GREENWICH
PHOTO-HELIOGRAPHIC RESULTS

1925

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RESULTS OF MEASURES

MADE AT THE

ROYAL OBSERVATORY, GREENWICH,

UNDER THE DIRECTION OF

SIR FRANK DYSON, K.B.E., M.A., LL.D., F.R.S.,
ASTRONOMER ROYAL.

OF

PHOTOGRAPHS OF THE SUN

TAKEN

AT GREENWICH, AT THE CAPE, AND IN INDIA

IN THE YEAR

1925

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ASTRONOMICAL ASS

GREENWICH PHOTO-HELIOGRAPHIC RESULTS, 1925.

INTRODUCTION.

§ 1. *Positions and Areas of Sun Spots and Faculæ for each Day in the Year* 1925.

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

The photographs of the Sun obtained at Greenwich were taken either with the Dallmeyer Photo-heliograph, of 4 inches aperture (stopped down to 2·9 inches) or the Thompson Photo-heliograph of 9 inches aperture (usually stopped down to 4 inches). The two instruments are worked in conjunction ; the Dallmeyer Photo-heliograph is of most use in snatching a photograph in breaks on cloudy days, while the Thompson photo-heliograph is best employed in intervals of good definition.

The photographs from the Cape Observatory were taken under the superintendence of His Majesty's Astronomer at the Cape, Dr. H. Spencer Jones, and those from Kodaikánal under the superintendence of the Director, Dr. T. Royds. The photographs from Dehra Dûn, which have been forwarded by the Solar Physics Committee to fill the gaps in the combined series, were taken under the superintendence of the Deputy Surveyor-General, Trigonometrical Survey of India. At two of the observatories the instrument employed was a Dallmeyer Photo-heliograph giving an image of the Sun about 10 centimetres in radius ; at Kodaikánal a Cooke photo-visual object-glass of 6 inches aperture was used, the image of the Sun being on about the same 10-centimetre scale.

* Discontinued from July 1, 1925.

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Photographs of the Sun were available for measurement upon each day in 1925, except July 23 and November 26, those finally selected for measurement being supplied by the different observatories as under :

Greenwich	216
Cape	137
Kodaikánal	8
Dehra Dûn	2
Total	363

The Director, Father Rodés, S.J., of the Ebro Observatory, Tortosa, Spain, kindly loaned for measurement two plates taken on July 23 and November 26, respectively. Although the scale of these plates is about half that of the standard series, the results of the measures have been included in order to preserve the continuity of the daily measures of positions and areas of spots.

The names of those persons who measured the photographs for the year 1925 are as follows :

H. W. Newton Isabel Jackson
H. Barton

At the principal focus of the Photo-heliographs, excepting that at Kodaikánal, two spider-lines are fixed by which the zero of position-angles on the photographs can be determined. These lines are inclined at an angle of 45° to the celestial equator in the Greenwich and Cape Photo-heliographs, and respectively perpendicular and parallel to it in the Dehra Dûn, instrument. In the Kodaikánal Photo-heliograph there is one wire fixed parallel to the equator.

The zero of position-angles for the Greenwich, Cape, and Kodaikánal Photo-heliographs has been determined by the measurement of plates which have been exposed twice, with an interval of about 100 seconds between the two exposures, the instrument being firmly clamped. Two images of the Sun, overlapping each other by about a fifth part of the Sun's diameter, were therefore produced upon the plates, and the exposures having been so given that the line joining the cusps passed approximately through the centre of the plates, the inclination of the wires of the photo-heliograph to this line was measured with the position-micrometer, and a small correction for the inclination of the Sun's path was then applied.

At Greenwich and the Cape, transits of the Sun were also taken over the two wires ; the times of contact of the first and second limbs of the Sun with the two wires being noted. The ratio of the time taken by the Sun to pass over the NE—SW wire to that taken to pass over the SE—NW wire gives the tangent of the angle made by the Sun's path to the latter wire, the wires being assumed to be exactly at right angles to each other. From this angle, when corrected for the Sun's motion in declination, the correction for the zero of position of the wires can be inferred.

The following table gives the correction for zero of position thus determined by the two independent methods for the Greenwich and Cape Photo-heliographs.

Determination of the Zero of Position-Angles.

Month 1925.	Greenwich, Dallmeyer.		Greenwich, Thompson.		Cape.	
	Photographic.	Visual.	Photographic.	Visual.	Photographic.	Visual.
	° ′	° ′	° ′	° ′	° ′	° ′
January	—	+ 2. 44 (2)	—	—	— 0. 29 (2)	— 0. 26 (4)
February	+ 2. 35 (2)	+ 2. 44 (2)	+ 2. 39 (1)	—	— 0. 23 (2)	— 0. 25 (4)
March ..	+ 2. 35 (2)	+ 2. 42 (2)	—	—	— 0. 21 (2)	— 0. 23 (4)
April ..	+ 2. 33 (1)	+ 2. 43 (2)	+ 2. 29 (1)	—	— 0. 31 (2)	— 0. 21 (4)
May ..	+ 2. 36 (2)	+ 2. 40 (2)	+ 2. 45 (2)	—	— 0. 21 (2)	— 0. 21 (4)
June ..	+ 2. 37 (3)	+ 2. 36 (3)	+ 2. 39 (1)	+ 2. 40 (1)	— 0. 19 (2)	— 0. 20 (4)
July ..	+ 2. 37 (2)	+ 2. 38 (1)	+ 2. 37 (1)	—	— 0. 16 (2)	— 0. 20 (4)
August ..	+ 2. 50 (1)	+ 2. 39 (1)	+ 2. 44 (3)	—	— 0. 21 (2)	— 0. 22 (4)
September	+ 2. 39 (2)	+ 2. 43 (2)	—	—	— 0. 21 (2)	— 0. 23 (5)
October	+ 2. 43 (1)	+ 2. 42 (3)	+ 2. 29 (4)	—	— 0. 23 (2)	— 0. 24 (3)
November	+ 2. 39 (2)	+ 2. 44 (3)	—	—	— 0. 21 (2)	— 0. 24 (4)
December	+ 2. 37 (3)	+ 2. 49 (1)	—	—	— 0. 18 (2)	— 0. 24 (4)

The suffixes indicate the number of zero plates or the number of sets of transits.

New wires were inserted in the Cape Photo-heliograph on January 6.

The zero-corrections used during the year 1925 in the reduction of the photographs taken at Greenwich were as follows :

		°
Dallmeyer Photo-heliograph	January to May	+ 2·65
	June and July	+ 2·6
	August to December	+ 2·7
Thompson Photo-heliograph	February to August	+ 2·65
	September	+ 2·6
	October	+ 2·5

The zero-corrections used in the reductions of the photographs taken at the Cape Observatory were as follows :—

	°
January 1 to January 5	—0·6
January 6 to January 31	—0·45
February to April	—0·4
May to September	—0·35
October to December	—0·4

The zero-corrections adopted during 1925 for the eight Kodaikánal photographs were :—

January 25, + 0°.5 ; April 8 and June 14, + 0°.3 ; Aug. 9, 18, 24, Sept. 9, Dec. 30, + 0°.2.

The adjustment of the wires in the Dehra Dûn Photo-heliograph was usually tested by stopping the driving clock immediately after a photograph had been taken and making a second exposure some two minutes after the first, a portion of a second image of the Sun, just intersecting the first, being thus obtained upon the plate. The Zero-correction adopted was +0°·8.

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

All photographs are measured independently by two persons, and the means taken.

In the case of large or complex groups of spots, the positions of the chief components are measured individually, and also for groups so near the east or west limbs of the Sun that the effects of foreshortening are appreciable. In other cases the position of the centre of a group is estimated in the micrometer. In this respect a difference has been made in the practice during years previous to 1916, where in this section components of groups are given separately and combined into groups in the Ledgers.

When required, corrections are applied to the measured distances and position-angles for differential refraction. The formula is given in the *Introduction* for 1909. It is seldom necessary, however, to apply this correction except to a few photographs taken at Greenwich in mid-winter.

The calculations of heliographic longitude and latitude are made by use of the formulæ given in "Researches on Solar Physics: Heliographical Positions and Areas of Sun Spots observed with the Kew Photo-heliograph during the years 1862 and 1863," by W. De La Rue, B. Stewart, and B. Loewy. *Phil. Trans.*, 1869. If r be the measured distance of a spot from the centre of the Sun's apparent disc, R the measured radius of the Sun on the photograph, (R) the tabular semi-diameter of the Sun in arc, and ρ, ρ the angular distances of a spot from the centre of the apparent disc as viewed from the Sun's centre and from the Earth respectively, ρ is obtained from the equations :—

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

If D and ϕ are the heliographic latitudes of the Earth and the spot respectively referred to the Sun's equator, and l the heliographic longitude of the spot from the solar meridian passing through the centre of the disc, longitudes west of the centre being reckoned as positive, and χ the position-angle from the Sun's axis,

$$\sin\phi = \cos\rho \sin D + \sin\rho \cos D \cos\chi$$
$$\sin l = -\sin\chi \sin\rho \sec\phi.$$

The position-angle χ is found from the position-angle from the North Point by subtracting P, the position-angle of the N end of the Sun's axis, measured eastward from the North Point of the disc. The heliographic longitude of the spot is $l+L$, where L is the heliographic longitude of the centre of the disc. The three quantities P, D, and L for the time of the exposure of each photograph are derived from the Ephemeris for Physical Observations of the Sun given on p. 541 of the *Nautical Almanac* for 1925.

The inclination of the Sun's axis to the ecliptic is assumed to be 82°45′, the longitude of the ascending node for 1925·0 to be 74°42′·8, 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. *General Catalogue of Groups of Sun Spots for* 1925.

The Catalogue contains every group of spots which lasted for two or more days, and the group numbers are in continuation of those given in 1924 and previous years. Groups seen only once are not included, but appear in the Daily Results with a distinctive numeration.

During the year 1925, a number of groups of spots have been noted in the Catalogue as " Revivals." These have been tabulated in series in a table following the Catalogue. The respective groups of each series are in the same heliographic position, and are seen in consecutive rotations but with definite breaks in their history between each rotation. The latter feature excludes them from being classed as " Recurrent " groups ; they differ from " Intermittent " groups in their being of long period intermittency. When a " Recurrent " series forms part of a " Revival " series, a reference is made in the last column of the table. Other groups which are given in detail in Ledger II are also indicated.

§ 3. *Ledgers of the Areas and Heliographic Positions of Groups of Sun Spots for* 1925.

Ledger I.—Recurrent Groups.—This Ledger supersedes the Catalogue of Recurrent Groups of Sun Spots given in years previous to 1916 of the *Greenwich Photo-Heliographic Results*, and the reference numbers of the series are in continuation of those given therein. The groups forming this Ledger have been abstracted from a general Ledger of all spot groups seen throughout the year, and were selected upon the following plan, reference being made to the General Catalogue :—If any spot group when first seen was 60° or more to the east of the Central Meridian, then the Catalogue, and, if necessary, the Daily Results also, were searched some fifteen or sixteen days earlier, to ascertain whether a spot group of similar heliographic longitude and latitude was then near the west limb of the Sun. Similarly, if any spot group when last seen was 60° or more to the west of the Central Meridian, then the Catalogue was searched some fifteen or sixteen days later, to ascertain whether a spot group of similar heliographic longitude and latitude was then near the east limb of the Sun. Both the search forward and the search backward have been made in the case of every spot group that was observed close to both the east and west limbs, in order that no possible case of identity might be overlooked. When there appeared to be a case of probable identity between spot groups observed in two consecutive rotations of the Sun, the character of the second group has been carefully compared with that of the first in each of the three elements—area, longitude, and latitude, before accepting it as a Recurrent Group.

Besides the Ledgers of the groups, there have been printed in a similar manner important components of the principal groups. This has been done in all cases where it appeared probable that an individual component lasted to the second or third rotation after its first appearance.

In deriving the proper motions of spots in longitude in Ledgers I and II, the formulæ adopted as representing the Sun's daily sidereal motion is $\xi = 14^\circ{\cdot}37 - 2^\circ{\cdot}60 \sin \phi$, where ϕ is the latitude of the spot. *See Greenwich Photo-Heliographic Results*, 1924, § 5.

Ledger II.—Non-Recurrent Groups.—This Ledger contains the most important of those groups which do not last to a second rotation. Individual components are also given after their respective groups, where they are large and distinctive.

§ 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* 1925.

Particulars relating to this section are given in the headings on pages D 92, 96, and 97.

F. W. DYSON.

Royal Observatory, Greenwich,
1927, *January* 7.

ROYAL OBSERVATORY, GREENWICH

Positions and Areas of Sun Spots and Faculæ

For each Day in the Year

1925

GREENWICH PHOTO-HELIOGRAPHIC RESULTS 1925

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

Col. 1. (1) Time when photograph was taken expressed in days and decimals of a day reckoning from midnight at commencement of year. (2) Place of observatory—Greenwich (G), Cape of Good Hope (C), Kodaikánal (K), Dehra Dûn (D), Ebro (E). (3) Date of photograph.

Col. 2. Number of Spot Group in order of appearance and in continuation of the Group-numbers given in previous years. Groups seen on one day only are distinguished by the number of the Rotation during which they were observed and by a letter given in the order of their appearance. When there is no number in the second column, it is to be understood that there is a Facula unaccompanied by a Spot.

Col. 3. Distance of Spot Group or Faculæ from Sun's centre in terms of the Sun's radius.

Col. 4. Position Angle of Spot Group or Faculæ measured from the North pole of the Sun's axis in the direction N., E., S., W., N.

Col. 5. Heliographic Longitude of the Spot Group derived from the measures.

Col. 6. Heliographic Latitude of the Spot Group similarly derived.

Col. 7. Area of Umbræ corrected for foreshortening in millionths of the Sun's visible hemisphere.

Col. 8. Area of Whole Spots composing the Group similarly expressed.

Col. 9. Area of each group of Faculæ similarly expressed. 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.

In line with the date of each day is given in brackets the position angle of the Sun's axis from the north point: the heliographic longitude and latitude of the centre of the disc; the total areas of Spots and Faculæ for the day.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
0·321		·984	246·8					159
C								
Jan. 1			(+2·1)	(118·3)	(−3·1)	(0)	(0)	(159)
1·328	9596	·960	105·8	31·2	−16·1	9	30	314*f*
C		·927	135·7					111
		·934	118·1					90
Jan. 2			(+1·6)	(105·0)	(−3·3)	(9)	(30)	(515)
2·323	9596	·874	106·7	31·5	−16·2	6	28	422*f*
		·804	120·5					49
C		·855	138·7					136
		·978	63·8					148
Jan. 3			(+1·1)	(91·9)	(−3·4)	(6)	(28)	(755)
3·430	9596	·713	109·6	33·1	−16·3	3	8	190*f*
G		·918	61·7					231
Jan. 4			(+0·5)	(77·3)	(−3·5)	(3)	(8)	(421)
4·540	9596	·652	112·1	24·9	−17·0	1	3	
G		·833	56·6					181
		·957	55·2					134
Jan. 5			(0·0)	(63·9)	(−3·6)	(1)	(3)	(315)
5·463		·889	296·5					172
G	9596	·480	119·8	24·9	−17·1	1	2	
		·882	52·6					123
Jan. 6			(−0·5)	(50·6)	(−3·7)	(1)	(2)	(295)
6·343		·945	294·7					199
		·837	294·8					53
C		·805	306·3					76
	9596	·254	153·7	32·3	−16·8	0	3	
		·827	47·5					241
Jan. 7			(−0·9)	(39·0)	(−3·8)	(0)	(3)	(569)
7·398		·940	291·0					100
		·912	298·0					70
C		·908	306·9					38
	9596	·238	180·4	25·2	−17·6	3	29	
		·793	45·0					104
Jan. 8			(−1·4)	(25·1)	(−3·9)	(3)	(29)	(312)

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
8·457		·981	292·2					73
G		·963	67·6					417
		·973	120·0					23
Jan. 9			(−1·9)	(11·1)	(−4·0)	(0)	(0)	(513)
9·352		·599	244·0					98
		·897	60·5					473
C		·922	118·7					81
		·965	105·3					139
		·978	61·5					371
Jan. 10			(−2·3)	(359·3)	(−4·1)	(0)	(0)	(1162)
10·330		·920	241·6					69
		·696	248·6					138
	9597	·516	169·8	340·2	−34·5	2	10	
C		·782	57·4					405
		·885	111·6					147
		·943	65·2					570
		·962	117·2					292
Jan. 11			(−2·8)	(346·5)	(−4·2)	(2)	(10)	(1621)
11·256		·976	242·4					47
		·827	251·7					292
	9597	·518	187·8	339·2	−35·0	9	30	
		·714	55·2					296
D		·863	59·5					718
		·892	116·8					471
		·961	69·2					294
		·977	106·8					48
Jan. 12			(−3·2)	(334·3)	(−4·3)	(9)	(30)	(2166)
12·456		·949	241·7					91
		·875	305·2					206
		·771	314·6					83
	954a	·675	322·9	346·0	+28·5	1	3	53*c*
C		·797	121·3					272
		·873	107·7					70
		·901	61·3					307
		·932	252·3					287
		·977	63·6					304
Jan. 13			(−3·8)	(318·5)	(−4·5)	(1)	(3)	(1673)

Group 9596. Jan. 2–8. A small spot in the preceding part of an area of well-defined faculæ. On Jan. 5, 6 and 8 only a very small spot is seen in the following part of the disturbed area.
Group 9597. Jan. 11–12. A few tiny spots in a short stream.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
13·374		·971	252·2					205
		·941	300·1					139
		·821	311·3					97
C		·695	122·4					146
		·858	53·6					194
		·947	62·0					211
Jan. 14			(−4·2)	(306·4)	(−4·6)	(0)	(0)	(992)
14·359		·982	251·1					137
		·948	303·9					90
		·819	310·1					133
C		·751	224·9					80
		·769	46·7					156
		·850	59·1					203
		·949	52·2					132
Jan. 15			(−4·7)	(293·4)	(−4·7)	(0)	(0)	(931)
15·366		·984	302·9					173
		·895	304·2					193
		·853	232·6					101
	9598	·707	48·0	245·0	+24·3	6	47	74*c*
C		·716	35·5					75
		·760	58·0					69
		·885	48·0					238
		·931	118·4					107
Jan. 16			(−5·2)	(280·1)	(−4·8)	(6)	(47)	(1030)
16·316		·958	300·4					108
		·935	234·0					139
C	9598	·592	34·8	245·9	+24·4	2	11	
		·784	39·2					135
		·870	123·0					80
Jan. 17			(−5·6)	(267·6)	(−4·9)	(2)	(11)	(462)
17·366		·968	233·7					104
		·964	346·1					39
C		·762	306·3					390
	9599	·763	292·3	300·1	+13·3	5	38	61*c*
Jan. 18			(−6·1)	(253·8)	(−5·0)	(5)	(38)	(594)
18·338		·883	299·2					263
		·723	311·0					91
	9599	·884	287·6	300·6	+13·0	15	68	118*c*
C	9598	·488	349·2	246·7	+23·6	18	117	
		·924	50·8					34
		·974	67·8					134
Jan. 19			(−6·6)	(241·0)	(−5·0)	(33)	(185)	(640)
1925.			°	°	°			
19·361		·954	296·4					294
		·877	302·5					299
		·776	307·2					179
C	9599	·954	285·4	298·0	+13·0	5	20	137*p*
	9598	·558	327·1	246·6	+23·0	20	127	
	9600	·569	336·3	242·2	+26·4	0	21	
		·928	64·2					323
Jan. 20			(−7·0)	(227·5)	(−5·1)	(25)	(168)	(1232)
20·349		·944	294·7					269
		·885	306·1					231
		·841	242·4					243
C		·790	303·3					111
	9598	·693	313·4	247·8	+24·0	20	122	92*c*
	9600	·644	324·1	239·4	+26·6	0	6	
		·841	59·4					258
Jan. 21			(−7·5)	(214·5)	(−5·2)	(20)	(128)	(1204)
21·312		·973	295·7					226
		·919	241·5					266
		·883	291·5					167
		·803	317·5					149
C	*954b*	·966	303·0	270·9	+29·9	0	15	125*p*
	9598	·787	305·4	246·0	+23·3	18	111	183*c*
		·731	51·7					127
		·961	118·8					50
Jan. 22			(−7·9)	(201·9)	(−5·3)	(18)	(126)	(1293)
22·464		·970	244·8					117
		·963	290·9					106
G		·848	305·4					256
	9598	·895	299·2	244·7	+23·1	27	114	232*c*
Jan. 23			(−8·4)	(186·7)	(−5·4)	(27)	(114)	(711)
23·448		·899	296·5					90
		·860	311·2					98
G	9598	·957	297·1	242·2	+23·9	10	46	385*p*
Jan. 24			(−8·9)	(173·7)	(−5·5)	(10)	(46)	(573)
24·114		·957	296·3					231
		·922	311·4					340
K	9598	·987	296·4	241·8	+24·8	12	82	321*c*
Jan. 25			(−9·2)	(165·0)	(−5·5)	(12)	(82)	(892)

Group 9598. Jan. 16–25. Revival of Group 9593. Two or three small faint spots which have disappeared by Jan. 18. On the next day a number of imperfectly formed spots have appeared in a stream which gains in distinctness on the following days.
Group 9599. Jan. 18–20. Two or three small but definite spots.
Group 9600. Jan. 20–21. A minor spot disturbance occurring *nf* Group 9598.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
25·446		·949	311·1					66
		·887	236·5					68
C	*954c*	·480	337·2	158·8	+20·5	1	4	
		·956	118·5					97
		·964	63·3					196
Jan. 26			(−9·7)	(147·4)	(−5·7)	(1)	(4)	(427)
26·393		·946	238·2					120
C		·893	60·0					175
Jan. 27			(−10·2)	(35·0)	(−5·7)	(0)	(0)	(295)
27·543		·817	300·9					151
		·699	309·7					172
G	*954d*	·802	53·0	75·1	+24·7	1	7	232*p*
Jan. 28			(−10·7)	(119·8)	(−5·8)	(1)	(7)	(555)
28·363		·854	298·2					181
		·893	57·8					30
C		·949	106·6					91
Jan. 29			(−11·0)	(109·0)	(−5·9)	(0)	(0)	(302)
29·366		·936	294·9					238
C		·873	107·4					65
Jan. 30			(−11·4)	(95·8)	(−6·0)	(0)	(0)	(303)
30·343		·972	293·2					121
C	9601	·981	64·6	8·3	+23·4	0	20	162*p*
Jan. 31			(−11·8)	(83·0)	(−6·0)	(0)	(20)	(283)
31·523	9602	·513	206·2	83·0	−33·1	9	37	
G	9601	·907	60·5	8·2	+23·4	4	19	163*p*
Feb. 1			(−12·3)	(67·4)	(−6·1)	(13)	(56)	(163)
32·523		·934	293·5					104
	9602	·619	220·4	82·8	−33·5	8	38	
G	9603	·600	325·1	76·1	+23·6	8	48	
		·758	54·7					162
		·910	51·3					120
Feb. 2			(−12·7)	(54·2)	(−6·2)	(16)	(86)	(386)
1925.			°	°	°			
33·394	9602	·726	228·5	83·3	−33·5	4	14	67*f*
	9603	·699	314·7	75·7	+24·2	8	34	67*c*
C	9604	·916	122·6	337·1	−32·3	0	14	81*c*
Feb. 3			(−13·1)	(42·8)	(−6·2)	(12)	(62)	(215)
34·446		·806	232·3					59
	9603	·813	306·7	74·6	+24·7	3	8	156*p*
G	9604	·814	124·9	337·4	−31·8	0	6	99*f*
Feb. 4			(−13·5)	(28·9)	(−6·3)	(3)	(14)	(314)
35·430		·907	236·3					120
	9603	·903	300·2	74·3	+23·7	0	5	204*p*
G	9605	·726	310·9	52·5	+23·2	10	24	63*c*
	9604	·703	129·7	336·7	−31·7	0	1	111*f*
		·960	70·5					180
Feb. 5			(−13·9)	(16·0)	(−6·4)	(10)	(30)	(678)
36·356		·973	238·8					124
	9603	·967	296·6	74·3	+23·7	0	8	257*p*
C	9605	·830	304·0	52·2	+23·4	7	53	110*c*
		·929	65·8					540
Feb. 6			(−14·2)	(3·8)	(−6·4)	(7)	(61)	(1031)
37·495	9605	·931	298·4	51·8	+23·4	6	26	238*c*
	9606	·367	45·9	333·4	+ 8·5	5	35	
G	9607	·985	107·9	267·3	−18·7	144	609	315*c*
		·830	59·5					391
		·961	64·9					255
Feb. 7			(−14·7)	(348·8)	(−6·5)	(155)	(670)	(1199)
38·345		·895	253·8					71
	9605	·977	297·3	50·5	+24·8	2	14	285*p*
	9606	·273	15·0	333·5	+ 8·8	17	83	
	9607	·935	107·6	267·6	−18·7	71	532	596*c*
C		·764	49·8					172
		·920	71·4					60
		·923	121·4					83
		·940	57·8					500
Feb. 8			(−15·0)	(337·6)	(−6·5)	(90)	(629)	(1767)

Group 9601. Jan. 31–Feb. 1. A single small spot.
Group 9602. Feb. 1–3. A pair of small distinct spots; the leader alone remains on Feb. 3.
Group 9603. Feb. 2–6. A short stream of small spots; the rear component alone appears after Feb. 3.
Group 9604. Feb. 3–5. A pair of tiny spots on Feb. 3; only the preceding spot is left on Feb. 4 and 5.
Group 9605. Feb. 5–8. A small unstable stream.
Group 9606. Feb. 7–14. A stream, roughly of normal type, in equatorial zones. The leader has become a regular spot by Feb. 9 and is the sole survivor on Feb. 14.
Group 9607. Feb. 7–19. A very large regular spot followed by faculæ in which occasional small companions subsequently appear. After Feb. 11 several "bridges" begin to intersect first the umbra and then the penumbra. The spot is disappearing rapidly after Feb. 17.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
39·404		·922	253·1					164
		·821	304·8					121
	9606	·340	320·7	336·1	+ 8·8	42	210	
G	9608	·884	48·0	272·9	+32·2	3	17	609*f*
	9607	·830	108·2	267·5	−18·7	68	475	682*f*
		·744	52·9					108
		·933	67·0					234
Feb. 9			(−15·4)	(323·6)	(−6·6)	(113)	(702)	(1918)
40·455		·986	252·8					85
		·904	299·8					197
		·816	314·8					123
	9606	·533	299·4	337·7	+ 9·3	38	297	
C	9608	·804	44·0	269·7	+30·2	9	39	530*f*
	9607	·685	110·5	267·3	−18·7	86	456	351*f*
		·831	64·6					170
		·956	63·4					820
Feb. 10			(−15·8)	(309·8)	(−6·6)	(133)	(792)	(2276)
41·450		·967	295·5					114
		·864	312·9					127
	9606	·703	290·3	338·4	+ 9·1	31	207	
	9608	·711	32·9	270·1	+30·6	1	13	507*f*
C	9607	·529	115·7	266·6	−19·0	71	548	
	9609	·885	67·9	238·4	+15·9	0	10	} 481*c*
	9610	·937	62·5	232·6	+22·8	1	8	
		·884	54·1					333
Feb. 11			(−16·1)	(296·7)	(−6·7)	(104)	(786)	(1562)
42·534		·925	306·5					77
		·813	234·7					105
	9606	·849	285·1	338·3	+ 9·1	41	215	210*c*
	955a	·850	297·3	335·2	+18·9	0	4	27*c*
	9611	·476	152·2	267·4	−31·3	13	39	
G	9608	·659	20·5	266·7	+31·5	5	14	352*f*
	9607	·339	130·6	266·7	−19·2	78	571	
	9609	·745	60·9	239·9	+16·3	3	8	} 377*c*
	9610	·844	56·9	232·3	+23·2	2	8	
		·803	46·5					413
Feb. 12			(−16·5)	(282·4)	(−6·7)	(142)	(859)	(1561)
43·325		·860	293·8					73
	9606	·934	282·5	339·2	+ 9·2	41	223	371*c*
	9607	·233	157·2	266·5	−19·1	87	529	
	9611	·423	166·9	265·6	−30·9	18	65	
C	9608	·661	17·6	258·4	+32·3	0	8	246*c*
1925.			°	°	°			
43·325	9609	·627	53·4	240·5	+16·2	2	4	} 287*c*
	9610	·761	51·2	232·0	+23·3	2	7	
C		·727	38·0					342
		·928	50·0					92
		·959	120·6					129
Feb. 13			(−16·8)	(272·0)	(−6·8)	(150)	(836)	(1540)
44·404		·959	290·2					84
		·767	314·6					162
		·764	301·4					180
	9606	·992	280·2	339·0	+ 9·1	23	157	339*f*
	955b	·481	321·6	275·8	+15·6	4	30	
C	9607	·261	213·4	266·5	−19·2	60	500	
	9611	·430	194·8	265·1	−31·2	30	170	
	9608	·639	355·0	261·6	+32·6	1	5	
	955c	·309	186·7	260·1	−24·6	1	10	
		·873	121·6					82
		·903	46·2					122
Feb. 14			(−17·2)	(257·8)	(−6·8)	(119)	(872)	(969)
45·365		·878	290·9					210
		·851	304·8					228
		·768	319·1					175
		·654	339·9					140
	9607	·408	237·1	266·4	−19·5	87	525	
C	9611	·513	214·3	264·9	−31·5	22	114	
	9609	·387	10·9	240·9	+15·3	8	26	
	9610	·542	27·2	229·8	+22·1	1	7	
		·934	109·4					102
		·976	66·9					97
		·979	56·4					65
Feb. 15			(−17·5)	(245·2)	(−6·9)	(118)	(672)	(1017)
46·406		·947	286·9					197
		·942	297·9					275
		·859	309·3					208
		·796	293·3					220
		·755	322·5					260
		·691	337·5					221
G	9607	·594	246·9	266·7	−19·2	72	438	
	9611	·629	226·3	263·6	−31·6	6	24	
	955d	·591	306·9	260·6	+14·7	5	15	
	9609	·420	335·0	242·1	+15·5	4	13	
		·900	113·7					55
		·924	53·0					117
		·935	65·9					245
Feb. 16			(−17·9)	(231·5)	(−6·9)	(87)	(490)	(1798)

Group 9608. Feb. 9–14. A considerable area of faculæ in which unstable spots are seen, usually in the preceding portion.
Group 9609. Feb. 11–16. Intermittent. A very small spot in the southern extremity of an extensive area of faculæ. The spot is not seen on Feb. 14, but a small transient stream comes in its place on the two following days.
Group 9610. Feb. 11–17. Intermittent. A small spot, not seen on Feb. 14 and 16, in the same disturbed area as Group 9609.
Group 9611. Feb. 12–18. An unstable stream on the same meridian as Groups 9607 and 9608.

