 18				(+26·2)	(123·5)	(+5·6)	(0)	(0)	(4054)
292·169	FS, AS		0·945	278·8	180·7	+10·2			348
			0·923	265·2	176·1	− 2·3			183
			0·800	248·9	159·2	−13·2			155
			0·704	74·8	64·9	+14·6			162
			0·808	102·1	56·9	− 6·4			305
D.			0·812	84·7	54·9	+ 7·5			982
			0·910	71·9	43·6	+18·7			197
			0·917	96·2	43·5	− 3·4			408
			0·918	64·1	42·9	+25·9			123
			0·950	111·3	40·7	−18·3			320
			0·948	82·7	37·5	+ 8·7			850
Oct. 19				(+26·1)	(109·3)	(+5·5)	(0)	(0)	(4033)
293·140	CL, AS		0·871	248·9	153·7	−15·3			189
D.			0·778	279·7	147·6	+10·9			157
			0·820	231·7	142·5	−26·8			191
			0·712	250·2	139·2	−10·0			164
1908.				°	°	°			
293·140	CL, AS		0·605	221·6	122·1	−22·0			103
		6550*a*	0·998	85·6	9·9	+ 4·7	0	177	
			0·673	84·8	54·2	+ 7·5			400
			0·722	104·5	52·0	− 6·6			119
			0·832	84·4	40·1	+ 7·7			382
D.			0·856	91·8	37·9	+ 1·3			211
			0·871	69·8	36·1	+20·3			211
			0·907	116·2	36·0	−21·0			348
			0·882	100·0	35·8	− 6·2			162
			0·941	79·4	25·9	+11·8			384
Oct. 20				(+26·1)	(96·5)	(+5·4)	(0)	(177)	(3021)
294·074	FS, AS		0·866	280·0	144·4	+11·3			196
			0·816	253·5	136·6	−10·2			156
			0·756	274·9	133·4	+ 7·2			184
			0·652	235·5	118·3	−17·2			94
		6551	0·379	92·7	62·0	+ 3·9	1	11	
		6551	0·385	95·3	61·7	+ 2·9	0	7	
		6551*	0·447	81·5	57·8	+ 8·6	0	7	
		6550*a*	0·958	86·4	10·7	+ 5·0	30	113	507*c*
			0·636	75·2	45·2	+13·4			170
D.			0·703	105·1	41·3	− 6·7			254
			0·698	90·1	40·0	+ 3·7			451
			0·764	64·3	36·0	+22·9			110
			0·823	121·8	35·3	−22·2			365
			0·781	74·5	33·1	+15·4			184
			0·883	64·2	23·0	+25·2			151
			0·877	80·8	22·7	+10·6			159
			0·889	96·9	22·2	− 3·6			178
			0·917	110·1	20·8	−16·0			150
Oct. 21				(+26·0)	(84·2)	(+5·3)	(31)	(138)	(3309)
295·535	AS, CL		0·939	256·9	133·1	−10·4			149
			0·903	273·3	129·5	+ 5·2			241
			0·844	251·6	119·8	−12·5			139
			0·713	249·2	107·5	−10·8			156
		6552	0·920	281·9	132·2	+13·0	0	9	} 196*c*
		6552	0·907	282·8	130·3	+13·8	0	12	
		6551	0·100	105·9	59·4	+ 3·6	0	3	
G.		6551*	0·117	72·6	58·5	+ 7·2	0	5	
		6553	0·383	81·2	42·5	+ 8·2	0	11	
		6550*a*	0·810	87·2	10·8	+ 5·3	18	82	} 158*c*
		6550	0·816	89·3	10·3	+ 3·6	7	29	
			0·857	118·4	11·2	−21·0			178
			0·831	82·5	8·5	+ 9·2			331
			0·865	104·6	6·9	− 9·9			195
			0·862	66·7	6·0	+22·7			170
Oct. 22				(+25·9)	(64·9)	(+5·2)	(25)	(151)	(1913)

Group 6550, October 20–26. A regular spot, *a*, rapidly diminishing in size. As it diminishes small spots form in the neighbourhood. Probably a return of Group 6543.
Group 6551, October 21–22. Some very small faint unstable spots.
Group 6552, October 22. Two small spots.
Group 6553, October 22–24. A few 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).
1908.				°	°	°			
296·610	FS, CL		0·967	279·0	126·3	+10·0			268
			0·871	269·6	111·1	+ 2·2			199
			0·862	286·2	110·2	+16·5			216
			0·834	249·9	104·2	−13·7			239
			0·811	236·1	97·7	−23·4			177
			0·761	250·4	97·5	−11·3			115
			0·794	225·9	91·6	−29·7			200
		6553	0·133	69·2	43·5	+ 7·8	0	7	
		6553	0·176	79·1	40·7	+ 7·0	0	6	
G.		6553	0·182	87·9	40·2	+ 5·4	0	10	
		6554*a*	0·277	133·2	39·0	− 5·9	0	7	
		6554	0·318	130·6	36·7	− 7·0	0	5	
		6550	0·640	90·6	11·0	+ 3·5	3	9	} 105*c*
		6550*a*	0·640	87·8	10·9	+ 5·3	10	51	
			0·625	113·9	15·3	−10·4			133
			0·736	83·2	3·3	+ 8·5			153
			0·805	108·7	359·8	−11·7			155
			0·850	92·6	352·8	+ 0·5			131
			0·904	78·1	345·8	+12·9			155
Oct. 23				(+25·8)	(50·7)	(+5·1)	(13)	(95)	(2246)
297·213	FS, CL		0·899	257·9	105·3	− 8·6			241
			0·827	247·3	95·0	−15·6			299
			0·781	296·6	92·3	+23·7			252
			0·764	233·8	84·7	−23·1			328
			0·819	222·9	84·4	−33·1			200
			0·600	222·7	68·6	−21·6			88
		6553	0·082	329·2	45·2	+ 9·1	0	4	
		6553	0·051	339·2	43·8	+ 7·7	0	6	
		6554*a*	0·200	163·0	39·4	− 6·0	0	6	
		6550	0·496	87·4	13·1	+ 5·6	0	8	
D.		6550	0·515	94·6	12·0	+ 2·0	0	3	
		6550	0·525	91·7	11·2	+ 3·4	0	5	
		6550*a*	0·528	88·6	10·9	+ 5·0	6	26	
			0·639	82·9	3·1	+ 8·4			289
			0·785	134·3	2·8	−29·4			405
			0·753	73·9	354·4	+15·4			198
			0·817	118·8	353·4	−19·9			284
			0·787	106·5	353·0	− 9·7			308
			0·850	91·6	344·8	+ 1·3			361
			0·912	73·4	336·8	+17·2			238
			0·920	82·3	335·6	+ 9·1			262
			0·951	104·7	332·7	−12·3			350
Oct. 24				(+25·7)	(42·8)	(+5·0)	(6)	(58)	(4103)
298·449	FS, AS		0·914	246·9	88·9	−18·8			324
G.			0·893	232·1	81·1	−30·4			166
1908.				°	°	°			
298·449	FS, AS		0·797	256·5	77·7	− 7·7			124
		6551*	0·519	280·6	57·5	+ 9·7	0	11	
		6551†	0·483	286·7	54·6	+12·3	0	12	
		6551†	0·462	289·0	53·0	+13·0	0	8	
		6554	0·349	229·2	41·9	− 8·4	0	15	
		6554	0·321	233·6	41·5	− 6·2	0	10	
G.		6554*a*	0·299	233·6	40·4	− 5·4	0	8	
		6550	0·219	83·6	13·9	+ 6·2	0	12	
		6550	0·257	81·9	11·7	+ 6·9	0	10	
			0·787	77·9	334·7	+12·6			346
			0·807	90·7	332·8	+ 2·4			234
			0·943	105·1	318·0	−12·4			240
Oct. 25				(+25·6)	(26·5)	(+4·9)	(0)	(86)	(1434)
299·111	AS, CL		0·670	269·7	59·8	+ 3·5			331
			0·660	290·2	58·0	+16·9			196
		6554*a*	0·417	244·5	39·9	− 5·8	11	40	
		6554	0·397	242·6	38·5	− 5·9	0	2	
		6554	0·403	236·9	37·7	− 8·1	1	12	
		6550	0·073	79·1	13·7	+ 5·7	0	4	
D.		6550	0·106	71·3	12·0	+ 6·9	0	23	
		6550	0·143	68·8	10·1	+ 7·8	0	11	
			0·695	65·6	335·5	+20·3			189
			0·792	85·2	325·4	+ 6·8			205
			0·921	107·0	313·0	−13·6			222
			0·936	68·6	308·3	+21·7			215
Oct. 26				(+25·5)	(17·8)	(+4·9)	(12)	(92)	(1358)
300·094	FS, CL		0·785	275·4	56·6	+ 7·2			590
			0·779	255·9	54·3	− 7·8			218
		6554*a*	0·606	254·4	40·6	− 5·5	3	25	51*c*
		6555	0·444	144·0	349·1	−16·4	1	10	
		6555	0·463	142·4	347·7	−16·9	0	6	
D.		6555*a*	0·487	139·9	345·7	−17·3	5	16	
		6556*a*	0·950	84·0	292·8	+ 7·2	0	22	233*f*
			0·791	80·5	312·5	+10·4			195
			0·867	111·2	307·9	−15·7			425
			0·963	98·4	291·4	− 6·7			419
Oct. 27				(+25·4)	(4·8)	(+4·8)	(9)	(79)	(2131)
301·119	FS, AS		0·913	277·2	57·3	+ 8·5			848
			0·884	260·5	52·3	− 6·1			209
			0·769	273·5	41·5	+ 5·8			357
D.			0·799	243·8	39·8	−17·5			199
			0·758	256·1	38·9	− 7·3			208
			0·738	226·8	28·0	−26·5			153
		6555*a*	0·384	164·4	345·0	−16·9	0	4	

Group 6554, October 23–27. A small spot, *a*, with one or two small unstable companions.
Group 6551*, October 21–25. Some very small faint spots, *nf* Group 6551, not seen on October 23 and 24.
Group 6551†, October 25. Some very small faint spots, *nf* Group 6551 and 6551*.
Group 6555, October 27–28. Some small spots in a straight stream. The rear spot, *a*, is the largest, and alone remains by October 28.
Group 6556. October 27–31. A small spot, *a*. Probably a revival of Group 6548.

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).
1908.				°	°	°			
301·119	FS, AS	6557*a*	0·826	97·4	296·3	− 3·5	0	12	} 216*c*
		6557*b*	0·851	96·2	293·5	− 2·8	2	16	
		6556*a*	0·853	84·6	292·6	+ 7·1	0	9	190*c*
		6558*a*	0·980	78·3	272·1	+12·4	16	118	318*c*
			0·812	115·0	301·0	−17·1			195
D.			0·888	105·8	290·6	−11·7			282
			0·957	98·6	279·1	− 6·8			343
			0·950	73·8	279·0	+16·9			224
			0·961	87·7	277·3	+ 3·5			97
Oct. 28				(+25·3)	(351·2)	(+4·7)	(18)	(159)	(3839)
302·167	FS, CL		0·948	279·8	49·3	+10·8			592
			0·918	260·9	43·1	− 6·5			503
			0·874	273·0	38·4	+ 4·8			279
			0·884	244·0	35·2	−20·3			325
			0·807	284·1	31·1	+14·1			184
			0·822	229·7	23·1	−28·9			115
		6557*b*	0·702	99·2	293·7	− 3·2	0	7	
		6556*a*	0·702	84·7	292·9	+ 7·0	2	11	129*c*
D.		6558*a*	0·908	78·6	272·1	+12·3	13	75	663*n*
			0·751	99·3	289·7	− 3·9			328
			0·821	114·5	286·3	−17·0			390
			0·816	82·4	282·8	+ 8·9			188
			0·926	122·3	275·7	−27·5			107
			0·927	100·0	270·7	− 7·5			648
			0·920	88·0	270·6	+ 3·7			228
			0·963	112·5	266·2	−20·2			119
Oct. 29				(+25·1)	(337·5)	(+4·6)	(15)	(93)	(4798)
303·420	CL, AS		0·980	265·6	38·9	− 3·4			297
			0·917	282·2	27·6	+13·0			316
			0·900	242·6	20·4	−22·2			223
			0·741	275·1	8·7	+ 6·7			257
		6556*a*	0·462	82·7	293·5	+ 7·3	3	10	
		6558*a*	0·758	76·9	271·9	+12·8	11	79	351*f*
			0·774	106·2	272·2	− 9·6			371
G.			0·759	95·2	272·0	− 1·1			167
			0·779	85·1	269·7	− 6·6			165
			0·892	116·1	262·1	−20·8			164
			0·886	66·3	259·3	+23·0			235
			0·897	74·6	257·2	+15·7			149
			0·910	95·2	256·0	− 2·9			269
			0·954	105·1	250·2	−13·0			181
Oct. 30				(+24·9)	(320·9)	(+4·4)	(14)	(89)	(3145)
304·094	FS, AS		0·849	273·8	10·1	+ 5·6			297
D.			0·837	284·9	8·6	+14·9			109
1908.				°	°	°			
304·094	FS, AS		0·881	238·4	7·7	−25·0			160
			0·799	254·8	3·2	− 9·3			272
			0·722	288·3	357·4	+16·2			165
		6556*a*	0·326	80·1	293·2	+ 7·4	1	7	
		6558*a*	0·654	75·8	271·7	+12·6	9	72	302*nf*
D.			0·648	109·4	273·9	− 8·9			193
			0·825	116·2	260·8	−18·6			192
			0·799	97·8	259·7	− 3·6			226
			0·857	67·2	254·0	+21·7			273
			0·928	104·8	245·7	−12·0			247
Oct. 31				(+24·8)	(312·0)	(+4·4)	(10)	(79)	(2436)
305·568	FS, CL		0·955	278·5	5·6	+ 9·4			287
			0·842	244·4	345·7	−18·8			117
G.		6558*a*	0·381	66·2	271·7	+12·8	10	58	
			0·819	108·1	240·0	−12·2			210
Nov. 1				(+24·6)	(292·6)	(+4·2)	(10)	(58)	(614)
306·090	CL, AS		0·887	280·6	348·2	+11·3			193
			0·849	266·3	343·4	− 0·9			143
		6558*a*	0·283	57·2	271·6	+12·8	7	50	
		6559*a*	0·980	104·5	208·8	−13·3	37	203	104*p*
D.			0·656	108·1	246·8	− 8·5			187
			0·807	115·1	235·9	−17·3			184
			0·793	98·5	234·0	− 4·2			169
			0·932	101·0	218·2	− 8·6			149
Nov. 2				(+24·5)	(285·7)	(+4·2)	(44)	(253)	(1129)
307·153	FS, AS		0·924	280·6	339·4	+11·4			105
			0·765	249·3	318·8	−12·9			118
		6558*a*	0·154	2·0	271·4	+13·0	8	43	
		6559*a*	0·913	106·8	207·8	−13·6	40	212	419*f*
D.			0·690	117·9	232·6	−15·6			135
			0·854	99·6	214·1	− 6·0			166
			0·952	81·1	199·3	+ 9·8			97
Nov. 3				(+24·3)	(271·7)	(+4·1)	(48)	(255)	(1040)
308·599	FS, AS		0·904	271·9	317·2	+ 3·4			147
			0·884	251·3	312·3	−14·5			159
		6558*a*	0·353	295·8	271·5	+12·6	6	25	
G.		6559*a*	0·735	112·2	208·4	−13·3	25	196	347*f*
			0·875	94·4	192·0	− 2·0			154
			0·906	80·9	187·6	+ 9·9			351
Nov. 4				(+24·0)	(252·6)	(+3·9)	(31)	(221)	(1158)

Group 6557, October 28–29. Two small spots, *a* and *b*. *a* has disappeared by October 29.
Group 6558, October 28–November 7. Return of Group 6540. Third apparition. A regular spot, *a*.
Group 6559, November 2–12. A large regular spot, *a*, with a very small companion on November 8. *a* becomes oval in shape, and is divided by bright bridges into several sections on November 9 and the succeeding days.

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).
1908.				°	°	°			
309·166	FS, CL		0·924	270·5	312·6	+ 2·0			225
			0·886	255·4	305·8	−11·0			128
			0·763	263·0	294·3	− 2·8			167
			0·713	274·9	290·6	+ 6·3			271
			0·720	250·4	288·8	−11·1			328
		6558*a*	0·461	291·3	271·3	+13·1	9	32	
		6559*a*	0·656	116·4	208·1	−13·8	34	199	411*f*
D.		6569*a*	0·935	81·7	175·9	+ 9·1	2	12	118*c*
		6560*a*	0·959	81·5	171·5	+ 9·3	0	23	
			0·739	93·7	197·9	− 0·1			105
			0·825	83·2	189·7	+ 7·8			181
			0·933	113·0	179·5	−19·8			269
			0·934	74·1	176·1	+16·3			98
Nov. 5				(+23·9)	(245·2)	(+3·9)	(45)	(266)	(2301)
310·426	FS, CL		0·882	275·6	290·5	+ 6·7			218
			0·886	261·3	290·1	− 5·9			332
			0·897	249·6	289·6	−16·4			142
			0·719	289·2	273·4	+16·3			116
			0·731	251·4	273·3	−10·9			84
		6558*a*	0·690	284·5	271·6	+12·7	5	17	
		6559*a*	0·444	132·0	208·8	−13·7	27	201	84*c*
		6561	0·580	71·5	194·3	+13·7	3	13	71*c*
		6561	0·608	71·9	192·2	+13·8	0	6	
G.		6562*a*	0·780	80·7	177·5	+ 9·6	13	37	
		6562	0·796	80·9	176·0	+ 9·5	4	11	
		6560	0·819	79·8	173·8	+10·4	14	55	185*c*
		6560*a*	0·828	80·9	172·8	+ 9·6	0	14	
			0·797	117·5	180·4	−19·1			257
			0·883	129·5	175·4	−31·9			182
			0·871	107·6	170·3	−13·3			245
			0·894	93·5	165·6	− 1·5			305
			0·936	78·2	159·1	+12·4			217
Nov. 6				(+23·7)	(228·6)	(+3·7)	(66)	(354)	(2438)
311·127	AS, CL		0·945	262·6	289·5	− 5·8			238
			0·899	251·4	281·0	−15·0			197
			0·831	259·4	274·4	− 6·7			179
			0·768	239·0	263·9	−20·8			109
		6563	0·929	277·0	287·6	+ 7·8	0	13	131*c*
		6558*a*	0·799	284·2	271·9	+13·5	6	22	180*nf*
		6559*a*	0·351	150·9	209·2	−14·3	21	164	
D.		6561	0·433	65·3	195·5	+13·7	2	7	
		6561	0·450	67·0	194·2	+13·4	1	5	
		6561	0·484	67·4	192·0	+13·9	1	6	
		6562*a*	0·664	80·4	177·9	+ 9·0	15	77	
		6562	0·687	79·2	176·2	+10·0	0	3	115*c*
		6560	0·711	79·4	174·3	+10·0	5	18	
1908.				°	°	°			
311·127	AS, CL	6560*a*	0·735	81·0	172·2	+ 9·1	3	29	
		6564	0·833	79·4	163·1	+10·8	2	17	104*f*
		6564	0·851	80·7	161·0	+ 9·8	2	8	
			0·790	123·7	173·7	−23·4			158
D.			0·833	100·1	163·9	− 6·3			83
			0·878	108·5	160·3	−14·3			101
			0·935	79·3	150·0	+11·3			174
Nov. 7				(+23·5)	(219·3)	(+3·6)	(58)	(369)	(1769)
312·103	FS, CL		0·901	284·7	270·5	+14·8			260
			0·900	256·5	269·1	−10·5			272
			0·862	273·7	265·9	+ 5·0			181
			0·838	263·2	262·7	− 3·7			163
			0·836	294·4	261·5	+22·2			138
			0·785	238·5	252·3	−21·7			254
		6559*a*	0·309	187·6	208·8	−14·3	34	180	
		6559	0·353	180·1	206·5	−17·1	0	5	
		6561	0·248	42·5	196·5	+14·0	4	15	
		6561	0·264	44·3	195·5	+14·3	0	2	
		6561	0·272	49·0	194·3	+13·7	0	2	
		6561	0·302	50·2	192·6	+14·5	0	7	
		6561	0·326	54·2	190·6	+14·3	0	6	
D.		6562*a*	0·486	77·5	177·8	+ 9·1	10	72	
		6560	0·541	77·1	174·2	+ 9·9	3	7	
		6560	0·568	77·6	172·3	+ 9·9	0	3	67*c*
		6560*a*	0·577	79·0	171·5	+ 9·2	11	33	
		6564	0·688	77·3	163·4	+11·2	30	162	140*c*
		6564	0·722	79·4	160·5	+10·0	6	44	
		6565	0·750	77·4	158·2	+11·8	9	30	
			0·798	111·8	156·5	−15·0			197
			0·815	89·4	151·9	+ 2·5			131
			0·839	77·0	149·7	+12·8			228
			0·914	104·4	142·0	−11·6			159
			0·949	76·6	134·8	+13·8			153
Nov. 8				(+23·3)	(206·4)	(+3·5)	(107)	(568)	(2343).
313·511	FS, AS		0·950	263·1	259·0	− 5·5			200
			0·933	289·3	256·5	+19·2			315
			0·923	273·1	255·2	+ 4·2			148
			0·873	243·0	244·4	−21·5			550
		6559*a*	0·455	228·5	208·4	−14·3	30	175	
		6561	0·241	313·2	198·2	+12·8	4	15	
		6561	0·224	311·4	197·7	+11·9	0	12	
G.		6561*a*	0·241	318·7	197·3	+13·8	22	94	
		6561	0·245	324·1	196·4	+14·8	0	4	
		6561	0·252	330·9	195·2	+16·0	0	4	
		6561	0·214	325·4	195·0	+13·5	3	9	
		6561	0·200	334·7	192·9	+13·8	0	13	

Group 6562, November 5–15. A regular spot, *a*, closely preceding Group 6560 which forms a train to it. A small companion is seen following *a* on November 6 and 7.
Group 6560, November 5–9. A small spot, *a*, closely following Group 6562. Some unstable companions form in advance of *a*.
Group 6561, November 6–14. A few small spots, developing into an irregular stream immediately after passing the Central meridian. The two chief spots, *a* and *b*, are both double spots; but *b* quickly disappears, and *a* alone remains by November 13.
Group 6563, November 7. A small spot. A revival of Group 6556.
Group 6564, November 7–17. A cluster of very small spots on November 7, rapidly developing on the succeeding days.
Group 6565, November 8–18. A small spot, *f* Group 6564, on November 8, and rapidly developing on the succeeding days. The two groups together make up a magnificent and compact stream of broken spots, over 20° of heliographic longitude in length. The combined groups were visible to the naked eye.

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).
1908.				°	°	°			
313·511	FS, AS	6561*b*	0·220	340·2	192·3	+15·3	18	97	
		6562*a*	0·196	58·9	178·2	+ 9·2	13	71	
		6560	0·242	62·0	175·4	+ 9·9	0	5	
		6560*a*	0·281	69·4	172·5	+ 8·9	2	11	
		6564	0·415	67·7	164·9	+12·2	30	145	
		6564	0·436	65·8	163·9	+13·4	0	4	
		6564	0·439	70·6	163·0	+11·4	9	41	
		6564	0·456	69·6	162·1	+12·2	5	24	
		6564	0·467	74·9	160·8	+10·0	38	178	
G.		6564	0·482	70·9	160·3	+12·1	0	5	
		6565	0·488	73·5	159·6	+11·0	5	27	
		6565	0·499	70·3	159·3	+12·6	0	7	
		6565	0·490	77·7	159·0	+ 9·0	0	8	
		6565	0·519	72·9	157·6	+11·7	19	92	
		6565	0·519	74·8	157·4	+10·7	2	15	
		6565	0·529	77·6	156·5	+ 9·4	18	95	
			0·757	108·7	141·0	−11·7			158
			0·801	78·4	135·0	+11·3			201
Nov. 9				(+23·0)	(187·9)	(+3·4)	(218)	(1151)	(1572)
314·489	CL, AS		0·948	290·7	246·2	+20·7			213
			0·878	248·1	233·4	−17·4			226
		6559*a*	0·605	241·2	208·0	−14·1	17	124	
		6561	0·412	291·0	198·0	+11·6	0	4	
		6561*a*	0·418	294·7	197·8	+13·1	25	150	
		6561	0·385	298·4	195·3	+13·6	6	45	
		6561	0·373	301·5	194·1	+14·3	0	6	
		6561	0·350	304·2	192·3	+14·5	0	16	
		6561*b*	0·357	307·2	192·1	+15·6	8	54	
		6562*a*	0·115	329·8	178·3	+ 9·0	12	83	
G.		6564	0·237	49·8	164·4	+12·0	57	384	
		6564	0·247	63·2	162·1	+ 9·6	47	336	
		6565	0·301	59·0	159·8	+12·1	3	13	
		6565	0·299	67·9	158·8	+ 9·6	0	7	
		6565	0·312	63·8	158·5	+11·1	56	327	
		6565	0·336	71·6	156·2	+ 9·2	9	98	
			0·874	66·5	115·4	+22·0			294
			0·892	102·9	113·3	− 9·9			227
			0·915	87·2	108·9	+ 3·9			226
Nov. 10				(+22·7)	(175·0)	(+3·3)	(240)	(1647)	(1186)
315·104	FS, AS		0·904	251·5	229·4	−15·2			151
			0·772	256·5	216·0	− 8·2			187
		6559*a*	0·703	246·2	208·3	−14·0	26	116	221*f*
D.		6561	0·551	287·1	199·3	+12·0	0	5	
		6561*a*	0·543	289·8	198·4	+13·3	18	111	
		6561	0·528	288·7	197·6	+12·4	0	4	
		6561	0·504	292·5	195·4	+13·9	4	30	
1908.				°	°	°			
315·104	FS, AS	6561	0·482	295·2	193·6	+14·7	0	9	
		6561	0·494	301·0	193·2	+17·6	0	7	
		6561	0·471	299·4	192·1	+16·2	1	9	
		6561*b*	0·467	297·9	192·1	+15·4	3	20	
		6562*a*	0·227	297·3	178·6	+ 9·1	13	69	
		6564	0·132	27·3	163·4	+ 9·9	11	54	
		6564	0·165	23·6	163·0	+11·9	117	704	
		6564	0·125	37·5	162·5	+ 8·9	1	5	
		6564	0·145	37·2	161·8	+ 9·8	21	95	
D.		6565	0·157	44·6	160·5	+ 9·6	0	4	
		6565	0·220	33·9	159·7	+13·6	0	4	
		6565	0·206	36·7	159·7	+12·7	6	63	
		6565	0·219	48·5	157·3	+11·4	60	357	
		6565	0·214	60·2	156·1	+ 9·3	9	69	
		6565	0·255	52·2	155·1	+12·1	0	4	
			0·817	110·2	114·7	−14·4			150
			0·865	126·5	114·4	−29·0			129
			0·945	108·6	98·1	−16·4			164
Nov. 11				(+22·6)	(166·9)	(+3·2)	(290)	(1737)	(1002)
316·534	FS, AS		0·938	259·2	216·7	− 9·1			245
		6559*a*	0·877	252·1	207·2	−14·1	7	65	233*f*
		6561*a*	0·782	284·0	198·9	+12·8	16	86	
		6561	0·775	283·0	198·3	+12·0	0	5	121*c*
		6561	0·729	288·7	193·6	+15·6	0	7	
		6562*a*	0·526	280·9	179·3	+ 8·3	11	57	
		6564	0·343	298·6	165·9	+12·3	71	415	
		6564	0·314	304·4	163·4	+13·1	0	15	
		6564	0·295	297·7	163·3	+10·7	46	244	
G.		6564	0·301	304·1	162·7	+12·6	0	12	
		6564	0·283	302·4	162·1	+11·6	0	7	
		6565	0·256	308·5	159·8	+12·1	2	45	
		6565	0·219	312·4	157·5	+11·4	90	462	
		6565	0·183	309·3	156·2	+ 9·6	0	34	
		6565	0·178	317·5	155·0	+10·5	0	8	
		6566*a*	0·921	95·6	81·5	− 4·0	0	23	202*p*
			0·846	115·1	93·9	−19·3			225
			0·977	85·9	70·3	+ 4·7			355
Nov. 12				(+22·2)	(148·0)	(+3·0)	(243)	(1485)	(1381)
317·505	FS, CL		0·937	254·5	203·1	−13·4			227
			0·867	242·4	191·0	−22·0			115
			0·854	228·7	184·4	−32·3			153
		6561*a*	0·900	283·4	199·1	+13·3	10	47	167*f*
G.		6562*a*	0·701	278·6	179·5	+ 8·1	10	43	60*c*
		6564	0·519	288·5	165·3	+12·0	106	745	
		6564	0·483	290·7	162·6	+12·4	0	26	
		6565	0·444	293·7	159·7	+12·9	0	10	

Group 6566, November 12–18. A small spot, *a*, on November 12. Other spots form in advance of *a* on the succeeding days, making up with it a very sparse stream.
Group 6567, November 13–24. A regular spot, *a*, with occasionally some small companions, *a* breaks up by November 17, but part of it has reformed, as *b*, by November 19.
Group 6568, November 13–19. A few small unstable spots in a loose cluster, *f* Group 6567.

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).
1908.				°	°	°			
317·505	FS, CL	6565	0·398	285·9	157·9	+ 8·9	4	19	
		6565	0·409	292·3	157·8	+11·6	101	488	
		6565	0·359	295·9	154·4	+11·7	0	5	
		6565	0·319	301·9	151·2	+12·5	0	5	
		6566	0·751	100·1	87·4	− 5·6	0	14	
G.		6566	0·767	97·5	85·7	− 3·9	0	11	197c
		6566a	0·805	97·3	82·2	− 4·2	10	31	
		6567a	0·876	87·7	74·2	+ 3·5	19	85	
		6568	0·903	88·2	70·8	+ 2·9	0	16	479nf
			0·955	75·1	62·5	+15·1		.	476
Nov. 13				(+22·0)	(135·2)	(+2·9)	(260)	(1545)	(1874)
318·158	FS, CL		0·911	276·6	192·1	+ 7·1			124
			0·900	264·1	190·2	− 4·1			172
			0·759	281·2	175·6	+10·3			66
			0·806	240·1	175·2	−21·8			163
		6561a	0·953	283·8	198·9	+14·0	4	41	355c
		6562a	0·800	278·9	179·5	+ 8·8	10	43	84c
		6564	0·642	286·7	165·5	+12·8	136	683	
		6564	0·646	291·4	165·1	+15·8	0	2	
		6564	0·594	287·6	161·9	+12·6	0	8	175c
		6564	0·571	287·2	160·3	+12·0	6	17	
		6564	0·573	290·1	160·1	+13·7	0	1	
		6565	0·540	287·6	158·2	+11·7	91	448	
		6565	0·505	290·6	155·5	+12·7	0	6	
D.		6566	0·631	103·6	88·7	− 6·3	4	12	
		6566	0·670	99·6	85·3	− 4·3	0	10	139c
		6566	0·716	99·2	81·6	− 4·6	3	15	
		6567a	0·794	89·2	74·2	+ 2·4	19	97	
		6567	0·801	88·5	73·5	+ 2·9	1	7	
		6568	0·822	87·4	71·4	+ 3·7	4	15	
		6568	0·827	89·2	70·9	+ 2·3	0	4	233c
		6568	0·849	87·7	68·6	+ 3·5	0	9	
			0·883	64·3	66·3	+23·9			206
			0·910	87·8	61·2	+ 3·2			142
			0·919	76·3	60·1	+13·7			340
			0·954	102·6	55·3	−11·1			285
			0·972	86·0	50·3	+ 4·6			294
Nov. 14				(+21·8)	(126·6)	(+2·8)	(278)	(1418)	(2778)
319·128	AS, CL		0·980	286·1	192·3	+16·3			212
			0·876	242·7	170·8	−22·2			189
		6562a	0·911	278·4	179·3	+ 8·8	3	10	177c
		6564	0·792	284·1	165·6	+12·8	106	700	
D.		6564	0·760	284·3	162·6	+12·6	5	58	
		6564	0·739	281·8	161·0	+10·5	0	2	232c
		6564	0·735	284·0	160·4	+12·1	0	10	
		6564	0·733	286·4	160·0	+13·8	0	3	
1908.				°	°	°			
319·128	AS, CL	6565	0·705	281·1	158·2	+ 9·8	5	35	
		6565	0·706	284·3	158·0	+12·0	73	424	
		6565	0·675	282·3	155·7	+10·3	0	1	
		6565	0·679	285·8	155·7	+12·7	1	4	
		6565	0·639	286·6	152·5	+12·6	1	6	
		6570	0·241	83·2	100·0	+ 4·3	1	6	
		6566	0·430	110·1	90·0	− 6·0	3	11	
		6566	0·454	108·6	88·3	− 5·9	1	6	
		6566	0·482	107·7	86·4	− 6·0	2	12	
		6566	0·505	106·5	84·8	− 5·9	0	4	
		6566	0·501	102·7	84·6	− 4·0	1	8	
		6566a	0·515	103·8	83·8	− 4·7	8	48	
D.		6566	0·536	103·6	82·4	− 4·9	1	8	
		6567a	0·630	89·3	74·9	− 2·6	18	118	
		6568	0·673	88·0	71·6	+ 3·3	3	16	
		6568	0·686	86·0	70·6	+ 4·7	0	9	117c
		6568	0·714	87·3	68·4	+ 3·8	9	57	
		6569	0·786	80·3	62·3	+ 9·3	4	19	66c
		6569	0·800	78·5	61·0	+10·8	0	7	
			0·832	73·4	58·3	+15·3			251
			0·828	84·6	58·0	+ 6·0			172
			0·883	103·4	53·2	−10·5			296
			0·925	89·2	46·3	+ 1·8			281
			0·958	77·3	40·5	+13·0			176
Nov. 15				(+21·5)	(113·8)	(+2·7)	(245)	(1582)	(2169)
320·183	FS, CL		0·971	278·4	176·0	+ 8·8			233
			0·856	255·0	157·2	−11·4			186
		6564	0·916	283·4	166·0	+13·3	115	643	
		6564	0·898	282·1	163·5	+12·0	0	173	511c
		6565	0·856	282·6	158·4	+12·1	79	360	
		6565	0·845	284·1	157·0	+13·3	0	4	
		6570	0·042	311·9	101·7	+ 4·2	1	7	
		6570	0·055	42·9	97·8	+ 4·9	0	3	
		6566	0·221	131·2	90·3	− 5·8	0	6	
		6566	0·230	126·9	89·3	− 5·4	2	15	
		6566	0·247	128·5	88·7	− 6·3	1	18	
		6566	0·302	111·9	83·7	− 4·0	7	41	
D.		6567a	0·420	89·0	75·2	+ 2·8	15	85	
		6567	0·455	88·8	72·9	+ 2·8	2	19	
		6567	0·461	85·4	72·6	+ 4·4	2	7	
		6567	0·476	88·5	71·6	+ 3·0	0	7	
		6568	0·509	86·1	69·4	+ 4·2	0	9	
		6568	0·530	85·9	68·0	+ 4·4	5	24	
		6568	0·532	87·8	67·9	+ 3·3	3	13	
		6569	0·581	74·2	65·3	+11·2	4	13	
		6569a	0·585	76·6	64·8	+ 9·9	23	84	113c
		6569	0·613	78·4	62·6	+ 9·2	0	5	
		6569	0·642	74·1	60·9	+12·1	0	4	

Group 6569, November 15–25. Some small spots rapidly developing into a fine stream of normal type. But *a*, the leader, is neither so large nor so stable as *b*, the rear spot. A large spot, *c*, forms just behind *a*, and has coalesced with it, by November 20, forming a large regular spot, *d*.
Group 6570, November 15–16. Some very small spots near the centre of the disc.

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).
1908.				°	°	°			
320·183	FS, CL	6569*b*	0·650	76·6	60·0	+10·7	25	134	
			0·682	84·2	57·1	+ 5·9			191
			0·727	110·8	55·8	−13·1			157
			0·791	65·3	49·8	+20·9			315
D.			0·792	94·1	47·9	− 1·6			466
			0·855	79·9	41·4	+10·0			279
			0·914	115·0	37·2	−21·5			343
			0·906	99·5	35·8	− 7·5			392
			0·935	74·0	31·0	+15·9			241
Nov. 16				(+21·3)	(99·9)	(+2·6)	(284)	(1674)	(3427)
321·116	FS, AS	6564	0·979	282·9	165·9	+13·1	132	581	
		6564	0·968	280·7	163·1	+11·0	17	118	597*c*
		6564	0·966	283·1	162·6	+13·3	16	169	
		6565	0·949	280·8	159·1	+11·0	0	8	
		6565	0·948	282·6	158·9	+12·7	45	267	
		6565	0·937	281·2	157·0	+11·4	37	119	
		6566	0·148	195·0	89·8	− 5·7	2	15	
		6566	0·147	183·5	88·1	− 5·9	0	10	
		6566	0·129	148·1	83·7	− 3·8	1	11	
		6566	0·153	139·9	82·0	− 4·2	0	5	
		6567	0·202	86·1	76·0	+ 3·3	12	50	
		6567	0·238	87·7	73·9	+ 3·0	9	36	
		6567	0·248	83·2	73·4	+ 4·1	0	5	
		6568	0·304	78·0	70·3	+ 6·0	0	4	
		6568	0·320	83·1	69·1	+ 4·6	2	14	
D.		6568	0·338	85·3	68·0	+ 3·9	2	12	
		6569	0·395	66·9	66·0	+11·2	0	3	
		6569*a*	0·395	70·9	65·4	+ 9·7	16	67	
		6569	0·418	71·4	64·0	+10·0	0	7	
		6569	0·442	72·2	62·4	+10·0	4	22	
		6569	0·464	66·8	61·8	+12·8	0	1	
		6569	0·468	72·3	60·8	+10·4	2	9	
		6569*b*	0·488	70·9	59·7	+11·4	36	182	
		6569	0·478	77·2	59·6	+ 8·2	0	2	
			0·715	101·2	42·9	− 6·2			154
			0·746	83·8	39·5	+ 6·3			97
			0·844	120·0	35·0	−23·4			199
			0·831	65·9	33·4	+21·2			154
			0·891	75·6	25·0	+14·0			142
			0·949	83·6	16·0	+ 6·9			169
Nov. 17				(+21·0)	(87·6)	(+2·5)	(333)	(1717)	(1512)
322·181	CL, AS		0·921	256·8	139·5	−11·2			165
			0·890	281·7	136·2	+11·5			129
D.		6565	0·996	282·5	158·9	+12·7	0	230	
		6565	0·993	281·0	156·9	+11·2	13	97	183*f*
		6566	0·316	244·5	90·2	− 5·5	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).
1908.				°	°	°			
322·181	CL, AS	6566	0·312	241·2	89·5	− 6·3	0	2	
		6566	0·267	240·8	87·1	− 5·2	0	7	
		6567	0·052	289·7	76·4	+ 3·4	6	29	
		6567	0·041	313·2	75·3	+ 4·0	0	4	
		6567	0·031	295·5	75·2	+ 3·2	8	43	
		6567	0·035	324·6	74·8	+ 4·0	2	10	
		6568	0·034	44·4	72·2	+ 3·8	1	3	
		6568	0·059	25·4	72·1	+ 5·5	0	5	
		6568	0·102	27·3	70·9	+ 7·6	1	6	
		6568	0·089	35·5	70·6	+ 6·6	0	3	
		6568	0·060	69·1	70·4	+ 3·6	0	2	
D.		6568	0·089	63·2	69·0	+ 4·7	2	11	
		6568	0·105	72·4	67·9	+ 4·2	1	6	
		6569	0·198	42·3	65·8	+10·8	0	3	
		6569*a*	0·190	46·8	65·6	+ 9·8	12	65	
		6569*c*	0·225	50·1	63·5	+10·7	14	38	
		6569	0·260	45·5	62·7	+12·8	0	6	
		6569*b*	0·292	55·4	59·4	+11·8	44	241	
		6569	0·305	60·9	57·9	+10·8	0	5	
			0·703	128·4	36·7	−23·9			249
			0·706	70·2	30·2	+15·6			167
			0·794	84·4	21·2	+ 5·9			283
			0·813	95·6	19·7	− 3·2			157
			0·872	70·1	14·0	+18·5			170
			0·913	80·5	7·9	+ 9·6			191
			0·940	96·1	4·1	− 5·0			133
			0·956	107·1	2·2	−15·6			127
Nov. 18				(+20·7)	(73·6)	(+2·4)	(104)	(819)	(1954)
323·118	FS, AS		0·826	256·8	115·6	− 9·5			124
			0·829	247·5	114·3	−17·1			106
		6567	0·263	271·3	76·4	+ 2·6	0	1	
		6567*b*	0·263	275·7	76·3	+ 3·7	6	45	
		6567	0·257	278·6	75·9	+ 4·4	1	6	
		6567	0·242	281·7	74·9	+ 5·1	0	6	
		6568	0·223	292·8	73·1	+ 7·2	0	6	
		6568	0·204	297·3	71·7	+ 7·6	0	3	
		6569*a*	0·151	330·4	65·5	+ 9·9	19	80	
D.		6569*c*	0·164	340·5	64·4	+11·2	17	61	
		6569	0·192	345·1	64·1	+12·9	0	3	
		6569	0·146	345·7	63·3	+10·4	5	27	
		6569	0·139	356·3	61·7	+10·3	1	11	
		6569	0·152	358·1	61·5	+11·0	0	4	
		6569	0·194	359·3	61·3	+13·4	2	12	
		6569*b*	0·171	10·1	59·5	+11·9	39	239	
			0·690	84·1	17·8	+ 5·8			141
			0·801	93·7	8·3	− 1·6			116
			0·810	80·4	7·4	+ 9·2			165

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).
1908.				°	°	°			
323·118	FS, AS		0·852	61·3	5·6	+25·4			112
D.			0·921	111·0	356·5	−18·3			206
			0·932	79·7	352·7	+10·4			140
Nov. 19				(+20·4)	(61·2)	(+2·3)	(90)	(504)	(1110)
324·492	FS, CL		0·937	256·5	111·4	−11·9			275
			0·908	237·7	103·3	−28·0			149
			0·862	274·5	102·5	+ 5·0			112
			0·834	246·4	96·5	−18·3			236
			0·755	258·9	91·2	− 7·0			208
		6567*b*	0·559	273·0	77·0	+ 3·4	12	82	
		6567	0·543	275·7	75·8	+ 4·9	3	10	
G.		6569*d*	0·398	290·8	65·2	+10·1	27	215	
		6569	0·373	290·7	63·7	+ 9·5	3	14	
		6569	0·368	301·9	61·7	+13·2	0	7	
		6569	0·339	296·6	61·0	+10·7	10	48	
		6569*b*	0·327	301·7	59·5	+11·9	36	214	
		6569	0·329	307·2	58·7	+13·5	0	3	
			0·774	113·3	355·5	−16·4			233
Nov. 20				(+20·0)	(43·1)	(+2·1)	(91)	(593)	(1213)
325·198	FS, CL		0·923	276·6	101·0	+ 6·9			132
			0·878	246·5	92·2	−19·4			178
			0·802	262·9	86·6	− 4·5			243
			0·775	227·0	74·7	−30·3			145
		6567*b*	0·686	273·4	77·0	+ 3·8	10	47	} 51*c*
		6567	0·680	275·4	76·5	+ 5·2	1	4	
		6569	0·554	288·6	66·1	+11·9	0	8	
		6569*d*	0·541	286·1	65·6	+10·3	32	169	
		6569	0·523	287·4	64·2	+10·7	0	4	
		6569	0·515	285·4	63·9	+ 9·6	0	5	
D.		6569	0·483	290·0	61·3	+11·3	5	42	
		6569*b*	0·463	293·0	59·5	+12·2	31	174	
		6569	0·424	292·9	57·2	+11·3	0	2	
		6571*a*	0·989	92·3	312·6	− 2·0	0	74	156*sf*
			0·680	120·7	355·8	−18·7			110
			0·762	88·7	344·3	+ 2·3			241
			0·828	111·9	340·6	−16·8			124
			0·895	123·8	336·0	−28·7			144
			0·920	81·7	327·1	+ 8·4			204
			0·953	107·0	323·0	−15·5			105
Nov. 21				(+19·7)	(33·8)	(+2·0)	(79)	(529)	(1833)
326·124	AS, CL		0·934	277·6	90·5	+ 7·8			75
			0·917	263·8	87·6	− 5·0			188
D.			0·892	237·4	79·4	−27·7			118
		6567*b*	0·826	273·5	77·1	+ 4·0	10	28	366*c*
1908.				°	°	°			
326·124	AS, CL	6569	0·708	280·0	66·2	+ 8·4	0	2	} 175*c*
		6569*d*	0·702	282·5	65·5	+10·1	29	225	
		6569	0·698	286·8	64·2	−10·2	0	3	
		6569	0·665	287·3	62·1	+12·8	0	11	
		6569	0·652	285·7	61·3	+11·6	8	41	
		6569	0·646	287·5	60·6	+12·6	0	5	
		6569	0·640	288·8	59·9	+13·3	8	34	
D.		6569*b*	0·630	286·9	59·5	+12·0	22	153	
		6571*a*	0·936	92·9	312·5	− 2·0	12	57	} 334*f*
		6571	0·941	94·1	311·8	− 3·2	0	19	
			0·607	124·6	349·9	−18·5			116
			0·824	92·4	326·4	− 0·9			114
			0·904	108·3	318·8	−15·6			175
Nov. 22				(+19·4)	(21·6)	(+1·9)	(89)	(578)	(1661)
327·472	AS, CL		0·893	264·5	66·6	− 4·2			101
			0·813	251·7	56·2	−13·7			185
		6567*b*	0·958	272·9	76·9	+ 3·3	0	27	347*f*
		6569*d*	0·889	279·5	66·2	+ 9·2	25	179	} 454*c*
		6569	0·880	280·6	65·0	+10·1	0	12	
		6569	0·851	281·2	61·7	+10·4	0	6	
G.		6569	0·851	282·7	61·5	+11·7	0	50	
		6569	0·835	284·0	59·7	+12·6	3	16	
		6569*b*	0·829	282·5	59·2	+11·3	22	146	
		6571*a*	0·774	93·5	313·2	− 1·6	12	47	323*f*
			0·928	100·6	296·5	− 9·2			333
			0·928	84·4	295·9	+ 5·8			303
Nov. 23				(+19·0)	(3·8)	(+1·7)	(62)	(483)	(2046)
328·114	FS, CL		0·944	274·5	66·0	+ 4·8			306
			0·919	263·3	61·6	− 5·5			95
			0·898	288·7	58·2	+17·4			115
			0·882	256·8	56·2	−10·9			170
			0·815	265·3	49·6	− 2·9			116
			0·777	277·6	46·1	+ 6·9			257
		6567*b*	0·989	273·7	76·7	+ 3·9	0	21	
		6569*d*	0·944	280·0	65·9	+10·0	32	180	} 343*c*
		6569	0·939	281·1	65·0	+11·0	0	9	
D.		6569	0·918	282·3	61·6	+11·9	3	40	
		6569	0·905	283·8	59·7	+13·1	0	8	
		6569*b*	0·901	282·6	59·2	+12·0	20	145	
		6571*a*	0·669	95·0	313·8	− 2·1	0	13	168*f*
		6573	0·857	82·6	296·7	+ 7·1	0	4	209*c*
		6572	0·979	75·8	277·3	+14·3	21	78	285*c*
			0·896	97·8	292·4	− 6·3			301
			0·908	109·5	292·2	−16·9			185
			0·970	99·3	280·1	− 8·6			218
Nov. 24				(+18·8)	(355·4)	(+1·6)	(76)	(498)	(2768)

Group 6571, November 21–24. A small spot, *a*, with a small companion on November 22.
Group 6572, November 24–27. Return of Group 6558. Fourth and final apparition. A small spot.
Group 6573, November 24–26. A small spot. A revival, or perhaps a return, of Group 6563.

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).
1908.				°	°	°			
329·508	FS, CL		0·948	264·9	48·1	− 4·4			
			0·934	274·9	45·8	+ 5·1			159
			0·874	245·3	34·8	−20·6			237
			0·787	285·7	27·9	+13·2			222
		6569*b*	0·991	281·3	59·2	+11·4			166
		6573	0·620	81·3	299·1	+ 6·6	33	181	316*f*
G.		6574	0·668	116·0	298·5	−15·8	5	23	130*f*
		6574	0·689	114·9	296·7	−15·7	1	12	} 78*c*
		6572	0·862	73·9	278·4	+14·6	0	16	
			0·739	105·5	290·8	−10·3	10	45	360*f*
			0·887	102·0	275·5	− 9·9			168
			0·823	86·4	281·8	+ 3·9			443
Nov. 25				(+18·3)	(337·0)	(+1·5)	(49)	(277)	170 (2449)
330·190	FS, AS		0·959	270·4	41·3	+ 0·8			
			0·930	283·3	35·9	+12·9			159
			0·886	265·5	30·0	− 3·3			319
			0·799	278·2	20·7	+ 7·4			150
			0·833	238·8	19·4	−24·6			258
			0·781	258·6	18·4	− 8·0			154
			0·798	295·3	18·3	+20·8			197
			0·688	271·4	11·3	+ 2·0			97
		6573	0·489	79·4	299·2	+ 6·4	2	9	111
D.		6574	0·556	122·2	298·8	−16·0	4	27	
		6574	0·603	121·2	295·5	−16·9	8	32	
		6572	0·784	72·5	277·6	+14·5	6	28	
			0·628	99·6	289·7	− 4·9			293*f*
			0·792	102·3	276·7	− 8·8			173
			0·840	111·5	273·3	−17·1			298
			0·903	59·3	266·5	+28·1			148
			0·939	117·1	261·2	−24·8			137
			0·952	67·5	256·8	+21·9			216
Nov. 26				(+18·1)	(328·0)	(+1·4)	(20)	(96)	295 (3005)
331·189	FS, CL		0·929	288·7	22·2	+17·8			
			0·912	277·4	20·4	+ 7·3			115
			0·909	260·2	19·5	− 8·3			156
			0·903	246·7	16·9	−20·3			134
			0·877	306·6	11·0	+32·2			93
			0·813	285·3	8·3	+13·1			222
D.			0·790	258·7	6·2	− 8·1			221
			0·745	243·3	359·4	−18·7			104
		6574	0·379	141·8	300·8	−16·1	2	19	105
		6574	0·420	136·6	297·4	−16·6	0	3	
		6574	0·409	133·0	296·9	−15·0	5	17	
		6574*a*	0·459	134·4	294·9	−17·5	19	106	
		6574	0·445	131·2	294·6	−15·9	0	2	
		6572	0·629	68·0	278·0	+14·6	0	13	200*c*

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).
1908.				°	°	°			
331·189	FS, CL	6572*	0·709	69·8	271·5	+15·0	0	10	
			0·712	106·7	271·1	−10·9			153
			0·795	51·3	269·0	+30·6			150
			0·878	79·7	254·0	+ 9·6			189
D.			0·892	70·7	253·0	+17·7			189
			0·913	62·5	251·4	+25·5			210
			0·901	98·4	251·3	− 7·0			148
			0·933	113·8	248·5	−21·6			207
Nov. 27				(+17·7)	(314·9)	(+1·2)	(26)	(170)	(2596)
332·152	AS, CL		0·924	282·2	9·2	+11·7			
			0·794	247·8	352·1	−16·7			139
		6574	0·292	180·6	302·4	−15·9	0	3	167
		6574	0·314	179·4	302·0	−17·1	0	6	
		6574	0·302	176·0	300·9	−16·4	0	8	
		6574	0·296	172·2	299·8	−15·9	0	10	
		6574	0·317	167·5	298·1	−16·9	0	12	
		6574	0·279	165·1	298·0	−14·5	0	3	
		6574	0·291	165·6	297·9	−15·2	3	9	
D.		6574	0·343	165·4	297·0	−18·2	0	5	
		6574	0·315	159·9	295·8	−16·0	3	15	
		6574*a*	0·347	158·5	294·6	−17·7	19	123	
		6572*	0·564	65·9	270·3	+14·2	0	4	
			0·777	127·3	258·3	−27·2			153
			0·782	60·1	254·6	+23·7			275
			0·865	67·4	244·2	+20·0			170
			0·891	112·7	241·7	−19·5			235
			0·947	72·7	231·7	+16·7			173
			0·955	95·2	229·9	− 4·6			161
Nov. 28				(+17·3)	(302·2)	(+1·1)	(25)	(198)	(1473)
333·142	FS, CL		0·877	249·1	348·2	−17·7			100
		6574	0·345	213·7	300·5	−15·7	0	15	
		6574	0·335	206·9	298·1	−16·3	0	6	
		6574	0·319	199·2	295·4	−16·5	0	4	
		6574	0·335	194·8	294·2	−17·8	0	10	
D.		6574*a*	0·323	193·1	293·5	−17·2	19	90	
			0·749	50·1	248·0	+29·4			251
			0·800	62·8	239·1	+22·1			347
			0·861	109·0	231·6	−15·7			137
			0·898	96·5	225·7	− 5·4			182
			0·922	62·4	224·3	+25·7			138
Nov. 29				(+16·9)	(289·1)	(+1·0)	(19)	(125)	(1155)
334·121	FS, AS		0·858	247·7	332·8	−18·5			125
		6574	0·518	236·3	302·7	−15·9	0	6	
D.		6574	0·488	235·3	300·7	−15·3	2	25	

Group 6574, November 25–December 4. A few small spots irregularly scattered, developing into a regular spot, *a*, preceded by a scattered flight of small unstable spots in continual change.

Group 6572*, November 27–28. A very small spot, *f* Group 6572.

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).
1908.				°	°	°			
334·121	FS, AS	6574	0·468	233·1	298·9	−15·4	0	5	
		6574*a*	0·424	223·0	293·7	−17·2	14	79	
		6574	0·433	220·1	293·2	−18·4	2	8	
		6575*a*	0·991	103·3	194·4	−13·1	31	233	171*p*
			0·681	69·7	235·1	+14·3			110
			0·773	114·3	228·6	−17·9			89
D.			0·792	99·9	224·5	− 7·3			210
			0·864	64·0	219·1	+22·7			127
			0·907	101·5	211·9	−10·0			254
			0·933	114·1	209·7	−22·0			296
			0·959	75·4	203·2	+14·3			234
Nov. 30				(+16·6)	(276·2)	(+0·9)	(49)	(356)	(1616)
335·170	CL, AS		0·873	289·8	321·6	+17·5			142
			0·871	249·5	320·9	−17·4			103
			0·807	266·1	315·9	− 2·8			190
		6574	0·668	245·6	301·4	−15·4	0	4	79*c*
		6574	0·660	245·3	300·7	−15·4	2	16	
		6574*a*	0·587	238·6	293·9	−17·2	13	59	
		6576	0·567	277·2	296·6	+ 4·7	0	3	
D.		6575*a*	0·940	104·1	193·3	−13·0	28	199	476*c*
			0·637	99·0	223·4	− 5·2			167
			0·772	105·3	213·2	−11·3			296
			0·869	116·6	205·4	−22·5			290
			0·880	74·1	201·8	−14·3			213
			0·964	78·0	188·3	+11·7			468
Dec. 1				(+16·2)	(262·4)	(+0·7)	(43)	(281)	(2424)
336·138	FS, AS		0·889	267·2	312·1	− 2·2			198
			0·791	277·8	301·5	+ 6·5			122
			0·724	263·0	295·6	− 4·7			133
		6574	0·809	249·8	301·5	−15·9	4	13	206*c*
		6574*a*	0·742	245·3	294·4	−17·6	13	51	
		6576	0·686	280·6	292·3	+ 7·7	0	12	44*c*
		6576	0·680	278·6	292·0	+ 6·3	0	22	
		6575*a*	0·838	105·6	194·0	−12·7	35	198	383*f*
D.		6577*a*	0·991	78·1	167·6	+11·9	210	646	109*p*
			0·718	125·2	209·8	−23·9			116
			0·730	111·2	205·0	−14·9			196
			0·732	69·9	204·4	+15·0			75
			0·807	94·8	196·1	− 3·5			95
			0·888	75·2	187·9	+13·4			313
			0·973	112·6	174·3	−21·9			251
Dec. 2				(+15·8)	(249·6)	(+0·6)	(262)	(942)	(2241)
337·125	FS, CL		0·964	268·2	310·9	− 1·6			159
D.			0·901	277·7	300·5	+ 7·1			49
337·125	FS, CL		0·835	262·4	292·7	− 6·0			194
			0·752	247·3	282·8	−16·5			73
			0·684	257·3	278·8	− 8·3			95
		6574	0·916	252·5	301·5	−15·7	0	5	235*c*
		6574*a*	0·857	248·9	293·5	−17·7	6	27	
		6576	0·840	278·5	293·3	+ 7·4	0	7	116*c*
		6576	0·818	277·8	291·1	+ 6·7	0	13	
		6575*a*	0·701	108·7	193·9	−12·6	33	226	279*f*
D.		6575	0·738	106·7	190·5	−11·9	1	10	
		6575	0·746	103·7	189·4	− 9·8	0	8	
		6577*a*	0·933	77·6	168·3	+11·7	118	578	675*f*
		6577	0·967	76·0	161·9	+13·7	0	42	
			0·590	124·1	205·6	−18·9			160
			0·774	71·7	187·4	+14·4			304
			0·781	80·8	185·8	+ 7·5			86
			0·908	112·2	173·5	−19·8			203
Dec. 3				(+15·4)	(236·6)	(+0·5)	(158)	(916)	(2628)
338·199	FS, CL		0·820	260·6	277·0	− 7·5			140
			0·803	290·8	273·9	+16·8			161
		6574*a*	0·952	251·3	293·4	−17·7	0	16	138*p*
		6576	0·937	277·6	291·7	+ 7·3	0	11	149*c*
		6575*a*	0·520	115·5	193·9	−12·6	24	164	
D.		6577*a*	0·826	75·8	167·8	+11·9	138	599	383*nf*
		6577	0·885	74·7	161·3	+13·7	6	21	
			0·769	125·1	178·3	−25·9			109
			0·869	105·3	163·3	−13·1			108
			0·906	80·2	158·0	+ 9·1			220
Dec. 4				(+15·0)	(222·5)	(+0·4)	(168)	(811)	(1408)
339·350	AS, CL		0·913	286·9	272·0	+15·4			196
			0·765	296·1	254·0	+19·8			116
		6575*a*	0·319	133·2	193·6	−12·4	18	156	
		6577*a*	0·659	71·7	167·7	+12·1	149	653	203*n*
		6577	0·716	68·8	163·7	+15·1	0	8	
		6577	0·741	71·2	161·2	+13·9	0	11	
D.			0·768	133·7	166·7	−31·8			274
			0·747	122·8	164·2	−23·7			105
			0·810	115·8	156·4	−20·5			273
			0·809	77·5	154·1	+10·2			391
			0·918	50·6	146·6	+35·7			161
			0·908	106·2	143·2	−14·6			279
Dec. 5				(+14·5)	(207·3)	(+0·2)	(167)	(828)	(1998)
340·146	FS, AS		0·895	293·5	258·1	+20·9			215
			0·869	307·4	251·0	+31·9			118
D.		6575*a*	0·217	168·5	194·3	−12·1	15	66	

Group 6575, November 30–December 9. A large regular spot, *a*, with occasionally some small companions.
Group 6576, December 1–4. A cluster of small faint spots. A revival of Group 6573.
Group 6577, December 2–14. Return of Group 6564. A very large regular spot, *a*, with some 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).
1908.				°	°	°			
340·146	FS, AS	6575	0·224	165·5	193·5	−12·4	1	7	
		6575	0·238	163·7	192·9	−13·0	2	11	
		6577*a*	0·519	65·9	167·9	+12·3	120	545	} 201*nf*
D.		6577	0·610	66·6	161·7	+14·0	0	7	
		6578	0·723	73·3	151·9	+12·0	0	5	69*c*
			0·847	107·3	140·4	−14·5			120
			0·913	77·6	131·6	+11·4			144
Dec. 6				(+14·2)	(196·8)	(+0·1)	(138)	(641)	(867)
341·137	CL, AS		0·928	294·4	249·8	+22·5			242
			0·832	247·6	237·8	−18·4			181
			0·719	296·6	226·4	+18·7			92
		6575*a*	0·276	220·8	194·4	−12·0	8	48	
		6575	0·269	218·5	193·6	−12·1	0	7	
		6575	0·280	214·6	193·2	−13·3	1	10	
D.		6575	0·242	216·6	192·2	−11·1	0	5	
		6577*a*	0·340	51·6	168·1	+12·1	119	571	
		6577	0·404	52·2	164·6	+14·3	0	2	
		6578	0·521	65·1	155·0	+12·6	0	6	
			0·803	89·1	130·6	+ 0·8			107
			0·864	77·5	124·8	+10·8			264
			0·890	104·4	121·9	−12·8			140
Dec. 7				(+13·8)	(183·8)	(0·0)	(128)	(649)	(1026)
342·481	FS, AS		0·858	245·9	222·6	−20·6			198
			0·836	261·7	222·2	− 7·0			175
		6575*a*	0·512	246·1	194·5	−12·1	10	30	
		6575	0·508	242·5	193·5	−13·7	1	11	
		6575	0·469	239·2	190·4	−14·0	0	8	
G.		6577*a*	0·215	349·8	168·2	+12·0	124	621	
		6577	0·186	5·3	165·0	+10·4	0	6	
		6577	0·279	4·3	164·8	+15·9	0	5	
		6577	0·218	6·3	164·6	+12·3	0	9	
			0·801	118·4	116·5	−22·5			236
			0·926	108·8	99·5	−17·4			178
			0·941	96·1	96·1	− 5·8			265
Dec. 8				(+13·2)	(166·0)	(−0·2)	(135)	(690)	(1052)
343·281	FS, AS		0·906	263·0	220·1	− 6·5			138
			0·850	252·9	212·4	−14·6			101
			0·821	239·0	206·4	−25·2			135
			0·772	291·0	203·8	+15·9			101
D.			0·749	244·9	201·1	−18·7			85
		6575*a*	0·658	251·8	195·1	−12·1	3	12	} 64*p*
		6575	0·651	248·9	194·1	−13·8	0	14	
		6577*a*	0·309	316·0	168·1	+12·5	121	585	
		6577	0·341	323·0	167·7	+15·4	0	3	
1908.				°	°	°			
343·281	FS, AS	6577	0·318	330·0	165·0	+15·6	0	4	
		6578	0·224	355·8	156·5	+12·6	0	2	
		6578	0·220	8·2	153·7	+12·3	2	8	
		6578*	0·272	180·6	155·7	−16·0	2	9	
		6579	0·981	93·8	76·9	− 3·8	11	35	230*c*
D.			0·815	85·9	101·2	+ 3·2			78
			0·859	72·5	97·8	+14·8			114
			0·884	95·6	93·7	− 5·1			182
			0·902	109·4	92·6	−17·5			141
			0·952	85·5	83·6	+ 4·2			208
Dec. 9				(+12·9)	(155·5)	(−0·3)	(139)	(672)	(1577)
344·536	CL, AS		0·859	280·5	197·5	+ 8·8			143
			0·857	235·5	192·9	−29·3			153
			0·810	256·0	192·2	−11·6			183
		6577*a*	0·522	294·3	168·0	+12·0	110	559	
		6578	0·346	311·3	154·4	+12·7	0	8	
G.		6578	0·323	316·2	152·2	+13·0	5	19	
		6579	0·882	94·4	77·4	− 4·2	5	32	306*f*
		6580*a*	0·954	77·9	67·2	+11·4	0	22	270*s*
			0·878	128·7	83·9	−33·5			165
			0·870	113·3	80·8	−20·3			200
			0·943	69·3	70·1	+19·3			169
Dec. 10				(+12·4)	(139·0)	(−0·5)	(120)	(640)	(1589)
345·161	FS, CL		0·952	284·7	201·9	+13·8			156
			0·848	253·4	187·5	−14·3			302
			0·846	285·2	187·2	+12·5			160
		6577*a*	0·634	290·2	168·0	+12·2	134	581	} 145*c*
		6577	0·587	293·6	164·1	+13·1	0	4	
		6578	0·476	301·2	155·4	+13·8	0	6	
		6578	0·436	304·1	152·4	+13·6	3	10	
D.		6579	0·804	94·7	77·5	− 4·1	7	38	112*c*
		6580*a*	0·906	77·1	66·6	+11·4	9	23	211*sf*
			0·872	96·3	70·3	− 5·7			184
			0·908	124·7	70·0	−31·3			267
			0·915	69·4	66·4	+18·5			211
			0·962	97·9	56·9	− 7·7			357
			0·969	81·0	55·5	+ 8·6			298
Dec. 11				(+12·1)	(130·7)	(−0·5)	(153)	(662)	(2403)
346·478	FS, AS		0·896	250·9	175·7	−17·4			152
			0·791	293·7	162·8	+18·1			176
		6577*a*	0·826	284·7	167·9	+11·7	149	623	338*c*
G.		6579	0·585	96·4	77·9	− 4·3	4	20	167*f*
		6580*a*	0·742	73·8	67·0	+11·4	3	21	325*f*
			0·865	92·7	53·7	− 2·7			203
Dec. 12				(+11·5)	(113·4)	(−0·7)	(156)	(664)	(1361)

Group 6578, December 6–15. A disturbed area in which a few unstable spots appear intermittently. The group is not seen on December 8, or on December 12 and 13. A revival of Group 6565.
Group 6578* December 9. A small spot on the same meridian as Group 6578, but in the Southern hemisphere.
Group 6579, December 9–13. A small spot.
Group 6580, December 10–16. Return of Group 6569. A small spot, *a*, with occasionally a 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).
1908.				°	°	°			
347·160	AS, CL		0·877	260·2	165·2	− 9·0			122
			0·871	249·8	163·4	−17·9			119
			0·825	289·9	157·9	+15·8			479
		6577*a*	0·904	283·9	168·0	+12·2	102	530	205*p*
		6579	0·451	97·4	77·9	− 4·0	2	8	
		6580*a*	0·640	70·8	66·5	+11·5	3	17	90*c*
			0·677	136·4	71·9	−30·0			109
			0·706	60·5	63·8	+19·7			128
D.			0·729	107·8	59·1	−13·4			133
			0·759	73·8	56·5	+11·7			131
			0·864	134·1	53·2	−37·4			106
			0·795	97·1	52·1	− 6·1			140
			0·805	98·4	51·2	− 7·2			161
			0·841	64·6	50·4	+20·6			118
			0·890	77·5	42·4	+10·7			174
			0·907	112·2	41·0	−20·4			177
			0·949	99·7	33·1	− 9·5			185
Dec. 13				(+11·2)	(104·4)	(−0·8)	(107)	(555)	(2577)
348·133	FS, CL		0·879	256·1	152·4	−12·7			122
			0·759	250·6	139·3	−15·1			107
		6577*a*	0·977	282·8	168·6	+12·3	99	493	} 277*f*
		6577	0·976	280·8	168·4	+10·4	0	43	
		6578	0·932	285·4	159·2	+14·0	0	21	} 293*c*
		6578	0·913	285·6	156·3	+13·8	7	22	
		6580*a*	0·470	62·9	66·4	+11·5	5	15	
		6580	0·474	66·6	65·5	+10·0	0	11	
D.			0·627	105·5	53·9	−10·3			226
			0·688	72·3	49·8	+11·4			287
			0·760	115·1	45·0	−19·3			197
			0·798	85·4	39·0	+ 3·1			202
			0·894	134·2	36·2	−39·0			190
			0·868	101·2	31·9	−10·2			235
			0·900	117·2	30·0	−24·7			231
			0·895	72·3	29·7	+15·3			155
Dec. 14				(+10·7)	(91·6)	(−0·9)	(111)	(605)	(2522)
349·134	FS, AS		0·874	252·9	138·2	−15·4			142
			0·848	286·7	134·9	+13·6			116
		6578	0·977	284·6	155·2	+14·0	10	54	228*c*
		6580*a*	0·298	44·2	66·2	+11·3	2	9	
		6580	0·312	48·7	64·7	+10·9	0	7	
D.			0·743	65·2	33·6	+17·4			135
			0·756	104·2	30·2	−11·3			139
			0·795	121·1	30·0	−24·9			149
			0·849	108·8	21·7	−16·4			141
			0·858	78·6	20·2	+ 9·2			119
Dec. 15				(+10·3)	(78·4)	(−1·0)	(12)	(70)	(1169)
1908.				°	°	°			
350·247	CL, AS		0·953	254·4	135·5	−15·2			122
			0·859	268·4	122·7	− 2·0			135
			0·821	254·3	117·9	−13·6			102
			0·796	287·1	114·8	+12·7			123
		6581	0·940	254·3	133·1	−15·1	0	6	
		6580*a*	0·220	349·2	66·1	+11·3	2	7	
		6582	0·258	125·3	51·4	− 9·7	2	6	
		6582	0·300	123·0	48·9	−10·6	0	4	
D.		6583	0·599	106·7	28·1	−10·9	2	14	
		6583	0·602	103·9	27·5	− 9·3	0	3	
		6583	0·623	104·7	26·1	−10·0	1	7	
		6584	0·642	78·3	24·6	+ 6·6	0	6	
			0·824	121·8	12·4	−26·4			160
			0·918	110·1	358·3	−18·9			187
			0·934	71·4	356·3	+16·8			163
Dec. 16				(+9·8)	(63·7)	(−1·2)	(7)	(53)	(992)
351·174	CL, AS		0·762	239·4	97·1	−23·7			66
		6582	0·152	173·1	50·4	− 9·9	4	10	
		6582	0·169	163·8	48·8	−10·6	3	11	
		6583	0·379	115·9	31·3	−10·7	4	15	
		6583	0·436	113·2	27·5	−11·0	0	2	
		6583	0·459	111·4	25·8	−10·8	0	4	
		6584	0·446	72·3	26·3	+ 6·6	0	2	
D.		6584	0·478	74·0	24·1	+ 6·4	0	1	
		6584	0·567	71·0	18·7	+ 9·5	1	5	
		6584	0·577	73·4	17·7	+ 8·4	1	5	
		6585	0·519	122·2	24·3	−17·1	0	4	
			0·859	75·6	353·6	+11·6			83
			0·887	111·7	350·5	−19·8			103
			0·937	69·7	343·9	+18·4			76
Dec. 17				(+9·4)	(51·5)	(−1·3)	(13)	(59)	(328)
352·293	FS, AS		0·764	276·3	86·2	+ 3·9			132
			0·748	265·6	85·0	− 4·2			105
		6582	0·285	241·0	51·4	− 9·3	2	9	
		6586	0·240	355·4	37·9	+12·4	1	6	
		6586	0·258	9·9	34·2	+13·3	0	8	
		6583	0·168	160·5	33·5	−10·5	0	3	
		6583	0·188	155·2	32·2	−11·2	0	9	
D.		6583	0·233	142·1	28·4	−12·0	2	8	
		6584*a*	0·236	54·3	25·7	+ 6·5	8	31	
		6584	0·261	61·2	23·6	+ 5·8	1	8	
		6584*b*	0·283	60·8	22·5	+ 6·6	8	28	
		6585	0·333	143·3	24·9	−16·8	0	2	
			0·860	64·0	340·9	+21·3			187
			0·925	97·3	329·4	− 7·3			125
Dec. 18				(+8·8)	(36·8)	(−1·4)	(22)	(112)	(549)

Group 6581, December 16. A very small spot.
Group 6582, December 16–18. Some small spots.
Group 6583, December 16–24. A few small unstable spots.
Group 6584, December 16–25. A few very small spots developing into a stream of normal type. The largest and most stable members of the group are *a* and *b*, the first and last on December 20. *b* has broken up by December 22, and the smaller spots are unstable, so that *a* alone remains by December 25.
Group 6585, December 17–25. Some very small unstable spots. The group is not seen on December 20, 21, or 22.
Group 6586, December 18. A few very small spots in a straight 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).
1908.				°	°	°			
353·171	FS, CL		0·915	264·5	91·2	− 5·7			112
			0·848	277·9	82·6	+ 5·9			146
			0·761	265·1	74·5	− 4·7			279
		6583	0·229	226·6	34·9	−10·5	2	15	
		6583	0·217	218·5	33·1	−11·3	0	4	
		6583	0·186	199·2	28·8	−11·6	3	9	
		6584*a*	0·132	347·3	26·9	+ 5·9	15	93	
D.		6584	0·147	356·8	25·7	+ 6·9	4	27	
		6584	0·130	358·6	25·4	+ 5·9	0	9	
		6584*b*	0·145	12·1	23·5	+ 6·6	14	97	
		6584	0·127	14·5	23·4	+ 5·5	0	4	
		6584	0·150	21·3	22·1	+ 6·5	4	12	
		6585	0·297	186·8	27·3	−18·6	0	5	
			0·778	63·7	337·8	+19·1			203
			0·917	96·7	318·9	− 6·8			399
Dec. 19				(+8·4)	(25·2)	(− 1·5)	(42)	(275)	(1139)
354·163	AS, CL		0·967	273·3	87·1	+ 2·8			124
			0·887	263·9	74·5	− 6·2			286
			0·818	277·7	66·5	+ 5·3			167
			0·792	288·0	62·7	+13·1			165
		6583	0·401	245·1	33·9	−11·3	0	5	
		6584*a*	0·292	294·8	27·6	+ 5·4	16	112	
D.		6584	0·280	297·5	26·6	+ 5·8	2	20	
		6584*b*	0·238	307·3	23·1	+ 6·6	24	133	
			0·802	92·7	319·0	− 3·2			116
			0·924	109·1	305·6	−18·3			290
			0·932	82·6	304·0	+ 6·3			175
			0·945	96·6	301·5	− 6·8			242
Dec. 20				(+8·0)	(12·2)	(− 1·7)	(42)	(270)	(1565)
355·250	FS, CL		0·920	283·9	63·6	+12·1			297
			0·890	296·2	57·2	+22·2			157
			0·856	261·0	56·3	− 8·6			185
			0·858	249·4	55·4	−18·5			114
			0·848	273·7	55·4	+ 2·2			141
			0·775	287·1	46·8	+12·0			76
		6583	0·620	254·3	35·1	−11·1	1	4	20*c*
		6584*a*	0·510	282·6	27·6	+ 4·8	22	126	
D.		6584	0·470	288·6	24·3	+ 7·0	0	5	
		6584*b*	0·441	288·0	22·6	+ 6·2	15	61	
		6584	0·420	286·4	21·6	+ 5·2	0	2	
		6587	0·271	199·1	3·1	−16·6	7	23	
		6587	0·241	195·0	1·5	−15·2	0	2	
		6587	0·254	191·5	0·8	−16·2	0	6	
		6587	0·273	185·2	359·3	−17·5	4	20	
		6588	0·804	108·6	305·5	−16·0	0	6	157*c*
			0·830	94·1	301·9	− 4·4			114
355·250	FS, CL		0·864	80·7	298·8	+ 7·1			95
D.			0·941	105·5	288·0	−15·2			203
Dec. 21				(+7·5)	(357·8)	(− 1·8)	(49)	(255)	(1559)
356·289	FS, AS		0·925	262·7	51·7	− 7·5			139
			0·888	274·6	46·4	+ 3·2			184
			0·912	299·4	45·9	+25·7			90
			0·859	286·9	41·7	+13·4			207
		6583	0·790	257·6	35·8	−10·9	0	28	158*c*
		6583	0·760	257·9	33·1	−10·4	3	23	
		6584*a*	0·700	278·1	28·0	+ 4·3	25	140	
		6584	0·683	280·2	26·5	+ 5·5	0	14	
		6584	0·670	281·5	25·4	+ 6·2	6	35	
		6584	0·650	283·8	23·6	+ 7·4	0	15	95*c*
		6584	0·649	285·1	23·3	+ 8·2	0	5	
		6584	0·641	280·4	23·3	+ 5·2	0	13	
		6584	0·638	282·6	22·8	+ 6·5	1	5	
D.		6587	0·423	233·6	4·9	−16·3	9	40	
		6587	0·401	229·0	2·6	−17·0	0	15	
		6587	0·365	229·7	0·9	−15·4	1	6	
		6587	0·385	223·9	0·4	−17·9	0	1	
		6587	0·371	223·0	359·5	−17·5	2	8	
		6588	0·654	112·9	305·5	−16·2	1	11	
		6588	0·680	110·6	303·1	−15·2	5	16	65*c*
		6588	0·686	112·7	303·0	−16·8	0	1	
			0·763	100·6	294·9	− 9·3			116
			0·813	115·4	292·3	−21·5			137
			0·883	88·0	282·5	+ 0·9			147
			0·908	100·8	279·3	−10·6			215
			0·924	117·3	278·5	−25·9			110
			0·940	68·7	276·3	+19·3			201
Dec. 22				(+7·0)	(344·2)	(− 1·9)	(53)	(376)	(1864)
357·283	CL, AS		0·916	287·8	35·5	+15·3			99
		6583	0·881	259·6	32·5	−10·2	0	13	186*s*
		6584*a*	0·844	276·7	28·0	+ 4·5	16	121	
		6584	0·817	279·0	25·0	+ 6·1	6	60	185*c*
		6584	0·803	280·5	23·5	+ 7·1	0	6	
		6585	0·843	252·2	27·4	−16·1	5	20	
D.		6585	0·815	251·5	24·4	−16·2	6	29	53*c*
		6587	0·611	245·8	6·3	−16·2	9	65	
		6587	0·594	244·7	4·9	−16·4	12	45	
		6587	0·579	243·6	3·6	−16·6	0	5	
		6587	0·571	245·0	3·4	−15·7	3	10	
		6587	0·574	241·5	2·8	−17·7	15	38	
		6587	0·555	241·2	1·5	−17·2	3	12	
		6587	0·564	238·5	1·4	−18·9	2	11	

Group 6587, December 21–26. A stream of spots suddenly appearing on the Central meridian and developing rapidly with many changes. Its final form is that of a large composite spot. *a*, followed by an unstable train.
Group 6588. December 21–31. A very small spot on December 21. The group develops rapidly, and becomes a long straight stream made up of small unstable spots.
Group 6587*, December 23–25. Some small unstable spots, *sf* Group 6587.