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G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
47·321		·966	297·4					171
		·896	305·2					203
		·865	293·0					68
		·813	317·2					203
		·743	333·4					252
		·678	239·8					206
C	9607	·737	250·4	266·5	−19·2	44	404	365*c*
	9611	·713	232·4	260·5	−31·0	4	15	292*c*
	9610	·518	344·1	228·2	+22·9	2	7	
		·790	115·7					35
		·842	48·6					177
		·892	62·3					287
		·917	191·0					20
Feb. 17			(−18·2)	(219·4)	(−7·0)	(50)	(426)	(2279)
48·501		·952	299·9					113
		·951	291·5					72
		·902	308·5					283
		·856	319·3					185
		·848	243·4					126
G		·837	295·5					122
		·739	307·5					174
		·716	321·5					243
	9607	·887	251·9	266·9	−19·3	40	234	512*c*
	9611	·833	237·5	258·5	−30·7	1	4	281*p*
		·788	53·7					138
Feb. 18			(−18·5)	(203·9)	(−7·0)	(41)	(238)	(2249)
49·302		·950	306·1					430
		·929	239·0					356
		·928	294·0					184
		·904	314·9					210
		·902	245·0					171
C		·830	303·2					242
		·780	313·4					256
	9607	·952	252·0	266·5	−19·2	24	106	777*f*
	9612	·345	217·0	206·2	−22·7	25	100	
		·722	47·0					119
		·878	52·2					110
Feb. 19			(−18·8)	(193·3)	(−7·0)	(49)	(206)	(2855)
50·436		·986	238·1					204
		·973	247·5					558
		·962	295·1					126
		·949	309·3					226
G		·892	295·1					194
		·855	207·6					216
	9612	·508	235·7	205·4	−23·0	24	98	
	9613	·989	118·2	94·8	−28·8	0	39	85*c*
Feb. 20			(−19·1)	(178·4)	(−7·1)	(24)	(137)	(1609)
1925.			°	°	°			
51·431		·976	291·8					108
		·968	306·6					137
G		·931	296·6					159
	9612	·659	244·0	205·0	−22·3	12	61	
	9613	·948	118·4	92·9	−29·1	0	22	175*c*
Feb. 21			(−19·4)	(165·3)	(−7·1)	(12)	(83)	(579)
52·395		·986	294·9					216
	9612	·795	247·0	204·7	−22·4	6	23	194*c*
C		·860	119·5					165
		·982	62·1					60
Feb. 22			(−19·7)	(152·6)	(−7·1)	(6)	(23)	(635)
53·352	9612	·895	249·2	204·0	−21·8	2	9	171*p*
	955e	·711	314·4	173·6	+23·9	1	5	
C	*955f*	·388	231·8	158·9	−20·5	2	6	
		·751	123·1					112
		·935	60·0					156
Feb. 23			(−20·0)	(140·0)	(−7·1)	(5)	(20)	(439)
54·335		·978	247·7					226
		·811	305·5					164
C	*955g*	·867	59·0	73·7	+22·3	3	13	63*c*
Feb. 24			(−20·3)	(127·0)	(−7·2)	(3)	(13)	(453)
55·397		·902	297·9					112
G		·930	60·2					123
Feb. 25			(−20·6)	(113·0)	(−7·2)	(0)	(0)	(235)
56·402		·967	293·9					135
G		·884	302·5					159
		·889	56·7					105
Feb. 26			(−20·9)	(99·8)	(−7·2)	(0)	(0)	(399)
57·393		·916	294·9					172
G								
Feb. 27			(−21·1)	(86·8)	(−7·2)	(0)	(0)	(172)
58·427	9614	·322	179·6	73·0	−25·9	3	14	
	955h	·573	0·4	72·7	+27·6	1	3	
G	*955i*	·537	2·9	72·0	+25·1	1	2	
Feb. 28			(−21·4)	(73·1)	(−7·2)	(5)	(19)	(0)
59·364	9614	·405	217·1	76·5	−25·7	12	78	
C	*955j*	·599	342·0	72·8	+27·5	2	21	
		·983	81·0					128
Mar. 1			(−21·6)	(60·8)	(−7·2)	(14)	(99)	(128)

Group 9612. Feb. 19–23. A cluster of a few unstable spots of some importance on Feb. 19 and 20.
Group 9613. Feb. 20–21. One or two ephemeral spots.
Group 9614. Feb. 28–Mar. 5. A stream of normal type in miniature and of brief duration.

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G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
60·337		·976	288·1					72
	9614	·533	231·3	75·4	−25·8	11	44	
C	*955k*	·533	113·7	17·2	−18·6	2	16	
		·935	54·3					113
		·939	79·9					264
Mar. 2			(−21·9)	(48·0)	(−7·2)	(13)	(60)	(449)
61·329		·887	294·7					80
		·846	239·5					90
C		·731	315·2					106
	9614	·687	239·0	75·8	−26·2	4	22	
		·836	74·3					176
Mar. 3			(−22·1)	(34·9)	(−7·2)	(4)	(22)	(452)
62·419		·933	240·7					89
	9614	·848	243·6	78·0	−26·1	2	10	214*f*
G	*955l*	·867	302·0	73·4	+23·1	0	6	150*c*
		·719	70·0					178
		·956	67·7					154
Mar. 4			(−22·4)	(20·5)	(−7·2)	(2)	(16)	(785)
63·552		·962	297·0					126
	9614	·946	244·5	77·6	−26·4	0	6	182*f*
		·930	67·6					167
C		·948	107·2					91
		·971	59·2					111
Mar. 5			(−22·6)	(5·6)	(−7·2)	(0)	(6)	(677)
64·565		·983	243·4					74
		·912	301·9					137
C		·905	57·5					181
		·973	108·9					172
Mar. 6			(−22·9)	(352·3)	(−7·3)	(0)	(0)	(564)
65·471		·944	301·5					227
		·826	55·2					295
		·910	107·2					469
G		·957	56·1					138
		·972	111·2					385
		·972	123·7					79
Mar. 7			(−23·1)	(340·3)	(−7·3)	(0)	(0)	(1593)
66·369		·737	50·7					200
		·804	108·9					299
		·888	53·0					122
G		·912	111·7					267
		·935	123·7					135
		·978	55·2					89
Mar. 8			(−23·3)	(328·5)	(−7·2)	(0)	(0)	(1112)
1925.			°	°	°			
67·391		·876	307·0					50
		·873	252·0					105
		·681	109·9					154
		·775	47·2					179
G		·787	112·5					324
		·868	127·0					124
		·883	61·2					109
		·926	48·3					198
Mar. 9			(−23·5)	(315·0)	(−7·2)	(0)	(0)	(1243)
68·435		·952	294·9					79
		·949	257·3					110
G		·844	40·1					100
		·930	48·7					225
		·943	60·7					207
Mar. 10			(−23·7)	(301·3)	(−7·2)	(0)	(0)	(721)
69·490		·850	286·7					152
	9615	·966	108·7	211·0	−19·9	23	129	143*c*
C		·859	46·3					220*c*
		·901	60·1					320
Mar. 11			(−23·9)	(287·4)	(−7·2)	(23)	(129)	(835)
70·391		·907	281·8					217
	9615	·869	109·5	214·8	−20·4	45	208	144*c*
G		·810	38·4					143
		·828	54·5					290
		·990	65·1					298
Mar. 12			(−24·0)	(275·5)	(−7·2)	(45)	(208)	(1092)
71·411		·731	30·2					261
	9615	·728	112·4	216·0	−21·1	73	400	182*c*
G	*956a*	·941	61·5	197·6	+23·7	0	10	332*c*
		·738	44·6					313
Mar. 13			(−24·2)	(262·0)	(−7·2)	(73)	(410)	(1088)
72·404		·857	291·6					58
		·780	312·6					91
G	9615	·564	115·3	216·3	−20·0	64	401	
		·836	53·2					197
Mar. 14			(−24·4)	(249·0)	(−7·2)	(64)	(401)	(346)
73·454		·936	291·7					98
		·904	182·6					75
		·897	305·3					236
G	9615	·375	132·4	217·9	−21·4	61	398	
		·747	46·6					366
		·922	61·8					139
Mar. 15			(−24·6)	(235·1)	(−7·2)	(61)	(398)	(914)

Group 9615. Mar. 11–23. A conspicuous stream of spots just forming when photographed at the east limb on Mar. 11. The leader first develops as a regular spot and is fully formed by Mar. 13. On the next day, a penumbral spot of half the size has appeared closely following it, and the two have coalesced by Mar. 16. After regaining nearly a regular outline, a small portion of the joint spot detaches itself from the *f* side on Mar. 20, after which it again assumes a regular appearance. The other spots of the stream are relatively insignificant and have all died out by Mar. 20. The axis of the stream is inclined about 16° to the equator, the leader having the higher latitude, which is contrary to the usual direction.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
74·400		·964	300·3					181
		·857	304·9					84
G	9615	·266	162·9	217·8	−21·7	49	358	
		·848	57·7					143
Mar. 16			(−24·7)	(222·6)	(−7·1)	(49)	(358)	(408)
75·527		·925	303·1					113
		·898	251·1					202
G		·766	242·3					267
	9616	·713	302·1	246·8	+16·8	4	14	
	9615	·300	209·5	216·9	−22·1	49	304	
Mar. 17			(−24·9)	(207·8)	(−7·1)	(53)	(318)	(582)
76·396		·960	251·4					220
		·941	299·4					134
		·888	314·7					140
G		·861	245·6					393
	9616	·794	297·5	243·5	+16·8	1	6	50*p*
	9617	·579	219·7	222·3	−32·7	3	15	
	9615	·415	230·6	216·4	−21·9	41	258	
Mar. 18			(−25·0)	(196·3)	(−7·1)	(45)	(279)	(937)
77·332		·940	234·1					72
		·937	245·1					460
		·873	317·5					204
		·827	304·4					124
C		·734	324·3					103
	9616	·895	294·0	243·0	+17·8	2	7	105*c*
	9617	·659	230·3	219·9	−30·5	7	34	
	9615	·560	240·9	215·6	−21·7	39	300	
Mar. 19			(−25·1)	(184·0)	(−7·0)	(48)	(341)	(1068)
78·584		·984	288·9					74
		·958	245·4					139
		·923	299·1					147
C		·877	312·3					134
	9617	·828	238·5	221·7	−29·8	0	4	118*f*
	9615	·753	246·8	215·6	−22·0	29	224	106*c*
		·951	115·6					338
Mar. 20			(−25·3)	(167·5)	(−7·0)	(29)	(228)	(1056)
79·309		·963	296·0					139
		·931	310·8					227
		·785	309·4					165
C	9617	·888	241·1	220·2	−28·8	0	10	183*sf*
	9615	·844	248·0	215·5	−22·3	32	228	273*f*
		·893	115·6					340
Mar. 21			(−25·4)	(157·9)	(−7·0)	(32)	(238)	(1327)
1925.			°	°	°			
80·494		·969	306·3					141
		·946	352·6					26
		·881	303·1					320
	9617	·973	240·3	220·4	−30·4	23	113	252*c*
G	9615	·952	248·7	215·6	−22·4	27	182	354*f*
		·748	119·4					204
		·940	117·7					71
		·953	63·4					214
Mar. 22			(−25·5)	(142·3)	(−6·9)	(50)	(295)	(1582)
81·470		·943	301·3					266
		·781	314·2					166
	9615	·994	248·4	215·1	−22·1	44	193	463*f*
	9618	·725	53·8	91·1	+19·9	4	12	32*c*
G	9619	·844	59·4	78·4	+21·1	8	26	258*f*
		·648	123·4					191
		·875	119·4					45
		·929	64·6					51
Mar. 23			(−25·6)	(129·4)	(−6·9)	(56)	(231)	(1472)
82·476		·863	299·2					203
	956b	·554	344·1	125·8	+25·3	1	3	
G	9618	·608	43·9	89·7	+19·7	2	9	
	9619	·717	51·6	79·4	+20·9	7	14	201*f*
		·840	61·0					75
Mar. 24			(−25·7)	(116·2)	(−6·9)	(10)	(26)	(479)
83·517		·939	296·4					276
G	9618	·488	22·2	91·1	+20·1	22	65	
	9619	·580	38·0	80·0	+20·8	8	28	
Mar. 25			(−25·8)	(102·4)	(−6·8)	(30)	(93)	(276)
84·328		·860	301·0					13
	956c	·981	294·5	166·5	+22·4	13	121	214*c*
	9618	·453	0·9	91·4	+20·0	37	176	
C	*956d*	·376	168·4	86·9	−28·3	0	5	
	9619	·488	21·5	80·9	+20·2	5	14	
		·927	50·3					36
Mar. 26			(−25·9)	(91·8)	(−6·8)	(55)	(316)	(263)
85·329	9618	·502	332·9	92·6	+19·9	65	416	
C	9619	·459	1·2	78·0	+20·5	2	12	
	956e	·497	27·8	64·4	+19·5	0	5	
Mar. 27			(−26·0)	(78·6)	(−6·7)	(67)	(433)	(0)

Group 9616. Mar. 17–19. A pair of small spots.
Group 9617. Mar. 18–22. A stream of tiny spots appearing nearly on the same meridian as Group 9615. The stream is represented only by one small spot on Mar. 21, but apparently a new group is developing as the disturbed area passes from sight round the west limb.
Group 9618. Mar. 23–April 1. A stream of some importance which develops from one or two tiny spots seen first on Mar. 23 and 24. The components of the stream are in continual change and are not suitable for individual measurement.
Group 9619. Mar. 23–30. A very small but definite spot with a companion following until Mar. 25. No spots are seen on Mar. 29.
Group *956c*. Mar. 26. This group, forming close to the west limb, consists of two spots, which suggest a disturbance of more than ephemeral character. The region is marked in the following rotation by conspicuous faculæ, in which Group 9629 afterwards is seen.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
86·498	9618	·638	312·7	92·9	+19·8	90	459	
G	9619	·514	331·4	78·2	+20·2	1	5	
		·974	74·7					106
Mar. 28			(−26·1)	(63·1)	(−6·7)	(91)	(464)	(106)
87·357		·927	297·3					86
C	9618	·749	304·7	92·7	+20·2	80	533	
		·914	71·7					126
Mar. 29			(−26·1)	(51·8)	(−6·6)	(80)	(533)	(212)
88·353		·797	240·7					241
	9618	·861	299·0	92·2	+20·8	67	551	475*c*
C	9619	·744	304·6	79·2	+19·9	0	4	96*f*
		·827	71·8					149
Mar. 30			(−26·2)	(38·7)	(−6·6)	(67)	(555)	(961)
89·324		·889	242·6					318
		·858	299·5					90
C		·789	307·4					62
	9618	·939	295·2	91·2	+21·0	94	705	545*c*
		·933	73·6					20
Mar. 31			(−26·2)	(25·9)	(−6·5)	(94)	(705)	(1035)
90·354		·954	294·5					152
		·951	241·0					245
C		·881	302·3					114
	9618	·986	292·7	89·2	+21·1	58	429	476*c*
Apr. 1			(−26·3)	(12·3)	(−6·5)	(58)	(429)	(987)
91·334		·930	297·3					119
	9620	·973	122·4	281·6	−32·9	17	109	241*f*
C		·964	60·3					242
Apr. 2			(−26·3)	(359·3)	(−6·4)	(17)	(109)	(602)
92·467		·954	292·6					54
	9620	·904	123·6	280·8	−33·0	12	89	270*f*
G		·911	57·2					211
		·921	107·1					126
Apr. 3			(−26·4)	(344·4)	(−6·4)	(12)	(89)	(661)
93·318	9620	·827	126·0	280·5	−33·0	7	33	216*f*
	9621	·946	70·8	265·2	+15·9	2	9	223*f*
		·827	54·2					144
C		·831	107·5					126
		·950	112·0					147
Apr. 4			(−26·4)	(333·2)	(−6·3)	(9)	(42)	(856)
1925.			°	°	°			
94·508	9620	·695	132·0	279·8	−32·6	6	28	138*f*
	9621	·839	66·8	264·5	+15·6	13	47	228*c*
		·842	114·3					116
G		·939	118·4					158
		·951	66·9					141
Apr. 5			(−26·4)	(317·5)	(−6·2)	(19)	(75)	(781)
95·532		·946	296·5					109
	9620	·575	141·5	278·9	−32·3	2	7	
	9621	·698	59·8	265·3	+15·6	11	43	
		·753	112·8					125
		·807	131·2					50
G		·847	63·6					113
		·887	122·9					158
		·975	67·4					53
		·988	120·2					104
		·991	57·6					148
Apr. 6			(−26·4)	(303·9)	(−6·2)	(13)	(50)	(860)
96·346	9621	·573	50·6	265·9	+15·9	8	40	
	9622	·962	55·3	226·1	+31·0	8	37	260*f*
	9623	·978	112·2	213·9	−23·0	19	70	143*f*
C		·808	60·6					184
		·923	64·6					169
		·957	121·9					289
Apr. 7			(−26·4)	(293·2)	(−6·1)	(35)	(147)	(1045)
97·155		·950	285·0					60
		·843	300·6					91
	9621	·462	34·1	266·9	+16·5	4	24	
	9622	·916	52·2	225·2	+30·9	14	46	304*f*
K	9623	·934	112·1	213·0	−22·7	19	90	285*f*
		·860	60·8					116
		·917	123·4					278
		·926	104·8					68
Apr. 8			(−26·4)	(282·5)	(−6·1)	(37)	(160)	(1202)
98·332		·942	294·1					88
	9621	·371	0·5	266·8	+15·6	0	9	
	9624	·252	135·2	256·4	−16·2	1	3	
	9625	·683	49·8	233·1	+21·1	5	12	
C	9622	·822	45·4	224·2	+30·8	7	57	242*f*
	9623	·816	113·8	213·1	−22·8	12	88	210*f*
		·813	127·0					242
		·920	57·8					89
		·948	45·6					152
Apr. 9			(−26·4)	(267·0)	(−6·0)	(25)	(169)	(1023)

Group 9620. April 2–6. A small regular spot rapidly diminishing to extinction.
Group 9621. April 4–11. A stream of small, faint, unstable spots. None are visible on April 10.
Group 9622. April 7–13. A regular spot dying out.
Group 9623. April 7–15. Return of Group 9615. Intermittent. A regular spot which has disappeared by April 12. A very small ephemeral spot is near its place on April 15.
Group 9624. April 9–10. One or two small short-lived spots.
Group 9625. April 9–17. A wide pair of small spots on April 9 developing into a stream with composite leader spot and insignificant train. The axis of the group is inclined nearly 25° to the equator.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
99·619	9626	·537	303·8	277·0	+12·1	7	20	
	9624	·212	221·2	258·3	−15·0	2	6	
	9625	·538	31·5	232·5	+21·5	33	182	
	9622	·710	33·2	223·1	+31·0	8	48	180*f*
G	9623	·634	119·2	213·3	−22·7	10	45	
	9627	·879	60·7	194·3	+22·2	1	10	72*c*
		·899	44·2					174
		·942	186·7					22
		·969	68·9					306
Apr. 10			(−26·4)	(250·0)	(−5·9)	(61)	(311)	(754)
100·360		·893	296·9					60
		·814	307·4					108
	9626	·659	295·3	277·5	+11·7	26	57	
	9621	·540	313·3	264·3	+16·4	0	8	
	9625	·482	15·3	232·4	+21·8	51	237	
G	9622	·650	23·7	222·5	+30·9	10	38	
	9623	·517	125·7	213·2	−22·7	9	39	
	9627	·779	56·7	196·1	+21·1	16	87	141*c*
	957a	·939	63·8	175·0	+22·1	0	4	520*c*
		·825	35·5					97
		·927	50·2					73
Apr. 11			(−26·3)	(240·2)	(−5·8)	(112)	(470)	(999)
101·356		·897	301·2					178
		·745	226·0					198
		·714	301·0					187
	9626	·816	288·4	279·1	+11·3	19	87	110*c*
	9625	·474	347·7	233·3	+21·7	79	355	
G	9622	·604	7·4	221·9	+30·9	9	18	
	9623	·373	142·7	213·0	−22·8	1	13	
	9627	·644	47·3	196·8	+20·8	20	110	137*f*
	9628	·987	70·3	149·2	+18·3	3	12	145*s f*
		·846	60·5					368
		·929	62·6					324
Apr. 12			(−26·3)	(227·1)	(−5·8)	(131)	(595)	(1647)
102·378		·958	299·1					162
		·873	232·1					224
		·861	250·1					102
		·847	294·1					184
	9626	·926	284·7	279·3	+11·3	1	22	203*c*
	9625	·562	323·1	234·7	+21·3	63	339	
G	9622	·606	348·7	221·5	+30·6	2	14	
	9627	·517	31·7	196·8	+20·5	20	89	
	9628	·924	67·7	149·8	+18·0	9	18	370*f*
		·731	51·5					265
		·854	57·6					408
		·920	171·1					26
Apr. 13			(−26·3)	(213·6	(−5·7)	(95)	(482)	(1944)
1925.			°	°	°			
103·390		·976	283·4					137
		·947	250·3					169
		·939	234·7					176
		·931	290·7					201
		·800	300·0					188
G	*957b*	·818	248·5	254·5	−20·8	2	6	191*c*
	9625	·683	309·0	234·6	+20·8	73	401	
	9627	·446	7·8	196·5	+20·5	17	87	
	9628	·821	63·6	149·8	+17·8	7	16	315*f*
		·766	49·7					128
Apr. 14			(−26·2)	(200·2)	(−5·6)	(99)	(510)	(1505)
104·333		·978	235·8					169
		·976	289·0					94
		·917	249·9					300
		·899	294·4					149
		·738	320·6					179
C	9625	·809	300·8	235·6	+20·8	67	425	240*c*
	9623	·493	226·8	211·0	−24·7	0	5	
	9627	·459	342·8	196·1	+20·5	18	68	
	9629	·562	37·3	166·4	+21·4	18	47	
	9628	·698	57·4	149·8	+17·7	6	16	201*f*
		·984	59·6					85
Apr. 15			(−26·2)	(187·8)	(−5·5)	(109)	(561)	(1417)
105·499		·990	247·5					209
		·906	240·3					174
		·828	314·6					148
	9625	·924	294·7	235·7	+20·4	41	300	649*f*
	9627	·570	319·3	195·7	+20·6	4	31	
	9629	·454	6·8	169·1	+21·3	6	21	
G	9628	·540	48·3	147·7	+16·1	11	28	
		·917	165·4					7
		·932	56·1					75
		·941	178·5					52
		·956	114·7					102
		·983	67·3					471
Apr. 16			(−26·1)	(172·4)	(−5·4)	(62)	(380)	(1887)
106·412		·890	311·2					251
		·875	239·0					140
		·867	323·0					84
		·759	234·6					239
	9625	·980	292·2	235·6	+20·4	39	315	598*f*
	9627	·682	308·0	195·1	+20·4	4	20	
G	9629	·474	344·0	168·3	+21·7	8	18	
	9628	·425	26·8	148·8	+16·9	2	10	
	9630	·984	70·5	83·2	+18·0	5	22	50*f*
	9631	·979	114·4	81·0	−25·1	62	362	472*c*
		·938	65·2					688
Apr. 17			(−26·0)	(160·3)	(−5·4)	(120)	(747)	(2522)

Group 9626. April 10–13. A small stream of brief duration.
Group 9627. April 10–18. Two tiny spots on April 10. The leader suddenly enlarges to a regular spot which, after reaching a maximum on April 12, declines to a dot by April 18. The following spot fails to develop.
Group 9628. April 12–17. A small distinct spot followed by faculæ in which a few small companion spots appear on April 16 and 17.
Group 9629. April 15–20. A wide pair of spots with small attendants on April 19 and 20. Revival of a spot *956c* seen close to the west limb on Mar. 26.
Group 9630. April 17–21. Possibly a return of Group 9618, but more probably a new outburst as evidenced by the faculæ which follows the spot.
Group 9631. April 17–27. A moderate-sized group consisting of two clusters of rapidly changing spots. The preceding cluster is alone represented after April 22 by faint spots in diminishing numbers.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures.		Position.		Area.		
		Dist.	Pos. Angle.	Long.	Lat.	Umbræ.	Whole Spots.	Faculæ.
1925.			°	°	°			
107·328		·993	296·2					496
		·938	240·1					126
		·934	307·9					229
		·886	254·2					54
		·864	234·0					104
		·862	320·8					92
C		·854	245·0					131
	9627	·799	301·4	194·9	+20·9	7	15	133*f*
	9629	·546	325·8	167·4	+21·7	7	17	
	9630	·934	68·0	82·6	+18·3	10	25	182*f*
	9631	·931	114·9	79·6	−25·1	77	506	947*c*
		·882	61·1					870
Apr. 18			(−26·0)	(148·2)	(−5·3)	(101)	(563)	(3364)
108·428		·947	245·9					348
		·944	234·3					82
		·907	297·2					228
		·889	319·1					119
		·821	308·7					82
		·768	306·5					172
G	9629	·665	310·5	166·4	+21·1	15	48	
	9632	·592	43·4	108·0	+20·8	7	32	
	9630	·828	63·7	82·5	+18·3	8	18	138*f*
	9631	·824	117·1	79·8	−25·1	64	399	496*c*
	9633	·952	71·3	64·2	+16·0	13	56	373*f*
		·795	55·6					571
		·941	62·1					137
Apr. 19			(−25·9)	(133·7)	(−5·2)	(107)	(553)	(2746)
109·359		·967	294·8					214
		·950	309·0					237
	9629	·789	301·9	167·1	+21·1	8	19	362*p*
G	9632	·480	26·3	108·3	+20·4	13	40	
	9630	·712	57·8	82·2	+18·3	5	10	142*f*
	9631	·692	121·0	80·8	−24·7	29	238	376*c*
	9633	·871	68·6	64·2	+15·8	8	24	318*f*
Apr. 20			(−25·8)	(121·4)	(−5·1)	(63)	(331)	(1649)
110·410		·928	246·1					52
		·901	299·1					633
	9632	·433	358·3	108·3	+20·5	7	25	
	9634	·562	25·1	92·2	+25·7	2	10	
G	9630	·564	46·7	82·0	+18·2	1	5	
	9631	·534	129·5	80·8	−24·3	16	112	
	9633	·748	63·4	63·6	+15·9	8	15	168*f*
		·825	52·0					59
		·871	34·5					23
Apr. 21			(−25·7)	(107·5)	(−5·0)	(34)	(167)	(935)
1925.			°	°	°			
111·611		·961	296·1					373
		·842	295·7					266
	9632	·499	330·4	106·8	+20·8	9	33	
G	*957c*	·454	355·5	93·8	+21·9	2	23	
	9634	·505	357·1	93·2	+25·2	21	76	
	9631	·358	151·1	80·8	−23·0	2	34	
	9633	·577	53·2	63·0	+15·9	7	14	
Apr. 22			(−25·5)	(91·6)	(−4·9)	(41)	(180)	(639)
112·639		·915	294·0					237
	9632	·632	311·0	108·5	+20·3	0	11	
	9634	·553	343·2	88·4	+27·1	49	194	
G	9631	·335	191·2	82·2	−23·9	2	33	
	9633	·428	35·8	63·1	+15·6	2	6	
Apr. 23			(−25·4)	(78·1)	(−4·8)	(53)	(244)	(237)
113·351		·960	291·7					253
	9632	·724	303·2	108·6	+19·6	10	34	134*c*
	9634	·602	330·4	88·1	+26·9	41	275	
	9631	·394	213·9	82·5	−23·7	4	29	
G	*957d*	·407	337·3	78·1	+17·3	1	15	
	9633	·358	15·4	63·1	+15·3	1	5	
		·908	63·5					52
		·945	74·7					118
Apr. 24			(−25·3)	(68·7)	(−4·8)	(57)	(358)	(557)
114·351	9632	·841	297·2	107·8	+19·7	9	30	250*c*
	9634	·705	316·8	88·0	+26·9	52	271	332*c*
G	9631	·526	231·6	81·9	−23·2	0	6	
	9635	·542	115·3	24·6	−17·4	2	5	
		·950	119·7					123
Apr. 25			(−25·2)	(55·4)	(−4·7)	(63)	(312)	(705)
115·303		·848	299·5					292
		·821	242·7					96
	9632	·949	292·5	111·2	+19·6	0	8	420*c*
	9634	·812	308·3	88·4	+26·9	28	185	396*c*
G	9631	·670	238·2	81·4	−24·3	1	11	
	9635	·385	126·2	24·0	−17·5	5	18	
		·895	122·2					117
		·960	110·7					215
Apr. 26			(−25·1)	(42·9)	(−4·6)	(34)	(222)	(1536)

Group 9632. April 19–26. A short stream of very small spots.
Group 9633. April 19–24. A small distinct spot, with a close companion on April 22, leading a small tract of faculæ.
Group 9634. April 21–28. A revival of spot activity in the northern part of a conspicuous area of faculæ seen near the east limb from April 17 to 19, and evidently associated with Group 9618 of the previous rotation. A stream of spots with the chief development in the following components. On April 23 the stream contains three regular spots in a line; the preceding two spots are only partially developed.
Group 9635. April 25–28. A few very small spots.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
116·572		·977	292·7					205
		·934	296·2					192
		·825	294·3					69
	9634	·926	301·5	88·2	+26·9	17	97	334c
G	9631	·851	243·0	82·8	−25·1	0	3	430f
	9635	·232	169·2	23·5	−17·6	4	21	
		·798	127·7					92
		·842	112·1					92
Apr. 27			(−24·9)	(26·1)	(−4·5)	(21)	(121)	(1414)
117·488		·982	294·7					332
		·924	290·3					101
		·894	242·9					507
G		·768	296·9					182
	9634	·981	298·3	88·8	+26·6	23	85	425c
	9635	·287	216·1	24·2	−17·7	4	11	
		·923	71·1					101
Apr. 28			(−24·7)	(14·0)	(−4·4)	(27)	(96)	(1648)
118·405		·979	288·6					89
		·952	243·5					515
		·884	292·8					267
G	9636	·642	294·0	38·5	+11·6	8	26	
		·947	57·6					72
		·967	75·0					81
Apr. 29			(−24·6)	(1·9)	(−4·3)	(8)	(26)	(1024)
119·377		·982	242·0					150
		·950	291·2					174
	9636	·779	288·4	37·8	+11·5	4	13	129c
G	9637	·982	73·2	271·8	+15·6	118	842	503c
		·894	72·9					186
		·941	105·2					99
		·944	59·8					174
Apr. 30			(−24·4)	(349·0)	(−4·2)	(122)	(855)	(1415)
120·613		·917	283·6					110
	9637	·901	70·5	271·1	+15·6	149	883	637c
G		·835	58·3					130
		·934	56·4					224
May 1			(−24·2)	(332·7)	(−4·1)	(149)	(883)	(1101)
121·405		·974	282·5					61
		·887	253·7					113
	9637	·817	67·5	270·8	+15·7	135	799	362c
		·693	54·2					92
G		·826	53·3					191
		·876	127·8					115
		·944	114·0					175
		·951	51·9					142
		·977	70·0					53
May 2			(−24·1)	(322·2)	(−4·0)	(135)	(799)	(1304)
1925.			°	°	°			
122·358		·976	253·7					225
	958a	·670	45·2	278·2	+24·7	5	13	
	9637	·686	61·7	270·9	+15·9	111	719	
C	9638	·977	68·2	234·5	+20·3	5	23	153f
		·881	116·6					350
		·899	67·2					145
		·909	49·7					158
May 3			(−23·9)	(309·6)	(−3·9)	(121)	(755)	(1031)
123·637	9639	·897	243·1	355·0	−25·7	1	9	70f
	9637	·483	45·9	271·6	+16·1	134	725	
G	9638	·888	64·4	234·1	+20·6	6	20	133f
		·781	43·1					111
		·931	57·3					90
May 4			(−23·7)	(292·7)	(−3·7	(141)	(754)	(404)
124·378	9639	·952	243·9	354·5	−25·9	0	10	114c
	9637	·385	30·3	271·3	+15·6	104	700	
C	9638	·816	61·1	233·3	+20·8	5	13	249c
		·904	55·1					226
		·943	118·5					289
May 5			(−23·5)	(282·9)	(−3·7)	(109)	(723)	(878)
125·357		·935	237·9					85
	9637	·330	354·7	271·8	+15·5	143	792	
	9638	·680	54·1	234·1	+20·5	1	6	239f
G		·870	121·9					130
		·965	53·7					56
		·970	64·1					113
May 6			(−23·3)	(270·0)	(−3·6)	(144)	(798)	(623)
126·371		·959	236·9					97
		·910	246·4					100
	9637	·413	321·9	271·9	+15·6	111	823	
	9638	·533	41·5	234·6	+20·3	2	11	
G		·786	125·7					95
		·892	61·4					104
		·917	49·7					145
		·995	67·3					321
May 7			(−23·1)	(256·6)	(−3·4)	(113)	(834)	(862)
127·636	9637	·604	301·6	271·9	+15·6	94	687	
	9638	·429	16·6	232·3	+20·9	2	44	
	9640	·939	107·7	170·1	−17·7	0	6	315f
G		·810	52·0					48
		·911	63·6					155
		·923	44·2					108
May 8			(−22·8)	(239·8)	(−3·3)	(96)	(737)	(626)

Group 9636. April 29–30. A stream in miniature on April 29 of which only one of the spots remains on the following day.
Group 9637. April 30–May 12. An important group (visible to the naked eye), which consists of a very large regular spot followed by a relatively insignificant train, of which the following component can be traced until May 9.
Group 9638. May 3–11. Return of Group 9625. A small but persistent spot with a small companion on May 5, 8 and 9.
Group 9639. May 4–5. A feeble disturbance shown by a tiny spot and small accompanying faculæ.
Group 9640. May 8–19. A stream in which the components show little stability until May 15, when two partially developed regular spots continue for a few days to represent the leading and following parts of the disturbance.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures.		Position.		Area.		
		Dist.	Pos. Angle.	Long.	Lat.	Umbræ.	Whole Spots.	Faculæ.
1925.			°	°	°			
128·355		·948	313·0					33
		·765	311·8					142
	9637	·713	296·2	271·8	+15·9	107	804	
	9638	·407	354·6	232·6	+20·6	5	25	
G	9641	·704	44·5	196·7	+27·3	0	1	
	9640	·904	110·0	166·3	−19·4	10	76	244*c*
		·844	60·8					292
		·938	45·6					136
		·944	63·2					135
May 9			(−22·6)	(230·3)	(−3·2)	(122)	(906)	(982)
129·307		·951	284·8					32
		·943	298·6					115
		·849	306·6					111
	9637	·838	290·9	271·8	+15·6	114	613	376*f*
G	9638	·479	329·5	232·8	+21·2	1	12	
	9641	·594	32·8	196·6	+26·9	8	25	
	9640	·812	112·4	164·9	−19·9	25	127	143*c*
		·751	51·3					110
		·906	63·5					320
May 10			(−22·4)	(217·7)	(−3·1)	(148)	(77)	(1207)
130·348		·891	305·7					207
	9637	·941	287·9	272·2	+15·6	107	566	524*f*
	9638	·611	312·1	233·0	+21·4	2	10	
	958b	·296	225·3	216·5	−14·9	1	4	
G	9641	·521	14·0	195·9	+27·2	6	31	
	9640	·675	116·0	164·1	−19·5	19	75	
		·811	52·1					143
		·901	65·3					121
		·976	73·1					40
May 11			(−22·1)	(204·0)	(−3·0)	(135)	(686)	(1035)
131·353		·946	303·5					239
		·793	292·0					55
		·748	302·3					68
	9637	·992	286·3	272·0	+15·7	118	562	434*f*
G	*958c*	·753	313·1	229·3	+28·6	0	2	
	9641	·518	351·5	195·6	+27·9	0	5	
	9640	·478	124·9	166·4	−18·4	20	82	
	9642	·982	70·7	113·5	+18·3	31	114	164*f*
		·911	68·2					148
May 12			(−21·9)	(190·7)	(−2·9)	(169)	(765)	(1108)
132·289		·954	303·9					128
		·872	293·1					164
G		·810	307·9					143
1925.			°	°	°			
132·289	*958d*	·672	300·3	215·6	+17·6	1	4	
	9640	·336	143·7	166·3	−18·3	15	76	
G	9642	·930	68·9	112·4	+18·4	34	258	123*c*
		·850	65·6					137
		·980	62·3					138
May 13			(−21·7)	(178·3)	(−2·8)	(50)	(338)	(833)
133·359		·957	291·5					143
		·895	303·9					205
		·799	252·7					51
	9640	·282	186·4	166·1	−18·9	21	147	
G	9642	·822	65·0	112·6	+18·6	37	282	297*c*
	9643	·889	60·0	106·3	+24·9	6	25	152*f*
		·946	114·0					128
		·968	61·8					229
May 14			(−21·4)	(164·2)	(−2·7)	(64)	(454)	(1205)
134·363		·941	296·1					213
		·876	238·2					115
		·798	308·8					252
	958e	·510	234·3	176·9	−19·6	3	23	
	9640	·384	222·6	166·8	−18·8	26	120	
G	*958f*	·333	197·2	156·9	−21·1	1	4	
	9642	·680	58·5	113·3	+18·7	36	297	
	9643	·817	54·8	102·9	+26·3	15	112	96*c*
		·918	116·5					198
		·929	59·4					526
		·982	71·5					116
May 15			(−21·1)	(150·9)	(−2·6)	(81)	(556)	(1516)
135·380		·964	252·8					104
		·943	238·3					149
		·879	307·8					258
		·732	302·9					156
	9644	·865	253·2	196·5	−15·7	9	34	72*c*
	9640	·543	237·4	166·2	−19·0	25	124	
	9645	·588	0·8	136·8	+33·5	5	19	
	9642	·521	46·2	114·1	+18·9	51	235	
G	9646	·564	41·8	113·5	+22·5	0	5	
	9643	·680	47·0	104·1	+25·5	5	32	
	9647	·677	118·0	98·0	−20·3	1	3	
		·819	53·6					230
		·863	120·4					319
		·916	55·6					256
		·940	69·2					180
		·967	123·3					141
		·985	70·7					54
May 16			(−20·8)	(137·4)	(−2·4)	(96)	(452)	(1919)

Group 9641. May 9–12. A few small spots in a short stream.
Group 9642. May 12–23. A stream of spots with abnormal changes in the leader, evidently of recent origin when first seen at the east limb. On May 14 the leader spot shows a small secondary umbra; on the following day the spot with its double umbra has lengthened in the direction of longitude, whilst a complete division into two components has taken place on May 16. These separate, but the following component rapidly dwindles, and the preceding one subsequently shows a sudden decrease between May 22 and 23.
Group 9643. May 14–22. An unstable stream of small and generally faint spots *nf* Group 9642. The axis of the stream is inclined 30° to the equator.
Group 9644. May 16–17. A diminutive stream near the west limb.
Group 9645. May 16–22. A stream in high latitude of normal development. The leader on May 18 appears to be almost divided into two equal portions by a bright "bridge" traversing the spot in an easterly and westerly direction.
Group 9646. May 16–17. A very small outlying spot *n* Group 9642.
Group 9647. May 16–21. One or two spots marking a disturbed region.

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G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
136·332		·976	243·7					68
		·950	301·7					250
		·836	300·1					230
	9644	·961	254·1	198·5	−15·9	2	5	156*f*
	9640	·695	244·4	166·2	−19·2	24	142	
	9645	·607	343·3	136·8	+33·1	33	178	
	9642	·399	25·5	114·4	+18·7	44	259	
	9646	·469	24·5	112·7	+23·0	0	3	
G	9643	·569	35·7	103·3	+25·3	12	42	
	9647	·510	127·2	99·3	−19·9	1	5	
	9648	·852	64·3	70·1	+20·3	6	16	183*s*
	9649	·971	66·1	51·2	+22·4	24	109	427*p*
		·709	46·1					251
		·743	123·6					112
		·846	50·1					261
		·879	121·9					134
May 17			(−20·5)	(124·8)	(−2·3)	(146)	(759)	(2072)
137·360		·934	311·6					210
		·931	295·8					256
		·828	295·0					80
	9640	·848	249·3	167·8	−18·6	14	75	450*c*
	9645	·679	328·4	136·3	+33·2	65	384	
	9642	·358	350·6	114·7	+18·3	40	162	
G	9643	·510	18·1	101·0	+26·8	1	18	
	9647	·419	141·2	94·9	−21·1	5	24	
	9648	·718	58·7	70·5	+20·2	29	85	117*c*
	9649	·901	63·3	50·7	+22·7	33	193	455*c*
		·731	44·2					197
		·828	127·7					125
		·954	108·4					74
May 18			(−20·2)	(111·2)	(−2·2)	(187)	(941)	(1964)
138·476		·982	295·9					176
		·920	318·0					106
		·919	290·6					127
		·897	304·2					139
	9640	·955	251·5	168·8	−18·3	3	25	632*f*
	9645	·788	318·3	135·7	+34·2	48	322	
G	9642	·467	319·1	115·2	+18·6	32	169	
	9643	·502	355·7	98·9	+27·8	2	16	
	9647	·319	179·9	96·5	−20·6	5	24	
	9648	·547	47·1	71·4	+19·9	29	148	
	9649	·764	58·7	52·0	+21·8	64	338	347*c*
		·959	168·9					38
		·980	110·9					54
May 19			(−19·9)	(96·5)	(−2·1)	(183)	(1042)	(1619)
1925.			°	°	°			
139·346		·983	291·2					90
		·975	248·2					471
		·955	310·6					192
		·948	300·6					164
		·914	290·0					137
	9645	·865	311·6	135·8	+33·7	30	291	309*c*
C	9642	·601	304·0	116·4	+17·9	25	145	
	9643	·534	329·7	102·3	+25·4	1	5	
	9647	·384	215·0	98·5	−20·2	6	17	
	9650	·516	354·2	88·4	+28·7	1	5	
	9648	·441	30·0	71·5	+20·4	30	151	
	9649	·626	50·4	53·9	+21·7	46	258	
	9651	·924	110·8	18·5	−19·9	0	10	135*c*
May 20			(−19·6)	(85·0)	(−2·0)	(139)	(882)	(1498)
140·359		·926	292·5					169
	9645	·939	306·9	135·5	+33·5	32	223	341*nf*
	9642	·744	296·3	115·9	+17·8	19	131	
	9643	·673	312·7	104·7	+25·4	10	36	
	9647	·532	233·8	98·7	−19·9	1	5	
C	9650	·560	328·5	90·6	+26·6	0	7	
	9648	·385	2·1	70·7	+20·6	34	162	
	9649	·502	36·3	53·0	+22·0	46	295	
	9651	·819	113·0	18·6	−19·8	5	19	117*c*
		·968	120·4					43
May 21			(−19·3)	(71·6)	(−1·9)	(147)	(878)	(670)
141·355	9645	·986	304·4	135·4	+33·4	29	155	304*f*
	958g	·935	289·6	125·7	+17·6	10	29	109*n*
	9642	·880	290·9	117·6	+17·4	20	99	205*f*
	9643	·797	304·0	105·1	+25·1	3	9	126*f*
G	9648	·428	331·8	70·8	+20·3	21	98	
	9649	·415	7·0	55·3	+22·4	65	435	
	9651	·666	117·2	19·8	−19·0	7	23	
		·878	69·8					64
May 22			(−19·0)	(58·4)	(−1·8)	(155)	(848)	(808)
142·486		·886	302·0					211
		·830	246·9					105
		·797	204·9					130
G	9642	·970	288·1	117·9	+17·1	4	20	430*f*
	9648	·576	308·8	71·7	+19·6	23	76	
	9649	·450	333·9	55·7	+22·1	72	540	
	9651	·482	126·9	19·6	−18·2	5	26	
May 23			(−18·7)	(43·4)	(−1·6)	(104)	(662)	(876)

Group 9648. May 17–27. An irregular stream of smallish spots of which the most important is the leader. This spot, which is of composite nature from the beginning, is closely followed by another after May 19, and the two tend to approach each other. They are measured together as one from May 20.

Group 9649. May 17–29. An irregular stream of spots undergoing much change. The early development is along normal lines, although the follower of the stream is at first the largest component. Some small spots immediately following the leader then increase and, coalescing with it on May 22, form an elongated spot with multiple umbræ. One of these nuclei breaks away on May 26. Meanwhile the follower is becoming rapidly smaller, and is a mere dot on May 24. On the next day, however, a cluster of spots has appeared near its place, and condenses later to a fairly large spot, seen very close to the west limb on May 29. A cluster of indefinite spots in the mid-part of the stream increases to some importance on May 23.

Group 9650. May 20–21. A small faint spot on May 20 with a companion on the following day.

Group 9651. May 20–24. A pair of spots becoming a small stream of tiny components.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.*	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
143·383		·965	295·8					233
		·899	246·5					146
		·863	302·6					160
		·777	315·7					71
G	9648	·706	300·8	71·6	+19·9	17	76	58*c*
	9649	·551	317·2	55·4	+22·4	49	533	
	9651	·390	146·0	18·2	−20·2	1	6	
		·920	103·2					100
May 24			(−18·4)	(31·6)	(−1·5)	(67)	(615)	(768)
144·441		·959	298·2					195
		·944	247·6					160
		·882	305·2					218
G		·879	237·7					187
	9648	·844	295·5	71·8	+20·4	25	96	196*c*
	9649	·693	304·6	55·4	+22·0	74	461	
May 25			(−18·0)	(17·6)	(−1·4)	(99)	(557)	(956)
145·351		·943	241·5					142
		·942	303·3					297
		·845	230·4					119
G	9648	·930	292·7	71·6	+20·5	15	65	475*c*
	9649	·804	299·2	54·6	+22·1	60	434	168*c*
	958h	·343	170·5	2·0	−21·0	2	13	
May 26			(−17·7)	(5·5)	(−1·3)	(77)	(512)	(1201)
146·444		·974	304·9					122
		·973	243·0					168
		·925	233·5					153
		·794	310·3					230
	9648	·978	293·1	67·3	+22·3	7	28	481*c*
C	9649	·911	295·1	53·8	+22·1	91	635	712*c*
	959a	·458	193·5	358·0	−27·5	3	12	
	9652	·340	192·7	355·7	−20·5	6	17	
	9653	·406	141·0	335·4	−19·5	2	6	
	9654	·990	75·3	270·1	+14·4	48	213	182*p*
		·900	65·6					129
May 27			(−17·3)	(351·1)	(−1·2)	(157)	(911)	(2177)
147·365		·960	234·6					128
		·873	285·9					46
	9649	·971	293·4	53·2	+22·4	134	645	626*f*
G	9652	·455	223·0	358·1	−20·3	4	11	
	9653	·327	173·9	336·8	−19·9	13	62	
	9654	·939	74·4	270·2	+14·2	42	230	273*n*
		·924	58·4					204
May 28			(−17·0)	(338·9)	(−1·0)	(193)	(948)	(1277)
1925.			°	°	°			
148·347		·933	284·4					155
		·828	247·6					135
	9649	·993	294·8	47·7	+24·4	24	146	389*f*
	9652	·619	237·9	359·6	−19·9	2	7	
G	9653	·385	211·6	338·2	−19·9	13	95	
	9654	·842	72·8	270·2	+13·8	39	225	329*n*
		·899	54·5					172
		·964	71·6					198
May 29			(−16·6)	(325·9)	(−0·9)	(78)	(473)	(1378)
149·411		·927	249·5					141
	9653	·530	231·9	338·0	−19·8	9	59	
	9654	·696	69·3	269·9	+13·6	32	241	
G	9655	·953	116·5	241·2	−25·4	0	15	128*f*
		·888	52·5					116
		·920	68·9					334
May 30			(−16·3)	(311·8)	(−0·8)	(41)	(315)	(719)
150·268		·965	247·7					105
		·856	246·1					82
	9653	·647	239·3	336·5	−19·8	3	22	
G	9654	·559	64·0	269·4	+13·6	29	207	
	9655	·888	118·5	240·8	−25·4	1	9	119*f*
		·875	66·5					204
		·916	48·1					146
May 31			(−15·9)	(300·4)	(−0·7)	(33)	(238)	(656)
151·326		·949	249·2					88
	9653	·832	246·5	340·4	−19·7	1	3	134*f*
	9654	·374	49·2	269·6	+13·5	38	212	
	9656	·662	46·1	254·4	+26·7	19	86	
G	9657	·965	118·1	213·6	−27·2	17	102	420*f*
	9658	·978	59·0	211·1	+30·1	10	49	203*c*
	9659	·980	63·5	209·8	+25·8	7	20	106*n*
		·802	122·6					150
June 1			(−15·6)	(286·5)	(−0·6)	(92)	(472)	(1101)
152·360	9653	·892	248·2	334·0	−19·5	69	406	290*c*
	9654	·248	12·8	269·6	+13·6	32	166	
	9656	·530	30·8	255·2	+26·5	134	545	
G	9657	·899	120·4	212·3	−27·2	14	101	320*c*
	9658	·916	56·5	211·0	+30·1	15	79	167*c*
	9659	·929	61·4	207·7	+26·1	10	49	169*c*
		·990	58·6					79
June 2			(−15·2)	(272·8)	(−0·4)	(274)	(1346)	(1025)

Group 9652. May 27–29. A small nuclear spot with two faint followers on May 27.
Group 9653. May 27–June 3. A small stream of which the preceding component alone remains on June 1. By the following day a fresh group of spots is commencing.
Group 9654. May 27–June 7. Return of Group 9637. A spot of almost regular outline, usually intersected by one or two "bridges."
Group 9655. May 30–31. A small ephemeral spot.
Group 9656. June 1–9. A large stream of normal type showing rapid development between June 1 and 2.
Group 9657. June 1–12. A decreasing regular spot.
Group 9658. June 1–14. A disturbed region actively producing faint spots. After June 11 one or two larger spots begin to appear. Group 9659 is a small allied disturbance to the south.
Group 9659. June 1–13. A few spots in the same general area of faculæ as Group 9658. No spots are seen on June 7.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
153·368	9653	·973	249·4	335·0	−20·1	56	520	416*c*
	9654	·296	324·2	269·6	+13·6	16	123	
	9656	·459	9·4	254·6	+26·5	113	687	
	9657	·806	124·6	211·3	−27·3	13	97	329*f*
G	9658	·838	52·2	209·3	+30·6	16	85	256*c*
	9659	·837	57·6	207·5	+26·4	20	56	208*f*
	9660	·969	67·2	185·3	+21·9	25	121	378*f*
		·952	56·8					245
June 3			(−14·8)	(259·4)	(−0·3)	(259)	(1689)	(1832)
154·346	9654	·452	301·8	269·7	+13·6	20	125	
	9656	·461	345·2	254·0	+26·1	123	749	
	9657	·697	131·8	210·7	−27·8	20	95	192*f*
	9658	·718	45·8	210·2	+29·8	19	83	175*c*
	9659	·725	51·8	207·2	+26·4	25	82	187*f*
G	***959b***	·865	54·9	192·2	+29·6	0	3	242*nf*
	9660	·896	65·6	185·4	+21·5	28	182	397*f*
	959c	·926	122·8	182·6	−30·1	0	7	38*n*
	9661	·958	108·6	174·3	−17·8	5	26	398*nf*
		820	71·6					44
June 4			(−14·4)	(246·5)	(−0·2)	(240)	(1352)	(1673)
155·361	9662	·754	239·1	277·4	−22·7	10	46	82*c*
	9654	·626	292·4	269·4	+13·7	20	92	
	9656	·543	324·5	253·5	+26·1	85	612	
	9657	·584	142·8	209·6	−27·6	16	83	
	9658	·609	35·5	209·1	+29·5	1	9	
G	9659	·594	42·8	206·5	+25·7	6	43	
	9660	·785	62·4	184·9	+21·2	38	172	465*f*
	9661	·873	110·4	174·0	−17·7	5	23	698*sf*
	9663	·962	64·1	160·8	+24·8	9	75	192*c*
		·800	49·0					203
June 5			(−14·0)	(233·0)	(−0·1)	(190)	(1155)	(1640)
156·285		·888	296·4					110
	9662	·858	242·9	276·7	−23·0	5	16	131*p*
	9654	·769	287·8	269·5	+13·6	12	67	146*nf*
	9656	·656	311·4	253·7	+25·6	91	554	
	9657	·505	158·7	208·9	−28·0	17	86	
G	9658	·546	21·2	207·6	+30·5	2	10	
	9659	·502	26·6	206·3	+26·5	0	4	
	9660	·658	57·0	184·7	+20·9	35	174	
	9661	·761	112·6	173·7	−17·0	2	8	653*sf*
	9663	·870	63·2	163·5	+23·0	7	17	238*nf*
		·812	68·8					82
June 6			(−13·6)	(220·8)	(0·0)	(171)	(936)	(1360)
1925.			°	°	°			
157·281		·942	282·5					116
		·918	299·7					106
		·879	237·0					100
	9662	·945	245·2	276·4	−23·3	0	9	190*p*
	9654	·889	285·4	269·3	+13·8	12	57	229*n*
	9664	·752	293·7	253·7	+17·7	13	41	128*c*
	9656	·779	303·3	253·5	+25·4	72	396	485*c*
G	9657	·476	181·6	208·5	−28·1	14	84	
	9658	·497	359·2	208·1	+29·9	6	63	
	9660	·506	46·3	184·7	+20·5	32	169	
	9665	·670	62·7	169·0	+18·0	12	51	
	9663	·763	58·4	162·6	+23·7	6	50	272*c*
	9666	·986	73·1	127·9	+16·7	18	99	210*c*
		·736	123·2					284
June 7			(−13·2)	(207·6)	(+0·2)	(185)	(1019)	(2120)
158·381		·966	287·8					289
		·966	242·3					53
		·950	307·4					80
		·886	231·6					73
	9664	·886	290·0	253·8	+17·7	10	38	146*c*
	9656	·898	298·4	253·8	+25·4	53	365	528*c*
	9667	·351	226·4	208·2	−13·6	21	84	
	9657	·532	205·2	208·0	−28·4	14	87	
	9658	·539	337·4	206·9	+30·0	17	96	
G	9659	·473	336·1	205·3	+25·8	1	5	
	9660	·376	22·4	184·3	+20·5	26	163	
	9665	·482	50·5	170·2	+18·0	32	157	
	9663	·597	49·2	163·8	+23·1	28	126	
	9666	·909	72·2	129·0	+16·2	15	60	} 580*c*
	9668	·966	69·2	119·3	+20·1	55	200	
	959d	·970	53·6	120·5	+35·2	0	27	192*c*
		·914	41·0					89
		·970	50·5					69
June 8			(−12·8)	(193·1)	(+0·3)	(272)	(1408)	(2099)
159·355		·896	291·4					152
		·869	239·2					124
		·799	296·4					94
	9656	·967	296·2	253·7	+25·4	46	231	256*p*
	9664	·953	289·6	251·4	+18·7	0	6	578*c*
	9657	·637	220·0	207·9	−28·7	7	56	
	9667	·511	241·8	207·7	−13·6	27	182	
G	9659	·583	313·4	207·7	+23·9	9	28	
	9658	·624	321·6	206·5	+29·5	18	51	
	9660	·345	349·0	184·2	+20·1	32	156	
	9665	·342	28·1	170·5	+17·9	27	146	
	9663	·449	32·6	165·1	+22·5	29	146	
	9666	·785	69·6	130·4	+16·1	6	27	} 524*c*
	9668	·882	67·9	120·3	+19·5	43	235	
		·924	51·0					248
June 9			(−12·4)	(180·2)	(+0·4)	(244)	(1264	(1976)

Group 9660. June 3–15. A regular spot with a small distant follower on June 10, 12, 13 and 14.

Group 9661. June 4–6. One or two tiny spots in the *np* boundary of an area of widely spread faculæ, which is probably related to Group 9640 of the previous rotation.

Group 9662. June 5–7. A small but definite spot preceded by two companions on June 5.

Group 9663. June 5–16. A well-defined regular spot growing from a small nucleus in the *p* part of faculæ near the east limb on June 6. At first there are also various small followers in the faculæ.

Group 9664. June 7–9. Two small spots.

Group 9665. June 7–15. A spot of regular outline followed by a shorter-lived companion of indefinite shape. The pair of spots originates from two small nuclei seen first on June 7 *sp* Group 9663.

Group 9666. June 7–18. A short stream of a few small spots of quite minor importance until the growth of the leader into a regular spot by June 14. This group closely precedes Group 9668.

Group 9667. June 8–13. At first a number of indefinite spots in a stream. On June 10 the stream has become one of normal type with well-defined components.

Group 9668. June 8–15. Revival of Group 9642. A fairly large composite spot preceded by two smaller ones of which the leader increases for a time. The axis of the group is inclined 30° to the equator, thus differentiating it from Group 9666 which it closely follows.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
160·348		·985	301·8					175
		·972	290·0					94
		·943	242·9					142
		·906	293·2					72
	9667	·696	249·6	209·0	−13·6	57	392	
	9659	·728	303·6	208·5	+24·1	9	20	
	9657	·753	229·8	207·8	−28·6	8	32	
G	9658	·735	312·4	205·7	+30·0	26	115	
	9660	·437	321·0	184·0	+20·2	25	162	
	9665	·313	345·1	171·8	+18·0	27	117	
	9663	·378	5·7	164·7	+22·4	20	144	
	9666	·638	64·8	130·2	+16·2	15	60	} 224*c*
	9668	·768	64·2	119·9	+19·8	40	252	
		·851	45·6					284
		·974	62·8					208
June 10			(−12·0)	(167·0)	(+0·5)	(227)	(1294)	(1199)
161·380		·889	282·3					28
	9659	·852	298·6	208·4	+24·4	6	19	130*c*
	9657	·866	236·2	208·1	−28·3	7	17	286*f*
	9667	·827	252·4	207·5	−14·0	73	441	360*c*
	9658	·848	306·4	205·7	+30·6	49	223	558*c*
	9660	·585	305·4	183·8	+20·4	24	141	
	9665	·437	313·9	172·7	+18·3	18	97	
G	9663	·414	333·1	165·0	+22·3	24	138	
	9666	·460	52·6	131·1	+16·8	25	64	
	959e	·508	48·8	129·5	+20·1	1	2	
	9668	·595	57·5	121·4	+19·2	59	296	
	959f	·836	115·2	99·8	−20·4	0	4	35*s*
		·776	41·6					295
		·905	60·2					383
		·969	71·8					233
June 11			(−11·6)	(153·4)	(+0·7)	(286)	(1442)	(2308)
162·360	9657	·943	239·5	207·4	−28·2	0	38	272*f*
	9667	·926	254·6	207·0	−13·9	57	468	560*c*
	9659	·931	296·4	206·8	+24·7	1	11	127*c*
	9658	·929	302·6	205·2	+30·3	30	170	605*c*
	9669	·839	228·2	188·8	−33·4	0	4	96*f*
	9660	·729	297·8	183·7	+20·4	19	133	
	9665	·610	299·6	174·2	+18·1	16	90	
G	9663	·528	313·6	164·6	+22·0	21	126	
	9666	·312	24·4	132·7	+17·2	21	94	
	9668	·430	43·4	122·3	+18·9	38	296	
		·698	32·9					164
		·789	55·8					276
		·919	68·9					242
		·976	66·9					238
June 12			(−11·2)	(140·4)	(+0·8)	(203)	(1430)	(2580)
1925.			°	°	°			
163·361		·977	240·7					182
		·915	231·7					244
		·905	303·4					124
		·781	243·0					226
	9658	·983	300·4	205·2	+30·0	22	216	625*c*
	9659	·979	294·8	204·3	+24·4	2	24	194*p*
	9667	·978	255·7	204·2	−13·8	28	223	232*c*
	9669	·922	231·5	188·2	−34·5	58	265	347*nf*
G	9660	·853	293·6	183·5	+20·4	27	129	258*nf*
	9665	·766	293·0	174·8	+18·0	15	80	
	9663	·668	302·7	164·3	+21·8	24	133	
	9666	·307	339·1	133·8	+17·4	15	99	
	9668	·299	11·3	123·7	+17·9	31	167	
	9670	·966	67·5	53·3	+21·9	2	15	568*p*
		·820	65·7					182
		·902	53·3					149
		·990	67·3					192
June 13			(−10·7)	(127·2)	(+0·9)	(224)	(1351)	(3523)
164·100		·793	238·4					307
	9658	·998	301·2	203·5	+31·2	7	81	88*c*
	9669	·966	232·4	187·7	−35·7	55	423	196*c*
	9660	·926	291·0	183·9	+19·8	21	152	246*nf*
	9665	·862	290·0	175·4	+17·7	10	65	84*f*
K	9663	·771	297·9	164·4	+21·8	16	149	
	9666	·405	314·8	134·9	+17·4	16	122	
	9668	·317	341·6	123·4	+18·4	12	121	
	9670	·916	64·2	53·2	+23·9	0	6	321*p*
		·908	50·3					88
		·970	64·0					291
June 14			(−10·4)	(117·4)	(+1·0)	(137)	(1119)	(1621)
165·354		·907	243·0					320
	9660	·991	290·3	182·7	+20·2	29	126	192*nf*
	9669	·994	233·3	182·1	−36·3	0	57	118*c*
	9665	·966	288·7	175·0	+18·3	4	25	186*f*
	9663	·903	294·5	163·3	+22·4	21	134	495*nf*
G	9666	·620	297·9	135·8	+17·7	13	97	
	9668	·443	313·3	120·6	+18·6	3	10	
		·763	60·7					295
		·853	110·3					76
		·882	61·3					705
June 15			(−9·9)	(100·8)	(+1·1)	(70)	(449)	(2387)
166·404		·982	287·8					83
		·950	246·0					346
	9663	·977	292·7	163·9	+22·4	18	117	335*nf*
G	9666	·770	292·1	135·2	+17·7	19	118	
	9670	·619	54·3	54·2	+22·2	1	6	
		·790	55·8					398
June 16			(−9·4)	(86·9)	(+1·3)	(38)	(241)	(1162)

Group 9669. June 12–15. Two regular spots, connected by bright faculæ, developing near the west limb.
Group 9670. June 13–21. Return of Group 9649. Intermittent. A very small spot in an extensive region of faculæ.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures.		Position.		Area.		
		Dist.	Pos. Angle.	Long.	Lat.	Umbræ.	Whole Spots.	Faculæ.
1925.			°	°	°			
167·646		·816	312·9					136
		·793	295·1					315
G	9666	·915	288·7	135·7	+17·7	15	68	495*f*
		·925	120·4					88
June 17			(−8·9)	(70·5)	(+1·4)	(15)	(68)	(1034)
168·350		·875	309·0					110
		·870	292·8					297
		·813	321·9					82
G	9666	·964	288·2	135·1	+18·0	7	67	456*f*
	9671	·586	44·4	34·1	+26·0	1	6	
		·978	112·1					106
June 18			(−8·6)	(61·1)	(+1·5)	(8)	(73)	(1051)
169·346		·987	285·5					170
		·951	290·6					280
		·939	304·5					122
G		·833	315·9					138
		·741	310·7					293
	9671	·459	27·1	34·6	+25·6	1	3	
		·944	114·1					550
June 19			(−8·1)	(47·9)	(+1·6)	(1)	(3)	(1553)
170·367		·980	303·5					69
		·946	312·9					137
		·946	290·8					129
G		·845	303·1					210
		·877	117·1					593
		·912	59·7					116
June 20			(−7·7)	(34·4)	(+1·7)	(0)	(0)	(1254)
171·359		·982	311·9					65
		·947	299·7					217
C		·834	293·6					153
	9670	·616	301·5	55·2	+20·2	1	4	
		·773	121·3					423
June 21			(−7·3)	(21·3)	(+1·8)	(1)	(4)	(858)
172·389		·976	300·2					153
		·893	295·9					326
		·840	314·0					99
D		·775	297·2					342
	9672	·644	284·0	47·0	+10·5	8	18	
	9673	·676	222·2	38·6	−28·2	18	63	
		·945	107·4					49
June 22			(−6·8)	(7·7)	(+2·0)	(26)	(81)	(969)
1925.			°	°	°			
173·655		·967	292·2					164
		·896	293·0					405
		·780	301·4					542
G	9672	·818	279·6	45·5	+ 9·1	0	15	184*p*
	9673	·817	232·4	38·1	−28·4	5	23	43*c*
		·822	113·6					152
		·942	113·4					175
June 23			(−6·2)	(350·9)	(+2·1)	(5)	(38)	(1665)
174·364		·957	292·4					308
		·875	236·7					128
		·873	225·5					167
C		·854	300·4					709
	9672	·912	280·7	47·0	+10·7	4	7	221*c*
	9674	·985	118·1	264·3	−27·1	31	182	463*c*
		·955	69·8					244
June 24			(−5·9)	(341·5)	(+2·2)	(35)	(189)	(2240)
175·368		·978	279·7					124
		·951	238·9					136
		·936	297·0					461
		·920	228·3					86
G	9674	·918	120·1	266·0	−26·3	19	135	567*c*
		·866	67·7					208
		·953	74·3					148
		·968	61·9					178
June 25			(−5·5)	(328·2)	(+2·3)	(19)	(135)	(1908)
176·366		·982	296·8					394
C	9674	·830	124·0	265·2	−26·1	21	109	372*c*
		·940	59·9					492
June 26			(−5·0)	(315·0)	(+2·4)	(21)	(109)	(1258)
177·515	*960a*	·362	335·5	309·1	+21·7	0	4	
	9674	·702	133·5	265·2	−26·8	6	71	238*f*
	9675	·997	102·5	215·3	−12·2	0	116	
G		·838	68·1					83
		·856	55·6					326
		·963	67·1					62
		·980	116·7					615
June 27			(−4·5)	(299·8)	(+2·5)	(6)	(191)	(1324)
178·627		·829	237·1					455
	9674	·587	147·8	264·6	−27·1	1	20	
	9675	·943	104·1	215·9	−12·3	37	198	353*sf*
G		·736	49·3					193