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).
1908.				°	°	°			
357·283	CL, AS	6587	0·535	242·7	0·5	−16·0	0	7	
		6587	0·531	240·3	359·7	−17·1	0	2	
		6587*	0·538	235·1	358·8	−19·7	0	8	
		6587*	0·521	236·8	358·2	−18·4	0	9	
		6588	0·469	122·7	306·8	−16·5	10	36	
		6588	0·467	119·1	306·1	−15·0	0	2	
		6588	0·499	121·5	304·7	−16·9	0	2	
		6588	0·490	119·1	304·7	−15·6	0	2	
D.		6588	0·505	118·5	303·7	−15·8	1	9	
		6588	0·524	120·7	303·0	−17·3	0	4	
		6588	0·527	118·1	302·2	−16·2	11	33	
			0·830	58·2	280·4	+24·5			114
			0·847	69·7	275·5	+15·9			165
			0·895	124·4	271·4	−31·3			119
			0·887	114·0	270·2	−22·2			115
			0·896	101·9	267·7	−11·6			90
			0·963	76·7	257·7	+12·2			107
Dec. 23				(+6·5)	(331·0)	(−2·1)	(99)	(549)	(1233)
358·145	FS, AS		0·948	285·4	29·7	+13·8			125
			0·838	232·6	11·2	−31·9			117
		6583	0·950	259·9	31·4	−10·3	0	20	245*s*
		6584	0·940	277·5	29·1	+ 6·3	0	15	
		6584*a*	0·933	275·4	28·1	+ 4·3	24	109	280*c*
		6584	0·926	277·3	26·9	+ 5·9	0	20	
		6584	0·906	277·3	24·1	+ 5·7	0	13	
		6585	0·938	253·8	28·9	−15·9	37	159	
		6585	0·922	251·9	26·2	−17·5	0	11	135*c*
		6585	0·903	252·2	23·5	−17·0	20	119	
		6587*a*	0·739	249·7	5·8	−16·3	38	166	
		6587	0·716	249·8	3·8	−15·9	0	26	
D.		6587	0·702	245·8	1·9	−18·3	16	83	224*c*
		6587	0·684	247·2	0·8	−17·0	10	25	
		6587*	0·665	244·6	358·8	−18·3	0	8	
		6587*	0·666	241·8	358·2	−20·0	4	19	
		6588	0·305	143·5	308·9	−16·3	4	16	
		6588	0·324	141·0	307·5	−16·7	9	27	
		6588	0·341	136·4	305·6	−16·4	3	21	
		6588	0·367	137·5	304·7	−17·8	2	7	
		6588	0·366	132·8	303·5	−16·5	6	35	
		6588	0·387	132·3	302·4	−17·1	1	5	
		6588	0·387	130·7	302·0	−16·6	10	21	
			0·881	76·6	259·2	+10·7			129
Dec. 24				(+6·1)	(319·7)	(−2·2)	(184)	(925)	(1255)
359·173	FS, CL		0·875	286·8	5·3	+13·4			164
D.			0·761	239·5	351·9	−24·3			103
		6584*a*	0·990	275·0	27·4	+ 4·6	0	48	153*n*
1908.				°	°	°			
359·173	FS, CL	6585	0·978	253·5	23·9	−16·6	0	35	90*c*
		6587*a*	0·870	252·8	5·7	−16·0	16	155	
		6587	0·840	250·3	2·0	−17·7	4	41	304*c*
		6587*	0·802	246·6	357·5	−20·0	0	12	
		6589*a*	0·255	269·0	320·8	− 2·5	39	95	
		6589	0·247	262·0	320·2	− 4·2	0	6	
		6589	0·226	264·4	319·1	− 3·5	2	12	
		6589*b*	0·208	270·5	318·1	− 2·1	22	76	
		6589	0·181	265·2	316·5	− 3·1	4	14	
		6588	0·253	198·7	310·9	−16·1	2	8	
		6588	0·252	192·0	309·2	−16·5	2	9	
D.		6588	0·245	188·0	308·1	−16·3	0	6	
		6588	0·248	182·3	306·7	−16·6	3	15	
		6588	0·260	176·8	305·2	−17·3	0	5	
		6588	0·244	175·1	304·9	−16·3	0	8	
		6588	0·259	168·8	303·1	−17·0	2	32	
		6588	0·245	167·0	302·8	−16·0	5	22	
		6588	0·272	163·8	301·6	−17·4	4	12	
			0·821	76·0	252·3	+10·1			205
			0·916	115·2	241·3	−23·9			139
			0·926	102·8	238·6	−12·7			182
Dec. 25				(+5·6)	(306·1)	(−2·3)	(105)	(611)	(1340)
360·248	AS, CL		0·861	292·5	348·5	+17·9			115
			0·824	243·9	345·1	−22·7			113
		6587*a*	0·961	253·9	5·8	−16·2	19	145	369*f*
		6587	0·952	251·9	3·8	−18·0	0	21	
		6589*a*	0·507	268·1	322·4	− 3·1	46	232	
		6589	0·480	266·3	320·6	− 3·9	0	6	
		6589	0·453	268·5	318·8	− 2·8	0	4	
		6589*b*	0·425	269·9	317·1	− 2·3	28	235	
		6589	0·411	265·0	316·1	− 4·3	8	56	
D.		6588	0·397	233·5	311·3	−15·9	1	8	
		6588	0·352	226·4	307·3	−16·3	9	39	
		6588	0·316	214·7	302·8	−17·4	1	10	
		6588	0·288	218·5	302·7	−15·3	0	3	
		6588	0·295	214·6	302·0	−16·4	0	7	
		6588	0·306	211·0	301·5	−17·5	0	2	
			0·844	53·8	241·5	+28·3			129
			0·854	73·1	235·2	+13·0			112
			0·882	97·0	230·3	− 7·3			203
			0·943	104·7	221·7	−14·7			127
Dec. 26				(+5·1)	(292·0)	(−2·4)	(112)	(768)	(1168)
361·167	FS, CL		0·938	251·2	349·1	−18·5			305
D.			0·917	288·4	344·4	+15·7			160

Group 6589, December 25–30. A straight stream appearing suddenly near the Central meridian, and developing rapidly. The two chief spots, *a* and *b*, alone remain by December 28, and then appear as a large regular spot with a distant composite follower.

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).
1908.				°	°	°			
361·167	FS, CL	6589*a*	0·684	268·7	322·9	− 2·7	61	277	
		6589	0·640	271·5	319·5	− 1·0	0	3	
		6589	0·603	265·8	316·8	− 4·6	0	7	178*c*
		6589*b*	0·598	270·3	316·5	− 1·9	21	141	
		6589	0·590	267·0	315·9	− 3·8	12	32	
		6588	0·569	246·3	312·5	−15·3	0	5	
D.		6588	0·538	244·2	310·0	−15·7	6	22	
		6588	0·458	234·9	302·9	−17·5	0	13	
		6590	0·721	62·5	237·9	+17·6	11	33	83*f*
			0·850	101·5	222·0	−11·1			162
			0·958	112·5	207·1	−22·3			212
			0·969	81·2	204·9	+ 7·9			170
Dec. 27				(+4·6)	(279·9)	(− 2·5)	(111)	(533)	(1270)
362·457	FS, CL		0·949	288·3	332·6	+16·4			124
			0·884	252·0	324·3	−17·1			145
		6589*a*	0·870	268·0	323·2	− 3·1	27	250	
		6589*b*	0·807	269·6	316·6	− 2·0	11	109	383*c*
		6588	0·774	252·2	312·6	−15·4	0	16	
		6588	0·687	250·4	304·9	−15·3	0	14	266*c*
G.		6590	0·511	48·6	239·3	+17·2	11	78	
		6590	0·560	49·8	236·2	+18·7	3	21	
		6591*a*	0·981	80·9	184·8	+ 8·4	132	686	440*c*
			0·727	103·3	216·9	−11·5			157
			0·860	119·1	206·2	−26·2			144
			0·860	74·4	205·3	+11·9			309
			0·874	108·8	202·8	−17·7			186
Dec. 28				(+4·0)	(262·9)	(−2·7)	(184)	(1174)	(2154)
363·130	FS, AS		0·946	251·1	324·7	−18·8			122
			0·904	262·2	318·6	− 8·2			81
		6589*a*	0·933	267·9	322·8	− 3·0	28	229	
		6589*b*	0·888	269·3	316·5	− 2·0	5	55	274*c*
		6588	0·865	254·2	313·3	−15·1	0	8	
		6588	0·821	252·5	308·3	−15·9	4	30	363*c*
		6590	0·416	34·7	239·7	+17·2	15	74	
D.		6590	0·432	37·5	238·1	+17·3	6	30	
		6590	0·450	38·6	236·9	+17·8	0	10	
		6590	0·440	41·2	236·5	+16·6	0	4	
		6590	0·459	42·2	235·2	+17·2	4	29	
		6590	0·480	39·8	235·1	+18·9	2	13	
		6591*a*	0·937	79·6	185·4	+ 8·8	109	591	
		6591	0·939	82·3	184·8	+ 6·2	0	11	
		6591	0·952	81·7	182·6	+ 7·0	0	24	587*c*
		6593*a*	0·989	80·8	173·3	+ 8·7	11	105	
363·130	FS, AS		0·802	120·1	203·9	−25·5			142
D.			0·876	107·3	193·5	−16·5			242
			0·895	70·0	192·9	+16·5			131
Dec. 29				(+3·6)	(254·0)	(− 2·8)	(184)	(1213)	(1942)
364·285	CL, AS		0·889	279·4	300·7	+ 7·0			133
			0·882	264·1	300·6	− 6·6			113
		6589*a*	0·995	267·0	322·9	− 3·3	0	133	
		6589*b*	0·979	268·7	316·9	− 1·9	0	46	211*c*
		6588	0·942	254·8	309·0	−15·3	0	28	
		6588	0·931	251·8	307·0	−18·0	0	15	447*c*
		6590	0·350	355·9	240·3	+17·5	6	41	
		6590	0·345	0·5	238·6	+17·2	4	19	
		6590	0·336	9·6	235·5	+16·3	0	1	
		6590	0·356	11·4	234·6	+17·5	1	5	
		6590	0·378	11·6	234·2	+18·7	4	21	
		6591	0·776	78·4	189·0	+ 7·1	0	5	
D.		6591	0·794	74·3	187·9	+10·6	2	14	
		6591*a*	0·809	77·4	186·0	+ 8·4	132	729	
		6591	0·836	79·5	183·1	+ 7·1	5	26	267*c*
		6591	0·847	81·3	181·7	+ 5·8	0	8	
		6591	0·863	79·8	180·1	+ 7·3	0	12	
		6591	0·877	78·8	178·6	+ 8·4	0	9	
		6593	0·906	79·3	174·9	+ 8·4	0	6	
		6593*a*	0·918	79·4	173·2	+ 8·5	13	41	
		6593	0·925	77·8	172·3	+10·2	0	11	444*c*
		6593	0·933	76·6	171·2	+11·4	0	5	
		6592*a*	0·960	77·1	166·2	+11·6	79	327	
			0·943	110·3	168·7	−20·1			174
			0·976	67·2	163·7	+21·5			157
Dec. 30				(+3·1)	(238·8)	(−2·9)	(246)	(1502)	(1946)
365·129	FS, AS		0·934	263·9	296·7	− 6·8			141
			0·898	280·5	290·6	+ 8·1			121
			0·804	261·6	281·0	− 8·5			134
		6588	0·990	254·4	309·8	−15·9	0	29	
		6588	0·977	252·0	305·5	−18·2	0	49	492*c*
D.		6590	0·416	324·7	242·2	+16·9	0	2	
		6590	0·398	326·3	240·9	+16·3	1	13	
		6590	0·400	328·9	240·1	+17·1	6	36	
		6590	0·377	328·8	239·4	+15·8	0	8	
		6590	0·396	333·6	238·3	+17·8	3	16	
		6590	0·382	343·8	234·1	+18·5	2	17	

Group 6590, 1908 December 27–1909 January 3. A number of spots, mostly unstable, in an irregular stream, undergoing frequent changes.

Group 6591, 1908 December 28–1909 January 9. A very large spot, *a*, surrounded by many small companions. *a* has divided into two chief parts, *b* and *c*, by January 2; *b* being large, well-defined, and regular, and *c*, composite and less defined. *c* soon breaks up, and the group consists of, *b*, a large regular spot, followed by a short train.

Group 6593, 1908 December 29–1909 January 4. An ill-defined spot, *a*, between Groups 6591 and 6592. Small unstable spots form and disappear near *a* in an irregular manner.

Group 6592, 1908 December 30–1909 January 10. Return of Group 6577. Third apparition. A large regular spot, *a*, frequently with 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).
1908.				°	°	°			
365·129	FS, AS	6591	0·655	75·8	188·1	+ 6·9	1	22	
		6591a	0·678	73·3	186·8	+ 8·9	132	764	
		6591	0·672	77·9	186·5	+ 5·8	6	63	
		6591	0·694	70·1	186·1	+11·4	3	13	
D.		6591	0·712	76·6	183·6	+ 7·3	8	23	340c
		6591	0·712	78·0	183·4	+ 6·3	0	17	
		6591	0·729	73·6	182·7	+ 9·8	0	12	
		6591	0·735	79·6	181·3	+ 5·5	0	5	
		6591	0·744	76·5	181·0	+ 8·0	0	7	
1908.				°	°	°			
365·129	FS, AS	6593	0·818	76·4	174·2	+ 9·3	0	3	
		6593	0·824	78·4	173·4	+ 7·8	0	8	
		6593a	0·829	77·4	173·0	+ 8·7	13	49	449c
		6592a	0·893	75·4	166·0	+11·6	54	308	
		6592	0·928	71·8	161·7	+15·6	0	17	
D.			0·718	116·2	184·3	−20·7			138
			0·882	112·6	167·0	−21·3			315
			0·941	61·5	161·5	+25·5			234
			0·962	71·9	155·4	+16·5			221
Dec. 31				(+2·7)	(227·7)	(−3·0)	(229)	(1481)	(2585)

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

1908.

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, KODAIKÁNAL, and at DEHRA DÛN IN INDIA, and at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the YEAR 1908.

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 Kodaikánal 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.

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 6333. Probably a return of Group 6322. A number of spots, mostly small, in an irregular and very changeful stream.								
1907. d						°	°	°
Dec. 30·373	M	8	49	38	235	304·0	− 6·6	−84·4
31·355	M	16	200	27	357	301·4	− 6·6	−74·0
1908.								
Jan. 1·139	K	40	276	45	303	302·1	− 6·1	−63·0
2·430	G	30	348	21	250	302·4	− 6·4	−45·7
3·450	G	28	301	17	181	302·0	− 6·7	−32·7
4·472	G	30	406	15	216	301·9	− 6·8	−19·3
5·253	K	82	529	42	270	301·7	− 7·0	− 9·3
6·142	D	6	231	3	116	(301·8	− 7·5	+ 2·6)
7·172	K	8	68	4	37	303·2	− 7·1*	+17·5
8·131	K	0	60	0	36	301·7	− 8·2	+28·6
Means ...	...	...	...	21	200	302·22	− 6·90	...
The above supersedes Group 6333 on page 141 of the Ledger of Spot Groups for 1907.								
Group 6334*. A small spot, *f*, the place of Group 6334.								
Jan. 2·430	G	0	9	0	15	61·2	− 7·8	+73·1
Means ...	...	...	...	0	15	61·2	− 7·8	...
Group 6342*. A very small spot, *p*, the place of Group 6342.								
Jan. 2·430	G	0	14	0	7	342·6	− 7·0	− 5·5
Means ...	...	...	...	0	7	342·6	− 7·0	...

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 6335. Return of Group 6318. Third apparition. A regular spot, *a*.								
1908. d						°	°	°
Jan. 2·430	G	11	68	19	113	276·9	+13·2	−71·2
3·450	G	11	86	12	87	276·3	+13·7	−58·4
4·472	G	14	102	10	76	276·2	+13·7	−45·0
5·144	K	24	120	15	77	276·1	+13·6	−34·9
6·142	D	26	128	15	73	(276·0	+13·4	−23·2)
7·280	K	26	95	14	50	276·5	+13·4	− 9·2
8·174	K	25	77	13	40	276·6	+13·7	+ 3·5
9·128	K	9	49	5	27	276·3	+14·0	+16·4
10·477	G	8	34	5	22	276·5	+13·8	+34·4
Means ...	...	...	...	12	63	276·38	+13·61	...
Group 6336. A small regular spot, *s* Group 6335, and *p* Group 6337.								
Jan. 2·430	G	5	28	8	49	275·6	+ 8·8	−72·5
3·450	G	7	43	7	44	275·0	+ 8·8	−59·7
4·472	G	0	26	0	20	274·7	+ 8·8	−46·5
5·144	K	8	16	5	10	274·5	+ 8·5	−36·5
6·142	D	0	5	0	3	(274·1	+ 8·6	−25·1)
Means ...	...	...	...	4	25	274·78	+ 8·70	...
Group 6337. A spot rapidly diminishing.								
Jan. 2·430	G	0	32	0	90	268·9	+ 8·7	−79·2
3·450	G	5	43	6	57	267·6	+ 8·0	−67·1
4·472	G	5	39	4	33	267·6	+ 7·9	−53·6

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

Group 6337—*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.
1908. d						°	°	°
Jan. 5·253	K	7	32	5	22	267·8	+ 7·3	−43·2
6·142	D	5	29	3	18	(268·3	+ 7·8	−30·9)
7·172	K	0	6	0	3	264·3	+ 9·9	−21·4
Means ...	...	...	...	3	37	267·42	+ 8·27	...

Group 6338.

Return of Group 6319. Fourth apparition. A large regular spot, *a*, followed by a long scattered train.

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. 3·450	G	27	145	50	269	261·4	+11·4	−73·3
4·472	G	45	250	46	252	262·5	+11·6	−58·7
5·253	K	69	360	55	286	262·0	+11·4	−49·0
6·142	D	97	541	64	358	(261·1	+11·3	−38·1)
7·172	K	81	503	46	286	262·0	+11·2	−23·7
8·131	K	99	565	52	300	262·0	+11·7	−11·1
9·128	K	79	508	41	263	262·4	+11·6	+ 2·5
10·477	G	84	472	47	262	263·0	+11·0	+20·9
11·496	G	65	422	41	268	263·0	+11·2	+34·3
12·503	G	30	300	23	234	263·5	+11·4	+48·0
13·462	G	20	267	22	283	263·0	+11·3	+60·2
14·542	G	11	123	23	252	263·3	+11·4	+74·7
Means ...	...	...	...	43	276	262·43	+11·38	...

Group 6340.

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.
Jan. 3·450	G	0	10	0	31	255·1	+12·3	−79·6
4·472	G	0	34	0	42	256·6	+11·9	−64·6
5·253	K	12	73	11	67	255·7	+12·0	−55·3
Means ...	...	...	...	4	47	255·80	+12·07	...

Group 6339.

An irregular stream, *s* Group 6338.

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. 3·450	G	0	36	0	63	262·1	+ 7·4	−72·6
4·472	G	10	102	10	104	261·9	+ 7·2	−59·3
5·253	K	38	169	30	132	261·8	+ 6·9	−49·2
6·142	D	29	159	18	102	(261·8	+ 6·5	−37·4)
7·172	K	23	116	12	65	261·4	+ 7·1	−24·3
8·131	K	33	140	17	72	261·8	+ 7·5	−11·3
9·128	K	10	164	5	85	261·8	+ 7·6	+ 1·9
10·477	G	23	179	13	97	261·4	+ 6·1	+19·3
11·496	G	8	72	5	43	261·4	+ 6·3	+32·7
12·503	G	5	72	6	53	262·3	+ 5·5	+46·8
Means ...	...	...	...	12	82	261·77	+ 6·81	...

Group 6341.

A few small faint 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.
Jan. 4·472	G	0	43	0	45	22·5	−20·3	+61·3
5·253	K	5	31	9	55	25·0	−19·4	+74·0
Means ...	...	...	...	5	50	23·75	−19·85	...

Group 6342.

A number of spots, mostly small, in a straight stream. The group steadily increases 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.
Jan. 4·472	G	6	61	3	32	335·9	− 5·7	+14·7
5·253	K	53	174	29	97	337·1	− 4·5	+26·1
6·142	D	43	155	28	98	(337·6	− 4·8	+38·4)
7·172	K	26	191	22	156	338·3	− 4·9	+52·6
8·131	K	43	268	53	312	337·7	− 5·5	+64·6
9·128	K	16	225	37	518	337·6	− 5·1	+77·7
Means ...	...	...	...	29	202	337·37	− 5·08	...

Group 6340*.

Some small faint spots, *s* of Group 6340. The seven groups, Nos. 6335, 6336, 6337, 6338, 6339, 6340, and 6340*, make up a double "procession"; the groups being arranged in two close parallel lines. A revival of Group 6321.

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.
1908. d						°	°	°
Jan. 5·253	K	0	16	0	15	254·8	+ 7·8	−56·2
6·142	D	6	43	5	30	(255·1	+ 8·2	−44·1)
7·172	K	4	19	2	11	254·9	+ 8·4	−30·8
8·131	K	12	53	6	29	255·5	+ 9·2	−17·6
Means ...	...	...	...	3	21	255·08	+ 8·40	...

Group 6342†.

A pair of 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. 5·253	K	1	17	1	10	325·1	+24·6	+14·1
Means ...	...	...	...	1	10	325·1	+24·6	...

Group 6333*.

A very small spot, *n* Group 6333.

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. 5·253	K	0	7	0	4	282·6	− 4·9	−28·4
Means ...	...	...	...	0	4	282·6	− 4·9	...

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 6343. A pair of small spots, *a* and *b*.								
1908. d						°	°	°
Jan. 5·253	K	0	17	0	24	241·9	− 6·7	−69·1
6·142	D	18	59	16	52	(243·4	− 6·5	−55·8)
7·172	K	0	25	0	17	244·4	− 6·4	−41·3
8·131	K	0	8	0	5	244·4	− 5·8	−28·7
Means ...	...	...	...	4	25	243·53	− 5·35	...
Group 6344. Return of Group 6323 *a*. A regular spot, *a*.								
Jan. 5·253	K	8	31	32	125	227·3	−16·6	−83·7
6·142	D	18	113	28	176	(227·6	−16·7	−71·6)
7·172	K	16	95	15	92	227·0	−16·5	−58·7
8·131	K	34	162	25	119	226·8	−16·0	−46·3
9·128	K	25	148	15	91	226·5	−16·1	−33·4
10·477	G	25	169	13	90	226·1	−16·0	−16·0
11·496	G	20	195	10	100	226·0	−15·6	− 2·7
12·503	G	16	177	8	92	226·7	−15·7	+11·2
13·462	G	18	127	10	71	226·5	−16·0	+23·7
14·542	G	14	82	9	53	226·4	−16·2	+37·8
15·515	G	16	82	13	65	226·3	−16·4	+50·5
16·247	M	11	36	11	36	226·3	−16·4	+60·1
17·240	M	4	15	6	23	225·3	−16·5	+72·2
Means ...	...	...	...	15	87	226·52	−16·21	...
Group 6345. A small faint spot.								
Jan. 6·142	D	7	34	5	24	(344·4	− 6·5	+45·2)
Means ...	...	...	...	5	24	344·4	− 6·5	...
Group 6346. A small regular spot.								
Jan. 10·477	G	0	30	0	69	166·7	+20·1	−75·4
11·496	G	9	41	11	50	166·3	+20·0	−62·4
12·503	G	6	83	5	72	165·8	+19·8	−49·7
13·462	G	8	81	6	56	165·8	+20·0	−37·0
14·542	G	10	54	6	33	165·7	+19·8	−22·9
15·515	G	7	37	4	21	165·4	+19·8	−10·4
16·247	M	9	19	5	10	165·0	+20·0	− 1·2
Means ...	...	...	...	5	44	165·81	+19·93	...
Group 6344*. A very small spot.								
1908. d						°	°	°
Jan. 11·496	G	0	8	0	4	234·2	+ 2·3	+ 5·5
Means ...	...	...	...	0	4	234·2	+ 2·3	...
Group 6347. A small faint spot.								
Jan. 11·496	G	0	18	0	10	221·8	−19·9	− 6·9
Means ...	...	...	...	0	10	221·8	−19·9	...
Group 6348. A small regular spot.								
Jan. 11·496	G	9	45	10	49	165·9	−10·2	−62·8
12·503	G	12	70	10	54	166·5	−10·3	−49·0
13·462	G	0	49	0	30	167·1	−10·0	−35·7
14·542	G	0	10	0	6	167·1	− 9·8	−21·5
Means ...	...	...	...	5	35	166·65	−10·08	...
Group 6349. Return of Group 6324. A large regular spot, *a*, followed by a short train of small spots.								
Jan. 11·496	G	0	98	0	353	146·4	− 4·4	−82·3
12·503	G	23	188	31	261	146·5	− 4·3	−69·0
13·462	G	30	316	27	284	146·6	− 4·8	−56·2
14·542	G	65	386	44	260	146·9	− 4·3	−41·7
15·515	G	50	412	29	237	147·0	− 4·3	−28·8
16·247	M	91	426	47	225	146·8	− 4·2	−19·4
17·240	M	82	440	42	222	147·3	− 4·0	− 5·8
18·141	K	85	457	43	229	147·8	− 4·1	+ 6·6
19·151	K	54	360	29	191	147·9	− 4·0	+20·0
20·497	G	48	297	30	189	148·1	− 4·1	+37·9
21·391	M	41	232	33	183	(149·0)	− 3·7	+50·6
22·137	K	28	170	28	170	148·9	− 3·8	+60·3
23·244	M	13	100	24	191	149·2	− 3·2	+75·1
Means ...	...	...	...	31	230	147·57	−4·09	...
Group 6350. A wide pair of small spots, *a* and *b*, sometimes with one or two smaller spots between them.								
Jan. 16·247	M	17	55	9	28	166·1	−17·9	− 0·1
17·240	M	12	55	6	29	166·5	−17·5	+13·4
18·141	K	0	21	0	12	166·7	−17·7	+25·5
Means ...	...	...	...	5	23	166·43	−17·70	...

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

Group 6351.

A pair of spots, *a* and *b*. *a* has passed out of sight at the west limb by January 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.
1908. d						°	°	°
Jan. 17·240	M	10	33	9	31	210·5	−16·6	+57·4
18·141	K	18	101	23	141	210·7	−17·0	+69·5
19·151	K	1	18	3	50	208·9	−18·0	+81·0
Means ...	...	...	...	12	74	210·03	−17·20	...

Group 6352.

Two very small spots.

Jan. 17·240	M	0	14	0	7	147·1	+ 2·4	− 6·0
Means ...	...	...	...	0	7	147·1	+ 2·4	...

Group 6353.

A pair of small spots, *a* and *b*, on January 17 and 18. The group is not seen on January 19 and 20, but has re-appeared by January 21, and rapidly develops into a fine stream of normal type. The first and last spots, *c* and *d*, are the largest and most stable.

Jan. 17·240	M	0	17	0	20	88·1	− 8·1	−65·0
18·141	K	3	30	2	25	88·7	− 7·9	−52·5
19·151	K	0	0	0	0	...	...	...
20·497	G	0	0	0	0	...	...	...
21·391	M	8	47	5	24	(89·9)	− 8·1	− 8·5
22·137	K	36	200	18	100	91·2	− 7·8	+ 2·6
23·244	M	114	509	59	269	92·8	− 8·2	+18·7
24·132	K	136	663	77	381	92·0	− 8·9	+29·6
25·129	K	74	417	51	285	92·4	− 8·5	+43·2
26·125	K	43	329	39	299	93·1	− 9·2	+57·0
27·128	K	38	204	57	312	94·5	− 9·5	+71·6
Means ...	...	...	...	28	156	91·41	− 8·47	...

Group 6349*.

A very small spot.

Jan. 18·141	K	0	14	0	8	106·2	− 9·2	−35·0
Means ...	...	...	...	0	8	106·2	− 9·2	...

Group 6353*.

A very small spot, *f* Group 6353.

Jan. 19·151	K	4	10	3	6	76·7	− 8·4	−51·2
20·497	G	0	9	0	5	77·2	− 8·9	−33·0
Means ...	...	...	...	2	6	76·95	− 8·65	...

Group 6354.

A small regular spot, *a*, sometimes followed by one or two very small companions.

1908. d						°	°	°
Jan. 22·137	K	8	38	15	70	15·5	+ 9·8	−73·1
23·244	M	11	56	11	57	15·3	+ 8·8	−58·8
24·132	K	18	68	14	52	16·0	+ 9·1	−46·4
25·129	K	8	36	5	22	16·4	+ 8·3	−32·8
26·125	K	0	16	0	9	17·3	+ 8·5	−18·8
27·128	K	0	8	0	4	17·9	+ 8·4	− 5·0
Means ...	...	...	...	8	36	16·40	+ 8·82	...

Group 6355.

A few small spots in a short stream.

Jan. 24·132	K	6	23	4	15	32·3	+15·7	−30·1
Means ...	...	...	...	4	15	32·3	+15·7	...

Group 6354*.

A very small spot.

Jan. 27·128	K	1	12	1	8	345·0	− 5·5	−37·9
Means ...	...	...	...	1	8	345·0	− 5·5	...

Group 6356.

A regular spot, *a*, frequently followed by some small companions.

Jan. 29·524	G	15	108	24	174	283·9	+23·1	−67·5
30·126	K	26	170	31	207	283·0	+23·2	−60·4
31·129	K	42	266	35	226	283·5	+22·6	−46·7
Feb. 1·465	G	34	394	22	260	283·3	+22·2	−29·3
2·139	K	57	325	36	200	283·8	+22·6	−20·0
3·139	K	64	335	36	193	283·8	+22·4	− 6·8
4·484	G	25	234	15	136	283·8	+22·1	+10·9
5·135	K	34	207	20	125	283·8	+21·8	+19·5
6·125	K	32	139	21	94	283·2	+21·7	+31·9
7·218	M	7	22	6	18	282·8	+22·6	+45·9
Means ...	...	...	...	25	163	283·49	+22·43	...

Group 6357.

Return of Group 6338. Fifth and last apparition. A small spot, *a*.

Jan. 30·126	K	4	8	9	18	267·7	+11·1	−75·7
31·129	K	3	11	3	12	268·4	+11·0	−61·8

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 6357—*continued*								
1908. d						°	°	°
Feb. 1·465	G	5	17	3	13	268·6	+10·8	−44·0
2·139	K	4	17	3	11	268·7	+11·2	−35·1
3·139	K	0	16	0	9	268·6	+11·1	−22·0
Means ...	...	...	...	4	13	268·40	+11·04	...
Group 6354†. A small spot, *n* of the place of Group 6354.								
Feb. 1·465	G	0	6	0	7	14·0	+14·4	+61·4
Means ...	...	...	...	0	7	14·0	+14·4	...
Group 6358. A very small spot.								
Feb. 1·465	G	1	9	1	5	290·5	+ 6·6	−22·1
Means ...	...	...	...	1	5	290·5	+ 6·6	...
Group 6359. A regular spot, *a*, with a faint spot preceding it. *a* increases in size.								
Feb. 3·139	K	9	43	6	30	335·3	−15·5	+44·7
4·484	G	0	98	0	103	335·2	−15·2	+62·3
5·135	K	24	98	39	155	337·0	−15·2	+72·7
6·125	K	7	64	22	200	333·5	−15·4	+82·2
Means ...	...	...	...	17	122	335·25	−15·33	...
Group 6360. Return of Groups 6344 and 6351. Third and last apparition. Two spots, of which the following soon breaks up.								
Feb. 4·484	G	30	160	27	143	216·7	−14·0	−56·2
5·135	K	44	161	32	119	217·3	−14·0	−47·0
6·125	K	11	78	6	47	218·5	−13·9	−32·8
7·218	M	10	55	5	29	219·5	−15·3	−17·4
8·238	M	0	16	0	8	220·4	−14·6	− 3·1
Means ...	...	...	...	14	69	218·48	−14·36	...
Group 6360*. Two small spots.								
Feb. 8·238	M	3	20	2	13	260·4	− 3·7	+36·9
Means ...	...	...	...	2	13	260·4	− 3·7	+36·9

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 6362. A few small spots in a straight stream.								
1908. d						°	°	°
Feb. 9·321	D	7	33	4	18	(229·1	+13·0	+19·9)
10·158	D	5	49	3	31	(229·6	+13·0	+31·4)
11·181	D	0	4	0	3	(229·0	+13·6	+44·3)
Means ...	...	...	...	2	17	229·23	+13·20	...
Group 6361. Return of Group 6349. Third and last apparition. A small regular spot, *a*, with a very small companion on February 11.								
Feb. 9·321	D	9	37	8	33	(153·5	− 2·5	−55·7)
10·158	D.	11	55	7	38	(154·5	− 2·8	−43·7)
11·181	D	13	41	7	23	(154·6	− 2·4	−30·1)
12·461	G	0	5	0	2	153·4	− 1·2	−14·5
13·122	K	0	7	0	4	153·7	− 1·5	− 5·5
Means ...	...	...	...	4	20	153·94	− 2·08	...
Group 6363. Two spots, *a* and *b*, with a third to the south on February 9. *b* has disappeared by February 12, and a faint cluster is seen preceding *a* on February 15.								
Feb. 9·321	D	25	62	18	47	(166·0	+14·8	−43·2)
10·158	D	26	93	17	59	(167·3	+15·0	−30·9)
11·181	D	25	73	13	42	(167·2	+15·3	−17·5)
12·461	G	5	16	2	9	168·1	+14·6	+ 0·2
13·122	K	9	17	5	9	168·2	+14·8	+ 9·0
14·479	G	2	11	1	7	167·6	+14·7	+26·3
15·235	M	4	62	3	43	169·6	+14·1	+38·3
Means ...	...	...	...	8	31	167·71	+14·76	...
Group 6364. A large double spot, *a*, followed by a train of small spots. The train has disappeared by February 15.								
Feb. 9·321	D	22	133	39	230	(137·7	+10·4	−71·5)
10·158	D	30	159	31	166	(138·9	+10·1	−59·3)
11·181	D	35	238	26	178	(139·8	+10·7	−44·9)
12·461	G	25	236	15	139	140·9	+10·5	−27·0
13·122	K	40	281	22	157	140·5	+10·8	−18·7
14·479	G	15	214	8	112	140·7	+10·4	− 0·6
15·235	M	37	217	20	116	141·8	+10·6	+10·5
16·131	K	30	141	17	80	141·9	+10·2	+22·4
17·258	M	11	40	7	27	141·9	+10·8	+37·2
Means ...	...	...	...	21	134	140·46	+10·50	...

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

Group 6365.

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.
1908. d						°	°	°
Feb. 10·158	D	14	57	7	30	(217·7	− 5·7	+19·5)
11·181	D	12	35	7	21	(217·9	− 6·1	+33·2)
Means ...	...	...	...	7	26	217·80	− 5·90	...

Group 6366.

A small spot on February 11, a straight stream on the succeeding days.

Feb. 11·181	D	4	18	3	14	(132·9	− 7·2	−51·8)
12·461	G	5	67	3	41	133·7	− 7·1	−34·2
13·122	K	20	84	11	47	134·4	− 6·9	−24·8
14·479	G	26	211	13	106	133·7	− 7·5	− 7·6
15·235	M	55	226	29	114	134·5	− 7·2	+ 3·2
16·131	K	30	166	15	87	134·7	− 7·2	+15·2
17·258	M	12	71	7	41	133·7	− 7·6	+29·0
18·539	G	0	18	0	13	131·8	− 8·3	+44·0
Means ...	...	...	...	10	58	133·68	− 7·38	...

Group 6367.

A small regular spot, *a*, preceded at first by a small companion. The latter is not seen after February 14, but a new one has formed following *a*. The group is not seen on February 16, but a short stream of small spots has formed by February 17.

Feb. 12·461	G	7	27	11	42	103·0	+25·9	−64·9
13·122	K	12	59	14	67	103·1	+26·5	−56·1
14·479	G	7	51	5	40	103·8	+25·8	−37·5
15·235	M	0	17	0	12	100·0	+26·4	−31·3
16·131	K	0	0	0	0	...	...	...
17·258	M	5	40	3	23	104·7	+25·4	+ 0·0
Means ...	...	...	...	6	31	102·92	+26·00	...

Group 6368.

Return of Group 6353. A small regular spot, *a*, with occasionally a small companion.

Feb. 12·461	G	7	50	11	83	94·7	−10·6	−73·2
13·122	K	14	68	16	76	94·8	−10·4	−64·4
14·479	G	18	63	13	45	95·0	−10·5	−46·3
15·235	M	16	53	10	33	94·7	−10·9	−36·6
16·131	K	17	60	9	34	93·2	−10·8	−26·3
17·258	M	1	12	1	6	96·0	−10·9	− 8·7
Means ...	...	...	...	10	46	94·73	−10·68	...

Group 6369.

Two spots close together, seen only when close to the West limb.

1908. d						°	°	°
Feb. 18·539	G	0	32	0	110	171·0	−15·3	+83·2
Means ...	...	...	...	0	110	171·0	−15·3	...

Group 6370.

A few small unstable spots in a short stream.

Feb. 19·617	G	2	30	1	16	78·3	+ 9·6	+ 4·7
20·222	D	4	46	3	24	77·9	+10·3	+12·2
21·140	D	28	128	15	73	78·3	+ 9·6	+24·7
22·119	D	16	76	10	51	78·2	+ 9·9	+37·5
23·578	G	5	23	4	21	76·8	+ 9·0	+55·4
24·203	D	2	22	3	30	80·6	+10·4	+67·4
Means ...	...	...	...	6	36	78·35	+ 9·80	...

Group 6371.

A small spot, *a*.

Feb. 19·617	G	0	7	0	11	0·4	−13·5	−73·2
20·222	D	0	6	0	8	359·3	−15·2	−66·4
21·140	D	1	10	1	8	0·2	−13·8	−53·4
22·119	D	0	5	0	4	359·5	−14·3	−41·2
23·578	G	0	8	0	4	0·4	−14·3	−21·0
24·203	D	0	8	0	4	357·1	−14·9	−16·1
Means ...	...	...	...	0	7	359·48	−14·33	...

Group 6372.

Return of Group 6359. A large regular spot, *a*, with occasionally a small companion.

Feb. 20·222	D	6	56	17	145	345·3	−15·6	−80·4
21·140	D	11	110	13	137	346·2	−14·0	−67·4
22·119	D	15	114	13	99	345·5	−14·5	−55·2
23·578	G	19	180	12	111	345·5	−14·4	−35·9
24·203	D	33	217	19	124	345·0	−15·1	−28·2
25·133	D	30	235	16	124	344·9	−15·0	−16·1
26·110	D	28	212	14	106	344·3	−14·7	− 3·8
27·197	D	24	181	12	93	344·5	−14·5	+10·7
28·624	G	18	181	10	103	343·9	−14·3	+28·9
29·525	G	23	128	15	85	344·2	−14·3	+41·1
Mar. 1·543	G	14	92	12	78	344·2	−14·0	+54·5
2·098	D	13	76	13	78	344·2	−14·0	+61·8
3·160	D	4	45	8	85	344·2	−13·7	+75·8
Means ...	...	...	...	13	105	344·76	−14·47	...

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

Group 6373.

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.
1908. d Feb. 23·578	G	0	13	0	8	° 58·5	° + 8·9	° +37·1
Means ...	...	...	...	0	8	58·5	+ 8·9	...

Group 6374.

Two small spots forming near the central meridian, and developing rather rapidly into a fine complex stream.

Feb. 24·203	D	5	40	3	21	23·7	− 4·2	+10·5
25·133	D	25	143	14	77	23·4	− 4·7	+22·4
26·110	D	57	271	36	167	24·2	− 5·7	+36·1
27·197	D	127	570	99	445	24·0	− 4·3	+50·2
28·624	G	53	573	73	776	23·7	− 4·9	+68·7
29·525	G	14	158	32	364	21·3	− 6·8	+78·2
Means ...	...	...	...	43	308	23·38	− 5·10	...

Group 6375.

A wide pair of small spots.

Feb. 27·197	D	11	50	6	26	332·5	−18·9	− 1·3
Means ...	...	...	...	6	26	332·5	−18·9	...

Group 6376.

A few small spots in an irregular stream.

Mar. 4·210	D	19	70	17	61	306·3	+13·8	+51·7
5·255	D	9	39	11	51	305·5	+14·0	+64·7
Means ...	...	...	...	14	56	305·90	+13·90	...

Group 6377.

Return of Group 6369. A few small spots in an irregular stream. The rear spot, *a*, is the largest and most stable, and alone remains after March 8.

Mar. 4·210	D	5	28	13	70	174·6	−15·3	−80·0
5·255	D	10	93	12	112	174·4	−15·0	−66·4
6·478	G	12	84	9	65	174·5	−15·0	−50·2
7·339	D	24	89	15	57	174·8	−14·9	−38·6
8·125	D	11	51	6	29	175·3	−15·7	−27·7
9·506	G	6	16	3	8	174·1	−16·6	−10·7
10·507	G	0	9	0	5	174·0	−16·7	+ 2·4
11·468	G	0	6	0	3	173·9	−16·9	+15·0
Means ...	...	...	...	7	44	174·45	−15·76	...

Group 6378.

Two spots, *a* and *b*, forming suddenly near the West limb.

1908. d Mar. 6·478	G	23	133	19	108	° 277·1	° − 7·0	° +52·4
7·339	D	20	89	23	101	278·0	− 7·6	+64·6
8·125	D	8	52	13	102	278·8	− 6·7	+75·8
Means ...	...	...	...	18	104	277·97	− 7·10	...

Group 6377*.

Some very small spots forming *sf* Group 6377.

Mar. 6·478	G	0	.8	0	7	170·1	−18·0	−54·6
7·339	D	0	4	0	3	170·0	−17·5	−43·4
8·125	D	0	45	0	28	165·7	−18·5	−37·3
Means ...	...	...	...	0	13	168·60	−18·00	...

Group 6379.

A regular spot, *a*.

Mar. 7·339	D	7	30	21	100	131·9	− 2·8	−81·5
8·125	D	12	68	18	105	131·6	− 3·8	−71·4
9·506	G	10	76	8	61	132·9	− 3·9	−51·9
10·507	G	14	52	9	33	133·0	− 3·8	−38·6
11·468	G	10	36	6	20	132·9	− 4·0	−26·0
12·493	G	12	51	6	26	132·2	− 4·5	−13·2
13·437	G	0	44	0	22	133·1	− 4·6	+ 0·1
14·488	G	0	20	0	10	133·4	− 4·3	+14·3
15·477	G	0	12	0	7	133·7	− 4·2	+27·6
Means ...	...	...	...	8	43	132·74	− 3·99	...

Group 6381.

A very small spot at first. It suddenly develops, when near the central meridian, into a considerable stream, but diminishes again later.

Mar. 8·125	D	0	5	0	4	161·0	− 9·6	−42·0
9·506	G	0	18	0	10	162·7	− 9·4	−22·1
10·507	G	2	10	1	5	165·0	− 9·7	− 6·6
11·468	G	42	245	21	123	163·8	− 9·4	+ 4·9
12·493	G	37	289	19	153	165·4	− 9·4	+20·0
13·437	G	5	85	3	51	167·2	− 9·2	+34·2
14·488	G	0	14	0	10	167·1	− 9·0	+48·0
Means ...	...	...	...	6	51	164·60	− 9·39	...

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

Group 6380.

Some small spots, *p* Group 6377.

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.
1908. d						°	°	°
Mar. 10·507	G	5	61	2	31	179·9	−14·5	+ 8·3
Means ...	...	...	...	2	31	179·9	−14·5	...

Group 6382.

A small spot on March 10. Some new spots form in advance of this on March 11, and by March 12 the group has become a regular spot, *a*, followed by an irregular train of small spots. *a* lengthens out, and finally divides into two parts, but is still measured as one.

Mar. 10·507	G	0	7	0	16	93·1	− 7·7	−78·5
11·468	G	7	67	7	69	97·0	− 7·6	−61·9
12·493	G	12	209	8	149	99·3	− 7·6	−46·1
13·437	G	28	341	16	203	100·1	− 7·9	−32·9
14·488	G	39	337	20	176	101·0	− 7·6	−18·1
15·477	G	23	244	12	123	101·3	− 7·8	− 4·8
16·645	G	39	259	20	131	101·5	− 8·2	+10·8
17·499	G	39	230	21	123	101·9	− 8·5	+22·4
18·122	D	24	211	14	124	102·3	− 8·6	+31·0
19·462	G	16	102	12	78	103·2	− 8·1	+49·6
20·156	D	15	60	13	57	103·0	− 8·1	+58·6
21·514	G	0	22	0	48	104·2	− 7·3	+77·7
Means ...	...	...	...	12	108	100·66	− 7·92	...

Group 6383.

A regular spot, *a*. A number of small spots form, *n* of *a*, on March 19.

Mar. 14·488	G	14	81	22	128	49·2	+ 9·2	−69·9
15·477	G	17	139	17	135	48·9	+ 9·0	−57·2
16·645	G	29	131	20	91	49·2	+ 9·1	−41·5
17·499	G	18	127	11	76	49·2	+ 9·0	−30·3
18·122	D	22	157	12	89	49·4	+ 9·1	−21·9
19·462	G	16	199	8	105	48·9	+ 9·6	− 4·7
20·156	D	20	142	10	75	48·3	+ 9·8	+ 3·9
21·514	G	10	134	6	76	48·5	+ 9·3	+22·0
22·133	D	18	89	11	54	49·6	+10·0	+31·2
23·226	D	3	21	3	16	49·2	+10·6	+45·3
Means ...	...	...	...	12	85	49·04	+ 9·47	...

Group 6384.

A pair of spots, *a* and *b*, forming near the West limb, and rapidly increasing in size.

Mar. 15·477	G	3	25	4	25	166·5	−15·2	+60·4
16·645	G	21	167	39	300	165·8	−15·6	+75·1
Means ...	...	...	...	22	163	166·15	−15·40	...

Group 6385.

A regular spot, *a*, with several small spots, *sf*, on March 19 and the succeeding days.

1908. d						°	°	°
Mar. 15·477	G	8	60	12	91	35·2	− 3·4	−70·9
16·645	G	16	92	14	82	35·0	− 3·4	−55·7
17·499	G	20	111	14	77	34·8	− 3·5	−44·7
18·122	D	13	126	8	79	34·7	− 3·2	−36·6
19·462	G	28	209	15	111	35·3	− 3·6	−18·3
20·156	D	22	173	11	87	33·7	− 3·8	−10·7
21·514	G	25	116	13	58	34·3	− 3·5	+ 7·8
22·133	D	15	119	8	62	34·4	− 4·0	+16·0
23·226	D	18	106	11	62	34·4	− 4·4	+30·5
24·438	G	7	46	5	33	34·1	− 4·2	+46·1
25·151	D	0	9	0	8	34·6	− 3·8	+56·0
Means ...	...	...	...	10	68	34·59	− 3·71	...

Group 6386.

Return of Group 6374. A regular spot, *a*, with occasionally a small companion.

Mar. 15·477	G	0	30	0	98	24·0	− 8·0	−82·1
16·645	G	10	95	14	124	22·5	− 8·1	−68·2
17·499	G	17	133	15	119	23·0	− 8·5	−56·5
18·122	D	23	133	17	99	23·1	− 8·7	−48·2
19·462	G	16	149	9	86	23·7	− 9·1	−29·9
20·156	D	31	150	16	80	22·9	− 8·8	−21·5
21·514	G	23	150	12	75	24·6	− 8·7	− 1·9
22·133	D	18	131	9	66	24·9	− 8·4	+ 6·5
23·226	D	21	138	11	74	25·5	− 8·5	+21·6
24·438	G	12	58	7	37	25·8	− 8·5	+37·8
25·151	D	0	24	0	18	26·1	− 8·1	+47·5
Means ...	...	...	...	10	80	24·19	− 8·49	...

Group 6382*.

Some small spots, *s* Group 6382.

Mar. 18·122	D	20	65	12	38	100·6	−11·2	+29·3
19·462	G	14	46	11	36	103·7	−10·9	+50·1
20·156	D	5	23	5	21	103·2	−11·0	+58·8
Means ...	...	...	...	9	32	102·50	−11·03	...

Group 6387.

A small spot, sometimes with a very small companion.

Mar. 18·122	D	2	10	3	11	8·6	+ 8·1	−62·7
19·462	G	10	28	7	20	10·9	+ 8·5	−42·7
20·156	D	8	28	5	18	10·6	+ 8·6	−33·8
21·514	G	0	28	0	15	12·0	+ 8·1	−14·5
22·133	D	0	16	0	9	12·2	+ 8·0	− 6·2
23·226	D	0	13	0	7	10·9	+ 7·8	+ 7·0
Means ...	...	...	...	3	13	10·87	+ 8·18	...

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

Group 6388.

Some small spots in a compact 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.
1908. d						°	°	°
Mar. 19·462	G	5	32	4	26	5·6	+ 8·0	−48·0
20·156	D	18	50	12	34	5·0	+ 8·2	−39·4
21·514	G	1	16	0	9	5·7	+ 8·4	−20·8
Means ...	...	...	...	5	23	5·43	+ 8·20	...

Group 6389.

One or two small spots on March 27, developing on the succeeding days into an irregular stream, of which, *a* and *b*, the first and last spots, are the largest and most stable members.

Mar. 27·480	G	7	31	4	17	312·4	+10·1	+ 4·6
28·484	G	28	317	16	177	313·4	+10·8	+18·8
29·490	G	41	295	26	185	314·2	+11·2	+32·9
30·446	G	19	161	15	127	316·3	+11·2	+47·6
31·096	D	13	90	13	89	317·1	+11·6	+57·0
Apr. 1·659	G	0	13	0	35	317·5	+10·8	+78·0
Means ...	...	...	...	12	105	315·15	+10·95	...

Group 6390.

A large composite spot, *a*, which becomes a regular spot by April 7, by throwing off some of its outlying portions.

Apr. 1·659	G	13	98	13	99	178·4	−10·0	−61·1
2·544	G	37	287	28	215	178·9	− 9·6	−48·9
3·509	G	51	405	31	247	179·8	− 9·1	−35·3
4·110	D	62	422	35	237	179·6	− 8·8	−27·6
5·575	G	66	397	33	200	180·6	− 8·9	− 7·2
6·614	G	40	418	20	211	181·2	− 9·2	+ 7·1
7·420	G	46	380	24	202	181·6	− 9·8	+18·1
8·452	G	47	325	27	191	181·6	− 9·7	+31·7
9·619	G	32	223	23	165	182·0	− 9·4	+47·5
10·086	D	37	240	31	203	182·3	− 9·3	+54·0
11·219	K	14	92	19	124	182·0	− 8·3	+68·7
Means ...	...	...	...	26	190	180·73	− 9·28	...

Group 6391.

A cluster of spots, *f* Group 6390, and coalescing to form a large composite spot, *a*, by April 3. *a* breaks up into a short stream by April 5. Groups 6390 and 6391 together make up a long straggling stream.

Apr. 1·659	G	16	80	20	98	173·0	− 9·3	−66·5
2·544	G	19	231	16	198	173·0	−10·0	−54·8
3·509	G	43	366	29	245	172·8	−10·0	−42·3
4·110	D	69	344	42	210	172·3	−10·0	−34·9
5·575	G	33	191	16	99	172·9	− 9·4	−14·9
6·614	G	19	131	9	65	173·1	− 8·7	− 1·0

Group 6391—*continued.*

1908. d						°	°	°
Apr. 7·420	G	6	62	3	32	173·3	− 8·9	+ 9·8
8·452	G	7	19	4	10	172·9	− 8·3	+23·0
9·619	G	0	6	0	4	173·4	− 8·4	+38·9
10·086	D	0	4	0	3	173·9	− 8·5	+45·6
Means ...	...	...	...	14	96	173·06	− 9·15	...

Group 6392*.

A small spot, seen only near the West limb.

Apr. 3·509	G	0	8	0	9	278·9	− 8·2	+63·8
Means ...	..	...	...	0	9	278·9	− 8·2	...

Group 6392.

A number of small spots in an irregular stream. The group develops rapidly, and the leader *a* is a large composite spot by April 5. A large regular spot, *b*, forms in the rear of the group by April 9.

Apr. 3·509	G	0	36	0	18	203·7	−15·6	−11·4
4·110	D	19	103	10	51	203·6	−16·0	− 3·6
5·575	G	97	482	52	255	204·5	−16·6	+16·7
6·614	G	64	732	38	436	205·5	−16·6	+31·4
7·420	G	76	806	51	561	207·0	−16·5	+43·5
8·452	G	64	509	59	469	207·3	−16·6	+57·4
9·619	G	34	296	54	472	207·1	−16·9	+72·6
10·086	D	11	131	19	243	203·8	−17·6	+75·5
Means ...	...	...	...	35	313	205·31	−16·55	...

Group 6393.

A cluster of small faint spots on April 3, rapidly developing into a large regular spot, *a*. It appears to be a revival, not a return, of Group 6384.

Apr. 3·509	G	0	32	0	31	154·7	−15·6	−60·4
4·110	D	11	99	9	77	157·2	−15·9	−50·0
5·575	G	101	576	57	327	160·6	−15·6	−27·2
6·614	G	136	683	70	353	161·7	−15·7	−12·4
7·420	G	131	710	67	361	162·2	−15·8	− 1·3
8·452	G	98	604	51	315	162·4	−15·5	+12·5
9·619	G	105	545	60	312	162·7	−15·2	+28·2
10·086	D	95	528	59	326	163·1	−15·1	+34·8
11·219	K	82	390	63	300	163·0	−14·1	+49·7
12·090	D	69	271	71	278	163·1	−14·7	+61·3
13·418	G	26	118	58	264	162·5	−14·5	+78·2
Means ...	...	...	...	51	268	161·20	−15·25	...

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

Group 6395.

Several small unstable spots, scattered over a considerable area, *s* of Group 6390 and 6391.

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.
						°	°	°
1908. d Apr. 3·509	G	0	16	0	11	174·3	−15·4	−40·8
4·110	D	0	7	0	4	173·8	−15·9	−33·4
5·575	G	0	40	0	21	175·6	−16·7	−12·2
6·614	G	14	115	7	59	174·4	−17·0	+ 0·3
7·420	G	0	53	0	28	175·5	−16·8	+12·0
Means ...	...	...	...	1	25	174·72	−16·36	...

Group 6396*.

One or two small unstable spots, *sf* Group 6396.

Apr. 3·509	G	0	5	0	6	149·7	− 7·6	−65·4
4·110	D	0	6	0	5	149·3	− 9·5	−57·9
Means ...	...	...	...	0	6	149·50	− 8·55	...

Group 6399.

A very small spot.

Apr. 3·509	G	0	6	0	13	136·4	−19·2	−78·7
4·110	D	0	4	0	6	136·3	−19·7	−70·9
5·575	G	0	5	0	4	137·1	−20·0	−50·7
6·614	G	0	12	0	8	136·6	−19·3	−37·5
7·420	G	0	8	0	5	136·7	−19·1	−26·8
Means ...	...	...	...	0	7	136·62	−19·46	...

Group 6394.

A large composite spot, *a*, with some small companions on April 6 and the succeeding days. *a* diminishes rapidly in size.

Apr. 3·509	G	0	37	0	152	130·8	−14·0	−84·3
4·110	D	10	83	20	165	130·7	−14·1	−76·5
5·575	G	11	132	10	121	130·4	−14·6	−57·4
6·614	G	12	118	8	81	130·7	−14·9	−43·4
7·420	G	12	94	7	56	130·0	−14·4	−33·5
8·452	G	12	57	6	30	130·4	−15·1	−19·5
9·619	G	16	94	8	47	131·6	−15·2	− 2·9
10·086	D	11	94	5	48	131·3	−16·1	+ 3·0
Means ...	...	...	...	8	88	130·74	−14·80	...

Group 6397.

Some small spots, *np* Group 6394.

Apr. 4·110	D	0	4	0	7	134·6	−14·0	−72·6
5·575	G	0	40	0	32	136·4	−11·9	−51·4

Group 6397—*continued.*

						°	°	°
1908. d Apr. 6·614	G	8	32	5	20	136·5	−11·8	−37·6
7·420	G	0	75	0	43	135·8	−10·1	−27·7
8·452	G	0	6	0	3	134·8	− 7·9	−15·1
Means ...	...	...	...	1	21	135·62	−11·14	...

Group 6396.

A number of spots, mostly small and unstable, in a cluster *f* Group 6393, and forming with it a long straight stream. The group undergoes considerable and frequent changes.

Apr. 4·110	D	12	104	10	87	154·0	−14·9	−53·2
5·575	G	46	270	28	164	153·9	−15·5	−33·9
6·614	G	44	340	24	185	153·1	−15·6	−21·0
7·420	G	50	404	26	209	153·4	−15·3	−10·1
8·452	G	51	493	26	252	154·0	−15·6	+ 4·1
9·619	G	46	280	26	151	153·5	−15·4	+19·0
10·086	D	33	283	18	159	154·1	−15·4	+25·8
11·219	K	9	67	6	45	153·6	−15·0	+40·3
12·090	D	4	36	3	27	150·8	−15·6	+49·0
Means ...	...	...	...	19	142	153·38	−15·37	...

Group 6398.

A regular spot, *a*, with a few small companions. The Groups, Nos. 6390 to 6399 inclusive, make up together a magnificent sinuous "procession" of spots, extending over nearly 90° of longitude.

Apr. 5·575	G	19	140	23	174	121·0	− 8·6	−66·8
6·614	G	14	119	11	97	121·6	− 9·0	−52·5
7·420	G	14	151	9	101	121·9	− 9·1	−41·6
8·452	G	19	177	11	100	122·6	− 9·0	−27·3
9·619	G	15	124	8	63	122·7	− 8·7	−11·8
10·086	D	7	42	3	22	122·5	− 8·6	− 5·8
11·219	K	9	53	5	27	122·2	− 8·2	+ 8·9
12·090	D	8	59	4	32	122·9	− 7·4	+21·1
13·418	G	1	11	1	7	123·6	− 9·1	+39·3
14·143	D	0	6	0	4	124·2	− 8·7	+49·5
Means ...	...	...	...	8	63	122·52	− 8·64	...

Group 6400.

A few small unstable spots.

Apr. 8·452	G	9	84	5	44	147·0	+ 7·3	− 2·9
9·619	G	3	30	2	16	146·2	+ 8·1	+11·7
10·086	D	0	88	0	48	145·6	+ 6·3	+17·3
11·219	K	0	14	0	9	145·0	+ 8·4	+31·7
Means ...	...	...	...	2	29	145·95	+ 7·53	...

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

Group 6401.

A large regular spot, *a*, with occasionally 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.
1908. d						°	°	°
Apr. 9·619	G	16	122	39	292	55·9	− 7·8	−78·6
10·086	D	20	186	35	324	54·4	− 7·8	−73·9
11·219	K	45	360	42	339	55·0	− 8·1	−58·3
12·090	D	53	466	39	341	55·0	− 7·3	−46·8
13·418	G	82	532	47	304	55·9	− 6·9	−28·4
14·143	D	85	486	45	257	56·0	− 7·1	−18·7
15·438	G	95	489	48	247	56·8	− 6·7	− 0·8
16·492	G	92	535	47	275	56·9	− 6·7	+13·2
17·479	G	63	458	36	256	57·4	− 7·0	+26·7
18·106	D	56	350	35	217	58·4	− 6·8	+36·0
19·514	G	40	271	35	236	58·9	− 6·6	+55·1
20·158	D	22	174	25	197	59·5	− 6·6	+64·2
21·153	D	7	74	15	170	60·2	− 7·0	+78·0
Means ...	...	...	...	38	266	56·95	− 7·11	...

Group 6400*.

A very small spot, *p* Group 6400.

Apr. 10·086	D	0	9	0	5	159·1	+ 8·9	+30·8
Means ...	...	...	...	0	5	159·1	+ 8·9	...

Group 6402.

A cluster of small spots.

Apr. 11·219	K	4	31	5	37	174·9	+19·1	+61·6
12·090	D	0	7	0	12	172·1	+18·0	+70·3
Means ...	...	...	...	3	25	173·50	+18·55	...

Group 6403.

A few small unstable spots.

Apr. 11·219	K	24	89	14	51	89·0	+10·8	−24·3
12·090	D	13	84	7	45	90·7	+10·6	−11·1
13·418	G	0	12	0	6	93·6	+10·0	+ 9·3
14·143	D	0	8	0	4	86·7	+12·0	+12·0
Means ...	...	...	...	5	27	90·00	+10·85	...

Group 6398*.

A very small spot, *sf* Group 6398.

Apr. 12·090	D	0	4	0	2	109·4	−15·4	+ 7·6
Means ...	...	...	...	0	2	109·4	−15·4	...

Group 6398.†

A very small spot, *f* Group 6398.

1908. d						°	°	°
Apr. 12·090	D	0	4	0	2	102·3	− 9·2	+ 0·5
13·418	G	0	26	0	13	100·5	− 6·5	+16·2
Means ...	...	...	...	0	8	101·40	− 7·85	...

Group 6404.

A few small unstable spots. The group is not seen on April 16, 17, or 18.

Apr. 15·438	G	0	12	0	9	6·9	−15·6	−50·7
16·492	G	0	0	0	0	...	...	...
17·479	G	0	0	0	0	...	...	...
18·106	D	0	0	0	0	...	...	...
19·514	G	4	28	2	15	7·6	−15·0	+ 3·8
20·158	D	14	77	7	40	8·7	−15·2	+13·4
21·153	D	0	10	0	6	5·6	−16·5	+23·4
22·066	D	0	7	0	4	5·2	−16·7	+35·1
Means ...	...	...	...	1	9	6·80	−15·80	...

Group 6405.

One or two small unstable spots. The group is not seen on April 19.

Apr. 18·106	D	0	18	0	9	23·4	− 7·3	+ 1·0
19·514	G	0	0	0	0	...	...	...
20·158	D	4	31	3	18	23·9	− 7·5	+28·6
21·153	D	3	48	2	33	25·6	− 8·6	+43·4
22·066	D	7	54	6	49	27·3	− 7·6	+57·2
23·102	D	25	129	34	183	26·3	− 6·8	+69·9
Means ...	...	...	...	8	49	25·30	− 7·56	...

Group 6406.

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

Apr. 18·106	D	4	36	9	72	306·4	− 3·2	−76·0
19·514	G	13	76	12	68	307·1	− 3·4	−56·7
20·158	D	16	109	12	83	306·6	− 2·9	−48·7
21·153	D	17	127	10	77	306·8	− 2·6	−35·4
22·066	D	22	141	12	77	306·9	− 2·7	−23·2
23·102	D	25	157	12	79	307·2	− 2·7	− 9·2
24·519	G	28	137	14	69	308·0	− 3·3	+10·3
25·090	D	18	99	10	52	309·1	− 2·8	+19·0
26·525	G	13	95	8	60	309·7	− 2·9	+38·5
27·085	D	9	52	6	37	310·0	− 2·9	+46·2
28·169	D	4	17	4	17	309·4	− 3·2	+59·9
29·066	D	0	7	0	11	310·7	− 3·3	+73·1
Means ...	...	...	...	9	59	308·16	− 2·99	...

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

Group 6408.

A short stream of spots, forming near 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.
1908. d						°	°	°
Apr. 19·514	G	4	20	3	19	60·7	+10·3	+56·9
20·158	D	7	35	8	45	61·4	+10·4	+66·1
21·153	D	6	35	14	96	60·6	+10·5	+78·4
Means ...	..	...	...	8	53	60·90	+10·40	...

Group 6407.

Possibly a return of Group 6392*. A large 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.
Apr. 19·514	G	18	112	24	152	294·8	− 8·5	−69·0
20·158	D	18	137	18	142	293·8	− 8·1	−61·5
21·153	D	36	197	27	148	294·1	− 7·5	−48·1
22·066	D	34	221	21	136	294·3	− 7·8	−35·8
23·102	D	36	231	19	125	294·2	− 7·8	−22·2
24·519	G	27	165	14	83	295·1	− 7·5	− 2·6
25·090	D	29	195	15	98	295·1	− 7·4	+ 5·0
26·525	G	15	168	8	92	295·2	− 7·4	+24·0
27·085	D	22	148	13	87	295·6	− 7·4	+31·8
28·169	D	18	128	13	90	294·5	− 7·4	+45·0
29·066	D	15	74	14	70	296·0	− 7·5	+58·4
30·397	D	5	34	11	69	296·3	− 6·9	+76·3
Means ...	...	...	...	16	108	294·92	− 7·60	...

Group 6411.

A few very small 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.
Apr. 20·158	D	0	11	0	10	300·3	+ 3·5	−55·0
21·153	D	3	22	2	15	301·1	+ 3·6	−41·1
Means ...	...	...	...	1	13	300·70	+ 3·55	...

Group 6409.

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.
Apr. 21·153	D	2	12	1	7	10·7	−14·5	+28·5
22·066	D	0	15	0	10	10·9	−14·0	+40·8
Means ...	...	...	...	1	9	10·80	−14·25	...

Group 6410.

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.
Apr. 21·153	D	0	22	0	12	328·4	−11·9	−13·8
22·066	D	0	34	0	17	328·5	−12·3	− 1·6
Means ...	...	...	...	0	15	328·45	−12·10	...

Group 6412.

Some 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.
1908. d						°	°	°
Apr. 23·102	D	0	36	0	19	303·9	− 9·0	−12·5
Means ...	...	...	...	0	19	303·9	− 9·0	...

Group 6413.

Some small spots in a straight 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.
Apr. 23·102	D	0	15	0	24	243·6	−18·7	−72·8
24·519	G	5	50	4	41	244·4	−17·2	−53·3
25·090	D	13	64	10	48	242·2	−17·5	−47·9
26·525	G	1	29	1	18	242·6	−17·6	−28·6
27·085	D	0	26	0	14	242·4	−18·0	−21·4
Means ...	...	...	...	3	29	243·04	−17·80	...

Group 6414.

Return of Group 6392. A few small 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.
Apr. 24·519	G	0	65	0	171	217·7	−17·1	−80·0
25·090	D	18	118	33	215	215·2	−16·6	−74·9
26·525	G	19	257	17	226	216·3	−16·7	−54·9
27·085	D	31	235	24	176	216·4	−16·8	−47·4
28·169	D	45	234	28	145	215·3	−16·6	−34·2
29·066	D	20	285	11	157	215·7	−16·8	−21·9
30·397	D	26	191	13	99	216·6	−17·1	− 3·4
May 1·514	G	6	71	3	38	219·1	−17·2	+13·8
2·128	D	2	95	1	52	216·1	−16·3	+19·0
3·079	D	0	6	0	4	221·1	−17·3	+36·5
Means ...	...	...	...	13	128	216·95	−16·85	...

Group 6415.

A few small unstable spots in an irregular cluster; not seen on April 30.

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.
Apr. 25·090	D	2	114	7	346	208·5	−18·8	−81·6
26·525	G	9	111	10	121	208·7	−19·1	−62·5
27·085	D	13	117	12	105	208·5	−19·4	−55·3
28·169	D	15	142	10	99	206·8	−19·1	−42·7
29·066	D	5	54	3	32	207·5	−18·1	−30·1
30·397	D	0	0	0	0	...	...	...
May 1·514	G	0	87	0	43	210·1	−16·1	+ 4·8
2·128	D	5	65	2	34	207·8	−16·9	+10·7
3·079	D	0	37	0	21	209·4	−16·6	+24·8
4·196	D	0	39	0	26	208·7	−16·3	+38·9
5·105	D	0	9	0	7	209·5	−18·0	+51·7
Means ...	...	...	...	4	76	208·55	−17·84	...

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

Group 6417.

A very small spot, not seen on April 26 and 27.

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.
1908. d						°	°	°
Apr. 25·090	D	0	8	0	10	222·4	−14·5	−67·7
26·525	G	0	0	0	0	...	...	...
27·085	D	0	0	0	0	...	...	...
28·169	D	0	4	0	3	223·3	−14·2	−26·2
Means ...	...	...	...	0	3	222·85	−14·35	...

Group 6416.

Return of Group 6390. A large regular spot, *a*, with a small companion on May 6.

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.
Apr. 27·085	D	6	34	15	87	184·4	− 9·3	−79·4
28·169	D	13	73	17	92	182·4	− 9·3	−67·1
29·066	D	18	117	15	99	183·6	− 8·8	−54·0
30·397	D	24	149	15	92	184·0	− 8·9	−36·0
May 1·514	G	24	141	13	76	184·4	− 8·5	−20·9
2·128	D	25	140	13	72	184·3	− 8·8	−12·8
3·079	D	11	99	6	50	184·3	− 8·7	− 0·3
4·196	D	17	99	9	51	184·6	− 8·5	+14·8
5·105	D	21	88	12	50	184·9	− 8·7	+27·1
6·085	D	16	96	10	63	185·5	− 8·8	+40·7
7·431	G	8	31	8	29	185·3	− 8·8	+58·3
8·130	D	5	20	6	26	185·5	− 9·1	+67·7
Means ...	...	...	...	12	66	184·43	− 8·85	...

Group 6418.

A regular spot, *a*, with a train of 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.
Apr. 28·169	D	13	41	15	46	188·0	+14·0	−61·5
29·066	D	14	52	11	41	190·4	+14·9	−47·2
30·397	D	14	119	8	71	192·5	+14·3	−27·5
May 1·514	G	26	241	14	130	192·8	+14·3	−12·5
2·128	D	36	196	19	103	192·2	+14·1	− 4·9
3·079	D	26	194	13	103	192·3	+14·0	+ 7·7
4·196	D	25	150	14	86	192·9	+14·2	+23·1
5·105	D	18	155	12	101	193·2	+14·2	+35·4
6·085	D	20	96	16	77	193·8	+13·2	+49·0
7·431	G	5	31	6	42	193·6	+13·6	+66·6
8·130	D	0	27	0	59	193·2	+13·8	+75·4
Means ...	...	...	...	12	78	192·26	+14·05	...

Group 6419.

A regular spot, *a*, followed by some very small companions on May 2 and 6. A revival, not a return, of Group 6391.

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.
Apr. 28·169	D	3	27	11	85	168·0	−11·4	−81·5
29·066	D	10	79	13	103	169·5	−11·0	−68·1
30·397	D	25	120	19	94	169·6	−11·5	−50·4

Group 6419—*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.
1908. d						°	°	°
May 1·514	G	28	171	18	105	170·1	−11·6	−35·2
2·128	D	30	178	17	102	169·8	−12·2	−27·3
3·079	D	26	194	13	101	170·2	−11·8	−14·4
4·196	D	27	185	14	93	170·7	−11·6	+ 0·9
5·105	D	30	177	16	92	171·0	−11·4	+13·2
6·085	D	36	181	20	102	170·9	−11·7	+26·1
7·431	G	15	113	11	79	171·2	−11·5	+44·2
8·130	D	16	90	13	76	171·3	−11·8	+53·5
9·518	G	8	55	13	84	170·7	−12·2	+71·3
Means ...	...	...	...	15	93	170·25	−11·64	...

Group 6407*.

Some small spots, *nf* Group 6407.

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.
Apr. 29·066	D	0	30	0	21	281·0	− 2·5	+43·4
Means ...	...	...	...	0	21	281·0	− 2·5	...

Group 6420.

Return of Group 6393. A large regular spot, *a*, with occasionally 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.
Apr. 29·066	D	27	137	48	243	163·3	−14·1	−74·3
30·397	D	45	249	42	230	162·6	−14·4	−57·4
May 1·514	G_1	52	379	36	261	162·7	−14·1	−42·6
2·128	D	65	366	40	226	162·4	−15·1	−34·7
3·079	D	71	443	39	244	162·3	−15·0	−22·3
4·196	D	68	478	35	247	162·8	−14·9	− 7·0
5·105	D	75	468	39	239	162·8	−14·7	+ 5·0
6·085	D	78	410	42	220	162·2	−15·4	+17·4
7·431	G	50	367	31	228	162·0	−15·0	+35·0
8·130	D	36	325	26	230	162·0	−15·2	+44·2
9·518	G	21	193	23	208	161·7	−15·3	+62·3
10·588	G	14	98	29	200	161·5	−15·3	+76·2
11·153	D	8	54	30	207	161·0	−14·7	+83·2
Means ...	...	...	...	35	229	162·25	−14·86	...

Group 6421.

Some small unstable spots in a straggling stream, not seen on May 7.

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.
Apr. 29·066	D	0	7	0	10	166·5	− 4·3	−71·1
30·397	D	8	39	7	33	166·5	− 4·7	−53·5
May 1·514	G	11	56	7	35	167·1	− 4·6	−38·2
2·128	D	9	38	5	23	166·4	− 5·5	−30·7
3·079	D	0	26	0	14	166·0	− 5·3	−18·6
4·196	D	5	83	2	42	169·5	− 5·1	− 0·3

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

Group 6421—*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.
1908. d						°	°	°
May 5·105	D	0	33	0	17	170·0	− 5·0	+12·2
6·085	D	0	39	0	22	170·1	− 5·7	+25·3
7·431	G	0	0	0	0	...	...	...
8·130	D	0	19	0	16	171·5	− 6·2	+53·7
Means ...	...	...	...	2	21	168·18	− 5·16	...

Group 6422.

A small regular spot, *a*, with a distant follower.

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.
Apr. 30·397	D	2	38	2	30	170·4	+ 4·0	−49·6
May 1·514	G	28	109	17	66	172·6	+ 4·1	−32·7
2·128	D	14	95	7	53	171·6	+ 3·7	−25·5
3·079	D	8	36	4	19	172·7	+ 3·8	−11·9
4·196	D	2	27	1	14	172·9	+ 3·9	+ 3·1
5·105	D	0	24	0	12	171·2	+ 2·2	+13·4
Means ...	...	...	...	5	32	171·90	+ 3·62	...

Group 6423.

A small regular spot, *a*.

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 5·105	D	6	35	11	66	83·7	+ 7·1	−74·1
6·085	D	11	72	12	77	83·7	+ 7·8	−61·1
7·431	G	0	29	0	20	84·3	+ 7·3	−42·7
8·130	D	0	9	0	6	83·8	+ 7·4	−34·0
Means ...	...	...	...	6	42	83·88	+ 7·40	...

Group 6424.