Group 9671. June 18–19. A very small spot.
Group 9672. June 22–24. A pair of small spots on June 22 of which one remains on the two following days.
Group 9673. June 22–23. Two or three small spots.
Group 9674. June 24–July 2. A few small unstable spots in diminishing numbers.
Group 9675. June 27–July 9. Return of Group 9667. A stable regular spot followed by faculæ. A very small companion spot is seen *sp* on July 3.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
178·627		·911	120·0					361
G		·972	62·2					309
June 28			(−4·0)	(285·1)	(+2·7)	(38)	(218)	(1671)
179·356		·895	241·9					617
	9674	·542	159·3	263·1	−27·6	1	4	
	9675	·872	105·6	216·5	−12·2	28	181	528*sf*
G		·855	123·4					348
		·935	60·7					363
		·970	122·9					56
		·986	57·1					105
June 29			(−3·7)	(275·5)	(+2·7)	(29)	(185)	(2017)
180·360		·938	244·5					325
	9674	·491	177·9	261·1	−26·4	4	15	
	9675	·742	109·4	216·7	−12·2	29	158	341*f*
	9676	·985	126·5	186·6	−35·2	0	14	198*f*
G		·726	130·8					319
		·850	59·4					395
		·898	126·9					185
		·950	53·2					305
		·968	64·8					145
June 30			(−3·2)	(262·2)	(+2·9)	(33)	(187)	(2213)
181·364		·859	294·8					39
	9674	·536	198·6	260·0	−27·5	5	12	
	9675	·578	116·0	216·9	−12·1	23	142	
	9676	·941	129·0	186·0	−34·9	4	14	330*f*
G		·890	52·6					488
		·922	123·0					51
		·935	67·3					316
		·978	114·2					120
		·986	129·4					216
July 1			(−2·8)	(248·9)	(+3·0)	(32)	(168)	(1560)
182·371		·924	247·2					74
	9674	·617	210·8	256·6	−29·0	1	9	
	9675	·410	129·5	216·7	−12·1	25	141	
	9676	·877	133·0	184·3	−34·8	7	35	279*c*
	9677	·951	106·9	165·3	−15·0	21	130	359*c*
G		·817	46·3					322
		·854	64·8					270
		·920	116·8					257
		·961	132·9					331
		·964	66·9					200
		·967	112·9					131
July 2			(−2·3)	(235·5)	(+3·1)	(54)	(315)	(2223)
1925.			°	°	°			
183·322		·763	230·1					95
	9678	·608	204·1	239·6	−30·5	4	19	
	9680	·313	344·6	228·0	+20·7	1	6	
	9675	·290	158·0	216·5	−12·4	25	170	
	9676	·805	140·4	183·8	−35·8	7	59	112*c*
C	9677	·864	109·7	165·7	−15·2	82	362	330*c*
		·921	65·5					108
		·925	136·1					330
		·929	121·3					212
		·958	122·7					107
July 3			(−1·9)	(222·9)	(+3·2)	(119)	(616)	(1294)
184·397		·883	295·0					138
		·865	236·9					224
		·832	229·0					158
	9679	·819	286·7	263·0	+15·5	0	3	62*nf*
	9678	·718	222·0	242·0	−29·4	21	69	
	9675	·304	206·2	216·6	−12·5	23	169	
C	9676	·719	150·6	183·0	−35·7	15	55	256*f*
	9677	·736	114·3	164·8	−15·2	69	365	301*c*
		·738	128·8					126
		·801	67·6					168
		·853	142·1					376
		·892	56·6					150
		·962	70·6					508
July 4			(−1·4)	(208·7)	(+3·3)	(128)	(661)	(2467)
185·367		·947	296·8					245
		·943	240·8					192
		·916	233·9					183
		·803	292·0					141
		·793	307·7					162
	9679	·920	286·3	262·5	+16·2	4	20	70*c*
	9678	·824	229·7	242·1	−29·8	17	65	190*c*
C	9675	·436	231·9	216·4	−12·4	24	148	
	9676	·651	163·1	182·6	−35·0	7	18	
	9677	·586	121·3	164·8	−14·8	106	540	
	9680	·792	73·5	144·3	+15·0	3	12	
		·800	148·9					132
		·893	69·1					586
		·972	66·1					343
July 5			(−0·9)	(195·9)	(+3·4)	(161)	(803)	(2244)
186·349		·991	243·9					130
		·981	286·3					106
		·974	236·5					160
		·961	295·7					191
G		·899	304·4					173

Group 9676. June 30–July 6. Return of Group 9669. A small definite spot with one or two companions.
Group 9677. July 2–13. A large group of stream type beginning its development near the sun's east limb. For several days the leader is the predominating spot of the stream, but after July 8 it divides into two parts which diminish. Meanwhile, a large cluster of indefinite markings in the middle of the stream condenses to a spot of irregular outline, which absorbs a remnant of the disintegrated leader spot, now rapidly disappearing.
Group 9678. July 3–7. A diminutive stream.
Group 9679. July 4–5. A very small spot with a companion on July 5.
Group 9680. July 5–9. A few faint spots; none are visible on July 7.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
186·349		·761	229·1					297
	9678	·928	236·3	245·1	−29·4	11	34	222*f*
	9675	·604	244·1	216·5	−12·3	22	139	
	9676	·626	179·4	182·4	−35·1	2	8	
G	9677	·431	137·0	165·3	−15·0	78	543	
	9680	·638	70·1	144·6	+15·3	2	16	
		·775	70·0					386
		·882	64·0					620
July 6			(−0·5)	(182·9)	(+3·5)	(115)	(740)	(2285)
187·520		·962	288·7					153
		·943	301·7					192
		·861	235·7					399
		·713	308·1					209
	9678	·987	239·5	244·5	−29·4	3	21	184*sf*
G	9675	·785	250·9	216·7	−12·5	21	143	
	9677	·324	171·1	164·4	−15·0	102	650	
	9681	·668	125·2	132·1	−19·6	1	9	
		·772	60·7					282
		·985	111·8					175
July 7			(+0·1)	(167·4)	(+3·6)	(127)	(823)	(1594)
188·647		·939	240·0					338
		·831	301·6					429
		·734	313·8					125
	9675	·913	254·8	216·6	−12·2	23	156	383*sf*
	9677	·379	211·8	164·4	−15·0	71	607	
	9680	·209	28·3	146·7	+14·4	1	9	
G	9681	·523	137·6	130·7	−19·1	2	3	
	960c	·967	116·6	80·9	−24·4	0	8	315*np*
		·899	33·5					85
		·921	62·3					251
		·934	103·1					103
		·940	45·9					155
July 8			(+0·6)	(152·5)	(+3·8)	(97)	(783)	(2184)
189·349		·956	240·1					210
		·893	299·0					312
		·804	308·7					162
		·787	217·1					244
		·745	320·3					158
		·729	197·1					232
	9675	·965	256·1	216·5	−12·3	23	160	285*sf*
	9677	·474	227·6	164·4	−15·0	91	623	
	9680	·203	343·1	146·7	+15·0	2	8	
	9682	·926	70·7	75·7	+19·2	10	31	98*c*
		·878	117·4					331
G		·886	56·5					164

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
189·349		·930	66·1					92
G		·933	44·1					101
July 9			(−0·9)	(143·2)	(+3·8)	(126)	(822)	(2389)
190·431		·978	250·8					146
		·961	297·5					320
		·877	227·6					396
		·870	310·7					371
		·805	297·8					228
		·781	218·8					389
	9677	·655	241·6	165·4	−15·0	104	588	
	9681	·408	180·2	129·0	−20·1	1	4	
C	*960d*	·379	21·8	120·0	+24·4	1	3	
	9682	·807	69·3	76·2	+18·9	30	142	154*c*
	9683	·965	72·1	53·9	+18·3	23	66	} 553*n*
	9684	·997	67·9	42·0	+22·4	6	85	
		·772	123·0					176
		·841	61·4					114
		·893	40·2					131
		·952	79·4					109
July 10			(+1·4)	(128·9)	(+3·9)	(165)	(888)	(3087)
191·348		·933	231·0					218
		·919	307·0					164
		·909	293·5					162
		·884	241·3					108
		·850	215·0					304
G	9677	·779	246·7	164·4	−15·3	55	511	388*c*
	9682	·649	65·5	78·3	+18·6	21	115	
	9683	·894	71·0	53·7	+18·8	10	64	213*n*
	9684	·963	67·8	42·2	+22·4	16	93	214*c*
		·877	79·5					76
		·937	60·5					192
July 11			(+1·8)	(116·7)	(+4·0)	(102)	(783)	(2039)
192·409		·984	233·8					263
		·968	307·2					266
		·953	294·7					316
		·925	241·5					169
		·911	222·2					456
G	9677	·899	250·5	164·0	−15·5	67	463	1030*c*
	960e	·427	297·7	125·7	+15·2	1	2	
	9682	·429	55·9	80·9	+17·7	18	99	
	9683	·761	68·9	54·4	+18·6	12	90	359*n*
	9684	·877	66·3	42·4	+22·7	11	105	520*c*
		·925	59·2					354
July 12			(+2·3)	(102·7)	(+4·1)	(109)	(759)	(3733)

Group 9681. July 7–10. One or two very small spots not seen on July 9.
Group 9682. July 9–18. A sparse stream developing from a pair of nuclei near the east limb on July 9. The only stable spot is the leader which alone survives after July 15.
Group 9683. July 10–16. Revival of Group 9670. A small diminishing regular spot with tiny companions.
Group 9684. July 10–21. A small regular spot dividing up on July 15 and 16, when numerous small spots appear surrounding it. By July 17, one of these new spots has become as large as the original spot, but it decreases within a few days. Groups 9683, 9684 and 9685 mark the longitudinal extent of a large faculous area originating two months previously with Group 9649.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
193·371		·956	226·2					286
		·845	285·5					106
		·845	303·0					190
		·721	238·3					114
	9677	·973	252·7	164·5	−15·7	55	320	1085*c*
G	*960f*	·687	290·1	132·2	+16·8	5	14	192 *nf*
	9685	·419	177·3	88·8	−20·4	1	11	
	9682	·267	34·1	81·0	+16·9	12	88	
	9683	·613	64·5	54·4	+18·6	11	46	
	9684	·760	63·9	42·6	+22·4	15	94	543*f*
		·915	49·9					133
July 13			(+2·7)	(90·0)	(+4·2)	(99)	(573)	(2649)
194·347		·988	254·2					107
		·948	284·4					70
		·919	303·5					193
		·843	290·1					308
		·840	244·3					105
G		·748	305·0					247
	9682	·229	348·3	79·8	+17·2	17	81	
	9683	·458	54·9	53·7	+19·2	8	51	
	9684	·613	58·5	42·8	+22·1	17	80	
		·844	55·7					179
July 14			(+3·1)	(77·0)	(+4·3)	(42)	(212)	(1209)
195·325		·932	288·8					330
		·931	247·2					107
		·829	299·0					292
	9682	·357	308·6	81·0	+17·0	12	66	
C	9683	·316	35·9	52·8	+19·1	6	20	
	9684	·464	48·0	42·3	+22·1	14	94	
		·898	140·2					53
		·947	5·8					23
		·959	109·3					71
July 15			(+3·6)	(64·1)	(+4·4)	(32)	(180)	(876)
196·364		·988	287·3					107
		·918	295·7					260
	9682	·543	294·5	81·2	+16·8	10	70	
	9683	·280	351·0	53·0	+20·4	1	13	
G	9684	·331	21·8	42·7	+22·3	17	88	
	9686	·482	41·9	29·6	+25·1	1	8	
	9687	·884	113·5	351·9	−18·3	3	12	90*c*
		·946	114·6					120
		·966	56·1					97
July 16			(+4·1)	(50·3)	(+4·5)	(32)	(191)	(674)
1925.			°	°	°			
197·366		·965	294·5					256
		·795	232·5					194
	9685	·841	242·2	89·4	−20·2	28	102	144*c*
	9682	·712	289·1	81·5	+16·8	8	55	
C	9684	·329	342·7	43·2	+22·8	24	109	
	9686	·367	22·5	28·3	+24·3	1	4	
	9687	·741	118·6	354·3	−17·4	1	7	90*f*
		·859	119·5					120
		·930	54·7					115
		·954	118·9					175
July 17			(+4·5)	(37·1)	(+4·6)	(62)	(277)	(1094)
198·340		·886	238·8					199
	9685	·931	245·7	89·0	−20·5	15	54	223*c*
	9682	·841	286·9	81·1	+16·8	7	24	228*c*
	9684	·457	315·3	44·6	+23·3	24	108	
C	9686	·364	358·9	24·6	+25·9	1	3	
	9687	·598	127·7	354·6	−17·3	19	49	
		·840	53·1					125
		·891	122·5					179
July 18			(+4·9)	(24·2)	(+4·7)	(66)	(238)	(954)
199·363		·953	240·9					138
		·939	302·2					105
		·918	288·4					318
		·891	318·8					112
		·753	293·1					128
C	9685	·991	248·9	90·4	−20·1	4	11	166*c*
	9684	·604	304·8	43·5	+24·1	11	57	
	9688	·231	16·6	6·8	+17·5	10	35	
	9687	·470	143·4	353·7	−17·4	9	42	
		·806	130·3					161
July 19			(+5·4)	(10·7)	(+4·8)	(34)	(145)	(1128)
200·578		·954	289·1					249
		·954	279·2					52
	9684	·772	297·3	43·1	+24·0	3	13	717*p*
	9689	·678	223·3	25·4	−25·3	13	27	
G	9688	·298	319·1	6·4	+17·7	16	45	
	9687	·376	175·4	352·8	−17·1	4	12	
	9690	·904	76·5	289·7	+14·3	1	8	88*f*
		·924	106·9					94
July 20			(+5·9)	(354·6)	(+4·9)	(37)	(105)	(1200)
201·440		·819	297·9					373
		·765	312·1					92
	9684	·872	294·7	43·0	+23·9	2	8	634*p*
G	9689	·770	230·5	24·2	−25·4	14	44	160*c*

Group 9685. July 13–19. Intermittent. One very small spot on July 13; after an interval of four days, two or three others are seen in its place.
Group 9686. July 16–22. Intermittent. A faculous region in which a single small spot is seen each day from July 16–18. After four days' interval, a pair of small but definite spots appear.
Group 9687. July 16–21. Usually two or more small spots.
Group 9688. July 19–23. A short stream of small spots.
Group 9689. July 20–22. A short stream of small spots.
Group 9690. July 20–21. A tiny spot followed by slight faculæ.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
201·440	9688	·442	301·5	6·4	+17·9	14	67	
	9687	·408	201·7	352·2	−17·2	1	2	
G	9690	·799	76·1	290·3	+14·1	0	5	68*f*
		·834	111·1					163
		·966	66·5					194
July 21			(+6·3)	(343·2)	(+5·0)	(31)	(126)	(1684)
202·308		·976	292·9					418
		·910	295·5					518
		·845	308·5					115
		·838	266·5					18
C	9689	·874	237·3	25·8	−25·1	10	30	161*c*
	9686	·825	298·5	25·4	+26·2	10	40	108*c*
	9688	·608	292·9	7·6	+17·8	6	15	
		·908	67·7					226
July 22			(+6·7)	(331·7)	(+5·1)	(26)	(85)	(1564)
203·376		·978	292·1					240
		·953	240·4					363
		·939	266·9					128
		·932	300·5					469
E		·809	302·7					276
	9688	·761	287·7	6·6	+16·8	0	12	
		·799	64·6					505
		·951	125·5					163
		·989	120·1					134
July 23			(+7·1)	(317·6)	(+5·2)	(0)	(12)	(2278)
204·351		·973	288·7					554
		·966	299·3					203
		·810	243·3					129
G	9691	·693	64·9	262·6	+21·0	24	60	
	9692	·953	123·4	238·7	−29·6	23	134	376*c*
		·872	127·7					172
		·917	55·5					84
July 24			(+7·5)	(304·7)	(+5·2)	(47)	(194)	(1518)
205·434		·960	287·2					264
		·936	298·4					112
		·923	247·7					165
		·845	238·1					125
	9691	·526	56·2	262·4	+21·7	64	362	
G	9692	·872	128·3	238·7	−29·4	23	143	356*c*
	9693	·952	104·0	220·0	−11·6	11	40	198*s*
		·820	53·0					89
		·920	59·2					128
		·942	116·0					103
July 25			(+8·0)	(290·3)	+ (5·3)	(98)	(545)	(1540)
1925.			°	°	°			
206·488		·940	241·1					139
		·914	267·8					124
	9691	·362	38·2	262·5	+21·7	53	283	
	9692	·753	136·4	240·3	−28·6	22	105	461*c*
G	9693	·855	107·0	220·1	−11·5	10	38	123*sf*
	9694	·874	115·3	219·9	−18·9	1	6	116*f*
		·941	114·7					280
		·966	60·6					215
July 26			(+8·4)	(276·4)	(+5·4)	(86)	(432)	(1458)
207·436		·941	288·9					106
		·929	242·4					174
	9691	·279	2·6	263·1	+21·6	46	248	
	9692	·657	147·1	240·1	−28·3	16	64	
G	9693	·724	111·0	220·6	−11·0	8	16	99*s*
	9694	·770	120·9	219·6	−19·3	2	6	83*c*
		·856	118·5					391
		·873	59·7					185
July 27			(+8·8)	(263·9)	(+5·5)	(72)	(334)	(1038)
208·350		·971	241·1					127
	9691	·332	326·2	263·2	+21·3	36	231	
	9692	·588	161·6	239·7	−28·3	24	86	
	9693	·579	117·9	220·5	−11·0	5	10	
	9694	·629	128·8	220·8	−18·4	1	4	
G		·759	122·6					133
		·820	57·8					157
		·833	73·2					86
		·946	64·2					258
		·993	107·4					208
July 28			(+9·2)	(251·8)	(+5·5)	(66)	(331)	(969)
209·362		·953	284·1					83
	9691	·479	305·4	263·0	+21·1	31	195	
	961a	·485	197·8	247·2	−16·2	4	15	
	9692	·566	180·4	238·7	−28·7	49	137	
	9693	·415	133·8	220·7	−11·3	5	11	
C		·904	66·2					176
		·945	110·0					400
		·946	53·2					292
		·948	123·6					386
		·982	107·6					440
July 29			(+9·6)	(238·4)	(+5·6)	(89)	(358)	(1777)
210·345	9691	·648	296·4	263·7	+21·2	17	139	
	9692	·602	198·6	238·1	−29·1	29	138	
G	9693	·297	166·0	221·2	−11·0	4	8	

Group 9691. July 24–Aug. 2. A stream of spots in which the follower is of regular outline from the beginning, and the leader varies from regular to composite formation. The separation of these two components is very marked.

Group 9692. July 24–Aug. 4. Probable return of Group 9678. A few spots clustered about two centres 8° apart in longitude. On July 30, the spots are faint and sparsely scattered, but a revival of activity is taking place on the following days, when larger but imperfectly-formed spots appear.

Group 9693. July 25–31. Return of Group 9675. Third apparition. A small definite spot.

Group 9694. July 26–28. One or two very small spots in the *p* extremity of a moderately large area of faculæ coterminous with that belonging to Group 9693.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures.		Position.		Area.		
		Dist.	Pos. Angle.	Long.	Lat.	Umbræ.	Whole Spots.	Faculæ.
1925.			°	°	°			
210·345		·788	62·2					119
		·840	116·4					275
G		·900	50·4					226
		·911	110·8					448
		·923	130·2					335
July 30			(+10·0)	(225·4)	(+5·7)	(50)	(285)	(1403)
211·358		·819	302·0					127
	9691	·801	291·9	264·5	+20·9	26	107	244*c*
	9692	·692	214·9	238·9	−29·4	63	311	
	9693	·335	208·8	221·4	−11·3	5	8	
C		·797	46·8					125
		·820	114·8					274
		·859	135·6					169
		·954	69·2					194
		·972	54·4					63
July 31			(+10·4)	(212·0)	(+5·8)	(94)	(426)	(1196)
212·377		·920	298·4					128
		·905	234·1					92
	9691	·924	290·2	266·3	+20·8	13	111	249*f*
	9692	·797	226·0	239·4	−29·2	51	294	498*c*
G		·814	144·3					189
		·877	128·4					128
		·889	67·8					238
		·958	136·8					242
Aug. 1			(+10·8)	(198·5)	(+5·8)	(64)	(405)	(1764)
213·411		·969	298·0					101
		·958	240·7					96
	9691	·985	289·9	266·0	+20·5	27	117	319*f*
	9692	·889	232·6	238·7	−29·3	50	322	674*c*
G		·773	67·7					180
		·901	141·1					263
		·915	75·5					90
		·936	64·9					388
		·957	50·1					61
Aug. 2			(+11·3)	(184·8)	(+5·9)	(77)	(439)	(2172)
214·329		·901	250·4					128
		·895	290·8					118
		·885	307·2					125
		·787	248·4					142
	9692	·950	236·4	237·7	−29·3	54	244	843*c*
	9695	·359	193·1	177·5	−14·4	5	19	
	961b	·289	39·8	161·5	+18·6	5	18	
G		·882	145·6					140
1925.			°	°	°			
214·329		·886	65·2					240
G		·909	50·7					95
Aug. 3			(+11·6)	(172·7)	(+6·0)	(64)	(281)	(1831)
215·348		·974	289·9					58
		·961	304·6					60
		·906	250·6					198
		·822	238·6					235
	9692	·994	239·4	238·2	−29·4	7	119	388*c*
	9695	·457	216·2	175·4	−15·6	4	28	
C		·770	160·7					167
		·823	61·2					139
		·876	150·1					133
		·938	123·0					64
		·945	113·8					195
		·982	68·0					205
Aug. 4			(+12·0)	(159·2)	(+6·1)	(11)	(147)	(1842)
216·589		·960	253·1					158
		·916	243·7					176
		·899	233·5					96
	9695	·659	239·5	178·6	−14·5	3	10	
G	9696	·330	30·3	132·5	+22·4	5	22	
		·838	121·2					183
		·897	67·1					220
		·912	44·1					103
		·965	71·5					368
Aug. 5			(+12·5)	(142·8)	(+6·1)	(8)	(32)	(1304)
217·344		·865	302·3					156
		·747	240·6					186
	961c	·977	248·8	207·2	−19·1	0	14	207*sf*
	9695	·774	245·4	179·3	−14·5	1	5	
	9697	·649	212·9	156·1	−27·2	4	7	
	961d	·397	345·6	139·2	+28·7	8	27	
G	9696	·274	356·6	133·8	+22·0	3	7	
		·810	24·9					76
		·814	67·2					232
		·934	72·0					527
		·945	58·8					94
		·971	27·1					80
Aug. 6			(+12·8)	(132·8)	(+6·2)	(16)	(60)	(1558)
218·410		·951	300·5					85
		·893	278·4					46
		·879	245·6					452
		·864	228·8					262
G		·844	295·9					128

Group 9695. Aug. 3–6. A small spot with companions on Aug. 4.
Group 9696. Aug. 5–8. A diminutive stream of spots on Aug. 5, of which the leader is alone visible on Aug. 6 and 8.
Group 9697. Aug. 6–9. A pair of small and nearly regular spots, 7° apart in longitude, of which the leader remains on Aug. 9.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
218·410		·827	211·7					261
		·738	241·2					259
	9697	·760	223·9	155·3	−28·1	29	159	153c
G	9698	·321	21·6	111·3	+23·5	4	15	
		·817	71·4					365
		·848	55·0					70
		·935	68·6					250
Aug. 7			(+13·2)	(118·7)	(+6·3)	(33)	(174)	(2331)
219·378		·956	248·3					378
		·942	233·5					123
		·929	294·3					134
		·905	221·7					209
		·866	247·7					256
		·837	208·5					164
		·824	310·4					164
G	9697	·864	232·1	156·3	−28·0	29	158	290c
	9696	·499	302·7	132·6	+21·2	1	2	
	9698	·314	344·3	111·2	+23·7	12	59	
	9699	·606	155·9	89·8	−27·5	1	4	
	9700	·780	67·1	55·5	+21·7	13	44	68c
	9701	·982	68·1	25·3	+22·7	2	100	282c
		·906	65·7					395
Aug. 8			(+13·5)	(105·9)	(+6·3)	(58)	(367)	(2463)
220·322		·975	294·4					40
		·959	226·9					258
		·949	250·7					308
		·896	309·2					166
		·852	216·9					226
	9697	·952	237·9	158·9	−27·9	21	66	256f
K	9698	·420	316·3	111·8	+23·7	59	345	
	9699	·545	176·5	91·3	−26·4	1	4	
	9700	·630	62·7	56·5	+21·9	30	135	
	9701	·924	68·3	25·4	+22·4	11	58	357c
		·810	63·1					280
		·919	59·1					200
Aug. 9			(+13·9)	(93·4)	(+6·4)	(122)	(608)	(2091)
221·378		·977	238·1					193
		·931	310·9					197
		·914	226·0					165
		·874	213·9					138
		·854	201·1					80
		·800	293·6					280
	9698	·589	302·3	112·3	+23·7	98	620	
	9699	·571	196·1	89·7	−26·8	6	20	
C	961e	·319	191·3	83·1	−11·7	1	3	
1925.			°	°	°			
221·378	9702	·359	45·3	63·7	+20·8	3	8	
	9700	·426	50·3	58·9	+21·7	10	44	
	9703	·512	54·5	52·7	+23·0	4	18	
	9701	·819	66·3	25·2	+23·0	10	40	419c
		·822	56·0					343
C		·863	108·5					55
		·934	57·3					272
		·936	44·5					126
		·948	72·8					183
		·980	102·8					74
Aug. 10			(+14·3)	(79·5)	(+6·4)	(132)	(753)	(2525)
222·353		·937	224·4					317
		·927	288·2					267
		·905	310·5					124
		·901	298·9					180
		·901	206·2					161
	9698	·728	296·4	111·7	+23·5	131	913	
G	9699	·646	211·6	88·9	−27·2	4	14	
	9702	·253	9·0	64·2	+20·9	2	13	
	9700	·290	25·1	59·0	+21·6	6	32	
	9703	·371	37·2	52·5	+23·4	2	8	
	9701	·661	63·9	27·0	+21·9	3	15	
		·885	78·0					84
		·972	109·8					198
Aug. 11			(+14·6)	(66·6)	(+6·5)	(148)	(995)	(1331)
223·345		·968	290·6					188
		·964	223·5					178
		·758	304·6					120
	9698	·838	293·0	110·0	+22·7	112	939	312c
	9699	·750	224·7	89·6	−26·9	3	35	118c
C	9702	·314	319·6	66·0	+20·2	2	8	
	9700	·269	341·9	58·6	+21·2	10	37	
	9701	·506	55·6	26·8	+22·4	5	22	
		·865	50·9					78
		·914	113·8					172
Aug. 12			(+15·0)	(53·5)	(+6·5)	(132)	(1041)	(1166)
224·323		·862	299·5					120
	9698	·938	291·9	111·0	+22·7	101	818	401c
	9699	·843	232·2	88·7	−26·8	4	20	177p
C	9700	·375	313·7	57·4	+21·3	7	29	
	9701	·326	35·1	29·0	+21·9	2	10	
		·815	118·9					120
Aug. 13			(+15·3)	(40·6)	(+6·6)	(114)	(877)	(818)

Group 9698. Aug. 7–14. A pair of tiny spots on Aug. 7 becoming a condensed stream by Aug. 9. By Aug. 11, the group is considerably modified and consists of two large composite spots of which the leader is rapidly breaking up on Aug. 13. The inclination of the axis of the group is in the opposite direction from that of the generality of groups, the follower being slightly the nearer to the equator.
Group 9699. Aug. 8–14. A pair of very small but persistent spots. On Aug. 10 and 11, each spot is itself double.
Group 9700. Aug. 8–14. A short stream with a small definite leader.
Group 9701. Aug. 8–14. Small unstable spots in an area of faculæ.
Group 9702. Aug. 10–12. Two or three very small spots immediately *p* Group 9700.
Group 9703. Aug. 10–14. Intermittent. A pair of very small spots, *f* Group 9700, not seen on Aug. 12 and 13.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
225·388		·944	305·7					118
		·775	301·7					100
	9698	·978	291·0	105·8	+21·8	42	428	168*n*
	9699	·927	235·1	86·5	−28·8	5	20	312*nf*
G	9700	·597	295·4	61·4	+20·2	2	9	
	9703	·498	306·9	52·1	+23·3	1	6	
	9701	·267	9·8	23·7	+21·8	0	5	
		·788	127·9					146
		·921	117·4					94
Aug. 14			(+15·7)	(26·5)	(+6·6)	(50)	(468)	(938)
226·357		·988	239·7					265
		·928	313·5					45
		·863	298·5					138
G		·784	289·1					369
		·929	75·3					127
		·968	123·7					43
		·989	78·5					367
Aug. 15			(+16·1)	(13·7)	(+6·7)	(0)	(0)	(1354)
227·309		·962	242·4					70
		·924	298·9					188
		·885	289·2					452
G		·761	294·4					294
		·811	77·0					67
		·918	127·7					64
		·922	79·1					230
Aug. 16			(+16·4)	(1·1)	(+6·7)	(0)	(0)	(1365)
228·415		·972	288·8					531
		·852	292·5					302
	9704	·557	307·9	15·6	+25·9	4	13	
G		·809	79·5					157
		·827	135·3					56
		·947	114·0					89
Aug. 17			(+16·7)	(346·5)	(+6·8)	(4)	(13)	(1135)
229·107		·986	290·4					108
		·983	252·2					56
		·917	292·2					329
K		·778	295·6					277
	9704	·623	303·4	12·4	+25·6	8	47	
		·953	68·9					198
Aug. 18			(+17·0)	(337·3)	(+6·8)	(8)	(47)	(968)
1925.			°	°	°			
230·347		·934	249·1					101
		·927	292·4					251
		·850	306·0					137
C	9704	·799	297·4	12·7	+25·9	20	91	176*p*
	962a	·478	77·0	292·6	+12·2	1	3	
	9705	·992	118·6	243·1	−27·1	15	103	135*p*
		·884	66·1					237
Aug. 19			(+17·4)	(320·9)	(+6·9)	(36)	(197)	(1037)
231·410		·971	290·3					137
	9704	·921	296·7	14·3	+27·2	21	165	551*c*
G	9706	·154	23·5	303·3	+15·0	1	4	
	9705	·946	121·9	242·7	−27·1	21	114	550*f*
Aug. 20			(+17·7)	(306·9)	(+6·9)	(43)	(283)	(1238)
232·442		·919	243·8					218
		·911	310·7					80
	9704	·981	296·9	13·8	+27·6	14	137	374*c*
	9706	·238	307·4	304·4	+15·0	4	11	
G	9705	·868	126·9	242·1	−27·1	18	102	344*f*
	9707	·993	109·8	213·1	−18·6	12	126	191*c*
		·933	108·8					92
		·959	125·4					341
Aug. 21			(+18·0)	(293·2)	(+6·9)	(48)	(376)	(1640)
233·403		·964	249·5					94
	9705	·777	133·6	241·5	−26·9	13	82	347*f*
G	9707	·957	112·3	211·3	−18·9	64	401	466*c*
		·922	130·2					338
Aug. 22			(+18·3)	(280·5)	(+7·0)	(77)	(483)	(1245)
234·432		·978	244·9					70
	9705	·671	144·5	241·1	−26·7	13	86	
	9707	·852	115·6	213·4	−17·5	42	289	885*f*
G	9708	·942	66·7	195·6	+24·2	3	13	188*f*
	9709	·980	65·5	186·6	+25·4	5	37	150*c*
		·872	135·7					430
		·916	71·5					117
Aug. 23			(+18·7)	(266·9)	(+7·0)	(63)	(425)	(1840)