Return of Group 6408. A large regular spot, *a*, breaking up into a cluster of small spots after May 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.
May 6·085	D	18	108	38	230	69·6	+12·5	−75·2
7·431	G	30	224	28	209	71·2	+11·9	−55·8
8·130	D	25	251	19	194	70·2	+12·1	−47·6
9·518	G	12	226	7	134	70·8	+12·0	−28·6
10·588	G	13	112	7	60	71·0	+12·1	−14·3
11·153	D	8	41	4	21	69·7	+11·8	− 8·1
12·535	G	0	57	0	30	71·3	+11·5	+11·7
13·453	G	1	26	1	15	71·8	+11·0	+24·4
14·172	D	0	14	0	9	73·3	+11·1	+35·4
15·069	D	0	20	0	15	72·4	+11·2	+46·4
Means ...	...	...	...	10	92	71·13	+11·72	...

Group 6425.

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.
1908. d						°	°	°
May 6·085	D	2	11	4	22	70·2	+ 7·5	−74·6
7·431	G	5	26	4	24	71·0	+ 7·4	−56·0
8·130	D	5	16	3	12	70·4	+ 7·3	−47·4
9·518	G	0	13	0	8	71·7	+ 7·1	−27·7
Means ...	...	...	...	3	17	70·83	+ 7·33	...

Group 6426.

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.
May 7·431	G	4	14	2	8	158·1	+ 6·0	+31·1
8·130	D	0	16	0	11	158·0	+ 6·2	+40·2
9·518	G	0	32	0	31	157·6	+ 5·9	+58·2
Means ...	...	...	...	1	17	157·90	+ 6·03	...

Group 6427.

A double spot, *a*, preceded by 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 7·431	G	8	83	5	48	157·7	− 3·1	+30·7
8·130	D	20	77	14	49	156·6	− 3·1	+38·8
9·518	G	12	84	11	76	155·6	− 3·4	+56·2
10·588	G	7	60	12	100	158·1	− 2·7	+72·8
11·153	D	7	32	17	80	156·5	− 2·1	+78·7
Means ...	...	...	...	12	71	156·90	− 2·88	...

Group 6428.

A small double spot, rapidly developing 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.
May 7·431	G	0	12	0	6	123·7	− 5·6	− 3·3
8·130	D	0	36	0	18	123·8	− 5·9	+ 6·0
9·518	G	0	33	0	18	124·9	− 5·8	+25·5
10·588	G	12	105	8	66	123·4	− 5·1	+38·1
11·153	D	8	61	6	43	123·2	− 4·5	+45·4
12·535	G	15	140	18	161	123·8	− 5·0	+64·2
13·453	G	1	25	2	51	123·3	− 5·5	+75·9
Means ...	...	...	...	5	52	123·73	− 5·34	...

Group 6429.

A regular spot forming *np* Group 6427.

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 9·518	G	12	81	11	77	157·6	− 7·3	+58·2
10·588	G	6	67	12	135	161·3	− 6·9	+76·0
11·153	D	2	21	9	87	161·0	− 6·4	+83·2
Means ...	...	...	...	11	100	159·97	− 6·87	...

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

Group 6430.

Return of Group 6405. A small double spot, *a*.

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.
1908.						°	°	°
May 9·518	G	5	36	6	46	32·2	− 8·8	−67·2
10·588	G	5	29	4	24	31·9	− 9·0	−53·4
11·153	D	3	16	2	11	31·4	− 9·4	−46·4
12·535	G	0	7	0	4	31·4	− 8·9	−28·2
Means ...	...	...	...	3	21	31·73	− 9·03	...

Group 6431.

A small double spot, *a*, with occasionally a very 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.
May 9·518	G	0	31	0	37	33·8	−12·3	−65·6
10·588	G	6	56	5	45	34·3	−12·0	−51·0
11·153	D	16	50	11	35	34·2	−12·6	−43·6
12·535	G	5	42	3	23	35·1	−12·4	−24·5
13·453	G	15	61	8	32	35·2	−12·5	−12·2
14·172	D	11	38	6	20	35·0	−12·6	− 2·9
15·069	D	7	29	3	15	35·8	−12·7	+ 9·8
16·057	D	11	49	6	27	35·6	−13·0	+22·6
17·500	G	0	10	0	7	36·9	−12·6	+43·0
18·436	G	0	6	0	5	37·8	−13·0	+56·3
Means ...	...	...	...	4	25	35·37	−12·57	...

Group 6432.

An irregular cluster of small unstable spots on May 10, rapidly developing on the succeeding days.

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 10·588	G	17	102	11	70	128·2	− 7·9	+42·9
11·153	D	42	207	34	162	128·7	− 7·6	+50·9
12·535	G	31	286	45	415	129·7	− 7·3	+70·1
13·453	G	2	52	9	190	129·7	− 5·8	+82·3
Means ...	...	...	...	25	209	129·08	− 7·15	...

Group 6433.

Some very small unstable spots. The group is not seen on May 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.
May 10·588	G	0	18	0	11	50·5	− 7·7	−34·8
11·153	D	0	0	0	0	...	...	...
12·535	G	4	19	2	10	49·4	−12·3	−10·2
13·453	G	0	4	0	2	49·6	−11·7	+ 2·2
Means ...	...	...	...	1	6	49·83	−10·57	...

Group 6434.

A pair 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.
May 12·535	G	10	36	5	19	76·5	+ 8·4	+16·9
Means ...	...	...	...	5	19	76·5	+ 8·4	...

Group 6435.

Some 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.
1908. d						°	°	°
May 12·535	G	0	11	0	6	28·6	+ 9·8	−31·0
Means ...	...	...	...	0	6	28·6	+ 9·8	...

Group 6436.

A large regular spot, *a*, generally followed by a short train.

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 13·453	G	18	90	42	212	330·4	+11·0	−77·0
14·172	D	21	144	31	210	329·0	+11·7	−68·9
15·069	D	49	251	44	228	330·6	+10·6	−55·4
16·057	D	66	376	46	261	331·3	+11·6	−41·7
17·500	G	91	459	51	255	332·8	+11·1	−21·1
18·436	G	84	501	44	262	332·4	+11·0	− 9·1
19·700	G	82	461	43	240	332·3	+11·1	+ 7·5
20·690	G	70	410	38	226	332·0	+11·2	+20·3
21·688	G	43	329	27	203	331·9	+11·5	+33·4
22·641	G	46	283	34	210	331·9	+11·5	+46·0
23·403	G	29	216	27	200	331·8	+11·8	+56·0
24·483	G	16	130	24	197	331·6	+12·0	+70·1
25·109	D	11	89	29	223	331·2	+12·4	+78·0
Means ...	...	...	...	37	225	331·48	+11·42	...

Group 6424*.

A small spot, *sf* Group 6424.

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 15·069	D	0	16	0	11	65·3	+ 8·9	+39·3
Means ...	...	...	...	0	11	65·3	+ 8·9	...

Group 6437.

Some small spots, *sf* Group 6436.

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 15·069	D	2	21	3	25	322·5	+ 8·0	−63·5
16·057	D	5	28	4	22	324·5	+ 9·8	−48·5
17·500	G	0	17	0	10	322·9	+ 9·2	−31·0
18·436	G	0	27	0	15	321·9	+ 7·3	−19·6
19·700	G	0	62	0	32	322·1	+ 8·7	− 2·7
20·690	G	0	66	0	34	320·6	+ 7·0	+ 8·9
21·688	G	0	19	0	11	322·7	+ 9·7	+24·2
22·641	G	0	6	0	4	323·7	+ 7·0	+37·8
Means ...	...	...	...	1	19	322·61	+ 8·34	...

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 6438. A small spot.								
1908. d						°	°	°
May 21·688	G	0	13	0	8	320·4	−21·6	+21·9
22·641	G	5	25	3	16	321·0	−21·7	+35·1
Means ...	...	...	...	2	13	320·70	−21·65	...
Group 6439. Some small unstable spots.								
May 23·403	G	0	22	0	18	226·4	−21·3	−49·4
24·483	G	0	10	0	6	227·2	−22·0	−34·3
25·109	D	0	3	0	2	226·7	−22·5	−26·5
26·130	D	2	36	1	20	224·9	−21·4	−14·8
Means ...	...	...	...	0	12	226·30	−21·80	...
Group 6439*. A very small spot, *nf* Group 6439.								
May 25·109	D	0	5	0	3	224·6	−16·9	−28·6
Means ...	...	...	...	0	3	224·6	−16·9	−28·6
Group 6440. Return of Group 6420. Third apparition. A large regular spot, *a*, followed on May 29 by a small companion.								
May 26·130	D	6	45	17	137	159·3	−16·0	−80·4
27·638	G	19	138	20	145	159·2	−16·2	−60·6
28·431	G	22	144	17	116	159·0	−16·0	−50·2
29·410	G	29	186	19	121	158·8	−15·5	−37·5
30·058	D	34	215	20	128	158·6	−16·0	−29·1
31·475	G	29	224	15	117	158·9	−15·0	−10·1
June 1·498	G	20	183	11	95	158·6	−14·7	+ 3·2
2·518	G	19	155	10	83	158·4	−14·6	+16·4
3·478	G	18	133	11	78	158·0	−14·4	+28·8
4·151	D	10	95	7	63	158·0	−14·2	+37·7
5·437	G	14	72	13	64	157·8	−14·3	+54·5
6·134	D	10	45	12	53	157·7	−14·1	+63·6
Means ...	...	...	...	14	100	158·53	−15·08	...
Group 6441. A very large regular spot, *a*, crossed by several bright bridges, and generally accompanied by a few small followers. *a* has divided into two parts by June 7.								
May 27·638	G	46	278	97	593	143·3	− 3·2	−76·5
28·431	G	67	416	83	514	143·1	− 3·0	−66·1
Group 6441—*continued.*								
1908. d						°	°	°
May 29·410	G	123	631	101	519	143·6	− 2·9	−52·7
30·058	D	159	733	111	514	143·3	− 3·5	−44·4
31·475	G	140	962	77	531	144·0	− 2·7	−25·0
June 1·498	G	171	1119	87	572	143·9	− 2·8	−11·5
2·518	G	210	1216	106	610	144·1	− 3·1	+ 2·1
3·478	G	169	1335	87	692	144·1	− 3·2	+14·9
4·151	D	227	1142	125	633	144·8	− 2·8	+24·5
5·437	G	121	935	82	631	145·2	− 2·7	+41·9
6·134	D	106	689	86	563	146·3	− 2·8	+52·2
7·671	G	29	210	51	366	147·0	− 3·4	+73·3
Means ...	...	...	...	91	562	144·39	− 3·01	...
Group 6442. Some very small spots.								
May 28·431	G	0	25	0	15	245·8	− 7·8	+36·6
29·410	G	0	18	0	13	246·6	− 7·6	+50·3
30·058	D	0	6	0	6	247·5	− 7·4	+59·8
Means ...	...	...	...	0	11	246·63	− 7·60	...
Group 6443. Some very small unstable spots. Revival of Group 6426.								
May 28·431	G	10	62	7	48	160·1	+ 7·4	−49·1
29·410	G	20	90	13	55	161·3	+ 7·4	−35·0
30·058	D	12	50	7	28	163·0	+ 6·9	−24·7
31·475	G	6	72	3	37	161·2	+ 7·2	− 7·8
June 1·498	G	0	28	0	15	162·7	+ 7·2	+ 7·3
2·518	G	0	8	0	5	163·9	+ 5·5	+21·9
Means ...	...	...	...	5	31	162·03	+ 6·93	...
Group 6444. A small spot.								
May 30·058	D	7	22	4	13	156·8	+ 8·0	−30·9
Means ...	...	...	...	4	13	156·8	+ 8·0	...
Group 6445. A number of spots in a short stream. The leader, *a*, is the largest member.								
May 31·475	G	10	39	12	46	104·5	+12·2	−64·5
June 1·498	G	27	160	21	128	105·1	+11·4	−50·3

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

Group 6445—*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.
1908. d						°	°	°
June 2·518	G	29	251	18	158	105·9	+11·1	−36·1
3·478	G	19	227	11	124	106·9	+10·9	−22·3
4·151	D	49	304	26	160	106·4	+10·7	−13·9
5·437	G	35	229	18	117	108·2	+10·2	+ 4·9
6·134	D	34	208	18	110	109·2	+10·5	+15·1
7·671	G	11	104	7	66	109·8	+10·2	+36·1
8·637	G	7	59	6	45	109·7	+10·2	+48·7
9·242	D	0	63	0	57	109·6	+ 9·6	+56·7
Means ...	...	...	...	14	101	107·53	+10·70	...

Group 6446.

A regular spot, *a*, followed by a short train. *a* breaks up into a short stream by June 7.

May 31·475	G	10	96	12	120	103·1	−10·9	−65·9
June 1·498	G	18	282	15	229	103·9	−11·2	−51·5
2·518	G	51	311	32	197	105·1	−11·1	−36·9
3·478	G	55	330	31	184	105·7	−10·4	−23·5
4·151	D	72	365	37	192	106·0	−10·6	−14·3
5·437	G	46	345	23	176	106·9	−10·6	+ 3·6
6·134	D	39	304	20	160	107·1	−10·6	+13·0
7·671	G	27	170	16	104	106·9	−10·6	+33·2
8·637	G	12	63	9	46	107·2	−10·4	+46·2
9·242	D	5	32	4	28	107·0	−10·2	+54·1
Means ...	...	...	...	20	144	105·89	−10·66	...

Group 6447.

An irregular cluster following Group 6445, and forming with it a long straggling stream.

May 31·475	G	0	17	0	23	100·9	+11·5	−68·1
June 1·498	G	6	80	5	71	100·6	+11·0	−54·8
2·518	G	7	106	5	72	100·5	+10·8	−41·5
3·478	G	12	166	7	96	101·2	+11·3	−28·0
4·151	D	20	216	11	118	100·6	+11·6	−19·7
5·437	G	0	108	0	56	100·6	+12·5	− 2·7
6·134	D	5	42	2	22	100·8	+12·5	+ 6·7
7·671	G	0	46	0	26	101·6	+12·0	+27·9
Means ...	...	...	...	4	61	100·85	+11·65	...

Group 6448.

A fine irregular stream, of which the principal member, *b*, is a very large composite spot in the rear of the group. *a* is a large, nearly regular spot in the forepart of the stream. *b* is divided by a bright bridge, and measured in two parts, *c* and *d*, on June 6. The group follows Group 6446, forming with it a long straight stream.

May 31·475	G	7	178	13	314	95·7	−10·3	−73·3
June 1·498	G	33	505	32	517	95·1	−10·5	−60·3

Group 6448—*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.
1908. d						°	°	°
June 2·518	G	67	945	50	702	95·2	−11·0	−46·8
3·478	G	121	1375	74	837	96·0	−10·8	−33·2
4·151	D	216	1445	122	811	95·7	−11·3	−24·6
5·437	G	134	1225	69	632	95·6	−11·3	− 7·7
6·134	D	141	977	73	499	94·8	−11·5	+ 0·7
7·671	G	46	664	26	364	95·0	−11·0	+21·3
8·637	G	23	298	14	183	94·7	−11·0	+33·7
9·242	D	11	198	8	141	96·5	−11·8	+43·6
10·683	G	1	7	1	7	93·2	−11·0	+59·3
Means ...	...	...	...	44	455	95·23	−11·05	...

Group 6449.

Two small spots, *a* and *b*, of which *a* has disappeared by June 2.

June 1·498	G	5	64	3	37	184·9	− 9·2	+29·5
2·518	G	0	11	0	7	183·2	− 9·6	+41·2
Means ...	...	...	...	2	22	184·05	− 9·40	...

Group 6450.

A pair of small spots, *a* and *b*, on June 1. *b* has disappeared by June 2, but some small spots are then seen *s* of *a*, but disappear before June 3.

June 1·498	G	24	104	13	54	142·9	+ 9·7	−12·5
2·518	G	7	36	4	18	145·8	+ 8·7	+ 3·8
3·478	G	0	23	0	12	146·1	+ 9·2	+16·9
Means ...	...	...	...	6	28	144·93	+ 9·20	...

Group 6441*.

A very small spot, *p* Group 6441 at a considerable distance.

June 2·518	G	0	10	0	5	166·6	− 5·3	+24·6
3·478	G	0	7	0	5	166·7	− 3·7	+37·5
Means ...	...	...	...	0	5	166·65	− 4·50	...

Group 6450*.

A very small spot.

June 2·518	G	0	4	0	2	123·0	−20·8	−19·0
Means ...	...	...	...	0	2	123·0	−20·8	...

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

Group 6451.

A stream of small spots, *s* of Groups 6446 and 6448.

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.
1908. d						°	°	°
June 5·437	G	4	72	2	38	100·7	−16·5	− 2·6
6·134	D	9	40	5	21	101·5	−17·2	+ 7·4
7·671	G	36	321	22	192	102·2	−16·8	+28·5
8·637	G	37	275	26	191	102·1	−16·7	+41·1
9·242	D	43	172	34	139	102·2	−17·0	+49·3
10·683	G	6	81	9	118	102·8	−16·1	+68·9
11·497	G	0	24	0	68	102·3	−16·5	+79·2
Means ...	...	...	...	14	110	101·97	−16·69	...

Group 6452.

A very small spot, *f* Group 6448.

June 7·671	G	0	6	0	3	86·5	−11·7	+12·8
Means ...	...	...	...	0	3	86·5	−11·7	...

Group 6453.

Return of Group 6436. A regular spot, *a*.

June 9·242	D	0	50	0	129	334·1	+10·6	−78·8
10·683	G	11	94	11	95	334·0	+ 9·9	−59·9
11·497	G	14	118	11	92	333·8	+ 9·9	−49·3
12·068	D	18	123	12	84	333·7	+10·2	−41·8
13·051	D	27	160	16	92	333·4	+10·3	−29·1
14·622	G	19	174	10	89	333·3	+10·1	− 8·4
15·388	G	18	157	9	79	333·3	+10·2	+ 1·7
16·171	D	23	143	12	74	333·2	+10·5	+12·0
17·176	K	19	114	11	64	332·9	+10·5	+25·0
18·625	G	16	85	11	60	332·8	+10·7	+44·0
19·679	G	10	56	9	53	332·8	+10·9	+58·0
20·408	G	5	19	6	26	332·8	+10·9	+67·7
Means ...	...	...	...	10	78	333·34	+10·39	...

Group 6454.

A few very small spots developing into an irregular stream, of which, *a*, the last spot, is the largest and most stable member.

June 10·683	G	25	108	15	62	61·8	+10·5	+27·9
11·497	G	19	149	12	97	61·6	+10·3	+38·5
12·068	D	17	78	13	57	62·0	+10·4	+46·5
13·051	D	7	27	6	27	61·5	+10·1	+59·0
Means ...	...	...	...	12	61	61·73	+10·33	...

Group 6455.

A few very small spots. Revival of Group 6437.

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.
1908. d						°	°	°
June 13·051	D	5	15	3	10	322·3	+ 6·3	−40·2
14·622	G	7	29	4	15	324·9	+ 5·6	−16·8
15·388	G	0	8	0	4	325·0	+ 5·4	− 6·6
Means ...	...	...	...	2	10	324·07	+ 5·77	...

Group 6456.

A small spot, *a*, with two very small companions on June 19.

June 16·171	D	7	39	12	66	248·4	− 2·7	−72·8
17·176	K	6	30	6	30	247·9	− 2·3	−60·0
18·625	G	6	29	4	19	248·7	− 2·0	−40·1
19·679	G	0	18	0	10	249·7	− 1·8	−25·1
Means ...	...	...	...	6	31	248·68	− 2·20	...

Group 6457.

A regular spot, *a*, usually followed by a short train.

June 16·171	D	5	33	11	97	240·9	+ 5·9	−80·3
17·176	K	19	97	24	118	242·4	+ 6·2	−65·5
18·625	G	22	121	15	84	245·3	+ 5·6	−43·5
19·679	G	24	146	14	86	243·4	+ 5·5	−31·4
20·408	G	17	100	9	54	243·9	+ 5·4	−21·2
21·599	G	10	44	5	22	244·8	+ 5·2	− 4·6
22·103	D	7	32	3	16	244·3	+ 5·7	+ 1·6
23·652	G	0	7	0	4	244·4	+ 6·0	+22·2
Means ..	...	...	...	10	60	243·68	+ 5·69	...

Group 6458.

Some very small spots.

June 18·625	G	1	25	1	14	313·1	+12·3	+24·3
19·679	G	0	12	0	8	314·7	+12·7	+39·9
Means ...	...	...	...	1	11	313·90	+12·50	...

Group 6459.

Some very small spots.

June 18·625	G	7	44	4	23	294·3	− 9·7	+ 5·5
19·679	G	0	16	0	9	297·0	− 9·5	+22·2
Means ...	...	...	...	2	16	295·65	− 9·60	...

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 6460. Some small unstable spots in a straggling stream.								
1908. d						°	°	°
June 19·679	G	19	81	10	42	282·2	+ 9·7	+ 7·4
20·408	G	16	156	9	82	282·4	+ 9·9	+17·3
21·599	G	0	29	0	17	280·7	+10·6	+31·3
Means ...	...	...	...	6	47	281·77	+10·07	...
Group 6456*. A small spot, *s*, the place of Group 6456.								
June 20·408	G	0	11	0	6	249·2	− 6·3	−15·9
21·599	G	0	17	0	9	251·2	− 5·6	+ 1·8
Means ...	...	...	...	0	8	250·20	− 5·95	...
Group 6461. A very small spot.								
June 20·408	G	0	13	0	7	259·1	− 6·6	− 6·0
Means ...	...	...	...	0	7	259·1	− 6·6	...
Group 6462. Some very small spots, *f* Group 6457.								
June 21·599	G	0	21	0	11	239·1	+ 6·2	−10·3
Means ...	...	...	...	0	11	239·1	+ 6·2	...
Group 6461*. A very small spot, possibly a revival of Group 6461.								
June 23·652	G	0	7	0	5	261·3	− 6·3	+39·1
Means ...	...	...	...	0	5	261·3	− 6·3	...
Group 6461†. A small spot, *f* Group 6461*.								
June 23·652	G	0	22	0	12	242·4	− 8·6	+20·2
Means ...	...	...	...	0	12	242·4	− 8·6	...

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 6463. Several unstable spots in a stream much inclined to the equator. The stream undergoes considerable change.								
1908. d						°	°	°
June 23·652	G	19	94	10	51	225·1	−19·6	+ 2·9
24·379	G	36	254	20	141	225·2	−19·5	+12·6
25·144	D	30	244	17	143	226·2	−19·2	+23·8
26·335	G	25	242	17	169	226·0	−19·1	+39·3
27·297	D	43	178	39	159	226·6	−19·3	+52·6
28·172	D	10	108	13	133	225·9	−18·6	+63·5
29·390	G	0	44	0	127	224·8	−20·9	+78·5
Means ...	...	...	...	17	132	225·69	−19·46	...
Group 6463*. Some very small faint spots.								
June 23·652	G	0	8	0	6	181·0	+21·0	−41·2
Means ...	...	...	...	0	6	181·0	+21·0	...
Group 6464. Return of Group 6441. A large regular spot, *a*, sometimes preceded by several small spots.								
June 23·652	G	10	92	13	123	154·3	− 2·8	−67·9
24·379	G	21	165	20	158	154·1	− 3·1	−58·5
25·144	D	41	171	31	130	153·6	− 2·4	−48·8
26·335	G	23	191	14	115	154·1	− 3·0	−32·6
27·297	D	34	214	18	115	153·7	− 2·9	−20·3
28·172	D	30	164	15	84	154·0	− 2·9	− 8·4
29·390	G	24	185	12	94	154·4	− 2·8	+ 8·1
30·393	G	27	264	14	142	154·6	− 3·2	+21·6
July 1·358	G	17	152	10	93	153·9	− 3·3	+33·7
2·678	G	15	111	12	89	153·9	− 3·3	+51·2
3·351	G	15	82	15	85	154·4	− 3·3	+60·6
4·088	D	6	43	9	66	154·7	− 2·5	+70·6
Means ...	...	...	...	15	108	154·14	− 2·96	...
Group 6465. A large regular spot, *a*, with occasionally a very small companion.								
June 24·379	G	19	109	61	342	132·8	−15·4	−79·8
25·144	D	25	162	42	273	131·0	−15·1	−71·4
26·335	G	48	329	45	306	131·4	−15·4	−55·3
27·297	D	89	422	64	303	131·1	−15·0	−42·9
28·172	D	68	399	42	245	131·3	−15·4	−31·1
29·390	G	87	537	48	293	131·3	−15·3	−15·0
30·393	G	91	532	48	282	130·9	−15·1	− 2·1

AREAS and HELIOGRAPHIC POSITIONS of GROUPS of SUN SPOTS—*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.
Group 6465—*continued.*								
1908. d						°	°	°
July 1·358	G	82	547	44	294	130·5	−15·3	+10·3
2·678	G	68	450	41	270	130·3	−15·6	+27·6
3·351	G	68	427	45	282	130·2	−15·8	+36·4
4·088	D	52	304	40	231	130·1	−15·5	+46·0
5·082	D	41	233	43	244	129·9	−15·9	+59·0
6·251	D	19	96	40	197	129·5	−16·9	+74·1
Means ...	...	...	...	46	274	130·79	−15·52	...
Group 6466. A few small spots in an irregular straggling stream.								
June 28·172	D	0	9	0	16	89·3	+12·7	−73·1
29·390	G	0	15	0	13	89·5	+13·8	−56·8
30·393	G	0	46	0	32	89·1	+14·4	−43·9
July 1·358	G	0	52	0	31	87·7	+13·8	−32·5
2·678	G	23	230	12	123	86·6	+14·5	−16·1
3·351	G	24	227	13	117	86·9	+14·5	− 6·9
4·088	D	14	79	7	41	86·3	+15·1	+ 2·2
5·082	D	10	105	5	55	86·7	+14·7	+15·8
6·251	D	0	24	0	14	85·2	+15·7	+29·8
Means ...	...	...	...	4	49	87·48	+14·36	...
Group 6467. A very small spot.								
July 1·358	G	0	5	0	3	113·0	−11·3	− 7·2
Means ...	...	...	...	0	3	113·0	−11·3	...
Group 6468. A few small spots in an irregular straggling stream.								
July 1·358	G	0	24	0	17	73·6	− 2·2	−46·6
2·678	G	23	103	13	59	74·4	− 3·1	−28·3
3·351	G	12	94	7	50	74·9	− 2·9	−18·9
4·088	D	7	45	3	23	75·4	− 2·9	− 8·7
5·082	D	0	18	0	9	78·2	− 1·7	+ 7·3
Means ...	...	...	...	5	32	75·30	− 2·56	...
Group 6469. A few small spots.								
July 2·678	G	0	6	0	7	39·0	−11·5	−63·7
3·351	G	0	23	0	22	37·8	−11·2	−56·1
Group 6469—*continued.*								
1908. d						°	°	°
July 4·088	D	3	22	3	17	37·4	−11·9	−46·7
5·082	D	0	21	0	12	38·4	−11·6	−32·5
Means ...	...	...	...	1	15	38·15	−11·55	...
Group 6470. Some small spots. The group is not seen on July 7, 8 and 10.								
July 4·088	D	0	11	0	19	14·0	−21·7	−70·1
5·082	D	0	18	0	19	14·2	−20·9	−56·7
6·251	D	2	18	2	14	13·1	−20·4	−42·3
7·535	G	0	0	0	0	...	...	...
8·062	D	0	0	0	0	...	...	...
9·352	G	0	5	0	3	14·0	−20·6	− 0·4
10·389	D	0	0	0	0	...	...	...
11·409	G	0	8	0	5	12·4	−22·1	+25·2
Means ...	...	...	...	0	8	13·54	−21·14	...
Group 6471. A small regular spot, *a*, that speedily breaks up.								
July 4·088	D	0	16	0	33	7·5	+ 9·6	−76·6
5·082	D	5	66	5	74	7·4	+ 9·6	−63·5
6·251	D	14	80	10	60	7·6	+10·0	−47·8
7·535	G	5	35	3	21	6·5	+10·5	−31·9
8·062	D	0	34	0	19	6·1	+10·0	−25·4
9·352	G	0	10	0	5	6·5	+10·7	− 7·9
Means ...	...	...	...	3	35	6·93	+10·07	...
Group 6472. A regular spot, *a*, with occasionally some small companions.								
July 5·082	D	10	59	23	131	353·6	+10·0	−77·3
6·251	D	14	84	15	90	353·2	+10·3	−62·2
7·535	G	15	120	10	84	354·2	+ 9·9	−44·2
8·062	D	15	103	9	65	353·6	+ 9·7	−37·9
9·352	G	19	116	10	62	354·8	+10·3	−19·6
10·389	D	13	81	6	40	354·9	+10·6	− 5·8
11·409	G	6	54	3	28	354·4	+10·5	+ 7·2
12·494	D	2	12	1	6	355·2	+10·7	+22·4
13·060	D	0	13	0	7	355·4	+11·1	+30·1
14·114	D	0	6	0	4	356·0	+11·9	+44·6
Means ...	...	...	...	8	52	354·53	+10·50	...

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

Group 6473.

A few small spots in an irregular stream, much inclined to the equator.

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.
1908. d						°	°	°
July 7·535	G	4	80	2	43	18·3	+11·4	−20·1
8·062	D	5	25	2	13	18·7	+11·0	−12·8
9·352	G	2	63	1	31	18·9	+10·8	+ 4·5
Means ...	...	...	...	2	29	18·63	+11·07	...

Group 6475.

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.
July 9·352	G	0	12	0	7	4·5	−21·0	− 9·9
10·389	D	0	17	0	9	4·6	−21·4	+ 3·9
11·409	G	2	17	1	10	4·3	−21·5	+17·1
Means ...	...	...	...	0	9	4·47	−21·30	...

Group 6476.

Two very small spots; probably a revival of part of Group 6473.

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 13·060	D	0	6	0	5	19·5	+15·1	+54·2
14·114	D	0	8	0	12	22·2	+14·1	+70·8
Means ...	...	...	...	0	9	20·85	+14·60	...

Group 6477.

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.
July 13·060	D	5	17	2	9	332·2	+15·0	+ 6·9
Means ...	...	...	...	2	9	332·2	+15·0	...

Group 6478.

An irregular stream, which soon condenses to form a regular spot, *a*, followed by a short 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.
July 14·114	D	6	50	16	143	233·7	−19·7	−77·7
15·197	D	19	139	26	183	232·8	−20·0	−64·3
16·189	D	33	218	30	196	232·1	−19·8	−51·8
17·338	D	34	145	23	99	233·9	−20·2	−34·8
18·074	D	21	107	12	65	234·3	−20·3	−24·7
19·263	D	31	129	17	72	235·4	−20·5	− 7·8
20·257	D	25	158	14	88	234·7	−20·0	+ 4·6
21·097	D	23	176	13	102	235·2	−20·2	+16·2
22·333	G	14	74	9	50	236·7	−19·8	+34·1
23·220	D	13	66	10	52	235·8	−20·1	+44·9
24·093	D	7	17	7	18	235·6	−20·3	+56·3
25·138	D	2	9	4	15	235·6	−20·1	+70·1
Means ...	...	...	...	15	90	234·65	−20·08	...

Group 6480.

A fine irregular cluster, appearing suddenly some distance west of the central meridian, and diminishing again as quickly as it grew. The leader, *a*, is a large double spot on July 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.
1908. d						°	°	°
July 15·197	D	31	269	18	152	317·4	−14·8	+20·3
16·189	D	49	347	32	224	317·9	−14·8	+34·0
17·338	D	21	164	18	136	318·4	−14·8	+49·7
18·074	D	5	39	5	42	318·7	−14·7	+59·7
19·263	D	0	14	0	33	319·5	−14·8	+76·3
Means ...	...	...	...	15	117	318·38	−14·78	...

Group 6481.

Return of Group 6463. An irregular stream, closely following Group 6478.

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 15·197	D	9	122	17	223	226·1	−21·8	−71·0
16·189	D	7	108	7	120	225·2	−21·2	−58·7
17·338	D	18	71	14	55	225·6	−22·2	−43·1
18·074	D	31	122	20	82	225·9	−21·8	−33·1
19·263	D	2	91	1	54	224·9	−20·1	−18·3
20·257	D	0	73	0	40	225·1	−20·2	− 5·0
21·097	D	0	52	0	29	224·3	−20·1	+ 5·3
22·333	G	5	12	3	7	226·4	−19·7	+23·8
23·220	D	2	16	2	11	225·1	−20·0	+34·2
24·093	D	5	14	4	11	225·1	−20·4	+45·8
25·138	D	0	8	0	9	225·1	−20·4	+59·6
Means ...	...	...	...	6	58	225·35	−20·72	...

Group 6482.

A fine irregular cluster, forming suddenly near the central meridian. The changes in the group are great and rapid.

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 17·338	D	2	56	1	30	248·7	− 3·4	−20·0
18·074	D	34	97	17	50	249·1	− 2·5	− 9·9
19·263	D	16	74	8	37	250·2	− 2·4	+ 7·0
20·257	D	30	229	16	122	250·3	− 2·5	+20·2
21·097	D	46	276	26	163	249·6	− 1·9	+30·6
22·333	G	59	410	44	303	249·6	− 1·4	+47·0
23·220	D	49	238	46	227	248·9	− 1·6	+58·0
24·093	D	26	150	36	212	248·4	− 1·4	+69·1
25·138	D	4	16	15	58	247·5	− 0·1	+82·0
Means ...	...	...	...	23	134	249·14	− 1·91	...

Group 6483.

A small spot, *a*, preceded on July 17 by two other 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.
July 17·338	D	2	22	2	15	227·4	−12·7	−41·3
18·074	D	0	17	0	11	224·8	−13·5	−34·2
Means ...	...	...	...	1	13	226·10	−13·10	...

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

Group 6484.

Some small scattered 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.
1908. d						°	°	°
July 17·338	D	6	18	9	28	199·2	−13·4	−69·5
18·074	D	5	24	5	25	200·0	−12·9	−59·0
19·263	D	0	11	0	8	200·3	−13·2	−42·9
20·257	D	5	48	3	29	201·2	−13·5	−28·9
21·097	D	0	32	0	18	200·6	−13·6	−18·4
Means ...	...	...	...	3	22	200·26	−13·32	...

Group 6485.

A diminishing spot, *a.*, not seen on July 20 or 21.

July 17·338	D	5	18	13	52	189·4	− 6·1	−79·3
18·074	D	5	23	7	33	189·9	− 5·9	−69·1
19·263	D	0	7	0	6	189·4	− 5·9	−53·8
20·257	D	0	0	0	0	...	...	...
21·097	D	0	0	0	0	...	...	...
22·333	G	0	39	0	21	186·6	− 5·5	−16·0
Means ...	...	...	..	3	19	188·83	− 5·85	...

Group 6486.

A small spot forming near the central meridian, and developing into a fine irregular cluster which draws out into a stream, of which *a*, the last spot, is the largest and most stable member.

July 18·074	D	2	7	1	4	245·6	+14·7	−13·4
19·263	D	0	105	0	53	244·1	+14·4	+ 0·9
20·257	D	46	317	24	165	244·8	+14·3	+14·7
21·097	D	43	274	24	154	245·0	+14·6	+26·0
22·333	G	48	324	34	224	245·5	+15·3	+42·9
23·220	D	44	290	38	248	245·3	+14·6	+54·4
24·093	D	39	221	45	255	243·8	+14·4	+64·5
25·138	D	7	27	15	58	242·9	+14·3	+77·4
Means ...	...	...	...	23	145	244·63	+14·58	...

Group 6487.

A small spot, *a*, with occasionally some very small companions.

July 22·333	G	9	63	6	44	158·7	+10·3	−43·9
23·220	D	14	41	8	23	160·2	+10·2	−30·7
24·093	D	9	27	5	14	160·7	+ 9·8	−18·6
25·138	D	9	42	5	21	160·2	+10·0	− 5·3
26·526	G	4	16	2	8	161·9	+10·2	+14·7
Means ...	...	...	...	5	22	160·34	+10·10	...

Group 6488.

A small spot, *a*, sometimes preceded by one or two small companions.

1908. d						°	°	°
July 22·333	G	6	26	4	19	154·5	+12·0	−48·1
23·220	D	6	19	4	11	154·9	+12·4	−36·0
24·093	D	2	30	1	17	155·8	+13·0	−23·5
25·138	D	0	8	0	4	158·8	+12·8	− 6·7
Means ...	...	...	...	2	13	156·00	+12·55	...

Group 6489.

Return of Group 6465. A large regular spot, *a*.

July 22·333	G	11	72	23	150	128·9	−18·3	−73·7
23·220	D	19	119	24	146	128·1	−17·9	−62·8
24·093	D	27	150	24	135	127·5	−17·8	−51·8
25·138	D	36	189	25	132	127·2	−17·9	−38·3
26·526	G	36	225	21	131	127·6	−18·0	−19·6
27·633	G	34	250	18	137	127·5	−17·7	− 5·0
28·668	G	42	248	23	136	127·2	−17·3	+ 8·3
29·275	D	36	213	21	121	127·0	−17·1	+16·2
30·341	G	25	196	16	123	127·2	−16·4	+30·5
31·687	G	24	145	19	116	126·2	−16·4	+47·3
Aug. 1·375	G	17	94	17	94	126·1	−16·6	+56·3
2·401	G	10	55	16	89	125·4	−16·4	+69·2
Means ...	...	...	...	21	126	127·16	−16·32	...

Group 6485*.

Two very small spots, *f* the place of Group 6485.

July 28·668	G	0	15	0	10	164·1	− 5·3	+45·2
Means ...	...	...	...	0	10	164·1	− 5·3	...

Group 6490.

A magnificent stream, of closely compacted spots, showing much detail. Three very large composite spots, *a*, *b* and *c*, are the chief members of the group on August 3 and 4, and a smaller spot, *d*, lies *s* of *c*. The group undergoes rapid change, and *a* and *b* have coalesced by August 7 to form a very large spot *e*; whilst *e* and *c* have similarly combined to form *f* by August 9. Easily visible to the naked eye.

July 29·275	D	0	27	0	131	28·4	−14·6	−82·4
30·341	G	10	104	15	150	29·1	−14·9	−67·6
31·687	G	24	192	20	164	28·0	−13·7	−50·9
Aug. 1·375	G	41	288	30	212	27·2	−14·1	−42·6
2·401	G	156	971	99	610	25·6	−15·3	−30·6
3·426	G	346	2217	196	1252	25·5	−15·5	−17·2
4·476	D	424	2622	230	1421	24·4	−15·5	− 4·4
5·435	D	325	2472	178	1352	24·5	−15·8	+ 8·4
6·600	G	189	2363	113	1410	25·4	−15·6	+24·7
7·422	G	209	2378	141	1593	25·4	−15·4	+35·6

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

Group 6490—*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.
1908. d						°	°	°
Aug. 8·276	D	318	1976	258	1597	26·0	−15·3	+47·4
9·181	K	209	1622	227	1733	25·4	−15·0	+58·8
10·418	G	41	496	96	1141	25·5	−14·5	+75·3
Means ...	...	...	...	123	982	26·18	−15·02	...