Group 9704. Aug. 17–21. A small group.
Group 9705. Aug. 19–29. Return of Group 9692. A regular spot decreasing steadily.
Group 9706. Aug. 20–21. A very small spot on Aug. 20, with a companion on the following day.
Group 9707. Aug. 21–Sept. 2. A regular spot followed by a train of very small unstable spots which have all disappeared by Aug. 27.
Group 9708. Aug. 23–Sept. 3. An irregular stream mostly of unstable spots. After Aug. 30 the leader has become a regular spot.
Group 9709. Aug. 23–26. One or two small spots, not visible on Aug. 25, closely following Group 9708 in the same general area of faculæ.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
235·144	*962b*	·642	288·3	296·9	+17·1	1	4	
	9705	·616	154·9	240·5	−27·1	18	81	196*f*
	9707	·776	120·2	212·8	−18·0	72	366	839*f*
K	9708	·912	66·7	191·2	+24·0	11	49	} 541*c*
	9709	·949	64·9	184·9	+26·0	8	47	
		·805	142·1					289
		·985	111·1					70
Aug. 24			(+18·9)	(257·5)	(+7·0)	(110)	(547)	(1935)
236·401		·910	281·0					200
		·811	284·5					119
	9705	·557	179·0	240·3	−26·5	10	57	
	9707	·586	133·2	214·4	−17·3	43	323	
	9710	·668	68·2	199·9	+19·7	13	43	
G	9708	·768	64·3	191·8	+24·1	21	105	423*nf*
		·797	130·8					339
		·910	115·6					146
		·920	67·6					155
		·970	111·6					260
		·989	68·0					184
Aug. 25			(+19·2)	(240·9)	(+7·1)	(87)	(528)	(1826)
237·366		·978	281·2					162
	9711	·936	284·2	298·5	+15·8	18	80	162*c*
	9712	·898	243·1	286·6	−20·3	6	22	105*c*
	9705	·588	198·1	240·0	−26·9	7	44	
	9707	·474	151·3	214·4	−17·6	50	270	
	9710	·484	61·0	201·6	+19·9	19	80	
G	9708	·616	59·3	192·9	+24·1	25	115	
	9709	·737	59·9	182·8	+26·8	0	9	68*f*
		·813	121·1					197
		·913	112·1					294
		·941	63·7					285
		·945	121·9					119
Aug. 26			(+19·5)	(228·2)	(+7·1)	(125)	(620)	(1392)
238·550		·970	279·8					56
		·872	287·5					113
	9711	·990	284·8	295·7	+15·6	7	34	174*c*
	9712	·983	248·7	288·3	−19·3	3	8	192*sf*
	9705	·684	216·6	239·6	−26·9	6	23	
	9707	·426	185·0	214·8	−17·9	46	261	
	962c	·511	163·7	203·6	−22·3	1	6	
	9710	·279	40·7	201·4	+19·2	70	296	
	9708	·416	44·7	193·9	+23·8	46	144	
		·793	121·3					166
		·822	135·7					97
G		·835	62·0					338
1925.			°	°	°			
238·550		·925	135·9					152
		·926	124·6					279
G		·932	51·6					152
		·960	68·6					236
Aug. 27			(+19·9)	(212·5)	(+7·1)	(179)	(772)	(1955)
239·395		·941	287·7					76
		·843	297·0					135
		·704	203·7					176
	9705	·771	225·5	239·4	−27·1	5	15	207*sf*
	9707	·472	207·5	214·6	−17·7	47	256	
G	9710	·207	357·4	202·0	+18·9	47	226	
	9708	·307	23·3	193·8	+23·4	52	306	
	9713	·762	65·9	152·6	+22·8	7	19	87*c*
		·854	131·2					150
		·927	69·5					194
		·933	47·9					137
Aug. 28			(+20·1)	(201·4)	(+7·1)	(158)	(822)	(1162)
240·360		·931	294·6					219
		·773	212·9					321
	9705	·863	232·6	238·8	−27·1	2	7	} 420*c*
	9714	·778	223·7	226·2	−28·5	2	2	
	9707	·580	225·3	214·1	−17·5	46	245	
	9710	·308	311·3	202·7	+18·6	33	152	
	9708	·295	343·0	194·0	+23·5	68	323	
G	9713	·594	62·0	154·3	+22·1	6	15	
	9715	·995	66·7	102·3	+23·7	14	86	460*c*
		·831	67·0					238
		·863	136·6					120
		·922	48·9					164
		·949	140·2					88
		·960	67·0					422
Aug. 29			(+20·4)	(188·6)	(+7·2)	(171)	(830)	(2452)
241·378		·969	293·8					155
		·907	239·5					138
		·872	302·6					140
		·836	218·2					284
	9716	·894	301·1	238·1	+30·9	1	9	
	9714	·890	233·4	228·9	−27·9	2	4	579*p*
	9707	·718	236·8	214·1	−17·5	49	238	
	9710	·505	295·2	203·9	+18·6	18	70	
	9708	·428	313·6	194·9	+23·9	72	407	
	9713	·473	50·6	151·7	+24·1	57	268	
	9717	·951	70·1	102·0	+21·1	28	106	} 818*c*
	9715	·956	67·2	101·0	+23·8	10	37	
C		·863	48·9					132

Group 9710. Aug. 25–Sept. 1. An irregular stream *sp* Group 9708. By Aug. 31, the head of the stream is alone represented by a pair of small spots.
Group 9711. Aug. 26–27. A few small spots forming near the sun's west limb.
Group 9712. Aug. 26–27. Two small spots connected by faculæ seen near the west limb.
Group 9713. Aug. 28–Sept. 4. An unstable group.
Group 9714. Aug. 29–30. A tiny spot in the following part of the faculæ attending Group 9705.
Group 9715. Aug. 29–Sept. 4. A small but persistent spot usually preceded by a tiny companion. This group and Group 9717, in the same general area of faculæ represent the return of Group 9698.
Group 9716. Aug. 30–Sept. 1. A small spot appearing near the west limb.
Group 9717. Aug. 30–Sept. 8. A small decreasing regular spot preceded by one or two tiny attendants until Sept. 4. With Group 9715, a return of Group 9698.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
241·378		·880	145·0					139
		·889	66·0					608
C		·901	133·6					114
		·979	76·0					240
Aug. 30			(+20·6)	(175·2)	(+7·2)	(237)	(1139)	(3347)
242·500		·959	235·9					445
		·941	252·1					114
		·927	226·1					228
	9716	·961	299·6	235·6	+30·3	12	39	268*nf*
	9707	·858	244·5	214·5	−17·5	35	188	449*sf*
	9710	·721	289·3	206·2	+18·9	6	20	
	9708	·629	298·9	197·1	+23·5	74	362	
G	9718	·566	219·7	182·8	−19·0	5	18	
	9719	·339	311·3	176·0	+19·8	10	23	
	9713	·306	23·9	152·7	+23·3	30	199	
	9715	·840	65·7	103·6	+24·2	10	32	} 709*c*
	9717	·856	69·7	101·3	+21·1	22	76	
		·751	62·5					435
		·916	76·3					274
		·952	117·5					135
Aug. 31			(+20·9)	(160·4)	(+7·2)	(204)	(957)	(3057)
243·343		·962	232·5					382
		·840	226·0					103
	9716	·991	300·2	233·8	+30·7	29	144	220*nf*
	9707	·936	247·9	214·6	−17·7	36	217	844*sf*
	9710	·836	287·8	208·1	+18·8	5	17	250*f*
	9708	·765	294·0	198·4	+22·9	52	315	312*c*
	9718	·668	231·9	182·7	−18·3	5	18	
	9719	·468	298·3	175·0	+19·2	6	22	
	962d	·485	210·6	164·2	−17·7	1	8	
C	9713	·271	349·4	152·3	+22·6	14	120	
	9715	·721	63·7	104·5	+23·7	5	17	} 644
	9717	·751	67·9	101·1	+21·2	17	77	
		·828	75·4					318
		·862	53·0					197
		·865	143·3					94
		·924	120·8					159
		·951	141·4					90
		·960	70·2					225
Sept. 1			(+21·2)	(149·2)	(+7·2)	(170)	(955)	(3838)
244·346		·928	27·6					141
	9707	·988	250·8	214·0	−17·6	25	233	690*sf*
	9708	·888	291·6	199·0	+22·4	41	328	665*nf*
	9718	·788	240·7	182·0	−17·7	1	5	187*sf*
G	9719	·669	291·6	177·2	+19·6	5	15	

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
244·346	9720	·678	206·2	156·3	−30·6	5	19	
	9713	·373	315·5	152·3	+22·3	13	60	
	9715	·574	58·8	103·8	+23·4	0	17	
	9717	·604	63·8	100·6	+21·4	9	62	
	9721	·818	118·9	87·1	−18·6	2	12	51*p*
G		·829	127·5					179
		·844	74·1					140
		·926	69·8					292
		·936	57·4					140
		·983	70·9					178
Sept. 2			(+21·4)	(136·0)	(+7·2)	(101)	(751)	(2663)
245·415		·972	242·7					198
		·840	237·0					103
	9708	·969	291·1	199·1	+22·2	52	414	703*nf*
	9718	·885	243·9	178·9	−19·0	9	52	319*p*
	9719	·823	288·9	177·4	+19·6	8	67	82*c*
	9722	·752	229·3	160·3	−23·7	2	8	
	9720	·770	219·9	156·7	−30·2	5	16	
	9713	·547	301·7	152·1	+22·9	8	48	
G	9715	·393	42·9	105·0	+23·5	6	30	
	9723	·394	69·9	99·5	+14·4	5	12	
	9717	·438	54·8	99·4	+21·2	9	45	
	9721	·688	125·9	86·2	−18·0	8	36	
		·820	66·5					388
		·932	69·9					364
		·950	118·8					96
		·977	73·1					129
		·993	117·5					69
Sept. 3			(+21·7)	(121·9)	(+7·2)	(112)	(728)	(2451)
246·443		·973	258·9					415
		·965	296·3					419
		·889	245·9					150
		·851	227·5					106
		·805	308·7					154
	9719	·932	287·7	178·0	+19·1	1	28	198*c*
	9722	·873	238·3	162·0	−23·1	21	60	169*c*
	9713	·727	292·5	154·2	+21·1	1	9	
	9724	·430	307·2	129·8	+21·7	2	8	
	962e	·277	336·6	115·1	+21·8	1	4	
	9715	·283	10·3	105·2	+23·3	2	9	
	9717	·283	30·5	99·5	+21·1	6	16	
	9723	·211	53·6	98·3	+14·3	11	34	
	9721	·557	140·0	86·2	−18·6	5	19	
	962f	·705	62·8	65·1	+24·1	1	2	162*f*
	9725	·895	73·3	44·2	+18·1	6	19	154*c*
G	9726	·982	70·1	27·6	+20·8	32	139	274*c*

Group 9718. Aug. 31–Sept. 3. A pair of very small spots with an ephemeral companion on Sept. 3.
Group 9719. Aug. 31–Sept. 4. Two or three very small spots.
Group 9720. Sept. 2–3. A few very small spots.
Group 9721. Sept. 2–5. A small cluster.
Group 9722. Sept. 3–6. A few small spots in a stream.
Group 9723. Sept. 3–10. An unstable group on the same meridian as Groups 9715 and 9717 showing a temporary increase on Sept. 6.
Group 9724. Sept. 4–6. Two or three short-lived spots.
Group 9725. Sept. 4–5. Two small spots.
Group 9726. Sept. 4–6. A small definite spot with a follower on Sept. 4 and 5.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
246·443		·822	68·9					204
		·854	113·4					48
G		·923	64·7					137
		·940	121·6					104
Sept. 4			(+21·9)	(108·3)	(+7·2)	(89)	(347)	(2694)
247·398		·985	288·4					141
		·961	248·8					108
		·938	306·5					56
		·899	231·4					164
		·870	300·0					124
		·848	291·0					194
	9722	·942	242·2	160·5	−23·1	24	94	198*c*
G	9724	·617	295·6	132·2	+21·3	4	14	
	9717	·248	347·8	98·9	+21·1	4	10	
	9723	·134	337·4	98·7	+14·2	6	33	
	9721	·461	161·0	86·6	−18·6	3	10	
	9725	·795	73·4	42·9	+17·5	3	13	114*c*
	9726	·912	70·0	29·2	+21·1	9	34	430*f*
		·857	127·0					85
		·976	60·4					126
Sept. 5			(+22·2)	(95·7)	(+7·2)	(53)	(208)	(1740)
248·475		·980	235·8					96
		·934	293·2					346
		·888	231·0					157
	9722	·986	244·7	157·4	−23·4	6	29	127*c*
	962g	·887	239·2	137·2	−23·1	6	11	81*p*
	9724	·785	291·5	132·8	+21·3	6	17	264*c*
G	9727	·667	212·9	105·4	−27·4	3	7	
	962h	·454	314·8	102·2	+25·4	1	3	
	9723	·323	293·4	99·1	+14·2	38	131	
	9717	·375	313·2	98·4	+21·7	4	6	
	9728	·389	54·6	61·8	+19·8	2	5	
	9726	·781	67·8	30·4	+21·8	5	9	482*f*
		·952	62·5					440
Sept. 6			(+22·4)	(81·4)	(+7·2)	(71)	(218)	(1993)
249·648		·971	243·2					148
		·891	313·2					48
		·885	291·0					219
	9727	·755	225·4	102·9	−26·1	4	18	162*c*
G	9723	·549	285·9	99·3	+14·8	19	114	
	9717	·560	298·4	98·1	+21·6	4	11	
	9729	·551	309·6	94·6	+26·9	19	49	
		·859	60·9					291
		·942	52·0					106
Sept. 7			(+22·6)	(66·3)	(+7·3)	(46)	(192)	(974)
1925.			°	°	°			
250·377		·941	310·4					89
		·931	292·2					105
		·908	224·8					105
		·842	230·8					174
		·807	284·8					97
		·791	297·0					432
G	9723	·680	283·3	99·2	+14·4	18	99	
	9717	·681	293·9	98·1	+21·4	1	5	
	9729	·661	301·8	94·9	+26·1	21	128	
	9728	·232	336·8	61·8	+19·6	20	78	
	9730	·581	60·6	23·2	+22·7	1	12	
		·800	59·4					332
		·890	45·4					187
Sept. 8			(+22·8)	(56·3)	(+7·3)	(61)	(322)	(1521)
251·111		·911	236·4					163
		·888	295·4					595
K	9723	·791	282·6	99·2	+14·4	7	33	287*c*
	9729	·775	297·3	96·2	+25·6	25	113	469*c*
	9728	·315	313·5	60·6	+19·5	45	222	
Sept. 9			(+23·0)	(46·6)	(+7·2)	(77)	(368)	(1514)
252·328		·972	240·0					138
		·960	295·5					262
		·946	288·4					100
		·903	244·2					45
C		·896	213·6					118
		·880	235·6					92
	9723	·922	282·8	98·6	+14·5	0	22	338*c*
	9729	·919	294·1	98·1	+25·0	5	14	352*c*
	9728	·529	295·4	60·9	+19·3	69	429	
Sept. 10			(+23·2)	(30·6)	(+7·2)	(74)	(465)	(1445)
253·451		·959	242·3					164
		·955	297·4					239
		·949	285·5					174
		·938	218·0					166
		·875	290·6					119
G		·777	299·9					136
	9728	·718	289·8	61·2	+19·2	174	906	372*c*
	9731	·455	170·0	10·9	−19·3	3	13	
		·924	116·5					179
		·949	74·8					287
Sept. 11			(+23·4)	(15·7)	(+7·2)	(177)	(919)	(1836)
254·349		·921	252·4					56
		·875	297·1					269
G	9728	·840	288·2	61·3	+19·2	138	1015	643*c*

Group 9727. Sept. 6–7. A pair of tiny spots.
Group 9728. Sept. 6–14. A single small spot on Sept. 6 which is not seen the following day. On Sept. 8, an important stream of spots has commenced to develop. Contrary to the usual behaviour, the leader is the unstable component which breaks up before the follower which for a few days assumes a regular outline.
Group 9729. Sept. 7–10. A small stream.
Group 9730. Sept. 8–16. Intermittent. A diminutive cluster on Sept. 8; a few small spots from Sept. 12–16.
Group 9731. Sept. 11–13. A pair of small spots.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
254·349	9730	·400	313·8	22·1	+22·8	0	5	
	9731	·466	195·6	11·5	−19·4	2	7	
		·779	76·6					105
G		·842	120·8					66
		·902	75·8					300
		·956	113·6					168
Sept. 12			(+23·6)	(3·9)	(+7·2)	(140)	(1027)	(1607)
255·398		·806	293·6					121
	9728	·938	288·0	60·7	+19·3	147	936	785*c*
	9730	·570	293·0	23·5	+18·9	2	18	
	9731	·549	215·6	9·8	−19·6	1	2	
G		·743	132·2					98
		·773	74·8					217
		·889	116·9					113
		·924	74·8					93
		·965	114·8					147
Sept. 13			(+23·8)	(350·0)	(+7·2)	(150)	(956)	(1574)
256·354		·969	297·4					100
		·888	293·6					252
		·780	292·8					169
	9728	·984	289·1	58·7	+20·0	105	593	421*c*
	9730	·746	288·2	25·5	+18·3	8	22	
G	9732	·606	68·2	301·1	+18·8	15	35	
		·798	122·8					276
		·887	65·4					119
		·901	36·4					95
		·911	118·3					347
Sept. 14			(+24·0)	(337·4)	(+7·2)	(128)	(650)	(1779)
257·349		·963	290·4					172
		·951	358·2					53
		·801	240·0					87
	9730	·835	288·9	21·2	+19·7	3	16	478*p*
G	9733	·447	175·0	321·9	−19·2	4	10	
	9732	·408	60·4	302·5	+18·3	23	91	
	9734	·988	60·9	240·8	+29·8	28	139	179*f*
		·823	123·6					233
		·876	64·0					221
Sept. 15			(+24·2)	(324·3)	(+7·2)	(58)	(256)	(1423)
258·409		·893	246·9					116
		·807	296·7					171
	9730	·930	290·9	19·7	+22·1	3	32	515*s*
	9733	·476	202·6	321·4	−18·9	2	8	
G	9732	·229	32·9	302·8	+18·2	26	133	

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
258·409	*963a*	·312	61·1	293·9	+15·6	1	4	
	9734	·943	61·4	238·9	+29·3	31	180	623*f*
G	9735	·988	59·3	226·9	+31·3	6	41	204*c*
		·967	110·9					170
Sept. 16			(+24·3)	(310·3)	(+7·2)	(69)	(398)	(1799)
259·366		·985	290·9					203
		·900	296·5					177
	9733	·563	220·0	320·0	−18·8	6	24	
	9732	·214	336·7	302·7	+18·4	22	113	
	963b	·624	143·5	273·8	−23·4	2	6	
G	9734	·864	60·2	238·6	+29·3	28	141	599*f*
	9735	·953	59·5	224·4	+31·1	23	99	212*c*
	9736	·995	108·1	216·1	−17·1	0	77	200*np*
		·906	111·1					194
		·960	124·7					408
Sept. 17			(+24·5)	(297·6)	(+7·2)	(81)	(460)	(1993)
260·372		·937	299·6					264
		·914	286·3					101
		·844	310·6					53
	9733	·720	234·7	322·7	−19·0	4	17	
	9732	·368	303·3	303·2	+18·4	18	64	
	963c	·226	332·7	290·6	+18·5	1	1	
	9734	·754	56·9	238·2	+29·3	24	129	587*f*
	9735	·874	58·1	224·6	+31·1	14	72	275*c*
G	9736	·957	110·5	214·8	−17·2	32	124	470*p*
	9739	·977	127·1	214·8	−33·9	16	58	275*nf*
	9737	·965	73·3	208·4	+18·0	4	22	489*c*
	9738	·985	68·8	202·6	+22·0	39	169	748*c*
		·805	117·7					218
		·910	52·7					124
		·917	127·3					651
Sept. 18			(+24·7)	(284·4)	(+7·1)	(152)	(656)	(4255)
261·379		·929	306·6					103
		·844	241·7					107
	9732	·552	293·5	303·1	+18·6	16	54	
	9740	·616	231·2	301·0	−16·5	2	11	
	9734	·629	50·8	237·3	+29·3	15	94	
	9735	·776	54·9	223·3	+31·3	19	82	189*c*
C	9741	·819	112·5	220·1	−13·8	1	3	} 327*p*
	9736	·874	114·1	214·7	−17·1	26	115	
	9739	·931	131·0	213·3	−34·0	33	138	390*c*
	9737	·877	73·6	209·3	+17·7	6	12	} 690*c*
	9738	·928	68·8	202·1	+22·2	27	123	
		·835	133·2					535
		·964	115·6					274
		·978	65·5					503
Sept. 19			(+24·8)	(271·1)	(+7·1)	(145)	(632)	(3118)

Group 9732. Sept. 14–22. A small stream whose leader is comparatively long-lived.
Group 9733. Sept. 15–18. A pair of spots.
Group 9734. Sept. 15–25. A regular spot followed by well-defined faculæ in which small spots appear. With Group 9735, a probable return of Group 9716.
Group 9735. Sept. 16–24. A small group *f* Group 9734.
Group 9736. Sept. 17–29. Return of Group 9707. A small regular spot preceded by faculæ in which Group 9741 subsequently appears. A few very small spots are seen *s* the regular spot on Sept. 22, 27, 28 and 29.
Group 9737. Sept. 18–26. A very small but persistent spot with occasional companions *sp* Group 9738 in the same general area of disturbance.
Group 9738. Sept. 18–27. Probable return of Group 9708. A small, incompletely-formed regular spot usually with very small attendants.
Group 9739. Sept. 18–30. A regular spot, in high southern latitude, followed by faculæ in which one or more small unstable spots are usually present.
Group 9740. Sept. 19–21. Two or three small faint spots.
Group 9741. Sept. 19–29. An active stream developing suddenly between Sept. 22 and 23 from a few very small spots which appeared three days earlier. Considerable changes also take place from day to day in the shape and area of the components of the fully developed stream.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
262·406		·931	245·2					134
		·820	288·8					53
	9732	·718	289·3	303·0	+18·7	10	38	
	9740	·753	241·0	300·6	−16·2	7	22	
	9734	·491	38·6	237·1	+29·1	19	88	
	9735	·643	49·2	223·2	+30·7	9	33	
G	9741	·676	119·6	220·4	−13·8	9	24	
	9736	·753	120·0	214·7	−16·9	18	118	243*c*
	9739	·852	137·7	213·9	−34·0	25	145	526*f*
	9737	·732	72·3	210·6	+17·8	4	9	
	9738	·816	68·9	202·9	+21·3	29	136	533*c*
	9742	·947	65·4	185·2	+25·5	0	8	738*p*
		·756	137·4					302
		·909	120·2					519
		·969	111·4					209
Sept. 20			(+25·0)	(257·5)	(+7·1)	(130)	(621)	(3257)
263·357		·985	247·0					217
		·931	280·7					104
	9740	·884	246·8	302·8	−16·7	4	19	186*sf*
	9732	·842	287·9	302·6	+18·9	7	20	172*c*
	9734	·406	19·7	236·0	+29·4	16	88	
	9735	·513	37·3	223·9	+30·6	7	16	
G	9741	·543	130·8	220·0	−14·3	12	31	
	9736	·619	128·5	214·8	−16·5	20	116	
	9739	·776	145·6	213·3	−33·8	35	183	375*f*
	9737	·595	69·0	209·4	+18·1	6	21	
	9738	·708	65·5	201·1	+22·2	15	85	
	9743	·793	67·1	193·0	+22·4	7	27	194*c*
		·821	126·6					461
		·885	66·1					603
		·902	115·1					146
		·960	112·5					146
Sept. 21			(+25·1)	(245·0)	(+7·1)	(129)	(606)	(2604)
264·359		·957	250·0					116
		·933	243·0					127
		·855	285·2					53
		·790	235·2					178
	9732	·939	287·4	302·5	+18·6	4	19	155*f*
	9734	·386	353·2	234·7	+29·5	18	90	
	9744	·461	9·8	226·3	+33·9	1	9	
	9735	·419	17·3	223·4	+30·5	4	25	
	9741	·387	152·3	221·1	−13·1	34	138	
	9736	·488	144·2	214·4	−17·1	17	107	
	9739	·711	156·4	211·7	−34·0	28	208	209*f*
	9737	·430	62·1	208·3	+18·0	6	29	
	9738	·556	58·1	201·0	+23·1	13	46	
C	9743	·630	64·4	194·3	+21·4	5	14	
1925.			°	°	°			
264·359	9742	·738	63·0	185·6	+24·5	5	20	
C		·749	136·0					322
		·805	71·0					277
		·814	120·8					194
		·939	118·4					276
		·949	50·0					77
		·962	65·2					207
Sept. 22			(+25·2)	(231·7)	(+7·0)	(135)	(705)	(2191)
265·431		·979	288·0					144
		·951	247·0					123
		·902	288·9					101
		·872	238·2					156
	9734	·464	326·4	234·7	+29·4	16	55	
	9744	·488	339·8	229·3	+34·0	1	3	
	9735	·407	348·6	222·9	+30·3	2	14	
	9741	·352	192·4	222·0	−13·0	85	426	
G	9736	·400	173·8	215·0	−16·3	20	96	
	9739	·662	171·4	210·7	−33·8	39	211	
	9737	·224	36·2	209·7	+17·4	4	21	
	9738	·386	42·8	201·1	+23·1	10	51	
	9743	·474	58·2	192·2	+20·8	5	17	
	9742	·588	55·6	185·8	+25·3	3	12	
		·853	122·0					240
		·887	68·6					182
		·964	120·8					366
Sept. 23			(+25·4)	(217·6)	(+7·0)	(185)	(906)	(1312)
266·386		·952	239·9					209
		·800	292·6					104
	9734	·593	311·9	235·3	+29·4	6	18	
	9735	·482	326·4	222·9	+30·3	3	11	
	9741	·431	219·7	221·3	−12·6	77	398	
	9736	·433	203·1	215·2	−16·5	12	87	
	9737	·225	334·7	210·8	+18·6	3	15	
	9739	·656	186·5	210·1	−33·6	33	225	
G	9738	·288	13·4	200·9	+23·2	18	49	
	9743	·327	41·7	191·6	+20·8	25	58	
	963d	·474	65·7	178·2	+17·4	2	8	
	963e	·848	67·5	147·1	+22·7	2	8	236*c*
	963f	·942	123·7	142·1	−28·5	6	22	383*p*
		·807	129·9					175
		·953	66·7					186
Sept. 24			(+25·5)	(205·0)	(+7·0)	(187)	(899)	(1293)
267·411		·898	286·6					74
		·853	298·6					73
		·786	241·6					116
G		·777	217·8					304

Group 9742. Sept. 20–23. Two or three small faint spots in an area of faculæ coterminous with that associated with Groups 9737, 9738 and 9743.
Group 9743. Sept. 21–Oct. 1. A few small unstable spots showing little development until Sept. 27, when three moderate sized spots, also of unstable character, appear in a stream.
Group 9744. Sept. 22–23. A very small outlying spot to Groups 9734 and 9735.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
267·411	9734	·706	303·9	233·1	+28·3	3	12	
	9741	·592	236·4	221·8	−13·1	69	412	
	9736	·549	225·1	215·3	−16·4	14	71	
	9739	·692	201·8	209·3	−33·3	26	190	
	9737	·344	301·8	209·2	+17·0	2	7	
G	9738	·325	333·4	200·6	+23·7	9	38	
	9743	·247	3·3	190·6	+21·1	14	33	
	9745	·733	79·4	144·2	+12·4	19	73	
		·827	130·0					281
		·884	65·9					245
		·911	121·8					178
Sept. 25			(+25·6)	(191·5)	(+6·9)	(156)	(836)	(1271)
268·493		·949	300·9					111
		·902	244·6					183
		·862	225·9					496
		·804	240·3					97
		·800	303·1					466
	9741	·740	245·5	220·7	−12·9	103	612	364*c*
	9736	·702	238·0	215·4	−16·4	15	73	
	9737	·555	292·3	209·7	+18·0	2	8	
G	9739	·766	214·7	208·4	−33·0	31	184	421*f*
	9738	·470	307·5	201·0	+22·9	10	18	
	9743	·340	313·5	192·4	+20·1	17	51	
	9745	·529	77·9	145·4	+12·2	96	321	
		·729	138·9					257
		·740	63·9					114
		·833	130·5					143
		·930	48·6					26
		·933	65·7					549
		·955	102·1					91
Sept. 26			(+25·7)	(177·2)	(+6·9)	(274)	(1267)	(3318)
269·348		·963	249·0					110
		·901	232·6					439
		·877	300·9					544
	9741	·848	249·8	220·5	−13·0	110	739	453*c*
	9736	·814	243·9	215·4	−16·5	15	90	129*c*
G	9739	·834	222·3	207·7	−33·0	16	137	369*f*
	9738	·603	301·0	200·1	+23·7	7	17	
	9743	·487	299·9	192·5	+20·2	41	175	
	9745	·351	74·6	145·8	+11·9	72	366	
		·881	64·4					698
		·884	104·1					105
		·982	112·0					256
Sept. 27			(+25·8)	(165·9)	(+6·9)	(261)	(1524)	(3103)
1925.			°	°	°			
270·543		·974	286·7					63
		·971	235·1					314
		·957	299·9					400
		·843	287·7					413
		·815	231·3					292
		·753	299·6					150
	9741	·964	254·1	222·2	−13·3	75	524	564*c*
	9736	·936	248·4	215·7	−17·4	28	158	218*c*
	9746	·906	234·5	206·6	−28·0	12	60	163*c*
C	9739	·922	229·9	207·1	−32·9	24	137	331*sf*
	9743	·696	291·7	193·4	+19·9	66	520	
	9745	·121	36·6	145·9	+12·4	59	335	
	9747	·903	115·4	90·4	−19·5	10	46	261*c*
	9748	·972	75·3	72·6	+15·9	23	148	411*f*
		·726	59·4					260
		·866	66·4					325
		·966	115·7					323
		·968	66·0					161
Sept. 28			(+25·9)	(150·1)	(+6·8)	(297)	(1928)	(4649)
271·342		·966	304·7					218
		·919	288·1					455
		·902	242·3					232
		·860	227·4					148
		·777	240·7					234
	9741	·984	255·1	217·0	−13·3	11	30	272*c*
	9736	·981	252·0	215·7	−16·2	13	79	282*c*
	9746	·961	238·3	207·1	−27·9	6	22	163*c*
	9739	·964	233·5	206·2	−32·5	22	109	508*sf*
C	9743	·821	289·9	194·7	+20·2	85	510	536*n*
	9749	·331	335·5	148·2	+24·2	1	4	
	9745	·166	306·3	147·4	+12·4	55	256	
	9747	·818	119·9	90·9	−19·6	55	221	178*c*
	9748	·913	76·0	73·0	+15·6	19	201	476*nf*
		·895	58·0					152
		·912	119·5					311
		·955	14·3					20
		·980	67·7					322
Sept. 29			(+25·9)	(139·6)	(+6·8)	(267)	(1432)	(4507)
272·407		·984	288·2					241
		·967	244·2					179
		·940	233·2					167
		·936	354·9					84
		·863	240·4					215
	9739	·995	236·2	204·0	−32·5	10	77	400*f*
	9743	·937	289·4	195·9	+20·5	67	465	869*n*
	9749	·496	306·8	151·0	+23·3	1	5	
C	9745	·400	286·1	148·6	+12·5	36	220	