Group 6491.

Revival rather than return of Group 6472. A very large oval spot, *a*, crossed by bright bridges with sometimes one or two very small companions. *a* has divided into two portions *b* and *c* by August 11. Visible to the naked eye.

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 31·687	G	34	282	76	634	0·8	+11·6	−78·1
Aug. 1·375	G	46	468	63	638	0·5	+11·6	−69·3
2·401	G	94	731	83	649	0·0	+11·4	−56·2
3·426	G	157	888	105	597	0·5	+11·4	−42·2
4·476	D	293	1085	168	622	0·4	+12·1	−28·4
5·435	D	226	1343	118	705	0·2	+11·7	−15·9
6·600	G	212	1260	106	633	359·9	+12·0	− 0·8
7·422	G	216	1274	111	653	359·8	+11·8	+10·0
8·276	D	242	1165	131	630	0·4	+12·0	+21·8
9·181	K	181	1148	109	694	0·2	+12·1	+33·6
10·418	G	72	728	56	561	0·0	+12·0	+49·8
11·405	G	55	433	60	470	0·5	+12·2	+63·3
12·150	D	31	228	51	381	0·8	+12·7	+73·5
13·184	D	0	66	0	361	359·8	+12·5	+86·1
Means ...	...	...	...	88	588	0·27	+11·94	...

Group 6492.

An irregular stream chiefly consisting of three composite spots, *a*, *b* and *c*, besides many smaller spots. The group undergoes continual change and by April 8, a new regular spot, *d*, has formed *f a*, whilst *b* and *c* have coalesced to form *e*.

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.
Aug. 2·401	G	24	106	14	63	22·8	+ 8·0	−33·4
3·426	G	60	370	32	197	22·7	+ 8·5	−20·0
4·476	D	109	554	54	278	23·5	+ 8·4	− 5·3
5·435	D	108	791	55	402	24·6	+ 7·8	+ 8·5
6·600	G	66	545	37	300	25·1	+ 8·0	+24·4
7·422	G	76	590	47	365	25·3	+ 7·6	+35·5
8·276	D	107	664	77	477	24·8	+ 7·2	+46·2
9·181	K	98	657	92	624	25·2	+ 7·5	+58·6
10·418	G	29	331	51	589	24·5	+ 7·0	+74·3
11·405	G	0	43	0	207	21·9	+ 7·4	+84·7
Means ...	...	...	...	46	350	24·04	+ 7·74	...

Group 6493.

One or two very small spots, *np* Group 6490.

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.
Aug. 4·476	D	5	15	2	8	34·2	−10·3	+ 5·4
5·435	D	5	37	3	20	34·9	−10·1	+18·8
Means ...	...	...	...	3	14	34·55	−10·20	...

Group 6494.

A large regular spot, *a*, followed by a considerable train.

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.
1908. d						°	°	°
Aug. 4·476	D	22	52	15	39	344·2	− 7·3	−44·6
5·435	D	81	419	47	251	345·7	− 7·1	−30·4
6·600	G	124	745	66	395	346·9	− 7·4	−13·8
7·422	G	168	890	88	461	346·9	− 6·8	− 2·9
8·276	D	233	1269	122	661	347·3	− 6·9	+ 8·7
9·181	K	300	1600	165	880	347·4	− 6·5	+20·8
10·418	G	163	1105	108	721	347·6	− 6·7	+37·4
11·405	G	134	871	111	724	348·5	− 6·4	+51·3
12·150	D	112	542	126	602	349·2	− 6·5	+61·9
13·184	D	45	167	111	389	350·3	− 6·6	+76·6
Means ...	...	...	...	96	512	347·40	− 6·82	...

Group 6493*.

One or two very small spots, *n* the place of Group 6493.

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.
Aug. 8·276	D	0	17	0	16	36·0	− 7·8	+57·4
9·181	K	0	25	0	39	36·6	− 7·8	+70·0
Means ...	...	...	...	0	28	36·30	− 7·80	...

Group 6495.

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.
Aug. 8·276	D	0	6	0	4	18·9	− 7·9	+40·3
Means ...	...	...	...	0	4	18·9	− 7·9	...

Group 6496.

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.
Aug. 8·276	D	1	7	2	9	272·8	−16·7	−65·8
9·181	K	0	7	0	7	273·3	−17·1	−53·3
Means ...	..	...	...	1	8	273·05	−16·90	...

Group 6497.

A spot forming *f* Group 6490.

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.
Aug. 10·418	G	0	22	0	23	8·8	−15·6	+58·6
11·405	G	0	62	0	110	7·8	−16·6	+70·6
Means ...	...	...	...	0	67	8·30	−16·10	...

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

Group 6498.

A few small unstable spots. The group is not seen on August 14.

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.
1908. d						°	°	°
Aug. 13·184	D	3	33	3	24	316·6	−10·4	+42·9
14·514	G	0	0	0	0	...	...	...
15·389	G	0	6	0	11	317·4	−10·3	+72·9
Means ...	...	...	...	1	12	317·00	−10·35	...

Group 6499.

A number of small spots in an irregular stream. The group rapidly develops into a fine compact stream of which *a* and *b*, the first and last spots, are the largest members. *a* and *b* continue to grow, and by April 17 have become very large composite spots, and have practically absorbed the whole of the group.

Aug. 13·184	D	17	112	9	57	269·1	− 4·9	− 4·6
14·514	G	154	1000	82	531	270·4	− 5·1	+14·3
15·389	G	221	1382	127	793	270·6	− 5·5	+26·1
16·160	D	164	1355	106	878	271·6	− 5·6	+37·3
17·410	G	134	1136	115	982	271·1	− 5·7	+53·3
18·158	D	179	833	210	973	271·5	− 5·5	+63·6
19·122	K	75	523	159	1070	270·2	− 6·0	+75·0
Means ...	...	...	...	115	755	270·64	− 5·47	...

Group 6500.

Some small spots in an irregular stream. The group has developed by August 16 into a regular spot, *a*, followed by a small train.

Aug. 13·184	D	3	21	4	29	208·2	−14·9	−65·5
14·514	G	0	26	0	22	207·6	−14·8	−48·5
15·389	G	16	86	11	60	206·2	−14·6	−38·3
16·160	D	40	128	24	77	207·5	−14·7	−26·8
17·410	G	24	130	13	71	208·5	−14·4	− 9·3
18·158	D	32	146	17	78	208·1	−14·9	+ 0·2
19·122	K	31	86	17	48	208·9	−14·6	+13·7
20·224	D	16	97	10	59	209·2	−14·6	+28·6
21·412	G	12	74	9	56	208·7	−14·6	+43·8
22·517	G	7	25	8	26	208·5	−14·7	+58·2
23·151	D	8	34	11	48	208·6	−13·7	+66·7
Means ...	...	...	...	11	52	208·18	−14·59	...

Group 6501.

Some small unstable spots.

Aug. 14·514	G	6	44	3	23	264·8	+11·6	+ 8·7
15·389	G	1	20	1	11	266·0	+12·2	+21·5
16·160	D	0	9	0	5	268·4	+12·4	+34·1
Means ...	...	...	...	1	13	266·40	+12·07	...

Group 6502.

Some small unstable spots. The group is not seen on August 17.

1908. d						°	°	°
Aug. 14·514	G	0	20	0	11	250·6	+14·0	− 5·5
15·389	G	0	40	0	20	253·1	+14·0	+ 8·6
16·160	D	3	17	2	9	252·9	+13·3	+18·6
17·410	G	0	0	0	0	...	...	...
18·158	D	0	34	0	24	252·3	+14·8	+44·4
Means ...	...	...	...	0	13	252·23	+14·03	...

Group 6503.

A number of spots, mostly small and unstable, irregularly scattered over a wide area. The group changes very rapidly.

Aug. 14·514	G	1	17	2	28	186·4	−14·7	−69·7
15·389	G	11	98	10	101	187·1	−14·8	−57·4
16·160	D	40	179	32	150	185·2	−15·4	−49·1
17·410	G	20	198	13	131	183·5	−15·4	−34·3
18·158	D	89	359	51	213	184·1	−15·7	−23·8
19·122	K	156	635	84	351	184·9	−15·4	−10·3
20·224	D	94	832	51	450	185·5	−15·0	+ 4·9
21·412	G	120	648	68	377	185·6	−14·9	+20·7
22·517	G	53	332	34	220	185·3	−14·8	+35·0
23·151	D	66	315	50	233	184·2	−15·0	+42·3
24·465	G	18	218	20	239	184·0	−14·7	+59·4
25·511	G	0	52	0	116	185·5	−13·7	+74·7
26·146	K	0	17	0	60	181·9	−16·7	+79·5
Means ...	...	...	...	32	205	184·86	−15·09	...

Group 6504.

Some small unstable spots. The group is not seen on August 17.

Aug. 14·514	G	0	7	0	21	175·8	+ 1·9	−80·3
15·389	G	5	40	6	47	178·9	+ 3·0	−65·6
16·160	D	0	16	0	15	177·6	+ 2·3	−56·7
17·410	G	0	0	0	0	...	...	...
18·158	D	0	42	0	24	177·0	+ 3·0	−30·9
Means ...	...	...	...	1	21	177·33	+ 2·55	...

Group 6505.

A number of spots, mostly small and unstable irregularly scattered.

Aug. 17·410	G	2	94	2	65	175·7	+16·7	−42·1
18·158	D	38	150	22	88	177·1	+16·7	−30·8
19·122	K	47	208	25	109	179·4	+17·4	−15·8
20·224	D	36	238	18	122	179·2	+17·7	− 1·4
21·412	G	10	59	5	32	181·0	+18·1	+16·1
22·517	G	4	42	2	24	179·2	+17·9	+28·9
23·151	D	2	43	1	27	178·3	+18·5	+36·4
Means ...	...	...	...	11	67	178·56	+17·57	...

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

Group 6506.

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.
1908. d						°	°	°
Aug. 21·412	G	7	24	4	16	195·3	−21·7	+30·4
22·517	G	17	61	13	50	195·0	−21·3	+44·7
23·151	D	14	72	13	69	194·3	−20·8	+52·4
24·465	G	0	6	0	10	192·0	−20·9	+67·4
Means ...	...	...	...	8	36	194·15	−21·18	...

Group 6507.

A few small spots quickly developing into a stream of normal type, of which two double spots, *a* and *b*, are the principal members.

Aug. 22·517	G	0	23	0	13	137·0	−17·0	−13·3
23·151	D	20	74	11	42	137·7	−17·9	− 4·2
24·465	G	36	174	20	99	138·0	−18·1	+13·4
25·511	G	49	298	30	188	138·9	−18·3	+28·1
26·146	K	49	244	34	172	138·9	−18·2	+36·5
27·414	G	23	95	22	92	139·4	−18·5	+53·8
28·672	G	0	15	0	22	134·0	−18·5	+65·0
Means ...	...	...	...	17	90	137·70	−18·07	...

Group 6508.

Two very small spots, of which one has disappeared by August 24.

Aug. 23·151	D	0	14	0	19	71·4	+ 9·1	−70·5
24·465	G	0	6	0	5	72·2	+ 9·3	−52·4
Means ...	...	...	...	0	12	71·80	+ 9·20	...

Group 6509.

A pair of very small faint spots.

Aug. 24·465	G	0	12	0	7	150·7	+ 5·7	+26·1
Means ...	...	...	...	0	7	150·7	+ 5·7	...

Group 6510.

Return of Group 6492. A magnificent, irregular and nearly continuous stream, undergoing frequent changes.

Aug. 25·511	G	71	574	145	1287	33·1	+ 6·3	−77·7
26·146	K	119	911	154	1267	33·1	+ 6·3	−69·3
27·414	G	169	1579	134	1258	34·2	+ 6·3	−51·4
28·672	G	265	2028	162	1236	34·2	+ 6·5	−34·8
29·404	G	334	2416	185	1341	33·9	+ 6·4	−25·4
30·553	G	377	3221	191	1633	34·9	+ 6·3	− 9·3
31·359	D	429	3364	214	1699	36·1	+ 6·4	+ 2·6

Group 6510—*continued.*

1908. d						°	°	°
Sept. 1·497	G	497	3525	264	1868	35·7	+ 6·7	+17·2
2·691	G	443	3152	267	1919	36·8	+ 6·3	+34·1
3·103	D	465	2519	305	1646	37·0	+ 6·8	+39·8
4·126	D	360	1950	298	1611	36·7	+ 7·3	+52·9
5·455	G	135	1017	177	1462	36·4	+ 7·7	+70·2
6·537	G	0	78	0	230	33·1	+ 9·4	+81·2
Means ...	...	...	...	192	1420	35·02	+ 6·82	...

Group 6511.

Return of Group 6490. A very large regular spot, *a*, usually with several small companions. A considerable cluster, *b*, has formed *sf* the chief spot by September 2, but soon breaks up.

Aug. 25·511	G	29	125	98	429	31·3	−13·7	−79·5
26·146	K	52	277	99	528	30·0	−14·0	−72·4
27·414	G	93	524	88	495	30·8	−13·6	−54·8
28·672	G	112	702	77	481	30·8	−13·6	−38·2
29·404	G	133	739	81	450	31·2	−13·3	−28·1
30·553	G	126	900	69	496	31·1	−13·5	−13·1
31·359	D	104	684	55	368	31·4	−13·7	− 2·1
Sept. 1·497	G	117	692	65	383	31·0	−13·8	+12·5
2·691	G	127	769	78	469	30·1	−14·2	+27·4
3·103	D	156	736	102	477	30·3	−14·1	+33·1
4·126	D	130	652	104	521	30·5	−14·0	+46·7
5·455	G	64	320	84	417	30·7	−13·7	+64·5
6·537	G	19	135	55	394	29·9	−13·6	+78·0
Means ...	...	...	...	81	454	30·70	−13·75	...

Group 6512.

Some small unstable spots in an irregular stream.

Aug. 26·146	K	0	25	0	16	72·2	−13·0	−30·2
27·414	K	10	84	6	46	72·5	−13·0	−13·1
28·672	G	5	76	3	41	71·5	−13·2	+ 2·5
29·404	G	0	14	0	8	71·3	−13·1	+12·0
Means ...	...	...	...	2	28	71·88	−13·08	...

Group 6513.

A small spot on August 26. A second is seen near it, and is measured with it on August 27. The two are measured separately, as *a* and *b*, on the succeeding days. Both *a* and *b* have disappeared by September 1, but some very small unstable spots are seen in the neighbourhood.

Aug. 26·146	K	4	27	11	72	21·5	+18·7	−80·9
27·414	G	10	40	11	46	20·6	+18·6	−65·0
28·672	G	10	40	8	30	20·8	+18·5	−48·2
29·404	G	14	57	9	37	21·3	+18·4	−38·0
30·553	G	5	38	3	21	21·4	+18·6	−22·8
31·359	D	7	34	4	19	20·8	+18·5	−12·7

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

Group 6513—*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.
1908. d						°	°	°
Sept. 1·497	G	0	49	0	24	15·6	+16·7	− 2·9
2·691	G	0	21	0	11	17·2	+20·9	+14·5
Means ...	...	...	...	6	33	19·90	+18·61	...

Group 6514.

A small spot.

Aug. 27·414	G	0	15	0	10	121·9	+ 1·2	+36·3
Means ...	...	...	...	0	10	121·9	+ 1·2	...

Group 6515.

One or two small spots.

Aug. 27·414	G	6	48	4	29	114·3	− 8·6	+28·7
28·672	G	0	8	0	6	115·5	− 8·1	+46·5
Means ...	...	...	...	2	18	114·90	− 8·35	...

Group 6516.

Return of Group 6497. A small spot.

Aug. 27·414	G	0	36	0	60	15·9	−15·9	−69·7
28·672	G	6	50	6	47	14·9	−16·0	−54·1
29·404	G	11	50	8	39	14·7	−15·7	−44·6
30·553	G	17	40	10	25	15·0	−15·8	−29·2
31·359	D	3	27	2	16	14·8	−15·9	−18·7
Sept. 1·497	G	0	14	0	8	14·8	−15·6	− 3·7
Means ...	...	...	...	4	33	15·02	−15·82	...

Group 6514*.

A small faint spot, *n* of the place of Group 6514.

Aug. 28·672	G	0	14	0	11	119·6	+ 5·3	+50·6
Means ...	...	...	...	0	11	119·6	+ 5·3	...

Group 6517.

Return of Group 6494. A large regular spot, *a*, with, very occasionally, a small companion.

Aug. 28·672	G	36	169	70	330	354·8	− 6·3	−74·2
29·404	G	55	298	67	363	354·7	− 6·3	−64·6

Group 6517—*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.
1908. d						°	°	°
Aug. 30·553	G	74	443	59	352	354·9	− 6·3	−49·3
31·359	D	88	504	59	336	354·7	− 6·5	−38·8
Sept. 1·497	G	81	555	46	314	354·7	− 6·1	−23·8
2·691	G	116	627	61	328	354·8	− 6·2	− 7·9
3·103	D	126	599	65	309	354·9	− 6·5	− 2·3
4·126	D	123	567	65	299	355·0	− 6·4	+11·2
5·455	G	95	517	56	305	355·1	− 6·6	+28·9
6·537	G	69	421	49	300	355·0	− 6·6	+43·1
7·412	G	53	331	48	298	355·1	− 6·3	+54·7
8·476	G	24	225	34	325	354·9	− 6·4	+68·6
9·414	G	14	107	47	349	354·3	− 6·5	+80·4
Means ..	...	...	...	56	324	354·84	− 6·38	...

Group 6518.

Revival of Group 6491. A number of small unstable spots in an irregular stream.

Aug. 30·553	G	31	156	22	110	359·3	+13·1	−44·9
31·359	D	61	369	38	222	0·2	+13·3	−33·3
Sept. 1·497	G	46	391	25	207	0·6	+13·4	−17·9
2·691	G	43	297	21	150	0·6	+13·5	− 2·1
3·103	D	65	371	33	187	0·4	+13·3	+ 3·2
4·126	D	69	374	37	198	0·7	+13·4	+16·9
5·455	G	28	109	18	66	0·7	+12·8	+34·5
6·537	G	6	28	5	22	1·4	+12·8	+49·5
7·412	G	0	19	0	19	1·8	+13·0	+61·4
Means ...	...	...	...	22	131	0·63	+13·18	...

Group 6518*.

A pair of very small faint spots, *nf* Group 6518.

Sept. 2·691	G	0	17	0	10	339·1	+18·5	−23·6
Means ...	...	...	...	0	10	339·1	+18·5	...

Group 6519.

Return of Group 6499. A very large regular spot, *a*, with occasionally a small companion.

Sept. 2·691	G	15	92	59	353	280·8	− 5·2	−81·9
3·103	D	50	182	128	471	279·2	− 5·8	−78·0
4·126	D	103	424	123	506	279·8	− 5·9	−64·0
5·455	G	133	702	100	527	279·7	− 5·8	−46·5
6·537	G	142	801	87	490	279·6	− 5·8	−32·3
7·412	G	216	975	118	534	279·8	− 5·4	−20·6
8·476	G	185	979	96	508	279·6	− 5·7	− 6·7
9·414	G	178	1017	92	524	279·7	− 5·6	+ 5·8
10·411	G	162	904	88	491	279·7	− 5·5	+18·9

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

Group 6519—*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.
1908. d						°	°	°
Sept. 11·105	D	150	908	87	526	279·6	− 5·4	+28·0
12·427	G	125	778	91	568	279·0	− 5·6	+44·9
13·461	G	76	557	76	560	279·4	− 5·3	+58·9
14·528	G	41	260	78	487	280·1	− 5·4	+73·7
15·087	D	27	112	88	367	279·5	− 4·8	+80·5
Means ...	...	...	...	94	494	279·68	− 5·51	...

Group 6520.

A small spot, *a*, rapidly developing into a very large regular spot.

Sept. 4·126	D	0	4	0	15	261·2	+13·0	−82·6
5·455	G	18	76	19	80	263·8	+14·3	−62·4
6·537	G	45	332	33	245	264·6	+14·2	−47·3
7·412	G	123	633	76	390	264·8	+14·2	−35·6
8·476	G	159	794	85	425	266·5	+13·4	−19·8
9·414	G	185	832	94	421	267·9	+11·7	− 6·0
10·411	G	185	1161	94	588	269·4	+11·3	+ 8·6
11·105	D	221	1010	118	536	270·6	+11·3	+19·0
12·427	G	198	1096	123	677	270·5	+11·0	+36·4
13·461	G	163	857	126	664	270·8	+11·2	+50·3
14·528	G	87	543	99	614	271·0	+11·0	+64·6
15·087	D	92	403	139	608	270·7	+11·6	+71·7
16·140	D	42	132	186	578	270·1	+12·0	+85·0
Means ...	...	...	...	92	449	267·84	+12·32	...

Group 6511*.

One or two very small unstable spots, *nf* Group 6511.

Sept. 5·455	G	0	19	0	13	5·7	−10·2	+39·5
6·537	G	2	8	2	8	8·0	− 9·7	+56·1
7·412	G	0	7	0	10	8·7	− 9·6	+68·3
Means ...	...	...	...	1	10	7·47	− 9·83	...

Group 6522.

A few small spots at first, developing into a fine, very compact stream of many small spots, closely following Group 6520, and forming a train to it. The two groups were visible to the naked eye as a single stream.

Sept. 5·455	G	0	43	0	56	257·5	+14·9	−68·7
6·537	G	21	137	17	112	259·4	+13·9	−52·5
7·412	G	28	254	19	169	258·5	+14·0	−41·9
8·476	G	66	542	39	307	259·1	+14·4	−27·2
9·414	G	90	674	46	349	260·4	+14·4	−13·5
10·411	G	75	661	37	333	261·9	+14·2	+ 1·1
11·105	D	159	1074	82	555	264·7	+12·7	+13·1
12·427	G	90	766	52	444	264·1	+12·6	+30·0
13·461	G	46	371	31	257	263·9	+13·0	+43·4

Group 6522—*continued.*

1908. d						°	°	°
Sept. 14·528	G	19	218	17	204	264·6	+12·9	+58·2
15·087	D	16	118	18	137	264·5	+13·4	+65·5
16·140	D	0	36	0	98	265·9	+12·7	+80·8
Means ...	...	...	...	30	252	262·04	+13·59	...

Group 6521.

Some small unstable spots, *f* Group 6519, and forming a feeble train to it.

Sept. 6·537	G	0	13	0	9	272·5	− 5·0	−39·4
7·412	G	0	62	0	36	272·8	− 4·2	−27·6
8·476	G	0	53	0	28	273·8	− 4·3	−12·5
9·414	G	0	90	0	45	271·4	− 4·0	− 2·5
10·411	G	0	40	0	21	273·2	− 5·7	+12·4
11·105	D	0	20	0	11	272·2	− 5·8	+20·6
Means ...	...	...	...	0	25	272·65	− 4·83	...

Group 6523.

An irregular stream suddenly appearing *p* Group 6519. The first and last spots, *a* and *b*, are the two chief members. Only *b* remains on September 10.

Sept. 7·412	G	40	201	21	106	282·2	+ 8·4	−18·2
8·476	G	55	248	28	124	282·1	+ 8·4	− 4·2
9·414	G	14	136	7	69	282·8	+ 8·1	+ 8·9
10·411	G	2	27	1	15	281·4	+ 7·9	+20·6
Means ...	...	...	...	14	79	282·13	+ 8·20	...

Group 6524.

Some small unstable spots in a short stream. The largest and most stable spots are lettered *a*, *b*, and *c*. The leading portion of the group soon dies out, and new spots form in the rear.

Sept. 8·476	G	19	88	16	78	234·5	−13·7	−51·8
9·414	G	45	239	32	167	234·2	−13·7	−39·7
10·411	G	53	289	32	175	234·5	−13·3	−26·3
11·105	D	49	240	28	135	234·0	−13·5	−17·6
12·427	G	22	96	13	51	233·5	−13·1	− 0·6
13·461	G	5	53	3	28	230·3	−12·8	+ 9·8
14·528	G	31	114	17	66	229·3	−12·2	+22·9
15·087	D	28	152	17	94	230·0	−12·1	+31·0
16·140	D	14	113	11	86	229·8	−11·9	+44·7
17·627	G	12	80	14	105	230·5	−11·7	+65·0
18·415	G	0	21	0	55	232·2	−11·1	+77·1
Means ...	...	...	...	17	95	232·07	−12·65	...

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

Group 6524*.

A small spot, *sp* Group 6524.

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.
1908. d						°	°	°
Sept. 9·414	G	5	23	3	14	243·4	−16·7	−30·5
Means ...	...	...	...	3	14	243·4	−16·7	...

Group 6525.

A large regular spot, *a*, frequently with 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.
Sept. 10·411	G	14	84	35	207	183·0	− 2·7	−77·8
11·105	D	27	146	40	218	181·7	− 3·1	−69·9
12·427	G	47	281	39	232	182·3	− 2·9	−51·8
13·461	G	59	366	38	236	182·8	− 2·9	−37·7
14·528	G	83	438	46	243	183·0	− 2·5	−23·4
15·087	D	103	473	54	249	182·9	− 2·7	−16·1
16·140	D	76	421	39	215	183·1	− 2·7	− 2·0
17·627	G	80	455	43	242	183·2	− 2·6	+17·7
18·415	G	59	381	34	220	183·3	− 2·4	+28·2
19·507	G	35	310	24	215	183·7	− 2·4	+43·0
20·527	G	31	212	28	195	183·6	− 2·3	+56·4
21·147	D	22	151	27	183	184·2	− 1·8	+65·2
22·097	D	9	58	21	139	184·2	− 1·9	+77·7
Means ...	...	...	...	36	215	183·15	− 2·53	...

Group 6526.

A compact stream of which the chief members are two large composite spots, *a* and *b*. The latter breaks up before September 19 and soon disappears.

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. 14·528	G	19	268	38	597	128·4	+ 8·6	−78·0
15·087	D	74	429	101	604	129·0	+ 7·8	−70·0
16·140	D	120	812	106	724	128·7	+ 7·8	−56·4
17·627	G	174	1358	109	849	128·8	+ 8·4	−36·7
18·415	G	208	1387	117	777	128·6	+ 8·6	−26·5
19·507	G	139	1167	71	596	129·5	+ 8·8	−11·2
20·527	G	139	1009	70	507	129·6	+ 9·1	+ 2·4
21·147	D	123	976	63	496	129·4	+ 9·4	+10·4
22·097	D	114	761	61	415	129·8	+ 9·4	+23·3
23·072	D	81	555	51	345	130·0	+ 9·6	+36·4
24·079	D	39	310	30	242	130·7	+ 9·4	+50·4
25·165	D	19	122	22	141	131·1	+10·1	+65·1
26·415	G	0	20	0	46	127·8	+10·4	+78·3
Means ...	...	...	...	65	488	129·34	+ 9·03	...

Group 6527.

A few unstable spots in an irregular stream. The leader, *a*, is the largest and most stable member.

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. 17·627	G	34	123	27	95	209·4	−16·2	+43·9
18·415	G	13	139	13	136	210·0	−16·2	+54·9
19·507	G	5	32	9	58	211·9	−16·2	+71·2
Means ...	...	...	...	16	96	210·43	−16·20	...

Group 6527*.

A very small cluster, *nf* Group 6527.

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.
1908. d						°	°	°
Sept. 17·627	G	0	11	0	6	192·9	−14·9	+27·4
Means ...	...	...	...	0	6	192·9	−14·9	...

Group 6528.

A small spot. The group is not seen from September 20 to September 25 inclusive.

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. 17·627	G	0	14	0	17	102·3	−13·6	−63·2
18·415	G	0	12	0	11	102·0	−13·7	−53·1
19·507	G	0	9	0	7	101·7	−13·8	−39·0
20·527	G	0	0	0	0	...	...	...
21·147	D	0	0	0	0	...	...	...
22·097	D	0	0	0	0	...	...	...
23·072	D	0	0	0	0	...	...	...
24·079	D	0	0	0	0	...	...	...
25·165	D	0	0	0	0	...	...	...
26·415	G	0	9	0	9	104·9	−13·4	+55·4
Means ...	...	...	...	0	4	102·73	−13·63	...

Group 6529.

A regular spot, *a*, followed by a short train.

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. 18·415	G	14	107	16	123	93·8	−12·9	−61·3
19·507	G	22	153	17	116	96·0	−12·8	−44·7
20·527	G	21	190	13	117	97·2	−12·3	−30·0
21·147	D	27	255	15	147	97·6	−12·5	−21·4
22·097	D	30	262	16	140	98·5	−12·3	− 8·0
23·072	D	33	268	18	144	98·7	−12·2	+ 5·1
24·079	D	50	275	27	154	98·5	−12·2	+18·2
25·165	D	33	140	21	88	98·7	−12·1	+32·7
26·415	G	5	126	4	104	98·7	−12·5	+49·2
27·081	D	4	31	4	31	97·6	−12·4	+56·9
Means ...	...	...	...	15	116	97·53	−12·42	...

Group 6530.

A 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.
Sept. 18·415	G	9	52	22	121	75·9	+16·1	−79·2
19·507	G	18	89	20	101	75·9	+16·2	−64·8
20·527	G	19	141	15	114	75·4	+16·3	−51·8
21·147	D	16	112	11	77	75·0	+16·0	−44·0
22·097	D	14	124	9	75	74·3	+15·9	−32·2
23·072	D	14	101	8	55	74·4	+16·0	−19·2
24·079	D	8	37	4	19	74·0	+16·8	− 6·3
25·165	D	4	27	2	14	73·9	+16·1	+ 7·9
Means ...	...	...	...	11	72	74·85	+16·18	...

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 6531. Two small spots.								
1908. h Sept. 19·507	G	0	22	0	21	° 196·8	° −14·8	° +56·1
Means ...	...	...	...	0	21	196·8	−14·8	...
Group 6532. Two small spots, *a* and *b*.								
Sept. 19·507	G	6	40	5	29	93·0	+ 6·4	−47·7
20·527	G	6	39	4	24	93·3	+ 5·9	−33·9
Means ...	...	...	...	5	27	93·15	+ 6·15	...
Group 6533. Return of the preceding portion of Group 6510. A very fine compact cluster in constant change.								
Sept. 20·527	G	0	45	0	182	43·3	+ 9·6	−83·9
21·147	D	9	112	17	206	43·8	+ 8·4	−75·2
22·097	D	30	254	32	266	44·3	+ 8·5	−62·2
23·072	D	90	556	68	421	44·8	+ 8·4	−48·8
24·079	D	145	985	90	596	44·3	+ 8·9	−36·0
25·165	D	138	1121	74	603	44·3	+ 9·2	−21·7
26·415	G	188	1145	94	576	44·6	+ 9·4	− 4·9
27·081	D	171	1064	87	538	44·9	+ 9·5	+ 4·2
28·610	G	116	851	64	471	46·2	+ 9·4	+25·7
29·509	G	61	508	38	319	46·2	+ 9·5	+37·5
30·500	G	56	433	45	347	47·6	+ 9·5	+52·0
Oct. 1·537	G	56	359	65	415	46·9	+ 9·4	+65·0
2·605	G	19	100	47	252	47·3	+ 9·5	+79·5
Means ...	...	...	...	55	399	45·27	+ 9·17	...
Group 6534. A regular spot, *a*, appearing suddenly, *p* Group 6533. Some small companions are sometimes seen near *a*.								
Sept. 22·097	D	16	113	13	97	52·0	+ 7·8	−54·5
23·072	D	26	158	17	103	53·5	+ 7·7	−40·1
24·079	D	40	214	22	119	54·7	+ 8·3	−25·6
25·165	D	29	191	15	98	55·3	+ 8·3	−10·7
26·415	G	35	234	18	118	55·8	+ 8·3	+ 6·3
27·081	D	29	184	15	96	55·9	+ 8·0	+15·2
28·610	G	32	183	20	113	56·6	+ 7·5	+36·1
29·509	G	19	133	14	99	56·9	+ 7·3	+48·2
30·500	G	18	115	18	117	56·7	+ 7·3	+61·1
Oct. 1·537	G	11	47	19	84	56·4	+ 7·2	+74·5
Means ...	...	...	...	17	104	55·38	+ 7·77	...
Group 6535. Return of Group 6517. A regular spot, *a*, steadily diminishing in size. A small spot, *b*, is seen near it on October 2, and alone remains on October 3.								
1908. h Sept. 24·079	D	0	13	0	51	° 358·6	° − 6·3	° −81·7
25·165	D	7	37	10	55	356·5	− 6·8	−69·5
26·415	G	19	75	16	64	357·0	− 6·2	−52·5
27·081	D	12	69	9	50	356·8	− 6·7	−43·9
28·610	G	14	68	8	38	357·2	− 6·6	−23·3
29·509	G	8	27	4	14	357·5	− 6·7	−11·2
30·500	G	8	22	4	11	357·3	− 6·5	+ 1·7
Oct. 1·537	G	0	20	0	11	357·5	− 6·6	+15·6
2·605	G	0	22	0	13	356·0	− 7·2	+28·2
3·499	G	0	5	0	3	355·7	− 7·7	+39·7
Means ...	...	...	...	5	31	357·01	− 6·73	...
Group 6526*. A large double spot, *a*, followed by a short train, appearing suddenly when close to the West limb, *s* of Group 6526.								
Sept. 25·165	D	19	101	27	145	136·3	+ 6·5	+70·3
Means ...	...	...	...	27	145	136·3	+ 6·5	...
Group 6536*. A small spot, *sp* the place of Group 6536.								
Sept. 25·165	D	4	16	3	10	30·4	−14·9	−35·6
Means ...	...	...	...	3	10	30·4	−14·9	...
Group 6536. A pair of small spots.								
Sept. 26·415	G	1	23	1	14	21·3	−11·3	−28·2
Means ...	...	...	...	1	14	21·3	−11·3	...
Group 6530*. A small spot.								
Sept. 27·081	D	0	9	0	5	70·5	+13·7	+29·8
Means ...	...	...	...	0	5	70·5	+13·7	...
Group 6533*. Some small spots, *sf* Group 6533.								
Sept. 28·610	G	0	48	0	24	32·1	+ 6·0	+11·6
Means ...	...	...	...	0	24	32·1	+ 6·0	...

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

Group 6535*.

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.
1908. d						°	°	°
Sept. 28·610	G	0	23	0	16	340·5	+21·3	−40·0
Means ...	...	...	...	0	16	340·5	+21·3	...

Group 6537.

A large regular spot, *a*, with occasionally a small attendant.

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. 28·610	G	21	130	30	183	313·5	−12·3	−67·0
29·509	G	30	205	29	192	313·6	−12·3	−55·1
30·500	G	44	257	32	186	313·3	−12·1	−42·3
Oct. 1·537	G	44	304	27	183	313·6	−12·0	−28·3
2·605	G	56	329	30	179	313·5	−11·9	−14·3
3·499	G	54	395	28	208	313·4	−12·1	− 2·6
4·603	G	56	309	30	166	313·4	−12·2	+11·9
5·090	D	41	259	23	144	313·8	−12·3	+18·8
6·440	G	44	239	29	156	313·2	−12·3	+36·0
7·510	G	26	158	21	131	313·0	−12·3	+49·9
8·626	G	12	77	15	100	313·4	−12·4	+65·0
9·158	D	7	53	12	94	313·3	−11·9	+71·9
Means ...	...	...	...	26	160	313·42	−12·18	...

Group 6533†.

A very small spot, *sf* Group 6533.

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. 29·509	G	0	6	0	3	35·9	+ 1·6	+27·2
Means ...	...	...	...	0	3	35·9	+ 1·6	...

Group 6535†.

A very small spot, *sp* Group 6535*. It is on the same meridian as Group 6535, and at the same distance from the equator, but in the northern hemisphere.

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. 29·509	G	0	16	0	8	356·6	+ 7·4	−12·1
Means ...	...	...	...	0	8	356·6	+ 7·4	...

Group 6538.

Two widely separated spots, *a* and *b*, *p* Group 6537. *b* has disappeared by October 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.
Sept. 30·500	G	19	71	12	45	324·3	−15·4	−31·3
Oct. 1·537	G	22	131	12	74	325·9	−15·3	−16·0
2·605	G	19	70	10	38	326·5	−15·4	− 1·3
3·499	G	4	34	2	19	326·2	−15·5	+10·2

Group 6538—*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.
1908. d						°	°	°
Oct. 4·603	G	0	16	0	10	328·3	−15·6	+26·8
5·090	D	0	5	0	3	328·0	−15·3	+33·0
Means ...	...	...	...	6	32	326·53	−15·42	...

Group 6539.

Return of Group 6519. Third apparition. A large regular spot, *a*, usually with 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.
Sept. 30·500	G	22	152	53	362	278·5	− 5·7	−77·1
Oct. 1·537	G	47	294	54	342	278·3	− 6·0	−63·6
2·605	G	70	430	56	341	278·2	− 5·5	−49·6
3·499	G	87	490	56	316	278·5	− 5·6	−37·5
4·603	G	103	519	58	290	278·4	− 5·5	−23·1
5·090	D	100	490	54	261	278·3	− 5·6	−16·7
6·440	G	94	605	48	307	278·8	− 5·5	+ 1·6
7·510	G	89	521	47	277	278·5	− 5·2	+15·4
8·626	G	72	443	43	265	279·2	− 5·2	+30·8
9·158	D	77	422	50	276	279·5	− 4·8	+38·1
10·533	G	37	243	35	227	279·9	− 4·8	+56·7
11·565	G	23	123	36	193	280·3	− 4·7	+70·7
12·401	G	9	47	36	178	280·6	− 4·7	+82·0
Means ...	...	...	...	48	280	279·00	− 5·29	...

Group 6540.