Group 9745. Sept. 25–Oct. 4. A stream of normal type extending 12° in longitude when fully developed.
Group 9746. Sept. 28–29. A small group *nf* Group 9739.
Group 9747. Sept. 28–Oct. 8. An irregular stream whose components at first undergo considerable changes. A regular spot, which has formed at the head of the stream by Oct. 2, and a double spot at the other extremity maintain, however, a certain degree of stability.
Group 9748. Sept. 28–Oct. 10. A regular spot with one or more small companions until Oct. 5.
Group 9749. Sept. 29–Oct. 3. A small single spot on Sept. 30 and Oct. 3 with a companion on the intermediate days.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
272·407	9747	·692	127·4	90·0	−19·4	86	599	
	9748	·795	75·6	72·7	+15·5	25	194	298*n*
		·804	53·9					101
C		·839	126·4					308
		·927	70·2					426
		·943	53·8					130
Sept. 30			(+26·0)	(125·5)	(+6·7)	(225)	(1560)	(3418)
273·430		·929	245·1					208
		·919	297·3					319
		·889	287·2					139
		·854	235·4					177
		·722	221·9					350
	9743	·989	289·7	195·0	+20·4	26	410	525*f*
G	9745	·630	281·4	151·0	+12·4	30	160	
	9749	·648	298·7	150·1	+23·4	8	22	
	9747	·559	140·6	90·0	−19·2	109	619	
	9748	·638	73·3	72·8	+15·7	35	147	
	9750	·974	76·5	34·1	+14·7	9	52	131*f*
		·843	65·9					514
		·978	67·5					96
Oct. 1			(+26·1)	(112·0)	(+6·7)	(217)	(1410)	(2459)
274·324		·986	295·4					382
		·968	247·3					216
		·913	238·3					152
		·832	299·6					61
		·799	228·0					445
	9745	·788	280·1	152·5	+12·0	25	149	276*f*
C	9749	·773	295·3	149·7	+23·6	11	34	150*c*
	9747	·470	159·2	90·0	−19·5	85	572	
	9748	·476	68·8	72·9	+15·7	20	124	
	9750	·907	76·5	34·5	+15·0	14	86	258*f*
		·850	66·3					139
		·944	67·8					312
Oct. 2			(+26·2)	(100·2)	(+6·6)	(155)	(965)	(2391)
275·408		·904	235·4					336
	9749	·914	292·4	152·4	+23·1	1	7	271*c*
	9745	·897	280·4	150·2	+12·2	38	193	516*c*
	9747	·453	189·6	90·5	−19·8	86	402	
G	9748	·275	52·6	72·8	+16·0	21	107	
	9750	·774	75·8	35·1	+15·1	19	106	164*f*
		·843	66·6					167
		·886	124·2					89
		·929	65·8					347
		·980	128·0					44
Oct. 3			(+26·2)	(85·9)	(+6·6)	(165)	(815)	(1934)
1925.			°	°	°			
276·370		·966	293·1					188
		·933	302·1					142
		·932	237·7					283
		·825	292·3					77
	9745	·977	281·5	151·8	+12·6	39	113	450*f*
C	9747	·526	211·5	90·2	−20·4	77	465	
	9748	·160	2·2	72·8	+15·6	22	130	
	9750	·625	74·3	34·9	+14·8	16	90	
		·669	63·9					161
		·830	63·5					107
		·949	62·7					198
Oct. 4			(+26·3)	(73·2)	(+6·5)	(154)	(798)	(1606)
277·387		·984	283·5					211
		·970	240·9					166
		·924	292·3					114
	9747	·659	228·4	91·4	−20·4	66	470	
G	9748	·280	307·9	73·0	+16·2	17	104	
	9750	·449	69·7	34·1	+14·8	13	56	
	9751	·529	62·3	30·1	+19·8	2	10	
		·878	64·4					108
		·908	80·7					155
		·956	53·1					129
Oct. 5			(+26·3)	(59·8)	(+6·5)	(98)	(640)	(883)
278·401		·900	291·2					112
		·853	301·8					225
		·684	221·2					77
	9747	·785	237·6	91·2	−20·4	53	319	366*c*
	9748	·472	293·0	73·2	+16·3	16	83	
G	*963g*	·468	317·3	67·0	+26·1	0	3	
	9750	·256	54·2	34·0	+14·8	10	64	
	9751	·359	47·6	30·1	+20·1	7	33	
		·928	51·8					157
Oct. 6			(+26·4)	(46·4)	(+6·4)	(86)	(502)	(937)
279·519		·937	299·3					196
		·877	292·4					197
		·785	226·0					99
	9747	·895	244·6	90·5	−19·4	52	363	595*c*
G	9748	·669	287·4	73·2	+16·2	15	90	
	9750	·156	349·2	33·4	+15·0	12	37	
	9751	·240	7·2	29·9	+20·0	12	42	
		·981	113·4					116
Oct. 7			(+26·4)	(31·7)	(+6·3)	(91)	(532)	(1203)

Group 9750. Oct. 1–11. A small regular spot which shrinks to a nuclear point. One or two small followers are seen on Oct. 5–7.
Group 9751. Oct. 5–13. A few small sporadic spots.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
280·535		·963	300·8					121
		·950	292·0					164
		·899	235·2					118
		·852	303·3					109
	9747	·984	248·0	94·6	−20·2	21	180	577*c*
G	9748	·817	285·6	73·2	+16·4	12	64	264*c*
	9750	·305	300·1	34·1	+14·8	5	14	
	9751	·302	318·7	30·4	+19·2	6	45	
	9752	·926	114·9	315·0	−20·2	4	17	327*f*
		·962	72·0					108
Oct. 8			(+26·4)	(18·3)	(+6·3)	(48)	(320)	(1788)
281·389		·985	247·6					262
		·955	238·0					183
		·905	303·0					165
	9748	·909	285·4	72·8	+16·5	14	56	287*c*
	9754	·705	298·6	49·6	+24·3	3	10	196*p*
G	9750	·472	290·6	34·1	+15·0	3	12	
	9751	·450	302·6	30·6	+19·7	11	43	
	9752	·841	118·6	315·4	−19·9	2	8	92*p*
	9753	·889	114·0	308·6	−18·0	25	96	289*c*
		·893	71·3					180
Oct. 9			(+26·4)	(7·0)	(+6·2)	(58)	(225)	(1654)
282·419		·936	305·3					94
		·870	284·0					88
	9748	·980	286·0	72·8	+16·8	15	66	363*f*
	9754	·845	295·2	50·4	+24·5	2	9	474*p*
G	9750	·662	285·8	34·5	+15·0	3	9	
	9751	·578	297·2	26·5	+20·5	29	140	
	9753	·751	119·2	310·3	−16·9	16	83	199*c*
	9755	·959	112·5	283·6	−19·5	7	40	168*f*
		·897	116·6					69
Oct. 10			(+26·4)	(353·4)	(+6·2)	(72)	(347)	(1455)
283·527		·952	293·6					184
		·943	285·2					65
		·885	302·2					122
	9750	·827	283·6	34·8	+14·7	2	8	89*p*
	9751	·755	291·6	27·0	+20·2	11	95	246*p*
G	9756	·580	283·9	13·9	+13·0	5	14	
	9757	·529	158·6	326·7	−23·4	2	14	
	9753	·581	130·0	311·3	−16·5	9	55	
	9755	·863	116·6	284·2	−19·2	4	16	378*f*
		·961	68·9					165
Oct. 11			(+26·4)	(338·8)	(+6·1)	(33)	(202)	(1249)
1925.			°	°	°			
284·337		·972	255·6					92
		·959	293·4					170
		·916	238·8					74
		·915	283·2					134
		·742	297·4					149
	9751	·854	290·0	26·6	+20·2	13	60	290*n*
C	9756	·715	283·8	13·6	+14·0	2	13	84*c*
	9757	·496	177·6	326·8	−23·6	35	173	
	9753	·477	143·4	310·9	−16·7	9	56	
	9755	·771	121·4	284·1	−19·3	2	4	274*f*
		·918	69·6					428
		·957	105·8					102
Oct. 12			(+26·4)	(328·1)	(+6·0)	(61)	(306)	(1797)
285·343		·966	283·8					135
		·841	295·6					169
	964a	·978	242·7	28·4	−25·1	12	40	119*c*
	9751	·950	290·1	27·4	+20·9	2	17	428*c*
	9756	·865	281·6	15·1	+13·0	10	48	143*c*
C	9757	·533	202·2	327·5	−23·6	27	207	
	9753	·385	173·4	312·3	−16·4	8	54	
	9758	·983	73·6	234·3	+17·2	88	494	795*c*
		·804	67·6					401
		·879	109·8					51
		·967	109·4					125
Oct. 13			(+26·4	(314·9)	(+6·0)	(147)	(860)	(2366)
286·456		·939	294·8					236
	9756	·954	282·8	13·4	+13·9	1	36	152*c*
	9757	·643	221·0	327·5	−23·7	33	231	
	9753	·438	206·6	312·0	−17·1	25	146	
G	9758	·924	73·8	232·2	+17·2	92	702	720*c*
	9759	·967	106·9	227·5	−14·6	66	315	259*c*
	9760	·988	110·6	222·1	−19·2	60	580	203*c*
		·917	110·2					153
Oct. 14			(+26·4)	(300·2)	(+5·9)	(277)	(2010)	(1723)
287·472		·912	294·5					93
	9757	·762	231·4	327·3	−24·0	37	207	
	9753	·570	228·3	313·1	−17·1	22	186	
	9761	·571	124·6	258·0	−13·8	12	37	
	9758	·813	72·8	232·6	+17·4	102	560	550*c*
	9759	·884	109·7	227·8	−14·4	54	312	137*c*
	9760	·940	113·1	220·7	−19·3	97	864	672*c*
G		·858	118·3					189

Group 9752. Oct. 8–9. A small spot *sp* Group 9753.

Group 9753. Oct. 9–19. A pair of spots which separate widely in longitude. The follower then disappears after Oct. 12 and new companions make their appearance on Oct. 14 near the leader. By the following day these spots have coalesced, but the compound spot soon begins to disappear.

Group 9754. Oct. 9–10. Two spots in dispersing faculæ.

Group 9755. Oct. 10–12. A small spot followed by faculæ.

Group 9756. Oct. 11–14. Two or three short-lived spots.

Group 9757. Oct. 11–17. A short stream or cluster of unstable spots.

Group 9758. Oct. 13–24. A large group of imperfectly formed and unstable spots.

Group 9759. Oct. 14–26. Return of Group 9741. A stable regular spot with a very small companion south of it on Oct. 15 and 16.

Group 9760. Oct. 14–26. An aggregation of several imperfectly-formed spots from which emerges a very large spot as leader which is later visible to the naked eye. The large spot at first is roughly of regular outline, but after Oct. 20 its penumbra is distended southwards for a considerable distance, and small umbral points appear at its southern boundary. When passing round the sun's west limb, it is breaking up rapidly, the other components of the group having all disappeared by Oct. 25.

Group 9761. Oct. 15–23. Two small clusters becoming two composite spots by Oct. 18. A day later the leader has become a regular spot, whilst the follower divides into two portions of which the following assumes a regular outline as the other part dies out.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
287·472		·878	56·4					101
		·928	99·5					129
G		·951	123·0					131
		·958	69·2					891
Oct. 15			(+26·3)	(286·8)	(+5·8)	(324)	(2166)	(2893)
288·335		·896	308·5					122
	9757	·852	237·1	326·8	−24·0	23	120	336*c*
	9753	·689	238·1	312·9	−16·8	16	140	
	964b	·356	34·4	262·9	+22·6	1	7	
	9761	·436	139·5	258·5	−13·8	44	172	
	9758	·684	70·8	233·0	+17·2	64	437	312*nf*
C	9759	·785	113·7	227·6	−14·5	45	223	295*s*
	9760	·866	116·6	220·3	−19·6	82	879	650*c*
	9762	·974	70·3	197·6	+20·4	74	371	559*nf*
		·887	130·3					209
		·899	66·2					859
		·980	121·7					253
Oct. 16			(+26·3)	(275·4)	(+5·7)	(349)	(2349)	(3595)
289·512	9757	·951	241·8	326·9	−24·6	13	51	457*c*
	9753	·840	245·8	312·9	−16·8	14	109	184*c*
	9761	·325	177·0	258·9	−13·3	57	364	
	964c	·295	13·2	255·7	+22·2	1	2	
	9758	·488	64·2	232·6	+17·2	66	355	
	9759	·612	122·1	227·7	−14·2	33	199	
	9760	·726	124·4	220·5	−19·9	167	825	320*f*
	9763	·735	72·5	213·1	+16·5	1	3	} 484*c*
G	9764	·787	65·0	209·3	+23·0	0	2	
	9765	·892	65·7	197·2	+24·1	8	44	} 724*c*
	9762	·908	68·8	194·7	+21·5	90	514	
	9766	·968	109·8	187·4	−17·5	34	131	428*c*
		·828	134·4					137
		·886	113·6					132
		·941	125·2					464
		·974	60·6					278
Oct. 17			(+26·2)	(259·9)	(+5·6)	(484)	(2599)	(3608)
290·483		·990	243·6					316
	9753	·935	249·1	313·0	−17·2	20	79	330*c*
	964d	·743	285·0	294·9	+14·9	2	6	
	9761	·391	212·0	259·4	−13·8	100	563	
	9758	·308	50·2	232·9	+16·8	76	448	
	9759	·463	136·2	227·9	−14·1	39	180	
	9760	·596	135·1	220·7	−19·9	157	909	
	9763	·567	68·8	213·8	+16·5	1	4	
	9765	·780	62·8	197·6	+24·5	10	49	
G	9762	·804	66·8	194·5	+21·8	104	558	623*c*

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
290·483	9766	·892	113·2	187·9	−17·7	50	262	378*c*
		·829	125·2					328
G		·927	129·1					472
		·932	64·8					413
Oct. 18			(+26·2)	(247·1)	(+5·6)	(559)	(3058)	(2860)
291·343		·940	287·1					117
		·832	241·3					170
	9753	·983	252·1	312·7	−16·4	5	27	317*sf*
	9761	·522	231·1	260·4	−14·1	83	543	
	9758	·216	14·2	232·5	+17·5	41	228	
	964e	·454	164·9	228·5	−20·4	1	3	
	9759	·364	157·7	227·5	−14·2	27	172	
	9760	·496	149·5	220·2	−19·9	149	927	
C	9765	·667	59·1	197·0	+24·3	16	110	
	9762	·686	63·9	194·3	+21·7	109	541	
	9766	·801	117·1	187·4	−17·7	44	204	361*s*
		·747	136·9					263
		·858	61·7					498
		·896	133·5					484
		·932	119·0					162
		·960	63·9					181
		·981	76·1					204
Oct. 19			(+26·1)	(235·7)	(+5·5)	(475)	(2755)	(2757)
292·447		·894	244·6					228
		·706	296·5					181
	9761	·702	244·5	261·7	−13·5	64	445	
	9758	·285	318·1	232·7	+17·4	27	218	
	9759	·353	197·9	227·6	−14·2	29	195	
	9760	·430	177·9	220·2	−19·9	121	864	
	9764	·361	23·9	212·0	+24·5	1	5	
	9765	·502	48·6	196·9	+24·2	19	83	
C	9762	·511	55·3	194·4	+21·7	100	570	
	9766	·647	125·6	187·8	−17·6	38	223	327*f*
	9767	·686	67·9	179·1	+18·9	20	59	150*n*
	9768	·721	56·4	178·8	+27·5	2	9	378*n*
	9769	·990	114·9	142·8	−23·7	21	117	204*sp*
		·853	139·3					483
		·863	63·7					137
		·897	122·2					210
		·931	76·6					671
Oct. 20			(+26·1)	(221·2)	(+5·4)	(442)	(2788)	(2969)
293·445		·956	246·6					146
		·819	278·6					61
		·819	292·8					146
G	9761	·837	249·8	261·7	−13·6	71	336	410*c*

Group 9762. Oct. 16–29. Return of Group 9743. A conspicuous spot, with two well-defined umbræ, followed at a distance of 9° in longitude by a smaller regular spot. On Oct. 22 a complete division in two parts has taken place in the leader, after which the southern portion begins to disappear whilst the northern assumes a regular outline.

Group 9763. Oct. 17–18. A very small faint spot in the southern part of a large tract of faculæ probably associated with Groups 9737 and 9738 in the previous rotation.

Group 9764. Oct. 17–20. A very small spot seen only on Oct. 17 and 20 in the same faculæ associated with Group 9763.

Group 9765. Oct. 17–28. A small stream immediately northwards of Group 9762. On Oct. 25, it is represented by a single small spot near the head of the stream.

Group 9766. Oct. 17–29. A small stable regular spot closely followed by a small companion on Oct. 18 which increases until Oct. 20 and then rapidly dies out. There is also another spot following it at some distance which is represented for some days by a small cluster.

Group 9767. Oct. 20–28. A stream composed of unstable spots.

Group 9768. Oct. 20–25. A single, small, faint spot each day with companions on Oct. 21.

Group 9769. Oct. 20–26. A regular spot breaking up on Oct. 25.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
293·445	*964f*	·626	315·6	238·6	+31·0	1	5	
	9758	·458	298·4	232·9	+17·4	16	94	
	9759	·467	224·8	227·8	−14·3	31	173	
	9760	·470	204·6	220·0	−20·0	172	970	
	9765	·369	27·6	197·2	+24·2	14	62	
	9762	·356	37·2	194·7	+21·5	119	569	
G	9766	·507	139·2	187·8	−17·5	54	221	
	964g	·563	143·7	187·0	−22·0	2	3	
	9768	·592	47·4	178·5	+28·2	2	9	
	9767	·534	61·2	178·4	+19·5	38	191	
	9769	·943	117·4	142·2	−23·6	19	141	410*s*
		·788	145·3					334
		·848	74·4					377
		·974	71·4					224
Oct. 21			(+26·0)	(208·0)	(+5·3)	(539)	(2774)	(2108)
294·426		·886	289·2					186
	964h	·956	290·2	268·5	+20·8	3	13	214*f*
	9761	·942	253·3	263·1	−13·8	55	318	629*c*
	9758	·616	289·9	232·0	+16·2	16	79	
	9759	·616	238·3	227·7	−14·4	32	177	
	9760	·593	223·7	221·0	−20·6	168	861	
	9765	·337	356·5	196·4	+24·8	10	49	
	9762	·287	2·9	194·2	+21·8	107	564	
G	9766	·418	161·1	186·9	−18·0	41	213	
	9768	·455	33·1	178·9	+27·3	2	6	
	9767	·374	49·1	177·8	+19·1	35	123	
	9769	·858	120·9	142·2	−23·0	23	135	503*f*
	9770	·907	71·1	130·0	+19·3	0	4	386*n*
		·771	73·1					195
		·921	50·8					68
		·923	358·3					26
		·945	119·7					393
Oct. 22			(+25·9)	(195·1)	(+5·2)	(492)	(2542)	(2600)
295·614		·958	291·4					232
		·858	303·7					115
		·844	236·5					156
	9761	·980	254·7	255·9	−13·8	29	119	232*c*
	9758	·801	286·4	232·3	+16·2	42	168	710*nf*
	9759	·787	247·0	227·7	−14·5	31	164	338*p*
	9760	·743	236·7	220·7	−20·2	122	847	
	9765	·425	322·8	195·8	+24·7	16	63	
	964i	·584	204·8	195·3	−27·0	1	2	
	9762	·367	321·3	193·6	+21·5	99	501	
	9766	·411	198·8	187·4	−17·7	29	176	
G	9768	·426	0·7	179·1	+30·2	1	2	

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
295·614	9767	·240	5·0	178·1	+18·9	26	80	
	9769	·720	128·8	142·1	−22·7	19	110	238*f*
G	9770	·783	67·0	129·0	+21·1	2	6	293*p*
		·852	124·6					402
Oct. 23			(+25·8)	(179·4)	(+5·1)	(417)	(2238)	(2716)
296·389		·945	300·2					74
		·919	240·1					130
	9758	·891	285·5	232·3	+16·2	23	116	720*nf*
	9759	·878	250·1	227·7	−14·7	32	185	255*p*
	9760	·840	241·2	220·9	−20·7	113	795	392*f*
	9765	·540	313·0	195·2	+26·1	6	25	
	9762	·481	307·1	193·4	+21·4	84	427	
G	9766	·490	218·4	187·7	−17·7	15	92	
	9767	·283	326·7	178·6	+18·6	18	96	
	9769	·625	136·8	141·7	−22·4	13	120	
		·783	130·3					278
		·932	59·5					140
		·935	69·7					158
		·942	353·4					16
		·958	113·3					232
Oct. 24			(+25·7)	(169·2)	(+5·1)	(304)	(1856)	(2395)
297·432		·965	287·9					1182
		·901	226·9					166
		·843	294·4					688
		·782	226·6					252
		·767	308·0					161
	9759	·964	253·2	227·7	−14·7	33	152	198*c*
	9760	·934	245·5	220·5	−20·8	72	678	923*f*
	9765	·721	296·8	199·4	+22·6	2	8	
	9762	·644	297·8	193·0	+21·4	76	384	
	9766	·622	232·5	186·5	−18·0	27	134	
G	*964j*	·642	222·2	183·4	−23·8	3	14	
	9767	·460	301·2	179·8	+18·3	22	108	
	9768	·540	318·0	179·5	+28·1	1	2	
	9771	·224	24·1	149·9	+16·8	14	38	
	9769	·507	153·8	141·5	−22·1	16	52	
	964k	·656	140·0	119·5	−25·6	1	7	
	964l	·654	66·7	116·2	+18·9	1	2	
		·860	67·2					226
		·876	56·6					196
		·903	115·0					536
		·966	76·8					186
		·984	67·4					252
Oct. 25			(+25·6)	(155·4)	(+5·0)	(268)	(1579)	(4966)

Group 9770. Oct. 22–23. One small spot on each day in well-defined faculæ.
Group 9771. Oct. 25–31. A short stream of spots in which the leader predominates throughout.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
			°	°	°			
1925.								
298·324		·957	260·3					92
		·950	231·8					144
		·941	287·1					283
		·925	294·1					412
		·874	304·7					241
		·865	231·9					159
		·791	284·1					152
		·786	207·3					183
		·779	221·8					204
	9759	·996	254·9	226·8	−14·5	27	138	49*f*
	9760	·983	248·3	220·2	−20·2	69	598	1174*sf*
C	9765	·801	299·5	194·4	+26·3	7	28	304*c*
	9762	·778	293·9	193·3	+21·5	70	396	407*c*
	9766	·748	240·9	186·8	−17·7	22	88	365*f*
	9767	·626	293·3	180·7	+18·3	9	55	
	9771	·236	329·2	150·8	+16·5	8	24	
	9769	·464	176·1	141·7	−22·5	6	33	
		·810	122·7					347
		·819	52·5					252
		·846	63·1					175
		·911	75·7					239
		·916	116·7					264
		·947	67·0					670
Oct. 26			(+25·5)	(143·6)	(+4·9)	(218)	(1360)	(6116)
299·618		·968	300·9					168
		·966	238·9					144
		·873	230·5					204
		·859	216·9					152
	9765	·926	296·7	193·9	+26·5	14	111	195*c*
	9762	·912	291·5	192·2	+21·6	37	372	195*c*
	9766	·894	247·7	186·4	−17·4	17	91	422*sf*
G	9767	·828	287·9	182·1	+17·4	5	20	354*nf*
	9771	·478	294·7	153·3	+15·8	10	48	
		·745	70·9					231
		·761	122·9					199
		·838	67·4					354
		·904	126·6					219
		·936	62·9					249
Oct. 27			(+25·3)	(126·6)	(+4·8)	(83)	(642)	(3086)
300·412		·926	233·4					191
		·918	220·4					224
		·866	298·9					211
	9765	·972	296·3	193·1	+26·7	17	94	335*c*
	9762	·967	291·5	191·8	+22·0	65	330	308*c*
	9766	·957	250·1	186·5	−17·5	14	83	349*sf*
	9767	·886	288·8	178·3	+18·8	6	13	253*c*
G	9771	·614	289·7	152·7	+15·7	29	93	

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
			°	°	°			
1925.								
300·412	9772	·996	76·8	30·2	+13·6	11	43	
		·737	63·6					225
G		·906	63·5					214
		·986	113·8					70
Oct. 28			(+25·2)	(116·1)	(+4·7)	(142)	(656)	(2380)
301·324		·973	286·0					160
		·965	243·3					323
		·942	226·3					417
		·898	300·5					261
	9762	·989	293·1	186·5	+23·5	33	134	558*f*
	9766	·994	252·1	185·8	−17·1	4	40	130*f*
C	9771	·778	285·9	154·8	+15·3	30	127	298*c*
	9773	·968	116·5	32·6	−24·2	0	8	717*f*
	9772	·961	77·9	29·8	+13·0	25	163	492*f*
		·796	59·9					137
		·944	65·7					306
		·958	139·5					22
Oct. 29			(+25·1)	(104·1)	(+4·6)	(92)	(472)	(3821)
302·458		·979	289·7					130
		·977	299·9					136
		·928	277·9					108
		·887	231·5					236
		·722	226·1					261
G	9771	·920	284·5	156·1	+15·0	20	126	328*f*
	964m	·819	236·3	137·2	−24·0	2	4	139*p*
	9773	·889	120·8	32·1	−24·7	12	66	1259*f*
	9772	·857	76·8	30·2	+13·6	29	210	451*f*
		·900	50·0					92
		·910	62·9					219
Oct. 30			(+24·9)	(89·1)	(+4·5)	(63)	(406)	(3359)
303·338		·928	239·6					301
		·861	304·4					89
		·816	234·4					310
		·812	292·2					137
	9771	·980	284·8	156·5	+15·4	12	76	489*nf*
C	*964n*	·545	210·1	94·8	−23·7	1	8	
	9772	·740	75·8	30·2	+13·4	31	168	554*f*
	9773	·803	125·9	31·3	−25·0	9	24	} 1079*f*
	9774	·878	119·6	21·6	−23·1	1	4	
		·888	61·4					249
		·974	78·5					93
Oct. 31			(+24·8)	(77·5)	(+4·4)	(54)	(280)	(3301)

Group 9772. Oct. 28–Nov. 7. A double spot breaking up into a variable cluster.
Group 9773. Oct. 29–Nov. 3. A small definite spot followed by an extensive area of faculæ. An occasional attendant spot is seen.
Group 9774. Oct. 31–Nov. 6. Intermittent. A very small spot seen only on Oct. 31 and Nov. 6 in the *nf* part of the faculæ associated with Group 9773.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
304·383		·983	287·2					173
		·978	240·8					202
		·936	305·2					76
		·899	238·1					244
		·877	294·0					144
G		·858	315·2					126
	9775	·384	347·8	68·9	+26·2	2	18	
	9773	·657	134·6	33·1	−23·7	7	15	728*f*
	9772	·560	72·0	30·6	+13·6	26	153	444*f*
		·874	81·0					232
		·907	62·3					178
Nov. 1			(+24·6)	(63·7)	(+4·3)	(35)	(186)	(2547)
305·392		·965	240·8					314
		·924	288·2					160
		·767	240·1					312
	9775	·465	323·4	68·3	+25·7	2	10	
	9773	·539	149·4	33·1	−23·7	3	8	
G	9772	·366	63·4	30·8	+13·3	21	118	
	9640	·660	60·0	12·3	+22·5	2	4	
		·773	77·2					118
		·847	63·5					126
		·963	80·6					119
Nov. 2			(+24·4)	(50·4)	(+4·2)	(28)	(140)	(1149)
306·333		·884	242·9					329
		·830	305·5					114
		·828	294·3					128
		·736	235·3					253
C	9772	·204	36·9	30·8	+13·4	15	124	
	9773	·504	165·5	30·0	−25·0	2	10	
		·873	81·5					88
		·955	74·7					204
		·963	116·5					205
		·987	106·0					161
Nov. 3			(+24·3)	(38·0)	(+4·1)	(17)	(134)	(1482)
307·407		·958	245·8					473
		·921	297·8					165
		·871	246·3					322
		·860	308·1					100
		·813	285·7					206
		·746	301·1					397
	9772	·197	321·2	31·1	+12·7	22	136	
	964p	·453	75·3	357·6	+10·2	0	1	
	9776	·760	79·5	334·6	+10·6	1	2	
G		·890	71·9					306

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
307·407		·900	121·3					190
G		·932	109·1					220
		·984	79·1					118
Nov. 4			(+24·1)	(23·9)	(+4·0)	(23)	(139)	(2497)
308·325		·968	302·3					157
		·949	255·1					66
		·945	245·5					234
		·912	283·5					240
	9777	·884	294·4	72·8	+23·3	0	3	808*nf*
	964q	·560	219·6	34·3	−21·9	2	9	
	9772	·371	295·7	31·8	+12·9	17	104	
C	9776	·609	78·8	334·6	+ 9·9	0	4	
	9778	·988	107·2	292·6	−16·2	13	95	106*c*
		·707	120·5					113
		·790	73·3					338
		·820	111·7					181
		·866	128·4					133
		·924	79·3					130
		·926	115·1					113
Nov. 5			(+23·9)	(11·8)	(+3·9)	(32)	(215)	(2619)
309·309		·964	282·8					168
		·919	232·8					229
	9777	·950	292·9	70·3	+22·9	0	3	434*nf*
	9772	·558	288·5	31·6	+13·3	3	38	
	9774	·562	215·3	19·5	−23·6	1	2	
C	9778	·936	108·9	291·8	−16·1	11	87	251*c*
		·695	66·5					74
		·825	119·9					104
		·827	72·7					150
		·962	70·8					124
Nov. 6			(+23·7)	(358·8)	(+3·8)	(15)	(130)	(1534)
310·459		·984	299·4					88
		·975	235·5					106
		·904	297·3					155
		·809	234·5					608
		·800	300·1					259
		·684	225·9					483
G	*965a*	·969	294·0	59·2	+24·1	17	76	235*c*
	9772	·757	284·3	32·3	+13·1	4	31	226*c*
	9778	·825	112·5	291·3	−16·2	10	51	440*f*
		·909	68·7					281
		·945	79·1					163
		·954	103·3					308
		·994	104·6					259
Nov. 7			(+23·5)	(343·6)	(+3·6)	(31)	(158)	(3611)

Group 9775. Nov. 1–2. A very small cluster.
Group 9776. Nov. 4–5. A single small spot.
Group 9777. Nov. 5–6. A faint spot seen each day in a region of the photosphere already disturbed.
Group 9778. Nov. 5–9. A regular spot passing to extinction.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
311·435		·962	296·3					223
		·906	239·8					660
		·872	282·3					434
		·871	299·2					196
		·823	232·9					539
		·739	283·4					398
G	*965b*	·765	298·1	18·0	+23·4	2	14	
	9778	·695	117·4	291·1	−15·9	3	16	
	9779	·943	106·6	262·2	−14·3	61	247	469*c*
		·817	65·6					277
		·858	107·5					391
		·874	78·2					247
Nov. 8			(+23·2)	(330·8)	(+3·5)	(66)	(277)	(3834)
312·476		·975	243·0					486
		·964	281·8					248
		·905	236·6					586
		·841	294·4					306
		·841	283·0					375
	965c	·571	311·5	345·1	+25·1	8	18	
	9780	·175	17·6	313·9	+13·0	4	8	
G	9778	·533	128·2	291·3	−16·2	1	3	
	965d	·716	112·6	274·4	−13·4	3	16	
	9779	·828	109·8	263·7	−14·2	98	616	440*c*
	9781	·937	113·8	250·7	−20·8	6	13	132*f*
		·799	60·7					134
		·833	75·8					184
		·941	60·6					165
		·968	72·1					359
Nov. 9			(+23·0)	(317·0)	(+3·4)	(120)	(674)	(3415)
313·319		·961	239·5					435
		·953	283·7					305
		·932	292·3					269
		·920	302·2					128
		·831	283·8					91
		·818	301·2					78
C	9782	·545	224·2	329·6	−19·9	2	13	
	9780	·238	319·4	315·0	+13·6	1	4	
	9779	·716	113·9	263·5	−14·4	106	971	216*c*
	9781	·879	116·5	248·5	−21·3	14	47	114*c*
		·871	71·2					178
		·951	67·8					547
		·973	108·3					251
Nov. 10			(+22·8)	(305·9)	(+3·3)	(123)	(1035)	(2612)
314·330		·979	237·0					103
		·956	293·3					198
C		·952	281·0					121

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925			°	°	°			
314·330		·815	302·7					82
	9782	·697	238·0	331·2	−19·2	0	2	
	9779	·565	122·2	263·1	−14·7	179	1288	
C	9781	·759	121·7	249·0	−21·1	8	46	133*c*
		·814	65·8					359
		·931	111·6					751
		·935	67·6					528
Nov. 11			(+22·6)	(292·6)	(+3·2)	(187)	(1336)	(2275)
315·509		·919	296·2					156
		·813	236·7					265
	9783	·721	286·6	322·2	+14·1	1	7	
	9779	·395	141·8	262·4	−15·0	201	1358	
	9781	·611	131·7	247·8	−21·1	7	28	
G	9784	·579	119·3	245·8	−13·8	4	12	
	9785	·657	65·7	238·1	+18·0	2	9	
		·777	116·9					306
		·777	65·9					340
		·887	116·9					656
		·912	65·5					526
Nov. 12			(+22·3)	(277·0)	(+3·1)	(215)	(1414)	(2249)
316·310		·969	296·5					171
		·892	240·5					241
		·789	245·9					208
	9783	·844	284·5	323·6	+13·8	1	4	108*c*
	965e	·357	191·1	270·6	−17·4	1	4	
	965f	·249	164·5	262·6	−10·8	1	3	
	9779	·318	166·8	262·2	−15·0	161	1125	
	9781	·519	142·9	246·9	−21·5	5	14	
C	9784	·438	130·1	246·4	−13·6	2	7	
	965g	·534	129·3	241·0	−17·0	1	4	
	9785	·508	59·1	239·4	+17·7	1	3	
	9786	·957	68·5	193·8	+21·4	10	31	113*c*
		·793	121·5					605
		·880	63·1					484
		·960	127·5					216
		·971	60·5					230
		·977	110·2					435
Nov. 13			(+22·1)	(266·5)	(+3·0)	(183)	(1195)	(2811)
317·398		·940	282·9					180
		·913	234·2					286
		·898	247·3					328
	9779	·350	207·8	261·8	−15·1	148	1085	
	965h	·361	190·0	255·9	−17·8	1	6	
	9785	·369	43·1	236·8	+18·3	2	12	
G	9786	·874	65·6	192·7	+22·7	10	18	174*f*

Group 9779. Nov. 8–19. A very large group visible to the naked eye near the sun's central meridian. The development of the group is unusual; a rapid increase takes place in two spots seen near the east limb and after reaching a maximum on Nov. 12 they both show a correspondingly rapid decrease. The distance in longitude between the two spots remains nearly constant, the tendency, however, being to approach one another as they are disappearing. A number of "bridges" are seen especially in the follower on Nov. 12 and 14. A revival, not a return, of Group 9761.

Group 9780. Nov. 9–10. A small spot.

Group 9781. Nov. 9–13. A small stream *f* Group 9779.

Group 9782. Nov. 10–11. A pair of very small spots.

Group 9783. Nov. 12–13. A tiny spot.

Group 9784. Nov. 12–13. Two or three very small spots *f* Group 9779.

Group 9785. Nov. 12–14. One or two small spots.

Group 9786. Nov. 13–19. Return of Group 9762; third appearance. A small but definite spot *n* of which unstable companions appear on Nov. 14 and the succeeding days.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
317·398		·711	128·0					358
		·769	58·8					277
		·897	133·3					325
G		·907	115·4					380
		·909	57·7					192
		·960	67·2					227
Nov. 14			(+21·8)	(252·1)	(+2·9)	(161)	(1121)	(2727)
318·389		·944	246·3					242
		·922	282·1					104
		·820	243·9					262
	9779	·484	231·5	262·1	−15·0	107	816	
	965i	·445	143·3	222·9	−18·3	1	6	
G	9786	·760	63·9	192·2	+21·4	8	17	150*nf*
		·840	54·9					232
		·841	137·7					163
		·869	118·1					484
		·902	64·7					334
		·964	72·3					239
Nov. 15			(+21·5)	(239·1)	(+2·7)	(116)	(839)	(2210)
319·381		·916	245·6					296
		·850	291·6					136
		·767	246·6					259
	9779	·642	242·9	262·1	−14·8	75	712	
	9786	·623	55·0	192·4	+23·1	19	70	
	9787	·963	114·2	154·3	−22·4	27	178	236*sf*
C		·696	50·0					93
		·773	124·1					208
		·816	64·0					304
		·908	56·1					177
		·908	75·4					252
		·941	126·8					336
		·973	70·2					226
Nov. 16			(+21·2)	(226·0)	(+2·6)	(121)	(960)	(2523)
320·441		·983	249·9					106
		·941	289·3					180
		·896	250·7					300
		·848	297·2					105
	9779	·797	248·9	262·2	−15·1	51	461	320*c*
	9786	·450	40·1	193·8	+22·4	9	26	
G	9787	·876	116·9	154·8	−22·0	33	186	350*sf*
	9788	·987	71·9	131·2	+18·2	12	85	236*c*
		·772	127·9					200
		·790	73·3					225
		·808	53·7					162
		·897	68·7					347
		·916	133·3					330
Nov. 17			(+20·9)	(212·0)	(+2·5)	(105)	(758)	(2861)
1925.			°	°	°			
321·369		·987	288·6					161
		·978	257·4					188
		·891	296·0					273
		·802	240·2					173
	9779	·901	252·4	262·2	−14·7	46	275	951*c*
	9789	·865	283·5	259·2	+12·8	12	65	144*c*
	9786	·370	25·1	190·1	+21·8	6	17	
	9787	·770	121·7	155·0	−22·1	30	187	284*sf*
C	*965j*	·798	70·8	148·2	+16·6	0	7	250*n*
	9788	·936	71·5	131·0	+18·1	10	79	201*c*
	9790	·983	72·3	120·4	+17·9	93	570	357*c*
		·866	137·8					232
		·925	67·1					173
		·937	122·2					323
		·972	137·0					167
		·979	61·3					103
Nov. 18			(+20·6)	(199·8)	(+2·4)	(197)	(1200)	(3980)
322·308		·953	296·2					165
		·890	242·8					197
		·854	252·2					116
		·843	289·4					162
	9779	·971	254·4	262·2	−14·5	40	224	741*c*
	9789	·956	282·2	260·2	+12·4	12	64	157*c*
	9786	·326	350·4	190·7	+21·0	1	5	
C	9787	·643	129·5	155·2	−22·1	34	181	
	9788	·841	69·8	131·5	+18·1	6	44	227*nf*
	9790	·925	71·4	120·4	+18·0	126	842	442*c*
		·782	64·2					90
		·864	125·4					195
		·884	142·4					282
		·967	119·4					207
Nov. 19			(+20·4)	(187·4)	(+2·3)	(219)	(1360)	(2981)
323·359		·995	282·2					115
		·984	357·6					25
		·970	249·6					311
		·878	290·5					460
		·868	248·1					346
		·846	305·4					198
		·771	240·4					162
		·720	226·6					119
	9791	·361	353·9	177·4	+23·0	7	24	
	9787	·506	144·6	155·2	−22·2	30	161	
	9788	·703	66·8	131·1	+17·6	9	25	
	9790	·824	69·5	119·5	+18·0	172	1355	660*c*
	9792	·971	123·4	101·7	−31·6	27	113	215*f*
		·790	133·4					155
C		·844	56·2					135

Group 9787. Nov. 16–27. A stable regular spot with an occasional small companion in the faculæ which follows.
Group 9788. Nov. 17–22. A small, rapidly decreasing regular spot which disappears on Nov. 22 as a pair of markings.
Group 9789. Nov. 18–19. A pair of small spots near the west limb.
Group 9790. Nov. 18–30. A naked-eye group. An unusually long stream extending for 20° in longitude when fully developed. The leader is the only spot which is sufficiently stable to be traced throughout the transit. From Nov. 20–22, a large composite spot at the rear is the predominating component of the stream, but this soon breaks up and by Nov. 25, the leader is the most conspicuous spot. By the next day, however, a large composite spot has appeared closely following the leader, but this is breaking up when last seen near the west limb.
Group 9791. Nov. 20–26. A large stream approximately of normal type beginning its development near the sun's central meridian.
Group 9792. Nov. 20–27. A well-defined spot with an occasional companion.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
323·359		·885	146·9					141
		·888	124·0					173
C		·950	108·8					118
		·954	69·0					157
		·991	101·6					321
Nov. 20			(+20·0)	(173·6)	(+2·1)	(245)	(1678)	(3811)
324·418		·949	250·1					353
		·929	294·5					251
		·890	244·1					233
		·843	233·2					250
		·798	297·2					249
	9791	·456	322·2	177·2	+23·0	67	313	
	9787	·417	170·1	155·2	−22·1	25	155	
	9788	·528	59·1	131·4	+17·5	6	12	
G	*965k*	·633	56·3	125·1	+22·1	1	2	
	9790	·689	64·6	118·7	+18·6	238	1581	
	9792	·904	126·5	101·4	−31·4	17	78	266*f*
	9793	·918	103·9	94·2	−11·9	2	11	505*f*
	9794	·988	67·8	78·5	+22·3	32	126	185*c*
		·806	130·5					270
		·848	108·5					246
		·878	68·2					173
		·934	118·1					170
Nov. 21			(+19·7)	(159·6)	(+2·0)	(388)	(2278)	(3151)
325·475		·966	247·4					194
		·914	294·8					196
		·913	238·0					161
		·880	225·2					106
		·823	299·5					165
	9795	·747	303·8	189·2	+25·9	3	8	
	9791	·595	307·4	176·4	+22·8	109	717	
	9787	·436	199·2	154·6	−22·3	36	169	
	965l	·372	29·0	134·6	+20·8	1	7	
	9788	·355	40·7	131·7	+17·4	4	13	
G	9790	·506	56·2	119·6	+18·1	191	1532	
	9792	·813	132·0	100·7	−31·5	13	50	162*f*
	9794	·922	66·2	79·9	+22·6	20	145	335*f*
	9796	·973	67·8	69·6	+22·0	6	75	295*n*
		·817	105·1					129
		·833	121·4					168
		·870	74·3					65
		·893	52·4					83
		·895	38·1					41
		·896	109·5					276
Nov. 22			(+19·4)	(145·7)	(+1·9)	(383)	(2716)	(2376)

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
326·451		·970	240·1					224
		·969	295·4					338
		·910	227·8					121
		·859	246·2					210
	965m	·909	294·3	196·5	+22·7	5	25	311*n*
	9795	·864	301·5	189·0	+27·8	2	9	84*nf*
	9791	·721	301·6	174·6	+23·4	137	1019	
C	9787	·536	220·7	154·9	−22·2	28	142	
	9790	·353	37·9	119·7	+17·8	198	1336	
	9792	·715	139·8	100·2	−31·5	9	35	
	9793	·657	110·7	94·1	−11·9	0	5	
	9794	·815	63·2	81·0	+22·6	32	174	326*f*
	9796	·898	66·2	70·6	+22·0	7	28	236*c*
		·797	112·4					227
		·968	63·8					218
Nov. 23			(+19·0)	(132·8)	(+1·8)	(418)	(2773)	(2295)
327·385		·978	292·5					190
		·955	229·3					141
		·924	246·6					253
		·898	305·7					96
		·836	234·2					151
		·802	309·7					92
		·800	219·5					97
C	9795	·935	298·1	187·7	+26·8	42	320	261*c*
	9791	·842	296·7	175·2	+23·1	137	1064	247*c*
	9787	·659	232·1	154·6	−22·4	25	132	
	9790	·271	358·9	120·8	+17·4	184	1270	
	9792	·627	149·7	98·9	−31·0	10	36	
	9794	·688	57·8	81·5	+22·7	38	232	
	9796	·764	63·1	73·7	+21·3	58	332	116*c*
		·913	64·3					31
Nov. 24			(+18·7)	(120·5)	(+1·7)	(494)	(3386)	(1675)
328·307		·963	248·3					253
		·956	306·4					232
		·956	227·9					171
		·900	236·5					286
		·865	307·4					248
		·822	220·5					176
		·806	290·8					165
	9795	·984	296·2	187·4	+26·1	36	186	} 257*c*
	965n	·980	299·3	185·8	+29·0	5	15	
	9791	·930	294·5	175·2	+23·3	114	943	499*c*
	9787	·775	239·2	154·2	−22·3	22	137	145*f*
	9790	·348	320·2	121·8	+16·9	176	1339	
	965o	·457	12·1	102·2	+27·9	1	8	
	9792	·559	165·0	98·7	−31·0	12	44	
C	9794	·547	48·1	82·3	+22·7	38	198	

Group 9793. Nov. 21–27. Intermittent. A small spot seen only on Nov. 21 and 23; a pair of spots on Nov. 27.
Group 9794. Nov. 21–Dec. 3. A regular spot, usually with a few tiny followers, immediately *p* Group 9796.
Group 9795. Nov. 22–25. A pair of spots appearing in the disturbed area *p* Group 9791. A considerable increase of area is shown between Nov. 23 and 24.
Group 9796. Nov. 22–Dec. 4. A short stream of spots of comparatively brief duration, led by a large, quasi-regular spot which is surrounded by numerous small spots on Nov. 28.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
328·307	9796	·631	56·4	74·1	+21·6	116	670	
		·830	61·3					243
		·915	51·4					144
C		·940	62·6					161
		·946	75·9					350
		·974	116·0					323
		·991	64·6					137
Nov. 25			(+18·4)	(108·4)	(+1·5)	(520)	(3540)	(3790)
329·467		·930	287·8					221
		·905	251·6					143
		·891	229·4					314
		·840	295·1					397
		·743	228·6					365
	9791	·970	293·2	168·1	+22·8	67	374	464*c*
	9787	·899	244·4	153·9	−22·1	55	204	288*sf*
	9790	·544	298·8	122·8	+16·4	426	2071	
E	9792	·540	188·0	98·1	−30·8	12	39	
	9794	·398	24·0	83·0	+22·6	62	220	
	9796	·467	39·7	74·4	+22·4	170	737	
	9797	·973	70·6	17·0	+19·2	17	70	413*f*
		·840	74·2					473
		·899	118·3					603
		·942	62·6					363
		·971	118·8					379
Nov. 26			(+18·0)	(93·1)	(+1·4)	(809)	(3715)	(4423)
330·434		·988	286·9					173
		·977	253·9					122
		·952	228·9					343
		·923	292·5					219
		·882	218·7					174
		·860	234·7					302
		·831	206·5					123
	9787	·970	246·5	154·2	−22·4	22	156	286*sf*
C	9790	·710	292·1	123·4	+16·4	234	1806	
	9792	·591	205·9	97·7	−30·7	2	11	
	9793	·316	226·0	93·6	−11·3	1	7	
	9794	·368	351·6	83·6	+22·5	43	203	
	9796	·366	12·1	75·6	+22·1	79	474	
	9797	·906	68·8	16·7	+19·7	7	45	811*f*
		·804	123·2					385
		·829	71·5					218
		·852	59·3					333
		·922	121·3					333
		·955	78·7					194
Nov. 27			(+17·7)	(80·3)	(+1·3)	(388)	(2702)	(4016)
1925.								
331·448		·936	238·5					193
		·820	231·8					213
		·677	216·8					134
	965p	·878	293·9	126·3	+21·3	2	7	513*c*
	9790	·850	288·7	123·9	+16·3	337	2036	
	9794	·456	322·9	84·2	+22·3	38	199	
G	9796	·377	340·9	74·6	+21·9	61	484	
	9797	·846	65·5	11·6	+21·1	12	53	495*c*
		·680	130·7					167
		·758	53·8					181
		·822	124·7					398
		·884	77·4					192
		·983	67·8					141
Nov. 28			(+17·3)	(67·0)	(+1·1)	(450)	(2779)	(2627)
332·361		·953	233·2					173
		·858	234·7					195
	9790	·940	287·0	124·1	+16·4	269	1762	1014*c*
	9794	·591	308·9	84·7	+22·6	35	200	
	9796	·486	318·1	75·3	+22·0	35	262	
C	9797	·774	61·5	7·7	+22·3	17	121	
	9798	·768	76·2	5·6	+11·2	2	6	133*c*
	9799	·916	67·9	350·1	+20·5	23	144	162*c*
		·837	71·7					43
		·956	57·7					143
Nov. 29			(+16·9)	(54·9)	(+1·0)	(381)	(2495)	(1863)
333·427		·950	239·3					286
		·945	250·5					193
		·842	232·9					245
		·826	295·1					113
		·817	250·3					311
	9790	·979	287·9	118·7	+17·7	66	452	967*c*
	9794	·749	300·2	85·3	+22·6	47	240	171*c*
G	9796	·627	305·8	74·1	+22·1	51	349	
	9797	·583	52·1	11·3	+21·7	38	193	
	9798	·587	71·4	6·5	+11·5	10	52	
	9799	·798	64·9	350·7	+20·4	86	357	252*c*
		·927	61·8					182
		·940	76·1					170
		·986	62·6					126
Nov. 30			(+16·5)	(40·9)	(+0·9)	(298)	(1643)	(3016)
334·454		·990	289·3					202
		·947	245·4					163
		·937	294·7					135
		·929	233·3					249
G		·912	257·9					252

Group 9797. Nov. 26–Dec. 4. A large area of bright and well-defined faculæ in which a number of small unstable spots appear sporadically.
Group 9798. Nov. 29–Dec. 8. A region of feeble but persistent spot and faculæ activity *s* Group 9797.
Group 9799. Nov. 29–Dec. 10. A stable regular spot followed by a cluster until Dec. 5.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
334·454		·901	306·1					121
		·848	287·3					125
		·843	246·5					191
	9794	·873	295·7	85·5	+22·6	31	227	225*c*
	9796	·776	298·5	74·5	+22·1	33	177	259*c*
	9800	·555	296·5	58·1	+14·9	17	50	
G	9797	·418	36·1	12·1	+20·3	20	109	
	9798	·404	61·5	6·1	+11·7	3	28	
	9799	·662	59·7	350·0	+20·6	51	284	
	9801	·921	61·1	323·0	+26·7	11	23	150*f*
		·845	75·2					89
		·855	54·9					108
		·916	111·6					242
Dec. 1			(+16·1)	(27·3)	(+0·7)	(166)	(898)	(2511)
335·324		·964	239·4					305
		·956	253·8					356
		·879	305·6					88
		·869	239·2					102
	9794	·948	293·8	85·7	+22·6	50	242	315*c*
	9796	·870	295·2	73·8	+22·0	38	230	391*c*
C	9800	·719	290·8	59·9	+15·2	27	162	
	9797	·341	11·2	11·9	+20·1	9	54	
	9798	·226	38·6	7·7	+10·7	5	15	
	9799	·531	51·0	350·0	+20·0	40	246	
	9801	·842	58·2	322·9	+26·7	12	70	122*c*
		·861	112·4					100
		·969	109·4					287
Dec. 2			(+15·8)	(15·9)	(+0·6)	(181)	(1019)	(2066)
336·341		·977	253·0					156
		·965	302·4					79
		·839	301·8					139
	9794	·996	292·8	87·0	+22·8	43	261	233*f*
	9796	·955	294·3	73·6	+23·3	11	118	303*f*
	9800	·854	287·2	59·9	+14·9	48	310	126*c*
	9802	·581	315·6	29·0	+24·8	8	34	
C	9797	·393	332·6	13·6	+20·8	4	40	
	9798	·189	335·8	7·0	+10·4	2	11	
	9803	·384	151·0	351·2	−19·0	4	12	
	9799	·392	30·7	350·2	+20·1	24	187	
	9801	·741	52·2	321·4	+27·3	21	152	92*c*
		·899	111·0					263
		·965	74·2					120
		·969	62·5					105
Dec. 3			(+15·4)	(2·5)	(+0·5)	(165)	(1125)	(1616)
1925.			°	°	°			
337·313		·951	244·5					136
		·892	301·4					191
		·778	288·7					159
		·750	233·8					270
	9796	·994	293·3	72·9	+23·2	0	101	367*s*
	9800	·954	285·4	61·5	+14·8	34	208	363*c*
	9802	·705	305·6	28·6	+24·5	6	29	
	9797	·507	307·8	14·6	+18·4	2	7	
C	9798	·345	301·6	7·0	+10·8	2	10	
	9803	·330	183·0	350·7	−18·7	17	51	
	9799	·343	359·5	349·9	+20·4	30	171	
	9801	·628	43·2	320·8	+27·5	27	169	
		·799	113·4					237
		·909	61·0					96
		·916	71·2					214
		·952	115·2					188
		·955	104·4					246
Dec. 4			(+15·0)	(349·7)	(+0·4)	(118)	(746)	(2467)
338·324		·978	297·2					136
		·971	237·0					207
		·932	305·2					137
		·905	285·9					227
		·767	307·6					99
		·730	229·3					271
	9800	·988	285·4	56·9	+15·3	25	63	424*p*
	9802	·874	297·1	34·2	+23·6	12	35	175*c*
	966a	·848	240·6	30·2	−24·3	6	35	398*c*
	9799	·418	325·2	351·0	+20·3	22	123	
C	9803	·400	216·1	350·6	−18·5	16	91	
	9801	·518	28·4	320·3	+27·2	43	191	
	9804	·779	71·1	286·8	+14·8	2	11	58*c*
	9805	·938	112·3	268·5	−20·7	12	55	414*n*
		·818	65·9					109
		·829	56·6					84
		·849	107·4					204
		·911	117·5					83
		·963	74·4					320
		·980	106·6					482
Dec. 5			(+14·6)	(336·3)	(+0·3)	(138)	(604)	(3828)
339·513		·967	285·8					152
		·949	243·3					416
		·895	287·7					141
		·887	300·5					148
		·848	234·8					304
		·801	298·1					524
	9802	·965	293·5	33·9	+22·6	29	127	294*c*
C	9798	·740	282·7	7·5	+ 9·4	6	23	193*n*

Group 9800. Dec. 1–5. A group showing rapid increase and decline of activity.
Group 9801. Dec. 1–11. A stream of spots, mainly small and unstable, growing from a small spot seen on Dec. 1. A comparison of the extent of the accompanying faculæ on Dec. 1 and 11 shows the characteristic growth of the disturbance in longitude.
Group 9802. Dec. 3–6. A pair of rather widely separated spot centres.
Group 9803. Dec. 3–8. A pair of spots, the leader being the more definite and longer-lived.
Group 9804. Dec. 5–10. A small regular spot closely followed by a few tiny companions.
Group 9805. Dec. 5–16. A large naked-eye group. Two small spots on Dec. 5 which multiply and extend rapidly to form within a few days a large stream of irregularly shaped spots. These condense into two large composite spots which break up almost immediately into two clusters.

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G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
339·513	9799	·585	306·1	350·8	+20·1	22	120	
	9803	·571	236·9	350·8	−18·1	7	43	
	9801	·456	1·3	320·0	+27·1	31	182	
	9806	·562	149·7	301·9	−28·8	4	14	
	9804	·574	64·3	288·6	+14·4	14	65	
C	9805	·820	114·9	268·5	−20·1	26	190	276*n*
	9807	·934	105·6	252·6	−14·5	6	25	502*c*
		·856	63·3					66
		·881	71·9					211
		·886	107·8					328
		·907	55·3					144
Dec. 6			(+14·1)	(320·7)	(+0·1)	(145)	(789)	(3699)
340·319		·976	296·6					333
		·969	244·4					233
		·930	280·4					107
		·902	237·2					360
		·891	293·6					590
	9798	·847	281·0	7·3	+ 9·3	23	118	146*n*
	9803	·698	243·6	350·9	−17·6	4	15	
	9799	·698	299·4	350·3	+20·0	24	124	
	9801	·485	344·0	318·7	+27·6	44	237	
C	9806	·497	164·0	301·2	−28·4	4	17	
	9804	·431	55·8	288·7	+13·9	21	87	
	9805	·865	119·6	271·0	−19·7	70	447	
	9808	·779	107·9	260·5	−13·8	2	5	255*s*
	9807	·865	106·7	251·5	−14·4	13	109	420*c*
		·953	114·8					277
		·969	71·9					179
		·976	105·6					166
		·978	62·2					99
Dec. 7			(+13·8)	(310·1)	(0·0)	(205)	(1159)	(3165)
341·340		·962	238·5					162
		·948	293·9					417
		·887	228·1					119
	9798	·948	279·7	7·5	+ 9·1	3	6	277*n*
	9803	·835	248·7	351·2	−17·7	4	13	122*sf*
	9799	·833	294·6	350·2	+20·2	14	135	
	9801	·574	323·9	318·9	+27·5	45	268	
	9806	·483	182·4	297·9	−28·9	2	10	
C	9804	·268	29·3	288·9	+13·4	5	34	
	9805	·529	129·9	271·2	−19·8	113	796	
	9808	·600	117·9	263·2	−16·3	3	23	
	9807	·729	110·3	251·8	−14·7	6	36	254*c*
		·854	107·5					90
		·868	117·9					232
		·927	68·9					140
		·927	58·1					153
		·947	110·7					268
Dec. 8			(+13·3)	(296·6)	(−0·1)	(195)	(1321)	(2234)

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
342·446		·981	293·7					108
		·967	295·2					133
		·938	250·7					167
	9799	·935	291·4	349·5	+19·8	26	88	297*nf*
	9801	·696	311·6	317·7	+27·2	32	215	
	966b	·483	219·3	301·2	−22·1	1	10	
	9804	·260	331·8	289·2	+12·9	3	11	
G	9805	·379	151·7	271·0	−19·7	134	929	
	9809	·313	137·2	269·4	−13·5	0	3	
	966c	·442	35·1	266·3	+20·8	1	2	
	9807	·548	117·0	251·8	−14·6	2	12	
		·771	59·3					402
		·863	114·5					595
		·871	70·8					118
		·908	56·8					227
		·963	66·1					280
Dec. 9			(+12·9)	(282·0)	(−0·3)	(199)	(1270)	(2327)
343·482		·881	290·4					162
	9799	·992	290·2	350·2	+19·9	8	134	254*nf*
	9801	·818	304·3	317·6	+27·1	15	89	384*c*
	9804	·424	301·2	290·1	+12·3	2	6	
	9805	·337	186·8	270·8	−19·9	141	909	
G	9809	·239	182·2	268·9	−14·2	1	9	
	9808	·272	152·0	260·9	−14·2	0	6	
	9810	·951	66·6	198·3	+22·0	106	516	} 681*c*
	9811	·987	64·2	189·2	+25·3	85	500	
		·791	119·4					276
		·897	57·2					279
		·928	119·9					255
Dec. 10			(+12·4)	(268·4)	(−0·4)	(358)	(2169)	(2291)
344·302		·969	301·4					157
		·968	286·1					104
		·897	247·5					166
		·751	242·5					238
		·730	229·3					100
	9801	·914	300·9	319·7	+27·6	2	13	460*c*
	9805	·390	209·9	269·5	−20·2	118	1052	
	9807	·253	162·3	253·1	−14·4	0	3	
C	9810	·879	65·1	198·9	+21·4	181	754	735*c*
	9811	·944	62·7	189·6	+25·4	70	543	455*f*
	9812	·964	106·2	183·8	−15·7	30	104	346*c*
	9813	·987	64·7	178·3	+24·8	12	70	} 398*c*
	9814	·994	65·9	174·9	+23·9	22	83	
		·822	52·4					137
		·897	125·9					200
		·937	112·3					216
		·937	52·5					164
Dec. 11			(+12·1)	(257·6)	(−0·5)	(435)	(2622)	(3876)

Group 9806. Dec. 6–8. A pair of small spots of which the follower alone remains on Dec. 8.
Group 9807. Dec. 6–13. A disturbed area shown by bright faculæ and slight but persistent spot activity. No spots are seen on Dec. 10.
Group 9808. Dec. 7–10. One or two faint spots in faculæ *f* Group 9805. Nothing is seen on the photograph for Dec. 9.
Group 9809. Dec. 9–10. A very small outlying spot to Group 9805.
Group 9810. Dec. 10–22. A stream of large irregularly-shaped spots in constant change. The head of the stream, represented by a large spot intersected by a broad bright marking, is perhaps the most stable part of the disturbance, and its position from day to day is given in the ledgers. A large regular spot, comprising Group 9811, immediately follows Group 9810 and at times shows the barest separation from the follower of that group. Judging from the distribution of the accompanying faculæ, and the magnetic polarities of the spots determined at Mt. Wilson, the two groups should be considered as separate, though perhaps allied, disturbances.
Group 9811. Dec. 10–22. Return of Group 9795. A large regular spot closely following Group 9810 with which it makes a naked-eye object.
Group 9812. December 11–22. A regular spot followed by a cluster of small unstable spots which have all disappeared by Dec. 20.
Group 9813. Dec. 11–19. A small group closely preceding Group 9814 with which it represents a return of Group 9791.
Group 9814. Dec. 11–23. A spot, nearly of regular formation, with occasional small companions.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
345·458		·967	299·6					432
		·903	262·2					43
		·871	248·2					183
		·871	235·8					113
	9805	·538	231·4	268·8	−20·1	138	1045	
	9807	·295	217·9	253·0	−14·1	3	28	
	9810	·753	59·8	198·0	+21·8	177	914	464*c*
G	9811	·846	58·9	189·2	+25·4	71	608	618*c*
	9812	·862	107·7	184·1	−15·5	44	293	271*c*
	9813	·922	64·2	177·8	+23·3	67	255	}778*c*
	9814	·953	65·0	172·2	+23·5	54	192	
	9815	·982	110·3	164·0	−20·0	3	16	157*f*
		·816	116·2					119
		·929	116·8					135
Dec. 12			(+11·6)	(242·3)	(−0·7)	(557)	(3351)	(3313)
346·411		·944	249·3					174
		·937	237·3					127
		·871	286·4					149
	9805	·685	240·5	269·1	−20·1	114	1037	
	9807	·442	237·1	252·3	−14·6	1	3	
	9810	·628	52·1	197·7	+21·9	126	1035	
	9811	·742	53·5	188·6	+25·5	69	534	320*f*
C	9812	·747	110·1	183·3	−15·4	56	382	
	9813	·832	61·3	177·6	+23·0	37	181	120*c*
	9814	·879	62·5	171·8	+23·5	29	257	579*f*
	9815	·960	112·4	157·3	−21·7	53	161	456*c*
		·872	117·4					165
		·937	71·5					97
		·943	52·5					226
		·959	123·2					157
Dec. 13			(+11·1)	(229·8)	(−0·8)	(485)	(3590)	(2570)
347·506		·935	286·4					200
	9805	·821	245·0	267·9	−20·9	120	792	1109*c*
	9816	·436	215·9	231·2	−21·5	3	17	
	9817	·483	13·3	208·2	+27·0	7	20	
	966d	·302	122·1	200·3	−10·1	1	3	
	9810	·492	36·4	197·0	+22·4	244	1261	
	9811	·608	43·4	187·9	+25·3	76	479	
	9812	·570	115·9	183·4	−15·1	51	334	
G	9813	·692	54·3	177·8	+23·0	33	135	}332*c*
	9818	·770	53·9	171·6	+26·2	3	11	
	9814	·759	58·1	171·0	+23·0	36	203	
	9815	·866	114·7	157·7	−21·7	27	173	309*c*
	9819	·996	75·2	131·1	+14·7	64	330	170*c*
		·787	44·0					125
		·913	51·2					206
		·913	66·3					174
		·991	64·6					249
Dec. 14			(+10·6)	(215·3)	(−0·9)	(665)	(3758)	(2874)
1925.			°	°	°			
348·348		·742	247·3					367
	9805	·909	247·1	267·9	−21·0	80	637	1132*c*
	9817	·473	351·4	208·8	+26·8	2	7	
	9810	·411	16·3	197·2	+22·1	179	1297	
	9811	·517	30·2	187·6	+25·5	49	508	
	9812	·422	125·2	183·5	−15·0	48	260	
	9813	·567	44·9	178·7	+22·7	18	65	
	9814	·656	51·7	170·4	+23·1	26	201	232*f*
C	9815	·763	117·3	157·9	−21·1	23	150	76*c*
	9819	·963	73·7	131·1	+15·4	97	675	621*c*
	9820	·965	64·1	131·0	+25·2	16	75	420*c*
		·693	65·5					94
		·865	47·9					282
		·873	62·1					92
		·882	131·3					299
		·893	118·5					214
		·972	117·2					165
Dec. 15			(+10·3)	(204·3)	(−1·0)	(538)	(3875)	(3994)
349·360		·937	287·2					148
		·858	252·2					184
	9805	·977	249·8	268·0	−19·9	42	319	679*c*
	9816	·704	242·4	232·3	−19·8	1	3	
	9810	·410	347·0	196·6	+22·3	153	1438	
	9811	·449	7·4	187·3	+25·2	57	512	
	9812	·275	151·6	183·2	−15·0	32	213	
	9813	·446	25·6	178·9	+22·5	7	65	
	9814	·526	39·4	169·7	+22·9	22	187	
C	9815	·605	124·2	158·7	−20·7	19	102	
	9819	·883	71·8	130·7	+15·4	94	560	649*c*
	9820	·904	61·7	129·9	+24·8	44	192	402*c*
	9821	·979	108·0	113·2	−17·8	10	60	282*f*
		·789	124·3					120
		·881	115·6					78
		·893	123·3					122
		·893	133·3					69
		·969	124·2					157
		·976	70·0					416
Dec. 16			(+9·8)	(190·9)	(−1·1)	(481)	(3651)	(3306)
350·380		·960	253·1					297
		·870	243·7					234
		·731	235·2					108
	9810	·496	324·3	195·7	+22·4	138	1476	
	9811	·473	341·9	186·8	+25·3	50	428	
	9812	·256	205·1	183·9	−14·7	31	147	
	9813	·414	357·9	178·4	+23·0	4	41	
	9818	·463	10·7	172·1	+25·7	1	3	
C	9814	·428	17·9	169·3	+22·6	30	137	