Return of Group 6520. A large regular spot, *a*, with occasionally one or more 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.
Sept. 30·500	G	16	96	59	346	272·3	+11·0	−83·3
Oct. 1·537	G	44	246	63	348	271·7	+11·2	−70·2
2·605	G	61	391	54	346	271·8	+11·5	−56·0
3·499	G	68	468	47	324	271·7	+11·6	−44·3
4·603	G	91	545	53	315	271·6	+11·9	−29·9
5·090	D	77	495	42	269	271·4	+12·0	−23·6
6·440	G	103	641	52	323	271·4	+12·1	− 5·8
7·510	G	110	599	55	303	271·4	+12·1	+ 8·3
8·626	G	79	556	43	303	271·6	+12·4	+23·2
9·158	D	97	486	56	283	271·7	+12·7	+30·3
10·533	G	58	339	43	252	271·4	+12·4	+48·2
11·565	G	26	226	26	235	271·5	+12·8	+61·9
12·401	G	21	121	34	199	271·8	+12·8	+73·2
Means ...	...	...	...	48	296	271·64	+12·04	...

Group 6541.

Some small spots, *f* Group 6539.

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. 1·537	G	0	51	0	93	268·9	− 6·5	−73·0
2·605	G	12	48	12	47	269·8	− 6·4	−58·0

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

Group 6541—*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.
1908. d						°	°	°
Oct. 3·499	G	0	35	0	26	270·9	− 6·7	−45·1
4·603	G	0	9	0	6	271·6	− 7·1	−29·9
5·090	D	0	8	0	4	271·6	− 6·6	−23·4
6·440	G	5	28	2	15	271·6	− 7·0	− 5·6
7·510	G	8	37	4	19	271·3	− 7·7	+ 8·2
8·626	G	0	54	0	30	271·1	− 6·7	+22·7
9·158	D	0	15	0	9	272·9	− 7·2	+31·5
Means ...	...	...	...	2	28	271·08	− 6·88	...

Group 6541*.

A small spot, *s* Group 6541.

Oct. 1·537	G	0	13	0	23	270·5	−12·7	−71·4
2·605	G	0	6	0	6	270·3	−13·5	−57·5
Means ...	...	...	...	0	15	270·40	−13·10	...

Group 6542.

A small spot, *sf* Group 6537.

Oct. 2·605	G	0	21	0	13	301·9	−15·1	−25·9
Means ...	...	...	...	0	13	301·9	−15·1	...

Group 6543.

A small stream of normal type. The first and last spots, *a* and *b*, are the largest.

Oct. 4·603	G	14	59	13	54	359·2	+ 7·1	+57·7
5·090	D	14	66	16	75	359·8	+ 7·4	+64·8
Means ...	...	...	...	15	65	359·50	+ 7·25	...

Group 6544.

One or two very small unstable spots. Probably a revival rather than a return of Group 6524.

Oct. 5·090	D	2	9	2	8	239·9	−10·4	−55·1
6·440	G	0	13	0	8	241·3	−10·2	−35·9
7·510	G	0	16	0	9	240·2	−10·2	−22·9
Means ...	...	...	...	1	8	240·47	−10·27	...

Group 6545.

Some very faint unstable spots, *p* Group 6545.

1908. d						°	°	°
Oct. 6·440	G	0	49	0	26	285·8	− 6·9	+ 8·6
7·510	G	0	17	0	10	284·8	− 4·2	+21·7
Means ...	...	...	...	0	18	285·30	− 5·55	...

Group 6547.

A small regular spot, *a*, frequently with one or more unstable companions.

Oct. 7·510	G	0	30	0	68	185·3	+ 7·2	−77·8
8·626	G	8	42	9	46	185·2	+ 6·6	−63·2
9·158	D	8	33	7	30	184·8	+ 6·0	−56·6
10·533	G	12	44	7	29	183·6	+ 7·3	−39·6
11·565	G	7	29	4	16	184·9	+ 6·5	−24·7
12·401	G	6	26	3	13	184·8	+ 6·2	−13·8
13·546	G	6	20	3	10	185·1	+ 6·2	+ 1·6
14·519	G	1	19	1	10	185·8	+ 6·5	+15·2
15·620	G	0	21	0	12	184·9	+ 7·5	+28·8
Means ...	...	...	...	4	26	184·93	+ 6·67	...

Group 6546.

Two very faint small spots.

Oct. 8·626	G	0	31	0	20	271·0	−24·6	+22·6
Means ...	...	...	...	0	20	271·0	−24·6	...

Group 6548.

Two small spots, *a* and *b*, *sp* Group 6540.

Oct. 9·158	D	2	28	1	17	279·5	+ 6·7	+38·1
10·533	G	0	12	0	10	278·3	+ 6·4	+55·1
Means ...	...	...	...	1	14	278·90	+ 6·55	...

Group 6549.

A short stream of spots, forming near the West limb. The last spot, *a*, is the largest and most stable.

Oct. 10·533	G	9	94	6	66	261·3	−18·9	+38·1
11·565	G	6	89	5	76	260·1	−18·8	+50·5
12·401	G	9	101	11	120	259·8	−19·0	+61·2
13·546	G	0	30	0	73	258·9	−18·4	+75·4
Means ...	...	...	...	6	84	260·03	−18·78	...

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

Group 6550.

Probably a return of Group 6543. A regular spot, *a*, rapidly diminishing in size. As it diminishes, small spots form in the neighbourhood.

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.
1908. d						°	°	°
Oct. 20·140	D	0	24	0	177	9·9	+ 4·7	−86·6
21·074	D	18	66	30	113	10·7	+ 5·0	−73·5
22·535	G	29	131	25	111	10·7	+ 4·9	−54·2
23·610	G	20	93	13	60	10·9	+ 5·0	−39·8
24·213	D	10	70	6	42	11·4	+ 4·7	−31·4
25·449	G	0	42	0	22	12·9	+ 6·5	−13·6
26·111	D	0	77	0	38	11·6	+ 7·0	− 6·2
Means ...	...	...	...	11	80	11·16	+ 5·40	...

Group 6551*.

Some very small faint spots, *nf* Group 6551, not seen on October 23 and 24.

Oct. 21·074	D	0	13	0	7	57·8	+ 8·6	−26·4
22·535	G	0	9	0	5	58·5	+ 7·2	− 6·4
23·610	G	0	0	0	0	...	...	...
24·213	D	0	0	0	0	...	...	...
25·449	G	0	18	0	11	57·5	+ 9·7	+31·0
Means ...	...	...	...	0	5	57·93	+ 8·50	...

Group 6551.

Some very small faint unstable spots.

Oct. 21·074	D	2	34	1	18	61·9	+ 3·5	−22·3
22·535	G	0	6	0	3	59·4	+ 3·6	− 5·5
Means ...	...	...	...	1	11	60·65	+ 3·55	...

Group 6552.

Two small spots.

Oct. 22·535	G	0	17	0	21	131·1	+13·5	+66·2
Means ...	...	...	...	0	21	131·1	+13·5	...

Group 6553.

A few small unstable spots.

Oct. 22·535	G	0	21	0	11	42·5	+ 8·2	−22·4
23·610	G	0	46	0	23	41·3	+ 6·5	− 9·4
24·213	D	0	21	0	10	44·4	+ 8·3	+ 1·6
Means ...	...	...	...	0	15	42·73	+ 7·67	...

Group 6554.

A small spot, *a*, with one or two 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.
1908. d						°	°	°
Oct. 23·610	G	0	22	0	12	38·0	− 6·4	−12·7
24·213	D	0	12	0	6	39·4	− 6·0	− 3·4
25·449	G	0	62	0	33	41·4	− 7·0	+14·9
26·111	D	22	99	12	54	39·4	− 6·3	+21·6
27·094	D	5	39	3	25	40·6	− 5·5	+35·8
Means ...	...	...	...	3	26	39·76	− 6·24	...

Group 6551†.

Some very small faint spots, *nf* Groups 6551 and 6551*.

Oct. 25·449	G	0	35	0	20	54·0	+12·6	+27·5
Means ...	...	...	...	0	20	54·0	+12·6	...

Group 6555.

Some small spots in a straight stream. The rear spot, *a*, is the largest, and alone remains by October 28.

Oct. 27·094	D	10	56	6	32	347·1	−16·9	−17·7
28·119	D	0	8	0	4	345·0	−16·9	− 6·2
Means ...	...	...	...	3	18	346·05	−16·90	...

Group 6556.

A small spot, *a*. Probably a revival of Group 6548.

Oct. 27·094	D	0	13	0	22	292·8	+ 7·2	−72·0
28·119	D	0	10	0	9	292·6	+ 7·1	−58·6
29·167	D	2	16	2	11	292·9	+ 7·0	−44·6
30·420	G	5	17	3	10	293·5	+ 7·3	−27·4
31·094	D	2	14	1	7	293·2	+ 7·4	−18·8
Means ...	...	...	...	1	12	293·00	+ 7·20	...

Group 6557.

Two small spots, *a* and *b*. *a* has disappeared by October 29.

Oct. 28·119	D	2	31	2	28	294·7	− 3·1	−56·5
29·167	D	0	10	0	7	293·7	− 3·2	−43·8
Means ...	...	...	...	1	18	294·20	− 3·15	...

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

Group 6558.

Return of Group 6540. Third apparition. A regular spot, *a*.

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.
1908. d						°	°	°
Oct. 28·119	D	7	48	16	118	272·1	+12·4	−79·1
29·167	D	11	63	13	75	272·1	+12·3	−65·4
30·420	G	14	104	11	79	271·9	+12·8	−49·0
31·094	D	13	109	9	72	271·7	+12·6	−40·3
Nov. 1·568	G	18	108	10	58	271·7	+12·8	−20·9
2·090	D	13	96	7	50	271·6	+12·8	−14·1
3·153	D	15	85	8	43	271·4	+13·0	− 0·3
4·599	G	10	46	6	25	271·5	+12·6	+18·9
5·166	D	15	56	9	32	271·3	+13·1	+26·1
6·426	G	7	25	5	17	271·6	+12·7	+43·0
7·127	D	8	26	6	22	271·9	+13·5	+52·6
Means ...	...	...	...	9	54	271·71	+12·78	...

Group 6559.

A large regular spot, *a*, with a very small companion on November 8. *a* becomes oval in shape, and is divided by bright bridges into several sections on November 9 and the succeeding days.

Nov. 2·090	D	15	83	37	203	208·8	−13·3	−76·9
3·153	D	33	174	40	212	207·8	−13·6	−63·9
4·599	G	35	267	25	196	208·4	−13·3	−44·2
5·166	D	52	302	34	199	208·1	−13·8	−37·1
6·426	G	48	357	27	201	208·8	−13·7	−19·8
7·127	D	39	306	21	164	209·2	−14·3	−10·1
8·103	D	65	352	34	185	208·7	−14·4	+ 2·3
9·511	G	53	311	30	175	208·4	−14·3	+20·5
10·489	G	26	197	17	124	208·0	−14·1	+33·0
11·104	D	37	165	26	116	208·3	−14·0	+41·4
12·534	G	7	63	7	65	207·2	−14·1	+59·2
Means ...	...	...	...	27	167	208·34	−13·90	...

Group 6562.

A regular spot, *a*, closely preceding Group 6560, which forms a train to it. A small companion is seen following *a* on November 6 and 7.

Nov. 5·166	D	1	9	2	12	175·9	+ 9·1	−69·3
6·426	G	21	60	17	48	177·2	+ 9·6	−51·4
7·127	D	22	119	15	80	177·8	+ 9·0	−41·5
8·103	D	17	126	10	72	177·8	+ 9·1	−28·6
9·511	G	25	140	13	71	178·2	+ 9·2	− 9·7
10·489	G	23	165	12	83	178·3	+ 9·0	+ 3·3
11·104	D	26	135	13	69	178·6	+ 9·1	+11·7
12·534	G	18	96	11	57	179·3	+ 8·3	+31·3
13·505	G	14	62	10	43	179·5	+ 8·1	+44·3
14·158	D	12	52	10	43	179·5	+ 8·8	+52·9
15·128	D	2	9	3	10	179·3	+ 8·8	+65·5
Means ...	...	...	...	11	53	178·31	+ 8·92	...

Group 6560.

A small spot, *a*, closely following Group 6562. Some unstable companions form in advance of *a*.

1908. d						°	°	°
Nov. 5·166	D	0	13	0	23	171·5	+ 9·3	−73·7
6·426	G	16	79	14	69	173·6	+10·2	−55·0
7·127	D	11	65	8	47	173·0	+ 9·4	−46·3
8·103	D	22	71	14	43	172·0	+ 9·4	−34·4
9·511	G	5	30	2	16	173·4	+ 9·2	−14·5
Means ...	...	...	...	8	40	172·70	+ 9·50	...

Group 6561.

A few small spots, developing into an irregular stream immediately after passing the Central meridian. The two chief spots, *a* and *b*, are both double spots; but *b* quickly disappears, and *a* alone remains by November 13.

Nov. 6·426	G	5	31	3	19	193·6	+13·7	−35·0
7·127	D	9	33	4	18	194·0	+13·7	−25·3
8·103	D	9	61	4	32	194·3	+14·2	−12·1
9·511	G	92	482	47	248	195·1	+14·3	+ 7·2
10·489	G	71	503	39	275	195·9	+13·8	+20·9
11·104	D	44	328	26	193	196·6	+13·9	+29·7
12·534	G	21	123	16	98	198·5	+13·0	+50·5
13·505	G	9	41	10	47	199·1	+13·3	+63·9
14·158	D	2	25	4	41	198·9	+14·0	+72·3
Means ...	...	...	...	17	108	196·22	+13·77	...

Group 6563.

A small spot. A revival of Group 6556.

Nov. 7·127	D	0	10	0	13	287·6	+ 7·8	+68·3
Means ...	...	...	...	0	13	287·6	+ 7·8	...

Group 6564.

A cluster of very small spots on November 7, rapidly developing on the succeeding days.

Nov. 7·127	D	4	27	4	25	162·4	+10·5	−56·9
8·103	D	52	295	36	206	162·8	+10·9	−43·6
9·511	G	145	709	82	397	162·6	+11·1	−25·3
10·489	G	202	1397	104	720	163·3	+10·9	−11·7
11·104	D	295	1692	150	858	162·9	+11·5	− 4·0
12·534	G	220	1309	117	693	164·8	+11·8	+16·8
13·505	G	181	1319	106	771	165·2	+12·0	+30·0
14·158	D	219	1099	142	711	165·3	+12·8	+38·7
15·128	D	136	956	111	773	165·3	+12·8	+51·5
16·183	D	93	674	115	816	165·5	+13·0	+65·6
17·116	D	72	391	165	868	164·9	+12·9	+77·3
Means ...	...	...	...	103	622	164·09	+11·84	...

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

Group 6565.

A small spot, *f* Group 6564, on November 8, and rapidly developing on the succeeding days. The two groups together make up a magnificent and compact stream of broken spots, over 20° of heliographic longitude in length. The combined groups were visible to the naked eye.

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.
1908 d.						°	°	°
Nov. 8·103	D	12	39	9	30	158·2	+11·8	−48·2
9·511	G	74	416	44	244	157·5	+10·6	−30·4
10·489	G	127	840	68	445	158·1	+10·7	−16·9
11·104	D	145	974	75	501	157·5	+11·3	− 9·4
12·534	G	179	1066	92	549	157·6	+11·3	+ 9·6
13·505	G	190	958	105	527	157·7	+11·5	+22·5
14·158	D	153	766	91	454	158·2	+11·7	+31·6
15·128	D	116	670	80	470	157·9	+11·8	+44·1
16·183	D	82	380	79	364	158·4	+12·1	+58·5
17·116	D	55	262	82	394	158·3	+12·3	+70·7
18·181	D	3	67	13	327	158·3	+12·3	+84·7
Means ...	...	...	...	67	391	157·97	+11·58	...

Group 6566.

A small spot, *a*, on November 12. Other spots form in advance of *a* on the succeeding days, making up with it a very sparse 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.
Nov. 12·534	G	0	18	0	23	81·5	− 4·0	−66·5
13·505	G	11	69	10	56	84·2	− 4·5	−51·0
14·158	D	11	55	7	37	84·9	− 5·1	−41·7
15·128	D	29	168	16	97	85·1	− 5·1	−28·7
16·183	D	19	153	10	80	86·4	− 4·9	−13·5
17·116	D	5	83	3	41	86·8	− 5·1	− 0·8
18·181	D	0	25	0	12	88·3	− 5·5	+14·7
Means ...	...	...	...	7	49	85·31	− 4·89	...

Group 6567.

A regular spot, *a*, with occasionally some small companions. *a* breaks up by November 17, but part of it has reformed, as *b*, by November 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.
Nov. 13·505	G	18	82	19	85	74·2	+ 3·5	−61·0
14·158	D	25	127	20	104	74·2	+ 2·4	−52·4
15·128	D	28	184	18	118	74·9	+ 2·6	−38·9
16·183	D	37	215	19	118	74·5	+ 2·9	−25·4
17·116	D	41	176	21	91	75·0	+ 3·2	−12·6
18·181	D	32	171	16	86	75·6	+ 3·4	+ 2·0
19·118	D	14	111	7	58	76·1	+ 3·9	+14·9
20·492	G	24	153	15	92	76·9	+ 3·6	+33·8
21·198	D	16	75	11	51	77·0	+ 3·9	+43·2
22·124	D	11	31	10	28	77·1	+ 4·0	+55·5
23·472	G	0	16	0	27	76·9	+ 3·3	+73·1
24·114	D	0	6	0	21	76·7	+ 3·9	+81·3
Means ...	...	...	...	13	73	75·76	+ 3·38	...

Group 6568.

A few small unstable spots in a loose cluster, *f* Group 6567.

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.
1908 d.						°	°	°
Nov. 13·505	G	0	14	0	16	70·8	+ 2·9	−64·4
14·158	D	4	31	4	28	70·4	+ 3·4	−56·2
15·128	D	17	117	12	82	69·3	+ 3·8	−44·5
16·183	D	13	78	8	46	68·2	+ 4·0	−31·7
17·116	D	8	55	4	30	68·8	+ 4·5	−18·8
18·181	D	10	72	5	36	70·0	+ 5·2	− 3·6
19·118	D	0	16	0	9	72·6	+ 7·3	+11·4
Means ...	...	...	...	5	35	70·01	+ 4·44	...

Group 6569.

Some small spots rapidly developing into a fine stream of normal type. But *a*, the leader, is neither so large nor so stable as *b*, the rear spot. A large spot, *c*, forms just behind *a*, and has coalesced with it by November 20, forming a large regular spot, *d*.

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. 15·128	D	5	32	4	26	61·9	+ 9·7	−51·9
16·183	D	81	378	52	240	62·0	+10·4	−37·9
17·116	D	104	522	58	293	61·4	+10·8	−26·2
18·181	D	135	689	70	358	61·0	+11·3	−12·6
19·118	D	164	859	83	437	61·7	+11·3	+ 0·5
20·492	G	143	938	76	501	62·2	+11·0	+19·1
21·198	D	118	698	68	404	62·5	+11·3	+28·7
22·124	D	100	703	67	474	62·7	+11·2	+41·1
23·472	G	51	417	50	409	62·8	+10·4	+59·0
24·114	D	41	292	55	382	62·8	+11·0	+67·4
25·508	G	9	50	33	181	59·2	+11·4	+82·2
Means ...	...	...	...	56	337	61·84	+10·89	...

Group 6570.

Some very small spots near the centre of the disc.

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. 15·128	D	2	11	1	6	100·0	+ 4·3	−13·8
16·183	D	1	21	1	10	100·5	+ 4·4	+ 0·6
Means ...	...	...	...	1	8	100·25	+ 4·35	...

Group 6571.

A small spot, *a*, with a small companion on November 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.
Nov. 21·198	D	0	23	0	74	312·6	− 2·0	−81·2
22·124	D	9	54	12	76	312·3	− 1·7	−69·3
23·472	G	15	59	12	47	313·2	− 1·6	−50·4
24·114	D	0	19	0	13	313·8	− 2·1	−41·6
Means ...	...	...	...	6	53	312·98	− 1·85	...

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

Group 6572.

Return of Group 6558. Fourth and final apparition. 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.
1908. d						°	°	°
Nov. 24·114	D	9	32	21	78	277·3	+14·3	−78·1
25·508	G	10	46	10	45	278·4	+14·6	−58·6
26·190	D	8	34	6	28	277·6	+14·5	−50·4
27·189	D	0	20	0	13	278·0	+14·6	−36·9
Means ...	...	...	...	9	41	277·83	+14·50	...

Group 6573.

A small spot. A revival or perhaps a return of Group 6563.

Nov. 24·114	D	0	4	0	4	296·7	+ 7·1	−58·7
25·508	G	8	36	5	23	299·1	+ 6·6	−37·9
26·190	D	3	16	2	9	299·2	+ 6·4	−28·8
Means ...	...	...	...	2	12	298·33	+ 6·70	...

Group 6574.

A few small spots irregularly scattered, developing into a regular spot, *a*, preceded by a scattered flight of small unstable spots in continual change.

Nov. 25·508	G	1	41	1	28	297·5	−15·7	−39·5
26·190	D	19	96	12	59	297·0	−16·5	−31·0
27·189	D	47	263	26	147	295·9	−17·0	−19·0
28·152	D	49	368	25	194	296·1	−17·2	− 6·1
29·142	D	37	239	19	125	294·7	−17·0	+ 5·6
30·121	D	34	219	18	123	295·7	−16·8	+19·5
Dec. 1·170	D	25	126	15	79	295·7	−16·7	+33·3
2·138	D	22	84	17	64	295·9	−17·3	+46·3
3·125	D	6	32	6	32	294·8	−17·4	+58·2
4·199	D	0	10	0	16	293·4	−17·7	+70·9
Means ...	...	...	...	14	87	295·67	−16·93	...

Group 6572*.

A very small spot, *f* Group 6572.

Nov. 27·189	D	0	14	0	10	271·5	+15·0	−43·4
28·152	D	0	6	0	4	270·3	+14·2	−31·9
Means ...	...	...	...	0	7	270·90	+14·60	...

Group 6575.

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

Nov. 30·121	D	9	65	31	233	194·4	−13·1	−81·8
Dec. 1·170	D	19	138	28	199	193·3	−13·0	−69·1

Group 6575—*continued.*

1908. d						°	°	°
Dec. 2·138	D	39	217	35	198	194·0	−12·7	−55·6
3·125	D	48	349	34	244	193·6	−12·5	−43·0
4·199	D	41	280	24	164	193·9	−12·6	−28·6
5·350	D	34	295	18	156	193·6	−12·4	−13·7
6·146	D	36	164	18	84	194·0	−12·2	− 2·8
7·137	D	18	135	9	70	194·0	−12·1	+10·2
8·481	G	19	83	11	49	193·6	−12·8	+27·6
9·281	D	4	40	3	26	194·6	−13·0	+39·1
Means ...	...	...	...	21	142	193·90	−12·64	...

Group 6576.

A cluster of small faint spots. A revival of Group 6573.

Dec. 1·170	D	0	5	0	3	296·6	+ 4·7	+34·2
2·138	D	0	49	0	34	292·1	+ 6·8	+42·5
3·125	D	0	22	0	20	291·9	+ 6·9	+55·3
4·199	D	0	7	0	11	291·7	+ 7·3	+69·2
Means ...	...	...	...	0	17	293·08	+ 6·43	...

Group 6577.

Return of Group 6564. A very large regular spot, *a*, with some small companions.

Dec. 2·138	D	58	178	210	646	167·6	+11·9	−82·0
3·125	D	86	441	118	620	167·9	+11·8	−68·7
4·199	D	162	698	144	620	167·6	+12·0	−54·9
5·350	D	225	1010	149	672	167·5	+12·2	−39·8
6·146	D	205	944	120	552	167·8	+12·3	−29·0
7·137	D	225	1085	119	573	168·1	+12·1	−15·7
8·481	G	243	1254	124	641	168·1	+12·0	+ 2·1
9·281	D	233	1143	121	592	168·1	+12·5	+12·6
10·536	G	188	953	110	559	168·0	+12·0	+29·0
11·161	D	208	907	134	585	168·0	+12·2	+37·3
12·478	G	168	704	149	623	167·9	+11·7	+54·5
13·160	D	88	456	102	530	168·0	+12·2	+63·6
14·133	D	43	233	99	536	168·6	+12·1	+77·0
Means ...	...	...	...	131	596	167·94	+12·08	...

Group 6578.

A disturbed area in which a few unstable spots appear intermittently. The group is not seen on December 8, or on December 12 and 13. A revival of Group 6565.

Dec. 6·146	D	0	7	0	5	151·9	+12·0	−44·9
7·137	D	0	10	0	6	155·0	+12·6	−28·8
8·481	G	0	0	0	0	...	...	...
9·281	D	4	19	2	10	154·3	+12·4	− 1·2
10·536	G	9	51	5	27	152·9	+12·9	+13·9
11·161	D	5	29	3	16	153·5	+13·7	+22·8

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 6578—*continued.*								
1908. d						°	°	°
Dec. 12·478	G	0	0	0	0	...	...	...
13·160	D	0	0	0	0	...	...	...
14·133	D	5	33	7	43	157·7	+13·9	+66·1
15·134	D	4	24	10	54	155·2	+14·0	+76·8
Means ...	...	...	...	3	16	154·36	+13·07	...
Group 6578*. A small spot on the same meridian as Group 6578, but in the southern hemisphere.								
Dec. 9·281	D	4	17	2	9	155·7	−16·0	+ 0·2
Means ...	...	...	...	2	9	155·7	−16·0	...
Group 6579. A small spot.								
Dec. 9·281	D	4	14	11	35	76·9	− 3·8	−78·6
10·536	G	5	31	5	32	77·4	− 4·2	−61·6
11·161	D	9	45	7	38	77·5	− 4·1	−53·2
12·478	G	7	33	4	20	77·9	− 4·3	−35·5
13·160	D	4	15	2	8	77·9	− 4·0	−26·5
Means ...	...	...	...	6	27	77·52	− 4·08	...
Group 6580. Return of Group 6569. A small spot, *a*, with occasionally a small companion.								
Dec. 10·536	G	0	14	0	22	67·2	+11·4	−71·8
11·161	D	7	19	9	23	66·6	+11·4	−64·1
12·478	G	5	28	3	21	67·0	+11·4	−46·4
13·160	D	5	27	3	17	66·5	+11·5	−37·9
14·133	D	9	45	5	26	66·0	+10·9	−25·6
15·134	D	4	31	2	16	65·5	+11·1	−12·9
16·247	D	4	13	2	7	66·1	+11·3	+ 2·4
Means ...	...	...	...	3	19	66·41	+11·29	...
Group 6581. A very small spot.								
Dec. 16·247	D	0	4	0	6	133·1	−15·1	+69·4
Means ...	...	...	...	0	6	133·1	−15·1	...

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 6582. Some small spots.								
1908. d						°	°	°
Dec. 16·247	D	3	20	2	10	50·4	−10·1	−13·3
17·174	D	13	43	7	21	49·6	−10·3	− 1·9
18·293	D	4	17	2	9	51·4	− 9·3	+14·6
Means ...	...	...	...	4	13	50·47	− 9·90	...
Group 6583. A few small unstable spots.								
Dec. 16·247	D	5	37	3	24	27·4	−10·4	−36·3
17·174	D	7	39	4	21	29·9	−10·7	−21·6
18·293	D	4	40	2	20	30·9	−11·4	− 5·9
19·171	D	10	56	5	28	32·7	−11·0	+ 7·5
20·163	D	0	9	0	5	33·9	−11·3	+21·7
21·250	D	2	6	1	4	35·1	−11·1	+37·3
22·289	D	4	64	3	51	34·6	−10·7	+50·4
23·283	D	0	13	0	13	32·5	−10·2	+61·5
24·145	D	0	13	0	20	31·4	−10·3	+71·7
Means ...	...	...	...	2	21	32·04	−10·79	...
Group 6584. A few very small spots developing into a stream of normal type. The largest and most stable members of the group are *a* and *b*, the first and last on December 20. *b* has broken up by December 22, and the smaller spots are unstable, so that *a* alone remains by December 25.								
Dec. 16·247	D	0	10	0	6	24·6	+ 6·6	−39·1
17·174	D	4	23	2	13	19·9	+ 8·4	−31·6
18·293	D	32	128	17	67	24·1	+ 6·5	−12·7
19·171	D	75	480	37	242	25·1	+ 6·3	− 0·1
20·163	D	81	514	42	265	25·3	+ 6·0	+13·1
21·250	D	65	340	37	194	25·9	+ 5·3	+28·1
22·289	D	46	331	32	227	26·7	+ 5·1	+42·5
23·283	D	24	208	22	187	26·9	+ 5·1	+55·9
24·145	D	17	116	24	157	27·7	+ 4·8	+68·0
25·173	D	0	14	0	48	27·4	+ 4·6	+81·3
Means ...	...	...	...	21	141	25·36	+ 5·87	...
Group 6585. Some very small unstable spots. The group is not seen on December 20, 21 or 22.								
Dec. 17·174	D	0	6	0	4	24·3	− 17·1	−27·2
18·293	D	0	4	0	2	24·9	− 16·8	−11·9
19·171	D	0	10	0	5	27·3	− 18·6	+ 2·1
20·163	D	0	0	0	0	...	...	...
21·250	D	0	0	0	0	...	...	...
22·289	D	0	0	0	0	...	...	...

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

Group 6585—*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.
1908. d						°	°	°
Dec. 23·283	D	12	56	11	49	25·6	− 16·2	+54·6
24·145	D	43	223	57	289	26·6	− 16·4	+66·9
25·173	D	0	15	0	35	23·9	− 16·6	+77·8
Means ...	...	...	...	8	43	25·43	−16·95	...

Group 6586.

A few very small spots in a straight stream.

Dec. 18·293	D	1	26	1	14	35·8	+12·9	− 1·0
Means ...	...	...	...	1	14	35·8	+12·9	...

Group 6587.

A stream of spots suddenly appearing on the central meridian and developing rapidly with many changes. Its final form is that of a large composite spot, *a*, followed by an unstable train.

Dec. 21·250	D	21	101	11	51	1·3	−16·9	+ 3·5
22·289	D	22	128	12	70	3·4	−16·5	+19·2
23·283	D	71	315	44	195	4·2	−16·7	+33·2
24·145	D	90	417	64	300	4·1	−16·9	+44·4
25·173	D	20	199	20	196	4·9	−16·4	+58·8
26·248	D	11	94	19	166	5·5	−16·4	+73·5
Means ...	...	...	...	28	163	3·90	−16·63	...

Group 6588.

A very small spot on December 21. The group develops rapidly, and becomes a long straight stream made up of small unstable spots.

Dec. 21·250	D	0	7	0	6	305·5	−16·0	−52·3
22·289	D	10	43	6	28	304·0	−15·7	−40·2
23·283	D	37	154	22	88	304·5	−16·3	−26·5
24·145	D	67	250	35	132	305·1	−16·6	−14·6
25·173	D	35	229	18	117	304·8	−16·6	− 1·3
26·248	D	21	131	11	69	306·2	−16·4	+14·2
27·167	D	11	70	6	40	308·0	−16·2	+28·1
28·457	G	0	41	0	30	309·0	−15·4	+46·1
29·130	D	4	43	4	38	309·4	−15·7	+55·4
30·285	D	0	30	0	43	308·3	−16·2	+69·5
31·129	D	0	30	0	78	307·1	−17·3	+79·4
Means ...	...	...	...	9	61	306·54	−16·22	...

Group 6587*.

Some small unstable spots, *sf* Group 6587.

1908. d						°	°	°
Dec. 23·283	D	0	28	0	17	358·5	−19·0	+27·5
24·145	D	6	40	4	27	358·4	−19·5	+38·7
25·173	D	0	15	0	12	357·5	−20·0	+51·4
Means ...	...	...	...	1	19	358·13	−19·50	...

Group 6589.

A straight stream appearing suddenly near the central meridian, and developing rapidly. The two chief spots, *a* and *b*, alone remain by December 28, and then appear as a large regular spot, with a distant composite follower.

Dec. 25·173	D	129	397	67	203	319·4	− 2·5	+13·3
26·248	D	146	946	82	533	319·4	− 2·9	+27·4
27·167	D	143	700	94	460	320·3	− 2·5	+40·4
28·457	G	41	377	38	359	321·2	− 2·8	+58·3
29·130	D	25	218	33	284	321·6	− 2·8	+67·6
30·285	D	0	47	0	179	321·4	− 2·9	+82·6
Means ...	...	...	...	52	336	320·55	− 2·73	...

Group 6590.

A number of spots, mostly unstable, in an irregular stream, undergoing frequent changes.

Dec. 27·167	D	15	46	11	33	237·9	+17·6	−42·0
28·457	G	23	168	14	99	238·6	+17·5	−24·3
29·130	D	50	288	27	160	238·0	+17·4	−16·0
30·285	D	29	162	15	87	238·1	+17·7	− 0·7
31·129	D	20	171	12	92	238·8	+17·3	+11·1
1909.								
Jan. 1·178	D	25	157	15	94	241·1	+16·9	+27·2
2·147	D	4	27	3	20	245·0	+17·1	+43·8
3·155	D	0	32	0	33	246·2	+17·1	+58·3
Means ...	...	...	...	12	77	240·46	+17·33	...

Group 6591.

A very large spot, *a*, surrounded by many small companions. *a* has divided into two chief parts, *b* and *c*, by January 2; *b* being large, well-defined, and regular, and *c* composite and less defined. *c* soon breaks up, and the group consists of *b*, a large regular spot, followed by a short train.

1908.								
Dec. 28·457	G	52	272	132	686	184·8	+ 8·4	−78·1
29·130	D	77	440	109	626	185·3	+ 8·7	−68·7
30·285	D	164	944	139	803	185·7	+ 8·3	−53·1
31·129	D	220	1365	150	926	186·5	+ 8·6	−41·2

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

Group 6591—*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.
1909. d						°	°	°
Jan. 1·178	D	264	1381	152	793	186·7	+ 8·7	−27·2
2·147	D	266	1428	140	751	186·8	+ 8·8	−14·4
3·155	D	300	1281	152	653	187·2	+ 8·7	− 0·7
4·139	D	239	1053	124	548	187·6	+ 8·8	+12·7
5·156	D	195	917	111	524	187·8	+ 9·1	+26·3
6·247	D	186	959	126	644	187·3	+ 9·0	+40·2
7·467	G	75	531	72	504	188·1	+ 9·3	+57·0
8·484	G	48	254	78	418	189·0	+ 9·7	+71·3
9·362	D	13	86	68	455	189·8	+10·2	+83·7
Means ...	...	...	...	119	641	187·12	+ 8·95	...

Group 6593.

An ill-defined spot, *a*, between Groups 6591 and 6592. Small unstable spots form and disappear near *a* in an irregular manner.

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.
1908.								
Dec. 29·130	D	3	32	11	105	173·3	+ 8·7	−80·7
30·285	D	11	51	13	63	173·0	+ 9·0	−65·8
31·129	D	15	67	13	60	173·1	+ 8·6	−54·6
1909.								
Jan. 1·178	D	9	83	6	57	172·9	+ 9·0	−41·0
2·147	D	33	194	20	114	172·1	+10·1	−29·1

Group 6593—*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.
1909. d						°	°	°
Jan. 3·155	D	14	140	8	73	173·2	+10·3	−14·7
4·139	D	0	10	0	5	173·9	+10·9	− 1·0
Means ...	...	...	...	10	68	173·07	+ 9·51	...

Group 6592.

Return of Group 6577. Third apparition. A large regular spot, *a*, frequently with 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.
1908.								
Dec. 30·285	D	45	186	79	327	166·2	+11·6	−72·6
31·129	D	49	293	54	325	165·8	+11·8	−61·9
1909.								
Jan. 1·178	D	98	431	76	334	166·0	+11·4	−47·9
2·147	D	120	579	76	365	166·0	+11·0	−35·2
3·155	D	141	609	79	339	165·9	+11·0	−22·0
4·139	D	118	617	61	320	166·2	+10·8	− 8·7
5·156	D	141	601	73	310	166·4	+10·9	+ 4·9
6·247	D	118	621	64	339	166·7	+10·8	+19·6
7·467	G	100	493	64	315	167·0	+10·7	+35·9
8·484	G	75	413	60	331	167·3	+10·7	+49·6
9·362	D	58	272	63	296	167·4	+10·8	+61·3
10·115	K	34	172	56	281	167·2	+10·4	+71·0
Means ...	...	...	...	67	324	166·51	+10·99	...

ROYAL OBSERVATORY, GREENWICH.

CATALOGUE

OF

RECURRENT GROUPS OF SUN SPOTS

COMPILED FROM THE

LEDGERS OF GROUPS OF SUN SPOTS

FOR THE YEAR

1908.

CATALOGUE of RECURRENT GROUPS of SUN SPOTS, 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, for the YEAR 1908.

NOTE.—Groups of Sun Spots observed uninterruptedly in two or more consecutive Rotations of the Sun, are classified as "Recurrent." Cases where the continuity of the group is doubtful are enclosed in brackets.

The reference Numbers in the following Table are in continuation of those given in previous "Catalogues of Recurrent Groups of Sun Spots."

The numeration of the Spot Groups is the same as in the two preceding Sections.

The numeration of the Rotations is the same as in the following Section.

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.
			1907.		1907.							
659	6282	723	Oct. 13	−81°·4	Oct. 25	+74°·8	13	65	411	253°·77	+ 5°·65	A very large composite spot or cluster, becoming a stream.
	6301	724	Nov. 9	−80·4	Nov. 20	+63·5	12	16	88	258·67	+ 7·06	A regular spot, with small companions close to 6300.
	6306	724	Nov. 17	+17·3	Nov. 22	+83·8	6	59	334	254·77	+ 9·10	A ring-shaped group which coalesces. A parasite group to 6301.
	6321	725	Dec. 8	−63·3	Dec. 17	+52·9	10	13	107	253·27	+ 7·93	An irregular stream of small spots. Close to 6318 and 6319.
			1908.		1908.							
	(6340*	726	Jan. 5	−56·2	Jan. 8	−17·6	4	3	21	255·08	+ 8·40)	A small faint spot. *Note.*—6282, as well as 6283, probably owes its origin to 6259; and 6301 and 6306 are intermingled with 6300, and their return, 6321, is again close to 6318 and 6319. And 6340*, with 6335, 6336, 6337, 6338, 6339, and 6340, make up a double "procession," the groups being arranged in close parallel lines.
			1907.		1907.							
660(1)	6286	723	Oct. 20	+13·1	Oct. 24	+69·2	5	2	17	256·94	+12·06	A short stream of small spots.
	6300	724	Nov. 9	−75·3	Nov. 21	+82·5	13	219	1443	265·20	+11·40	A large composite spot, followed by a large cluster.
	6318	725	Dec. 5	−78·7	Dec. 17	+74·7	13	25	158	277·14	+12·70	A large regular spot, with occasional companions.
			1908.		1908.							
	6335	726	Jan. 2	−71·2	Jan. 10	+34·4	9	12	63	276·38	+13·55	A regular spot. *Note.*—6300 returns as two groups 6318 and 6319. 6318 returns [as 6335
			1907.		1907.							
660(2)	6286	723	Oct. 20	+13·1	Oct. 24	+69·2	5	2	17	256·94	+12·06	A short stream of small spots.
	6300	724	Nov. 9	−75·3	Nov. 21	+82·5	13	219	1443	265·20	+11·40	A large composite spot, followed by a cluster.
	6319	725	Dec. 6	−78·6	Dec. 18	+77·5	13	98	776	265·35	+ 9·60	Two large composite spots.
			1908.		1908.							
	6338	726	Jan. 3	−73·3	Jan. 14	+74·7	12	43	276	262·43	+11·38	A large regular spot, followed by a long scattered train.
	6357	727	Jan. 30	−75·7	Feb. 3	−22·0	5	4	13	268·40	+11·04	A small spot. *Note.*—6300 returns as two groups 6318 and 6319. 6319 returns as four groups, 6336, 6337, 6338, and 6339, but only one of these, 6338, persists and returns again (as 6357), so that it alone is counted in the series. Series 656, 659, 660 (1), and 660 (2) form one great disturbance.
			1907.		1907.							
661	6292	723	Oct. 31	+12·4	Nov. 5	+77·9	6	29	172	111·67	−18·23	A circular cluster lengthening out to a stream.
	6311	724	Nov. 21	−71·7	Nov. 26	− 8·6	6	5	23	111·88	−20·26	A cluster of small spots, not seen on Nov. 24. *Note.*—6311 is intermittent, not being seen on Nov. 24.
662	6296	724	Nov. 4	−72·5	Nov. 15	+75·9	12	28	161	338·79	−14·57	A double spot, followed by a short train.
	6316	725	Nov. 30	−80·8	Dec. 12	+74·1	13	31	224	341·10	−13·30	A large regular spot, followed by a short diminishing 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.
			1907.	°	1907.	°				°	°	
663	6310	724	Nov. 22	−42·7	Dec. 1	+81·1	10	1	15	131·27	− 2·73	A very unstable group, not seen on Nov. 25–27, or Nov. 29.
	6324	725	Dec. 15	−85·4	Dec. 27	+73·6	13	85	506	143·21	− 4·99	A very large regular spot, followed by a short train.
			1908.		1908.							
	6349	726	Jan. 11	−82·3	Jan. 23	+75·1	13	31	230	147·57	− 4·09	A large regular spot, followed by a short train of small spots.
	6361	727	Feb. 9	(−55·7)	Feb. 13	− 5·5	5	4	20	153·94	− 2·08	A small regular spot.
												Note.—6310 is intermittent, not being seen on Nov. 25–27 or on [Nov. 29.
												The above entries supersede the corresponding entries in the Catalogue of Recurrent Groups of Sun Spots for the Year 1907.
			1907.		1907.							
664	6322	725	Dec. 9	−17·4	Dec. 16	+79·5	8	5	57	288·49	− 8·54	A few small unstable spots, in a sparse stream.
					1908.							
	6333	726	Dec. 30	−84·4	Jan. 8	+28·6	10	21	200	302·22	− 6·90	Small spots in an irregular, variable stream.
			1907.		1907.							
665	6323	725	Dec. 14	−25·9	Dec. 22	+80·4	9	97	591	216·36	−15·48	A small stream, becoming a large one of normal type.
			1908.		1908.							
	6344	726	Jan. 5	−83·7	Jan. 17	+72·2	13	15	87	226·52	−16·21	A regular spot.
	6351	726	Jan. 17	+57·4	Jan. 19	+81·0	3	12	74	210·03	−17·20	A pair of spots.
	6360	727	Feb. 4	−56·2	Feb. 8	− 3·1	5	14	69	218·48	−14·36	Two spots.
												Note.—6344 is the return of the preceding portion of 6323, whose following portion is revived late in the apparition as 6351. 6360 seems to be the product of 6344 and 6351 combined.
			1908.		1908.							
666	6353	726	Jan. 17	−65·0	Jan. 27	+71·6	11	28	156	91·41	− 8·47	A pair of small spots, not seen on Jan. 17 and 18. Then a fine stream of normal type.
	6368	727	Feb. 12	−73·2	Feb. 17	− 8·7	6	10	46	94·73	−10·68	A small regular spot, with an occasional companion.
												Note.—6353 is intermittent, not being seen on Jan. 17 and 18.
667	6359	727	Feb. 3	+44·7	Feb. 6	+82·2	4	17	122	335·25	−15·33	A regular spot, with faint companion.
	6372	728	Feb. 20	−80·4	Mar. 3	+75·8	13	13	105	344·76	−14·47	A regular spot, with occasional companion.
668	6369	727	Feb. 18	+83·2	Feb. 18	+83·2	1	0	110	171·00	−15·30	Two close spots.
	6377	728	Mar. 4	−80·0	Mar. 11	+15·0	8	7	44	174·45	−15·76	An irregular stream of small spots.
	6384	728	Mar. 15	+60·4	Mar. 16	+75·1	2	22	163	166·15	−15·40	A pair of spots, a revival of 6377 in the same rotation.
	6395	729	Apr. 3	−40·8	Apr. 7	+12·0	5	1	25	174·72	−16·36	Scattered unstable spots.
	6393	729	Apr. 3	−60·4	Apr. 13	+78·2	11	51	268	161·20	−15·25	A cluster of small spots, developing into a large regular spot.
												Note.—6377 seems to be revived in the same rotation as 6384. 6395 and 6393 seem again to be revivals of 6384 in the next rotation.
669	6374	727	Feb. 24	+10·5	Feb. 29	+78·2	6	43	308	23·38	− 5·10	Two small spots, becoming a fine stream.
	6386	728	Mar. 15	−82·1	Mar. 25	+47·5	11	10	80	24·19	− 8·49	A regular spot, with occasional companion.
												Note.—This series is revived in the next rotation in Series 674.
670	6381	728	Mar. 8	−42·0	Mar. 14	+48·0	7	6	51	164·60	− 9·39	A very small spot, which develops and diminishes again.
	6391	729	Apr. 1	−66·5	Apr. 10	+45·6	10	14	96	173·06	− 9·15	A cluster which coalesces and again breaks up.
	6390	729	Apr. 1	−61·1	Apr. 11	+68·7	11	26	190	180·73	− 9·28	A large composite spot becoming regular.
	6416	730	Apr. 27	−79·4	May 8	+67·7	12	12	66	184·43	− 8·85	A regular spot.
												Note.—6390 and 6391 are probably revivals of 6381 only.
671	6392*	729	Apr. 3	+63·8	Apr. 3	+63·8	1	0	9	278·90	− 8·20	A small spot.
	6407	730	Apr. 19	−69·0	Apr. 30	+76·3	12	16	108	294·92	− 7·60	A regular spot, with an occasional companion.
672	6392	729	Apr. 3	−11·4	Apr. 10	+75·5	8	35	313	205·31	−16·55	An irregular stream of small spots, becoming large stream of normal [type.
	6414	730	Apr. 24	−80·0	May 3	+36·5	10	13	128	216·95	−16·85	An irregular cluster of small unstable spots.
	6415	730	Apr. 25	−81·6	May 5	+51·7	11	4	76	208·55	−17·84	An irregular cluster of unstable spots, not seen on Apr. 30.
												Note.—6415 is intermittent, not being seen on Apr. 30.

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.
			1908.	°	1908.	°				°	°	
673	6393	729	Apr. 3	−60·4	Apr. 13	+78·2	11	51	268	161·20	−15·25	A cluster of small spots, developing into a regular spot. A revival of 6384 in Series 668.
	6420	730	Apr. 29	−74·3	May 11	+83·2	13	35	229	162·25	−14·86	A large regular spot, with occasional companions.
	6440	731	May 26	−80·4	June 6	+63·6	12	14	100	158·53	−15·08	A large regular spot. *Note.*—This Series is a revival of Series 668.
674	6405	729	Apr. 18	+ 1·0	Apr. 23	+69·9	6	8	49	25·30	− 7·56	One or two unstable spots, not seen on Apr. 19.
	6430	730	May 9	−67·2	May 12	−28·2	4	3	21	31·73	− 9·03	A small double spot. *Note.*—6405 is intermittent, not being seen on Apr. 19. This Series is a revival of Series 669.
675	6408	729	Apr. 19	+56·9	Apr. 21	+78·4	3	8	53	60·90	+10·40	A short stream.
	6424	730	May 6	−75·2	May 15	+46·4	10	10	92	71·13	+11·72	A large regular spot which breaks up.
(675*)	6426	730	May 7	+31·1	May 9	+58·2	3	1	17	157·90	+ 6·03	A few very small spots.
	6443	731	May 28	−49·1	June 2	+21·9	6	5	31	162·03	+ 6·93	Small unstable spots.
676	6427	730	May 7	+30·7	May 11	+78·7	5	12	71	156·90	− 2·88	A double spot, with unstable companions.
	6432	730	May 10	+42·9	May 13	+82·3	4	25	209	129·08	− 7·15	Unstable spots, rapidly developing.
	6441	731	May 27	−76·5	June 7	+73·3	12	91	562	144·39	− 3·01	A large regular spot, usually with followers.
	6464	732	June 23	−67·9	July 4	+70·6	12	15	108	154·14	− 2·96	A large regular spot, with companions preceding. *Note.*—6427 and 6432 are approaching each other and together seem to give rise to 6441.
677	6436	731	May 13	−77·0	May 25	+78·0	13	37	225	331·48	+11·42	A regular spot, usually with short train.
	6453	732	June 9	−78·8	June 20	+67·7	12	10	78	333·34	+10·39	A regular spot.
678	6463	732	June 23	+ 2·9	June 29	+78·5	7	17	132	225·69	−19·46	Unstable spots in stream, much inclined to the equator.
	6478	733	July 14	−77·7	July 25	+70·1	12	15	90	234·65	−20·08	Irregular stream becoming a regular spot with short train.
	6481	733	July 15	−71·0	July 25	+59·6	11	6	58	225·35	−20·72	An irregular stream.
679	6465	732	June 24	−79·8	July 6	+74·1	13	46	274	130·79	−15·52	A large regular spot, with an occasional companion.
	6489	733	July 22	−73·7	Aug. 2	+69·2	12	21	126	127·16	−16·32	A large regular spot.
680	6490	733	July 29	−82·4	Aug. 10	+75·3	13	123	982	26·18	−15·02	A magnificent stream, becoming one of normal type.
	6511	734	Aug. 25	−79·5	Sept. 6	+78·0	13	81	454	30·70	−13·75	A very large regular spot, with variable companions.
(680*)	6472	733	July 5	−77·3	July 14	+44·6	10	8	52	354·53	+10·50	A regular spot, with occasional small companions.
	6491	733	July 31	−78·1	Aug. 13	+86·1	14	88	588	0·27	+11·94	A very large oval spot which divides into two portions.
	6518	734	Aug. 30	−44·9	Sept. 7	+61·4	9	22	131	0·63	+13·18	An irregular stream of unstable spots. *Note.*—6491 is a revival of 6472, and 6518 is a revival of 6491. This appears to be a region of intermittent rather than of continuous activity.
681	6492	733	Aug. 2	−33·4	Aug. 11	+84·7	10	46	350	24·04	+ 7·74	An irregular stream of large variable spots.
	6510	734	Aug. 25	−77·7	Sept. 6	+81·2	13	192	1420	35·02	+ 6·82	A magnificent irregular and almost continuous stream.
	6533	735	Sept. 20	−83·9	Oct. 2	+79·5	13	55	399	45·27	+ 9·17	A compact cluster. The return of the preceding part of 6510.
682	6494	734	Aug. 4	−44·6	Aug. 13	+76·6	10	96	512	347·40	− 6·82	A large regular spot, with considerable train.
	6517	735	Aug. 28	−74·2	Sept. 9	+80·4	13	56	324	354·84	− 6·38	A large regular spot, with occasional companions.
	6535	736	Sept. 24	−81·7	Oct. 3	+39·7	10	5	31	357·01	− 6·73	One or two spots.
683	6497	733	Aug. 10	+58·6	Aug. 11	+70·6	2	0	67	8·30	−16·10	A spot.
	6516	734	Aug. 27	−69·7	Sept. 1	− 3·7	6	4	33	15·02	−15·82	A small spot.
684	6499	734	Aug. 13	− 4·6	Aug. 19	+75·0	7	115	755	270·64	− 5·47	An irregular stream of small spots, greatly developing.
	6519	735	Sept. 2	−81·9	Sept. 15	+80·5	14	94	494	279·68	− 5·51	A large regular spot, with an occasional small companion.
	6539	736	Sept. 30	−77·1	Oct. 12	+82·0	13	48	280	279·00	− 5·29	A large regular group, with small companions.
	6557	737	Oct. 28	−56·5	Oct. 29	−43·8	2	1	18	294·20	− 3·15	One or two small spots.

Catalogue of Recurrent Groups of Sun Spots—*concluded.*

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.
			1908.	°	1908.	°				°	°	
685	6502	734	Aug. 14	− 5·5	Aug. 18	+44·4	5	0	13	252·23	+14·03	Unstable spots, not seen on Aug. 17.
	6520	735	Sept. 4	−82·6	Sept. 16	+85·0	13	92	449	267·84	+12·32	A small spot, becoming very large.
	6522	735	Sept. 5	−68·7	Sept. 16	+80·8	12	30	252	262·04	+13·59	A few small spots, becoming fine stream.
	6540	736	Sept. 30	−83·3	Oct. 12	+73·2	13	48	296	271·64	+12·04	A large regular spot, with occasional companions.
	6558	737	Oct. 28	−79·1	Nov. 7	+52·6	11	9	54	271·71	+12·78	A regular spot.
	6572	738	Nov. 24	−78·1	Nov. 27	−36·9	4	9	41	277·83	+14·50	A small spot.
												Note.—6502 is intermittent, not being seen on Aug. 17.
(685*)	6524	735	Sept. 8	−51·8	Sept. 18	+77·1	11	17	95	232·07	−12·65	Small unstable spots in a short stream.
	6544	736	Oct. 5	−55·1	Oct. 7	−22·9	3	1	8	240·47	−10·27	One or two unstable spots.
686	6543	736	Oct. 4	+57·7	Oct. 5	+64·8	2	15	65	359·50	+ 7·25	A small stream of normal type.
	6550	736	Oct. 20	−86·6	Oct. 26	− 6·2	7	11	80	11·16	+ 5·40	A regular spot, with unstable companions.
(686*)	6548	736	Oct. 9	+38·1	Oct. 10	+55·1	2	1	14	278·90	+ 6·55	Two small spots.
	6556	737	Oct. 27	−72·0	Oct. 31	−18·8	5	1	12	293·00	+ 7·20	A small spot.
	6563	737	Nov. 7	+68·3	Nov. 7	+68·3	1	0	13	287·60	+ 7·80	A small spot. A revival of 6556 in the same rotation.
	6573	738	Nov. 24	−58·7	Nov. 26	−28·8	3	2	12	298·33	+ 6·70	A small spot.
	6576	738	Dec. 1	+34·2	Dec. 4	+69·2	4	0	17	293·08	+ 6·43	A cluster of faint spots. 6573 and 6576 form one intermittent group, not seen on Nov. 27–29.
												Note.—This appears to be a region of intermittent rather than of continuous activity.

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

1908.

TOTAL AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1908.

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.

Greenwich Civil Time.		Where taken.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1908.	d							
January	1·139	K.	58	416	1817	55	380	1745
	2·430	G.	45	499	2645	48	524	2669
	3·450	G.	78	665	3240	92	732	3498
	4·472	G.	109	1063	2849	88	820	2606
	5·253	K.	306	1590	2801	234	1194	2857
	6·142	D.	256	1496	3919	185	1050	3685
	7·172	K.	182	1117	3157	115	717	3551
	8·131	K.	245	1333	4117	166	913	4059
	9·128	K.	138	1093	2482	103	984	2659
	10·477	G.	140	884	1129	78	540	1176
	11·496	G.	111	899	2242	77	877	2165
	12·503	G.	91	890	3780	83	766	3940
	13·462	G.	76	839	3320	65	724	3282
	14·542	G.	100	655	1640	82	604	1750
	15·515	G.	73	531	2315	46	323	2147
	16·247	M.	127	536	1399	72	299	1545
	17·240	M.	107	574	1901	63	332	2091
	18·141	K.	106	623	1337	68	415	1869
	19·151	K.	59	388	926	35	247	1081
	20·497	G.	48	306	942	30	194	969
	21·391	M.	49	280	808	38	207	964
	22·137	K.	71	408	1851	61	340	2256
	23·244	M.	138	666	970	94	517	1347
	24·132	K.	159	755	2183	95	448	2290
	25·129	K.	82	452	2188	56	307	2321
	26·125	K.	43	345	1990	39	308	2177
	27·128	K.	39	224	2930	58	324	2990
	28·509	G.	0	0	3178	0	0	3446
	29·524	G.	15	108	1827	24	174	2318
	30·126	K.	30	178	2718	40	225	2895
	31·129	K.	45	277	2143	38	238	2235
February	1·465	G.	40	426	3609	26	285	3369
	2·139	K.	61	342	1866	39	211	1920
	3·139	K.	73	394	3119	42	232	3223
	4·484	G.	54	492	3303	42	382	3402
	5·135	K.	102	466	2184	91	399	2151
	6·125	K.	50	281	2622	49	341	2712
	7·218	M.	17	77	1960	11	47	2251
	8·238	M.	3	35	2221	2	21	2573
	9·321	D.	63	265	3708	69	328	3993
	10·158	D.	86	413	2359	65	324	2369
	11·181	D.	89	409	2349	56	281	2294
	12·461	G.	48	401	3665	42	316	3704
1908.	d							
February	13·122	K.	95	514	2129	68	360	2330
	14·479	G.	68	551	2331	40	310	2430
	15·235	M.	112	576	2094	62	318	1989
	16·131	K.	77	367	1179	41	201	1136
	17·258	M.	29	162	777	18	97	760
	18·539	G.	0	50	2337	0	123	2607
	19·617	G.	2	36	1830	1	27	2319
	20·222	D.	11	109	2494	20	177	3035
	21·140	D.	40	247	2104	29	218	2332
	22·119	D.	31	196	2548	23	154	2302
	23·578	G.	24	223	3357	16	144	3341
	24·203	D.	41	286	1376	25	179	1603
	25·133	D.	55	388	1527	30	201	1750
	26·110	D.	85	483	1274	50	273	1365
	27·197	D.	162	801	1366	117	564	1428
	28·624	G.	71	753	4042	83	879	4163
	29·525	G.	37	286	2244	47	449	2694
March	1·543	G.	14	92	2124	12	78	2368
	2·098	D.	13	76	2149	13	78	2122
	3·160	D.	4	45	1669	8	85	1752
	4·210	D.	25	98	1666	30	131	1816
	5·255	D.	20	132	1720	24	163	2078
	6·478	G.	35	225	4186	28	180	4151
	7·339	D.	50	213	1872	59	261	1976
	8·125	D.	30	221	873	37	268	1148
	9·506	G.	16	110	1760	11	79	1750
	10·507	G.	21	140	2374	12	90	2437
	11·468	G.	59	353	2056	34	215	2097
	12·493	G.	60	549	1363	33	328	1252
	13·437	G.	32	470	1167	19	276	1005
	14·488	G.	53	452	1363	42	324	1335
	15·477	G.	52	509	1756	45	479	2199
	16·645	G.	116	744	1594	107	728	1740
	17·499	G.	95	601	1527	61	395	1538
	18·122	D.	104	702	1581	66	440	1586
	19·462	G.	105	765	2836	66	462	2718
	20·156	D.	117	627	1161	72	372	1167
	21·514	G.	60	466	1634	31	281	2224
	22·133	D.	51	355	1040	28	191	1463
	23·226	D.	42	278	1571	25	159	1710
	24·438	G.	19	104	2105	12	70	2211
	25·151	D.	0	33	2278	0	26	2265
	26·122	K.	0	0	2045	0	0	2154

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.
1908.	d							
March	27·480	G.	7	31	1537	4	17	1631
	28·484	G.	28	317	1027	16	177	1159
	29·490	G.	41	295	967	26	185	944
	30·446	G.	19	161	1072	15	127	1053
	31·096	D.	13	90	814	13	89	954
April	1·659	G.	29	191	1782	33	232	1909
	2·544	G.	56	517	3105	44	413	2896
	3·509	G.	95	911	2434	60	732	3152
	4·110	D.	182	1176	1293	126	849	1825
	5·575	G.	372	2273	2826	219	1397	3063
	6·614	G.	351	2700	3130	192	1515	2735
	7·420	G.	335	2743	2410	187	1598	2156
	8·452	G.	308	2274	1732	189	1414	1426
	9·619	G.	267	1720	1433	220	1522	1725
	10·086	D.	214	1606	1532	170	1381	1710
	11·219	K.	188	1096	1210	154	932	1377
	12·090	D.	148	932	2414	124	739	2345
	13·418	G.	109	698	2496	106	594	2606
	14·143	D.	85	499	2057	45	265	2303
	15·438	G.	95	501	2679	48	256	2481
	16·492	G.	92	535	1040	47	275	1112
	17·479	G.	63	458	517	36	256	669
	18·106	D.	60	404	1394	44	298	1530
	19·514	G.	79	507	2903	76	490	2847
	20·158	D.	81	574	1974	73	535	2028
	21·153	D.	74	548	1938	71	564	2160
	22·066	D.	63	470	1210	39	293	1274
	23·102	D.	85	567	1277	65	430	1417
	24·519	G.	60	417	1009	32	364	1418
	25·090	D.	81	597	1025	75	769	1424
	26·525	G.	58	661	1730	44	517	1540
	27·085	D.	82	611	2061	70	506	1963
	28·169	D.	112	666	1932	98	577	1933
	29·066	D.	108	842	2428	115	787	2514
	30·397	D.	148	939	2256	117	718	2632
May	1·514	G.	175	1254	1144	108	754	1098
	2·128	D.	186	1172	1710	104	665	1636
	3·079	D.	142	1034	1148	75	556	1247
	4·196	D.	143	1060	2087	75	559	2161
	5·105	D.	150	989	2525	90	584	2632
	6·085	D.	181	1013	2222	142	813	2538
	7·431	G.	125	929	2660	95	693	2899
	8·130	D.	106	887	2639	81	697	2492
	9·518	G.	71	784	2219	71	719	2208
	10·588	G.	80	645	1244	88	711	1621
	11·153	D.	94	481	1652	113	646	2128
	12·535	G.	64	597	478	73	668	573
	13·453	G.	38	258	559	62	502	1166
	14·172	D.	33	195	1051	37	239	1336
	15·069	D.	58	338	1526	50	294	1617
	16·057	D.	81	453	2079	56	310	1871
	17·500	G.	91	485	1470	51	272	1546
	18·436	G.	84	534	1844	44	282	1789
	19·700	G.	82	523	972	43	272	1065
	20·690	G.	70	476	444	38	260	456
	21·688	G.	43	361	648	27	222	876
	22·641	G.	50	314	1188	37	230	1251
1908.	d							
May	23·403	G.	29	238	1386	27	218	1409
	24·483	G.	16	139	1872	24	203	1832
	25·109	D.	11	96	2565	29	228	2588
	26·130	D.	8	82	1471	18	157	1949
	27·638	G.	65	416	1104	117	738	1311
	28·431	G.	98	648	2190	107	693	2302
	29·410	G.	172	925	1892	133	708	1761
	30·058	D.	212	1026	1161	142	689	1131
	31·475	G.	201	1588	1500	132	1188	1576
June	1·498	G.	304	2524	1922	187	1718	2040
	2·518	G.	390	3063	1964	225	1859	1947
	3·478	G.	394	3596	2506	221	2028	2230
	4·151	D.	594	3567	2474	328	1977	2081
	5·437	G.	353	2987	1398	207	1714	1334
	6·134	D.	343	2305	2446	216	1428	2599
	7·671	G.	148	1520	1241	122	1121	1310
	8·637	G.	80	694	1548	55	465	1521
	9·242	D.	59	515	2371	46	494	2273
	10·683	G.	43	290	2024	36	282	2370
	11·497	G.	34	292	2543	23	257	2934
	12·068	D.	35	201	2046	25	141	2541
	13·051	D.	39	202	992	25	129	1129
	14·622	G.	27	202	1030	14	104	1218
	15·388	G.	18	165	988	9	83	1111
	16·171	D.	34	214	1015	35	237	1426
	17·176	K.	44	241	1509	41	212	1645
	18·625	G.	52	304	1343	35	200	1221
	19·679	G.	53	329	1150	33	208	1014
	20·408	G.	38	300	956	24	175	932
	21·599	G.	10	110	1978	5	59	1923
	22·103	D.	7	32	1522	3	16	1607
	23·652	G.	29	231	938	23	201	993
	24·379	G.	76	528	2347	101	641	2212
	25·144	D.	96	577	1773	90	546	2063
	26·335	G.	97	762	2462	76	590	2566
	27·297	D.	166	814	2445	121	577	2504
	28·172	D.	108	680	1870	70	478	1638
	29·390	G.	111	780	1664	60	527	1910
	30·393	G.	117	842	2444	62	456	2275
July	1·358	G.	99	780	2148	54	438	1888
	2·678	G.	128	900	805	78	548	729
	3·351	G.	119	854	1398	80	556	1583
	4·088	D.	82	522	1015	62	430	1471
	5·082	D.	66	519	3112	76	544	3472
	6·251	D.	49	302	2599	67	375	2435
	7·535	G.	23	235	2952	15	148	2456
	8·062	D.	19	162	1300	11	97	1448
	9·352	G.	22	206	1603	11	108	1776
	10·389	D.	13	98	576	6	49	768
	11·409	G.	8	80	1385	4	43	1423
	12·494	D.	2	12	211	1	6	286
	13·060	D.	5	35	1739	2	21	1485
	14·114	D.	6	64	1482	16	159	1810
	15·197	D.	59	530	1984	61	558	2692
	16·189	D.	89	673	1784	69	540	2085
	17·338	D.	88	494	3050	80	415	3038
	18·074	D.	101	435	2474	67	312	2200

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.
1908.	d							
July	19·263	D.	49	431	3089	26	263	3148
	20·257	D.	105	825	3637	57	444	3423
	21·097	D.	112	809	1642	63	466	1885
	22·333	G.	150	1020	2330	123	818	1993
	23·220	D.	147	787	3306	132	718	3471
	24·093	D.	115	610	3739	122	662	3891
	25·138	D.	59	299	3477	64	297	4526
	26·526	G.	40	241	1328	23	139	1496
	27·633	G.	34	250	1924	18	137	1658
	28·668	G.	42	262	484	23	146	421
	29·275	D.	36	241	1790	21	252	1906
	30·341	G.	35	299	765	31	273	1066
	31·687	G.	82	618	1530	115	914	1744
August	1·375	G.	104	850	2067	110	944	2120
	2·401	G.	284	1864	2850	212	1411	2561
	3·426	G.	563	3475	1741	333	2046	1561
	4·476	D.	852	4328	1668	469	2368	1778
	5·435	D.	743	5062	1141	401	2730	1454
	6·600	G.	592	4913	1795	322	2738	1391
	7·422	G.	669	5134	1692	387	3072	1520
	8·276	D.	900	5102	2083	590	3394	2386
	9·181	K.	788	5060	2459	593	3977	2625
	10·418	G.	305	2682	3522	311	3035	3886
	11·405	G.	190	1410	2394	171	1511	2586
	12·150	D.	142	771	1644	177	983	2034
	13·184	D.	69	399	2028	127	860	2633
	14·514	G.	161	1115	1248	87	636	1455
	15·389	G.	253	1673	1182	155	1043	1333
	16·160	D.	246	1703	1723	164	1134	1552
	17·410	G.	180	1559	2235	143	1249	1682
	18·158	D.	338	1564	2961	300	1400	2795
	19·122	K.	309	1452	2435	285	1578	2601
	20·224	D.	146	1167	3243	79	631	3241
	21·412	G.	148	804	1548	86	481	1562
	22·517	G.	80	482	1470	57	333	1554
	23·151	D.	110	551	4331	86	438	3918
	24·465	G.	54	415	2005	40	360	2019
	25·511	G.	149	1048	2130	273	2020	3228
	26·146	K.	224	1501	2905	298	2115	4787
	27·414	G.	309	2422	3558	265	2036	3758
	28·672	G.	433	3104	3760	326	2204	3372
	29·404	G.	547	3574	3118	350	2238	3021
	30·553	G.	630	4798	1041	354	2637	994
	31·359	D.	691	4982	1086	372	2660	1016
September	1·497	G.	741	5226	675	400	2804	729
	2·691	G.	744	4977	222	486	3240	348
	3·103	D.	862	4406	2087	633	3090	1816
	4·126	D.	785	3972	4413	627	3150	4281
	5·455	G.	473	2801	2512	454	2926	2798
	6·537	G.	305	1954	2951	248	1810	3618
	7·412	G.	461	2481	1647	282	1562	1945
	8·476	G.	507	2928	782	298	1795	995
	9·414	G.	531	3118	1493	321	1938	1703
	10·411	G.	492	3168	1037	287	1830	1319
	11·105	D.	606	3398	1126	355	1981	1410
	12·427	G.	483	3016	2555	318	1972	2141
	13·461	G.	348	2203	2006	274	1745	1620

Greenwich Civil Time.		Where taken.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1908.	d							
September	14·528	G.	280	1841	2454	295	2211	3107
	15·087	D.	339	1687	1652	417	2059	1981
	16·140	D.	253	1513	2486	342	1701	2976
	17·627	G.	300	2041	2256	193	1314	2332
	18·415	G.	303	2097	2268	202	1443	2593
	19·507	G.	224	1822	2943	146	1143	2825
	20·527	G.	215	1636	1428	130	1139	1703
	21·147	D.	196	1604	2754	133	1109	3447
	22·097	D.	213	1573	2853	152	1132	3554
	23·072	D.	244	1637	3946	162	1068	3863
	24·079	D.	282	1834	4407	173	1181	4213
	25·165	D.	253	1754	2475	174	1154	2765
	26·415	G.	248	1633	1392	133	931	1643
	27·081	D.	216	1358	2847	115	720	2614
	28·610	G.	183	1302	1743	122	845	2246
	29·509	G.	118	895	813	85	635	811
	30·500	G.	184	1147	2884	223	1414	3136
October	1·537	G.	225	1465	4680	240	1573	5279
	2·605	G.	235	1417	4677	209	1235	5208
	3·499	G.	212	1427	2878	133	896	2947
	4·603	G.	264	1457	2363	154	841	2447
	5·090	D.	235	1331	1481	137	764	1616
	6·440	G.	246	1575	2135	131	835	2466
	7·510	G.	232	1379	1573	127	817	1541
	8·626	G.	171	1203	2260	110	764	2415
	9·158	D.	190	1037	2162	126	709	2141
	10·533	G.	117	733	1864	91	584	1622
	11·565	G.	62	467	2237	71	520	2659
	12·401	G.	45	295	1887	84	510	2309
	13·546	G.	6	50	1806	3	83	2176
	14·519	G.	1	19	1200	1	10	1661
	15·620	G.	0	21	2947	0	12	3021
	16·078	D.	0	0	3179	0	0	3008
	17·093	D.	0	0	3845	0	0	3754
	18·091	D.	0	0	3828	0	0	4054
	19·169	D.	0	0	3641	0	0	4033
	20·140	D.	0	24	3318	0	177	3021
	21·074	D.	20	113	3685	31	138	3309
	22·535	G.	29	184	1960	25	151	1913
	23·610	G.	20	161	2465	13	95	2246
	24·213	D.	10	104	4604	6	58	4103
	25·449	G.	0	157	1432	0	86	1434
	26·111	D.	22	175	1643	12	92	1358
	27·094	D.	15	108	2124	9	79	2131
	28·119	D	9	96	3493	18	159	3839
	29·167	D	13	89	4360	15	93	4798
	30·420	G	18	121	3107	14	89	3145
	31·094	D	15	123	2834	10	79	2436
November	1·568	G	18	108	541	10	58	614
	2·090	D	28	179	1199	44	253	1129
	3·153	D	48	259	970	48	255	1040
	4·599	G	45	313	1173	31	221	1158
	5·166	D	68	380	2599	45	266	2301
	6·426	G	96	552	2548	66	354	2438
	7·127	D	92	586	1774	58	369	1769
	8·103	D	177	943	2468	107	568	2343
	9·511	G	394	2087	1454	218	1151	1572

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.
1908. d							
November 10·489	G	449	3102	1031	240	1647	1186
11·104	D	548	3293	1107	290	1737	1002
12·534	G	444	2675	1139	243	1485	1381
13·505	G	424	2545	1603	260	1545	1874
14·158	D	427	2156	2538	278	1418	2778
15·128	D	336	2146	2063	245	1582	2169
16·183	D	326	1899	3537	284	1674	3427
17·116	D	285	1489	1350	333	1717	1512
18·181	D	180	1024	1928	104	819	1954
19·118	D	178	986	1177	90	504	1110
20·492	G	166	1091	1265	91	593	1213
21·198	D	134	796	1831	79	529	1833
22·124	D	119	788	1677	89	578	1661
23·472	G	66	492	1881	62	483	2046
24·114	D	49	355	2327	76	498	2768
25·508	G	29	173	2252	49	277	2449
26·190	D	30	146	3058	20	96	3005
27·189	D	47	298	2645	26	170	2596
28·152	D	49	374	1446	25	198	1473
29·142	D	37	239	1258	19	125	1155
30·121	D	43	284	1419	49	356	1616
December 1·170	D	44	268	2301	43	281	2424
2·138	D	118	529	2311	262	942	2241
3·125	D	140	844	2632	158	916	2628
4·199	D	202	995	1343	168	811	1408

Greenwich Civil Time.	Where taken.	Projected Area.			Area Corrected for Foreshortening.		
		Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1908. d							
December 5·350	D	259	1305	2236	167	828	1998
6·146	D	242	1115	974	138	641	867
7·137	D	243	1229	1038	128	649	1026
8·481	G	262	1337	999	135	690	1052
9·281	D	250	1233	1439	139	672	1577
10·536	G	202	1049	1447	120	640	1589
11·161	D	229	1000	2060	153	662	2403
12·478	G	179	765	1555	156	664	1361
13·160	D	97	498	2803	107	555	2577
14·133	D	57	311	2664	111	605	2522
15·134	D	9	55	1198	12	70	1169
16·247	D	13	85	931	7	53	992
17·174	D	25	110	321	13	59	328
18·293	D	42	215	599	22	112	549
19·171	D	85	546	1188	42	275	1139
20·163	D	81	522	1380	42	270	1565
21·250	D	89	455	1514	49	255	1559
22·289	D	82	566	1862	53	376	1864
23·283	D	143	772	1198	99	549	1233
24·145	D	224	1058	1145	184	925	1255
25·173	D	185	869	1231	105	611	1340
26·248	D	178	1171	1059	112	768	1168
27·167	D	169	815	1113	111	533	1270
28·457	G	116	858	2043	184	1174	2154
29·130	D	159	1021	1691	184	1213	1942
30·285	D	248	1419	1402	246	1502	1946
31·129	D	305	1927	2311	229	1481	2585

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 1907 December 5 to 1908 December 21.

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 1873–1907 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							
725*	1907	December	5·20	28	224	1492	2007	154	1069	2156
726	1908	January	1·53	27	110	708	2305	80	545	2422
727		January	28·87	28	49	295	2348	36	225	2477
728		February	25·21	27	57	391	1851	43	305	1973
729		March	23·53	27	121	843	1860	82	587	1935
730		April	19·80	27	99	703	1696	78	573	1834
731		May	17·04	28	145	1057	1685	96	713	1755
732		June	13·24	27	63	433	1665	47	319	1714
733		July	10·44	27	167	1093	2015	110	734	2093
734		August	6·65	27	354	2395	2174	258	1780	2320
735		September	2·90	27	360	2210	2271	262	1614	2456
736		September	30·17	28	91	573	2670	69	444	2750
737		October	27·46	27	189	1123	1950	125	749	1990
738		November	23·76	27	113	588	1697	88	449	1721

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 1908.

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.
1908	366	148	952	2000	106	697	2098

* These values for Rotation 725 supersede the values given for that Rotation in the Results for 1907.

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 1907 December 5 to 1908 December 21.

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			°		°	°	°
725*	1907 Dec. 5·20	28	504	10·49	565	10·28	− 0·49	10·38
726	1908 Jan. 1·53	27	216	11·14	329	7·83	− 0·31	9·14
727	Jan. 28·87	28	128	16·98	97	12·05	+ 4·45	14·85
728	Feb. 25·21	27	41	9·61	264	8·16	− 5·77	8·35
729	Mar. 23·53	27	34	10·92	553	12·05	−10·71	11·99
730	Apr. 19·80	27	126	11·24	446	11·31	− 6·34	11·30
731	May 17·04	28	166	10·80	547	8·14	− 3·73	8·76
732	June 13·24	27	87	10·08	232	12·88	− 6·64	12·12
733	July 10·44	27	263	11·53	471	14·51	− 5·17	13·44
734	Aug. 6·65	27	785	8·20	995	10·89	− 2·47	9·70
735	Sept. 2·90	27	993	9·97	621	7·42	+ 3·28	8·99
736	Sept. 30·17	28	220	10·36	224	8·31	+ 0·94	9·32
737	Oct. 27·46	27	659	11·27	90	11·48	+ 8·55	11·30
738	Nov. 23·76	27	352	11·62	96	13·51	+ 6·22	12·02

MEAN HELIOGRAPHIC LATITUDE of SUN SPOTS, as measured on PHOTOGRAPHS taken at the ROYAL OBSERVATORY, GREENWICH, in INDIA, and in MAURITIUS, for the YEAR 1908.

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.		
			°		°	°	°
1908	366	316	10·42	381	10·34	−0·92	10·38

* These values for Rotation 725 supersede the values given for that Rotation in the Results for 1907.