Group 9815. Dec. 12–24. A stream of minor importance. On Dec. 19, however, a regular spot has appeared at the head of the disturbance.
Group 9816. Dec. 14–16. Two very small spots seen only on Dec. 14, a single spot on Dec. 16.
Group 9817. Dec. 14–15. Three or four tiny markings in a stream *np* Group 9810.
Group 9818. Dec. 14–24. A few small spots in a short stream *n* Group 9814. No spots are seen on Dec. 15 and 16.
Group 9819. Dec. 14–27. Return of Group 9790. A large spot whose umbra is crossed by a bright "bridge" until Dec. 25. An extensive area of faculæ follows the spot.
Group 9820. Dec. 15–26. A stream of spots developing *n* of Group 9819. The leader, which has become a regular spot by Dec. 21, is the only important component.
Group 9821. Dec. 16–26. A small regular spot followed by a train of very small spots until Dec. 22.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
350·380	9815	·429	140·2	160·5	−20·4	19	102	
	9820	·765	55·5	133·7	+24·6	24	197	192*c*
	9819	·759	67·7	130·8	+15·8	106	594	523*c*
	9821	·904	109·3	114·0	−17·9	20	59	571*f*
	9822	·973	101·9	101·2	−11·8	17	89	94*c*
C		·757	120·1					68
		·861	126·5					134
		·917	138·2					177
		·923	66·5					476
		·968	121·7					141
Dec. 17			(+9·3)	(177·5)	(−1·3)	(440)	(3273)	(3015)
351·339		·966	248·3					232
		·932	296·1					207
		·867	246·5					291
	9810	·620	310·5	195·4	+22·5	145	1132	
	9811	·560	323·9	186·3	+25·5	52	322	
	9812	·384	233·1	183·3	−14·7	18	117	
	966e	·413	324·3	179·5	+18·2	2	6	
	9813	·468	334·5	177·5	+23·5	1	7	
	9818	·474	350·8	169·7	+26·4	5	12	
	9814	·418	350·9	169·0	+22·9	17	105	
C	9815	·332	169·7	161·3	−20·4	37	118	
	9820	·644	47·5	133·6	+24·5	40	207	
	9819	·618	61·5	130·6	+16·0	98	569	
	9821	·821	110·9	111·4	−17·8	28	131	522*c*
	9822	·902	102·6	101·0	−11·9	15	116	481*f*
	9823	·993	68·2	83·1	+21·4	16	69	406*p*
		·848	64·5					1052
		·920	123·3					139
		·929	141·9					147
		·970	114·3					149
		·988	122·3					167
Dec. 18			(+8·9)	(164·9)	(−1·4)	(474)	(2911)	(3793)
352·330		·939	248·7					213
	9810	·759	301·8	195·9	+22·5	131	995	903*p*
	9811	·682	312·2	185·8	+25·9	36	270	
	9812	·556	244·4	183·0	−15·2	17	113	
	9813	·589	318·0	177·4	+24·5	5	16	
	9814	·486	327·4	168·2	+22·6	22	101	
	9818	·534	331·5	168·3	+26·4	8	37	
	9815	·377	211·8	164·0	−20·1	32	211	
	9820	·520	31·8	134·3	+24·7	82	341	
	9819	·459	49·5	130·6	+15·9	100	572	
	9821	·665	115·3	112·9	−17·6	22	118	414*f*
	9822	·785	104·5	101·0	−12·2	17	135	362*f*
	9823	·953	66·6	81·8	+21·7	10	41	745*c*
C	9824	·992	75·2	69·9	+14·5	31	195	107*c*

G.M.T.	Group N	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
352·330	9825	·976	110·5	75·0	−20·3	9	52	188*c*
		·745	57·6					538
C		·918	111·6					185
		·931	124·6					165
Dec. 19			(+8·4)	(151·8)	(−1·5)	(522)	(3197)	(3820)
353·394		·977	247·7					232
		·872	235·5					160
	9810	·880	295·5	196·1	+21·3	169	1106	713*c*
	9811	·806	303·7	185·5	+25·3	69	319	181*f*
	9826	·761	246·7	185·1	−18·6	8	29	
	9812	·737	252·1	184·0	−14·2	16	75	
	9814	·614	310·7	167·8	+22·1	13	61	
	9818	·638	315·1	167·6	+25·3	36	152	
	9815	·525	232·3	164·0	−20·2	36	280	
	966f	·449	337·7	148·4	+22·7	4	20	
C	9827	·394	4·0	136·1	+21·3	1	3	
	9820	·453	6·9	134·4	+25·0	64	368	
	9819	·324	22·3	130·5	+15·7	107	537	
	9821	·505	123·5	111·7	−17·6	23	78	
	9822	·614	108·3	101·3	−12·4	26	149	
	9823	·862	63·5	81·9	+21·7	10	31	575*c*
	9825	·934	111·8	69·9	−20·9	115	614	354*f*
	9824	·939	73·9	69·3	+14·5	36	258	436*c*
	9828	·985	69·5	59·3	+19·8	11	54	403*c*
		·843	128·8					121
		·864	74·3					105
		·931	122·1					100
		·974	59·5					115
			(+7·9)	(137·8)	(−1·7)	(744)	(4134)	(3495)
Dec. 20								
354·338		·932	310·5					129
		·930	239·3					142
	9810	·957	293·0	196·2	+21·4	111	707	945*c*
	9811	·897	299·8	184·8	+25·5	62	349	527*f*
	9812	·861	254·5	184·0	−14·2	8	66	} 361*c*
	9826	·860	248·5	183·1	−19·3	16	87	
	9814	·740	303·4	167·4	+22·6	9	47	} 352*c*
	9818	·760	307·7	167·4	+26·3	18	78	
	9815	·673	240·8	164·1	−20·5	49	306	
	9820	·480	341·6	135·0	+25·1	52	298	
	9819	·318	343·9	130·6	+15·9	83	509	
	9821	·360	141·1	111·7	−17·9	7	36	
	9822	·439	115·1	101·5	−12·3	16	115	
	9823	·753	58·3	81·9	+21·9	5	16	317*c*
	9829	·836	125·6	73·8	−30·1	4	10	492*c*
C	9825	·831	113·5	71·2	−20·4	123	816	130*f*

Group 9822. Dec. 17–29. A stable regular spot.
Group 9823. Dec. 18–25. Return of Group 9794. A small definite spot with a companion on Dec. 22 and 23. Nothing is seen on Dec. 24, but four small markings appear on Dec. 25.
Group 9824. Dec. 19–31. A stable regular spot slightly elliptical. The major axis is inclined about 30° equatorwards.
Group 9825. Dec. 19–1926 Jan. 1. Three small spots, close to the east limb on Dec. 19, developing into a very large stream approximately of normal type. The follower, however, is the first to be completely formed and is of regular type throughout. The leader, on the contrary, never quite attains complete regularity and by Dec. 26 it commences to divide into two portions. The group is easily visible to the naked eye.
Group 9826. Dec. 20–22. A wide pair of spots appearing *s* of Group 9812.
Group 9827. Dec. 20–22. A tiny outlying spot to Group 9820, not seen on Dec. 21; two others have appeared on Dec. 22.
Group 9828. Dec. 20–30. One or two very small spots *nf* Group 9824; none are seen on Dec. 24 and 25.
Group 9829. Dec. 21–22. A single very small spot.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

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1925.			°	°	°			
354·338	9824	·844	71·1	69·9	+14·8	51	247	379*f*
	9828	·926	66·9	60·2	+20·5	3	10	279*nf*
C		·759	70·7					80
		·889	59·5					164
Dec. 21			(+7·5)	(125·4)	(−1·8)	(617)	(3697)	(4297)
355·322		·956	309·9					115
		·953	184·5					31
		·904	239·0					159
		·828	312·7					216
		·720	235·0					144
	9810	·988	293·3	191·6	+22·6	23	199	542*c*
	9811	·967	297·2	184·7	+25·6	41	297	524*f*
	9826	·955	251·0	184·5	−18·7	7	19	} 397*c*
	9812	·949	255·8	183·7	−14·1	6	27	
	9814	·858	298·0	167·4	+22·6	10	24	307*c*
	9818	·857	302·4	165·9	+26·2	36	106	224*c*
	9815	·820	247·4	165·6	−19·4	47	243	320*c*
	9827	·529	316·7	135·1	+20·8	2	17	
C	9820	·572	322·2	135·1	+25·0	60	273	
	9819	·422	315·5	130·2	+15·7	104	511	
	9821	·276	172·5	110·2	−17·7	13	46	
	9822	·261	134·1	101·4	−12·3	20	112	
	9823	·640	49·9	80·5	+22·7	6	12	
	9829	·714	132·2	74·9	−30·1	1	1	
	9825	·696	117·8	71·5	−20·3	125	896	
	9824	·712	67·3	69·8	+14·5	36	204	271*f*
	9828	·836	63·0	59·6	+21·1	2	5	275*f*
	9830	·989	66·2	32·7	+23·2	161	1191	288*c*
		·790	56·7					205
		·929	72·4					226
		·953	56·4					103
		·977	113·4					242
Dec. 22			(+7·0)	(112·4)	(−1·9)	(700)	(4183)	(4589)
356·317		·990	251·3					377
		·987	297·5					242
		·960	198·0					40
		·907	284·7					137
		·888	309·9					273
	9814	·941	294·9	166·6	+22·5	6	25	} 470*c*
	9818	·942	298·5	166·1	+25·9	31	118	
	9815	·926	250·1	166·2	−19·1	25	163	662*f*
	9820	·692	309·3	135·1	+24·3	57	270	
	9819	·580	301·1	130·2	+15·7	100	508	
	9821	·357	218·3	112·7	−18·2	4	11	
	9822	·183	192·4	101·6	−12·2	21	99	
	9823	·461	34·0	83·4	+20·4	2	6	
C	9825	·538	127·1	72·1	−20·6	186	1181	

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
356·317	9824	·550	59·5	70·1	+14·4	44	209	
	9828	·702	56·9	60·4	+20·9	1	6	217*f*
	9830	·952	64·5	30·0	+23·5	483	2530	575*f*
C		·760	47·7					89
		·826	71·4					158
		·902	113·8					243
		·975	119·1					148
Dec. 23			(+6·5)	(99·3)	(−2·0)	(960)	(5126)	(3631)
357·314		·972	286·7					67
		·926	310·3					290
		·909	298·5					120
		·847	289·6					212
		·821	236·3					91
	9815	·987	251·1	166·8	−19·0	18	140	651*sf*
	9818	·990	297·0	165·9	+26·4	27	72	548*c*
	9820	·838	300·9	138·0	+24·1	43	221	367*c*
	9819	·733	293·9	130·1	+15·7	111	474	
C	9831	·580	309·2	114·6	+19·6	4	13	
	9821	·511	237·5	113·0	−17·7	8	17	
	9822	·317	236·1	101·7	−12·2	18	104	
	9825	·391	144·1	72·1	−20·4	222	1479	
	9824	·394	43·5	70·0	+14·5	34	192	
	9832	·640	38·0	59·7	+28·3	3	8	
	9830	·871	61·2	30·0	+23·6	381	2390	855*c*
		·822	118·2					137
		·946	122·5					193
		·956	74·6					390
Dec. 24			(+6·1)	(86·2)	(−2·1)	(869)	(5110)	(3921)
358·400								
		·980	245·6					197
		·953	306·9					86
		·920	241·6					127
		·840	231·5					171
	9820	·930	297·6	136·5	+24·5	41	243	504*f*
	9819	·867	289·7	129·6	+15·7	101	435	624*c*
	9821	·687	246·3	113·0	−17·7	4	14	
	9831	·720	300·3	112·9	+19·5	1	9	
	9822	·518	249·9	101·5	−12·2	21	122	
	9823	·455	331·9	85·0	+21·3	3	25	
	9825	·319	181·0	72·1	−20·8	280	1620	
	966g	·388	175·8	70·0	−25·0	1	2	
	9824	·297	7·7	69·5	+14·8	40	211	
	9832	·564	21·7	58·0	+29·3	2	9	
	9830	·737	55·2	30·8	+23·1	448	2545	} 753*f*
	966h	·836	51·3	23·1	+29·9	4	21	
	966i	·943	66·9	3·9	+20·9	3	12	289*f*
C		·740	123·9					231

Group 9830. Dec. 22–Jan. 4. A magnificent complex spot easily visible to the naked eye. When first seen near the east limb, the spot appears nearly regular in formation, and is followed by a composite spot which later coalesces with it. When seen near the central meridian, the compound spot extends for nearly 18° in longitude. A small companion spot with eccentrically developed penumbra is measured separately.
Group 9831. Dec. 24–26. A pair of small spots in the faculæ *f* Group 9819.
Group 9832. Dec. 24–28. A small group.

POSITIONS and AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

G.M.T.	Group No.	Measures. Dist.	Measures. Pos. Angle.	Position. Long.	Position. Lat.	Area. Umbræ.	Area. Whole Spots.	Area. Faculæ.
1925.			°	°	°			
358·400		·873	71·3					327
C		·910	122·8					296
Dec. 25			(+5·5)	(71·8)	(−2·3)	(949)	(5268)	(3605)
359·466		·902	231·8					201
		·749	311·8					221
	9820	·990	294·8	137·6	+24·1	31	206	347*f*
	9819	·959	286·7	129·7	+15·2	75	494	501*c*
	9821	·830	250·4	112·6	−17·5	4	15	433*c*
	9831	·849	294·5	112·5	+19·2	6	26	274*c*
	9822	·703	254·8	101·6	−12·4	21	104	
G	9825	·392	215·9	72·0	−20·7	330	1856	
	9824	·350	326·8	69·2	+14·6	43	203	
	9828	·369	346·8	62·9	+18·5	2	5	
	9832	·514	358·6	58·6	+28·4	20	80	
	9830	·604	45·3	30·1	+23·0	506	2620	607*f*
	966j	·720	67·2	14·7	+14·4	1	3	69*f*
		·840	126·0					259
		·852	64·0					405
Dec. 26			(+5·0)	(57·8)	(−2·4)	(1039)	(5612)	(3317)
360·355		·988	296·6					334
		·924	233·6					142
		·903	294·4					490
		·896	251·2					484
		·864	305·2					271
		·724	303·2					418
	9819	·994	285·8	128·6	+15·4	92	426	550*nf*
	9822	·828	256·7	101·5	−12·4	22	124	245*c*
	9825	·512	232·6	71·7	−20·3	354	2124	
C	9824	·479	308·6	68·8	+15·0	38	201	
	9828	·455	326·7	61·4	+19·8	2	10	
	9832	·551	339·4	58·8	+28·5	14	46	
	966k	·390	343·6	52·8	+19·4	1	3	
	9830	·495	30·4	30·4	+22·8	406	2728	
		·760	56·9					407
		·901	64·7					288
		·932	55·6					52
		·980	55·2					113
Dec. 27			(+4·6)	(46·1)	(−2·5)	(929)	(5662)	(3794)
361·337		·968	291·9					290
		·966	251·6					369
		·940	301·5					260
		·911	239·7					215
		·847	297·9					471
	9822	·931	258·0	101·6	−12·1	18	97	376*c*
	9825	·659	241·7	71·2	−20·2	348	2011	
	9824	·637	298·3	68·6	+15·4	27	173	
	9832	·664	319·7	62·2	+28·0	1	4	
	9828	·568	310·3	60·4	+19·2	1	4	
	966l	·433	337·1	43·5	+20·9	1	2	
	9833	·234	9·6	30·9	+10·7	23	53	
	9830	·436	8·2	29·3	+22·8	464	2659	
	9834	·573	21·2	19·5	+29·7	4	23	
C	9835	·854	40·7	348·1	+38·4	15	42	113*c*
361·337		·814	59·9					131
C		·952	64·5					211
		·970	77·3					204
Dec. 28			(+4·1)	(33·2)	(−2·6)	(902)	(5068)	(2640)
362·337		·941	236·8					185
		·936	294·1					260
		·889	303·0					171
		·864	288·7					147
		·751	312·6					171
	9822	·987	257·9	100·8	−12·4	12	64	287*f*
	9825	·799	246·5	71·3	−20·3	316	1991	309*c*
	9824	·782	292·6	68·3	+15·5	37	189	
C	9828	·726	301·5	61·1	+20·1	12	35	
	9833	·314	318·4	32·2	+10·8	42	242	
	9830	·461	342·1	28·8	+23·1	462	2726	
	9834	·545	0·9	19·9	+30·1	5	16	
	9835	·783	32·9	347·1	+38·6	25	66	
		·901	74·8					212
		·904	61·6					152
		·961	57·5					158
Dec. 29			(+3·7)	(20·0)	(−2·8)	(911)	(5329)	(2052)
363·119		·963	296·7					421
		·944	285·5					144
		·883	300·1					293
		·782	309·6					336
	9825	·882	248·1	70·4	−20·5	372	2030	676*c*
	9824	·877	290·0	68·5	+16·0	45	214	} 491*c*
	9828	·824	296·0	61·3	+19·4	7	23	
K	9833	·452	301·0	32·8	+10·8	59	234	
	9830	·537	324·2	29·6	+23·1	572	2795	
	9834	·568	346·1	18·8	+30·6	2	22	
	9835	·724	24·0	347·6	+38·6	18	41	
		·831	71·9					139
		·851	57·1					86
		·945	54·1					196
Dec. 30			(+3·3)	(9·7)	(−2·8)	(1075)	(5359)	(2782)
364·559		·955	302·2					176
		·951	239·2					85
		·890	303·2					203
		·866	291·8					130
	9824	·985	287·0	69·2	+16·1	23	226	631*nf*
	9825	·977	249·2	68·3	−20·9	252	1725	447*c*
	967a	·818	284·0	44·1	+ 9·6	0	3	53*np*
	9833	·705	288·6	33·4	+10·8	41	217	
C	9830	·727	306·5	30·0	+23·2	446	2934	
	9836	·573	309·3	18·5	+18·5	5	27	
	9835	·674	6·4	345·2	+38·9	15	28	
	9837	·944	64·0	283·4	+23·3	6	20	174*f*
		·848	48·4					258
		·935	74·4					95
		·950	108·6					616
Dec. 31			(+2·6)	(350·7)	(−3·0)	(788)	(5180)	(2868)

Group 9833. Dec. 28–Jan. 3. A small stream of normal type.
Group 9834. Dec. 28–30. A small group of very small spots *nf* Group 9830.
Group 9835. Dec. 28–Jan. 6. A small group of stream type in high northern latitude. The leader alone remains after Jan. 4.
Group 9836. Dec. 31–Jan. 1. A small group *sf* Group 9830.
Group 9837. Dec. 31–Jan. 3. A small definite spot.

ROYAL OBSERVATORY, GREENWICH

General Catalogue of Groups of Sun Spots

for the Year

1925

GREENWICH PHOTO-HELIOGRAPHIC RESULTS 1925

GENERAL CATALOGUE OF GROUPS of SUN SPOTS for the YEAR 1925.

Groups of Sun Spots, lasting for two or more days, are numbered in the *first* column in continuation of the Group-numbers given in 1924 and the previous years. Groups seen only once are not included in this Catalogue.

The *second* column gives the duration of each group in days. Intermittent Groups, *i.e.*, groups which are not seen upon the photographs of every day between their first and last appearances, are indicated by a fraction, the numerator of which represents the number of days on which they are actually observed; the denominator being the interval in days between the extreme limits of observation.

The *fourth* and *sixth* columns, headed "Longitude from Central Meridian," give, for the days on which each Group was first and last seen respectively, the mean heliographic longitude from the meridian passing through the centre of the Sun's disc at the observation; longitudes west of the centre being reckoned as positive.

The Mean Areas for Umbræ and Whole Spots entered in the *seventh* and *eighth* columns are corrected for the effect of foreshortening and are expressed in millionths of the Sun's visible hemisphere.

The *ninth* and *tenth* columns give the mean heliographic position of the group in longitude and latitude respectively.

The *eleventh* column gives reference to all Groups contained in Ledgers I. and II.; for a Group in Ledger I. both its recurrent series number and its order in the series are also given.

With reference to the identification both of Recurrent and Revival Groups, it should be noted that longitudes are based on the ephemeris given in the *Nautical Almanac*, assuming a solar rotation period, constant at all latitudes. After an interval of one rotation, recurring groups will, therefore, show in general—apart from any proper motion they may have of their own—apparent drifts in longitude varying in amount according to their respective latitudes. The following table derived from the formula $\xi = 14^\circ{\cdot}37 - 2^\circ{\cdot}60 \sin^2\phi$ gives the apparent drift in longitude appropriate to corresponding latitudes after an interval of 27 days.

Latitude.	Drift *forwards.*	Latitude.	Drift. *backwards.*
0°	5°	20°	3°
5°	4·5	25°	7·5
10°	3	30°	12·5
15°	0·5	35°	18

GENERAL CATALOGUE OF SUN SPOTS.

No. of Group.	Duration in Days.	First Seen.		Last Seen.		Mean Area Corrected for Foreshortening.		Mean Position of Group.		Reference to Ledger.	NOTES.
		Date.	Longitude from Central Meridian.	Date.	Longitude from Central Meridian.	Umbræ.	Whole Spots.	Longitude.	Latitude.		
		1925.	°	1925.	°			°	°		
9596	7	Jan. 2	−73·8	Jan. 8	+ 0·1	3	15	29·0	−16·7		
7	2	11	− 6·3	12	+ 4·9	6	20	339·7	−34·8		
8	9/10	16	−35·1	25	+76·8	13	78	245·2	+23·8	II.	Revival of Group 9593.
9	3	18	+46·3	20	+70·5	8	42	299·6	+13·1		
9600	2	20	+14·7	21	+24·9	0	14	240·8	+26·5		
1	2	31	−74·7	Feb. 1	−59·2	2	20	8·2	+23·4		
2	3	Feb. 1	+15·6	3	+40·5	7	30	83·0	−33·4		
3	5	2	+21·9	6	+70·5	4	21	75·0	+24·0		
4	3	3	−65·7	5	−39·3	0	7	337·1	−31·9		
5	4	5	+36·5	8	+72·9	6	29	51·8	+23·7		
6	8	7	−15·4	14	+81·2	31	181	336·7	+ 9·0	II.	
7	13	7	−81·5	19	+73·2	66	443	266·8	−19·1	II.	
8	6	9	−50·7	14	+ 3·8	3	16	266·6	+31·6		
9	5/6	11	−58·3	16	+10·6	3	10	240·4	+15·8	II.	
9610	5/7	11	−64·1	17	+ 8·8	1	5	231·0	+22·9	II.	
1	7	12	−15·0	18	+54·6	13	62	263·7	−31·2	II.	
2	5	19	+12·9	23	+64·0	14	58	205·1	−22·4		
3	2	20	−83·6	21	−72·4	0	30	93·8	−29·0		
4	6	28	− 0·1	Mar. 5	+72·0	5	29	76·0	−26·0	II.	
5	13	Mar. 11	−76·4	23	+85·7	44	283	215·8	−21·4	I. 963 (1)	
6	3	17	+39·0	19	+59·0	2	9	244·4	+17·1		Revival of Group 9609
7	5	18	+26·0	22	+78·1	7	35	220·9	−30·4		
8	10	23	−38·3	Apr. 1	+76·9	52	336	91·4	+20·2	II.	
9	7/8	23	−51·0	Mar. 30	+40·5	4	13	79·2	+20·5	II.	
9620	5	Apr. 2	−77·7	Apr. 6	−25·0	9	53	280·3	−32·8	II.	
1	7/8	4	−68·0	11	+24·1	5	23	265·6	+15·9	II.	
2	7	7	−67·1	13	+ 7·9	8	37	223·5	+30·9	II.	
3	7/9	7	−79·3	15	+23·2	8	39	212·9	−23·1	I. 963 (2)	
4	2	9	−10·6	10	+ 8·3	2	5	257·4	−15·6		
5	9	9	−33·9	17	+75·3	50	285	234·2	+21·1	I. 964 (1)	
6	4	10	+27·0	13	+65·7	13	47	278·2	+11·6		
7	9	10	−55·7	18	+46·7	12	57	195·8	+20·8	II.	
8	6	12	−77·9	17	−11·5	6	17	149·2	+17·5	II.	
9	6	15	−21·4	20	+45·7	10	28	167·4	+21·4		
9630	5	17	−77·1	21	−25·5	6	16	82·5	+18·2	II.	Revival of Group 9618.
1	11	17	−79·3	27	+56·7	23	158	81·2	−24·3	II.	
2	8	19	−25·7	26	+68·3	7	27	108·4	+20·2	II.	
3	6	19	−69·5	24	− 5·6	7	20	63·5	+15·8	II.	
4	8	21	−15·3	28	+74·8	29	149	89·4	+26·5	II.	Revival of Group 9618.
5	4	25	−30·8	28	+10·2	4	14	24·1	−17·6		
6	2	29	+36·6	30	+48·8	6	20	38·2	+11·6		
7	13	30	−77·2	May 12	+81·3	119	746	271·6	+15·7	I. 965 (1)	Revival of Group 9621.
8	9	May 3	−75·1	11	+29·0	3	18	233·5	+20·7	I. 964 (2)	
9	2	4	+62·3	5	+71·6	1	10	354·8	−25·8		

GENERAL CATALOGUE OF SUN SPOTS—*continued*.

No. of Group.	Duration in Days.	First Seen.		Last Seen.		Mean Area Corrected for Foreshortening.		Mean Position of Group.		Reference to Ledger	NOTES.
		Date.	Longitude from Central Meridian.	Date.	Longitude from Central Meridian.	Umbræ.	Whole Spots.	Longitude.	Latitude.		
		1925.	°	1925.	°			°	°		
9640	12	May 8	−69·7	May 19	+72·3	17	90	166·7	−18·8	II.	
1	4	9	−33·6	12	+ 4·9	3	15	196·2	+27·3		
2	12	12	−77·2	23	+74·5	31	181	114·8	+18·2	II.	Revival of Group 9632.
3	9	14	−57·9	22	+46·7	6	33	103·2	+25·8	II.	
4	2	16	+59·1	17	+73·7	6	20	197·5	−15·8		
5	7	16	− 0·6	22	+77·0	35	225	136·0	+33·5	II.	
6	2	16	−23·9	17	−12·1	0	4	113·1	+22·8		
7	6	16	−39·4	21	+27·1	3	13	97·6	−20·3		
8	11	17	−54·7	27	+76·2	23	97	71·2	+20·2	II.	
9	13	17	−73·6	29	+81·8	63	406	53·7	+22·2	I. 966 (1)	
9650	2	20	+ 3·4	21	+19·0	1	6	89·5	+27·6		
1	5	20	−66·5	24	−13·4	4	17	18·9	−19·4		Revival near Group 9635.
2	3	27	+ 4·6	29	+33·7	4	12	357·8	−20·2		
3	8	27	−15·7	June 3	+75·6	21	147	336·8	−19·8	II.	
4	12	27	−81·0	7	+61·7	27	159	269·7	+13·7	I. 965 (2)	
5	2	30	−70·6	May 31	−59·6	1	12	241·0	−25·4		
6	9	June 1	−32·1	June 9	+73·5	82	469	254·0	+26·0	II.	
7	12	1	−72·9	12	+67·0	12	73	209·5	−28·0	II.	
8	14	1	−75·4	14	+86·1	18	96	207·8	+30·1	II.	
9	12/13	1	−76·7	13	+77·1	7	28	207·2	+25·4	II.	
9660	13	3	−74·1	15	+81·9	28	155	184·4	+20·6	II.	
1	3	4	−72·2	6	−47·1	4	19	174·0	−17·5		Revival of Group 9640
2	3	5	+44·4	7	+68·8	5	24	276·8	−23·0		
3	12	5	−72·2	16	+77·0	19	113	163·8	+22·7	II.	
4	3	7	+46·1	9	+71·2	8	28	253·0	+18·0		
5	9	7	−38·6	15	+74·2	18	92	172·6	+18·0	II.	
6	12	7	−79·7	18	+74·0	15	81	132·7	+17·1	II.	
7	6	8	+15·1	13	+77·0	47	313	207·9	−13·7	I. 967 (1)	
8	8	8	−73·8	15	+19·8	35	197	121·4	+19·0	II.	Revival of Group 9642.
9	4	12	+48·4	15	+81·3	38	231	188·2	−34·5	I. 968 (1)	
9670	4/9	13	−73·9	21	+33·9	0	3	54·0	+22·0	I. 966 (2)	
1	2	18	−27·0	19	−13·3	1	5	34·4	+25·8		
2	3	22	+39·3	24	+65·5	4	13	46·5	+10·1		
3	2	22	+30·9	23	+47·2	11	43	38·4	−28·3		
4	9	24	−77·2	July 2	+21·1	10	62	262·9	−27·1	II.	
5	13	27	−84·5	9	+73·3	25	159	216·5	−12·3	I. 967 (2)	
6	6	30	−75·6	6	− 0·5	7	32	183·6	−35·2	I. 968 (2)	
7	12	July 2	−70·2	13	+74·5	75	475	164·8	−15·1	II.	
8	5	3	+16·7	7	+77·1	11	42	242·7	−29·7	I. 969 (1)	
9	2	4	+54·3	5	+66·6	2	12	262·8	+15·8		
9680	4/5	5	−51·6	9	+ 3·5	2	9	145·6	+14·9		
1	3/4	7	−35·3	10	+ 0·1	1	4	130·6	−19·6		
2	10	9	−67·5	18	+56·9	15	77	79·7	+17·6	II.	
3	7	10	−75·0	16	+ 2·7	10	50	53·7	+19·0	II.	Revival of Group 9670.
4	12	10	−86·9	21	+59·8	14	77	43·0	+22·9	II.	
5	4/7	13	− 1·2	19	+79·7	7	25	89·4	−20·3	II.	
6	4/7	16	−20·7	22	+53·7	2	8	26·1	+25·4		
7	6	16	−58·4	21	+ 9·0	6	21	353·2	−17·4	II.	
8	5	19	− 3·9	23	+49·0	9	35	6·8	+17·5		
9	3	20	+30·8	22	+54·1	12	34	25·1	−25·3		

GENERAL CATALOGUE of SUN SPOTS—*continued.*

No. of Group.	Duration in Days.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	Mean Area Corrected for Foreshortening. Umbræ.	Mean Area Corrected for Foreshortening. Whole Spots.	Mean Position of Group. Longitude.	Mean Position of Group. Latitude.	Reference to Ledger.	NOTES.
		1925.	°	1925.	°			°	°		
9690	2	July 20	−64·9	July 21	−52·9	1	7	290·0	+14·2		
1	10	24	−42·1	Aug. 2	+81·2	34	193	263·5	+21·2	II.	
2	12	24	−66·0	4	+79·0	34	175	238·9	−29·0	I. 969 (2)	
3	7	25	−70·3	July 31	+ 9·4	7	19	220·6	−11·2	I. 967 (3)	
4	3	26	−56·5	28	−31·0	1	5	220·1	−18·9		
5	4	Aug. 3	+ 4·8	Aug. 6	+46·5	3	15	177·7	−14·8		
6	3/4	5	−10·3	8	+26·7	2	8	133·0	+21·9		
7	4	6	+23·3	9	+65·6	21	98	156·6	−27·8		
8	8	7	− 7·4	14	+79·3	74	530	111·3	+23·4	I. 970 (1)	
9	7	8	−16·1	14	+60·0	3	17	89·2	−27·2	II.	
9700	7	8	−50·4	14	+34·9	11	47	58·2	+21·4	II.	
1	7	8	−80·6	14	− 5·7	5	36	26·2	+22·2	II.	
2	3	10	−15·8	12	+12·5	2	10	64·6	+20·6		
3	3/5	10	−26·8	14	+25·6	1	6	52·4	+23·2		
4	5	17	+29·1	21	+80·6	13	79	13·8	+26·4		Revival of Group 9686.
5	11	19	−77·8	29	+50·2	12	65	240·8	−27·0	I. 969 (3)	
6	2	20	− 3·6	21	+11·2	2	8	303·8	+15·0		
7	13	21	−80·1	Sept. 2	+78·0	46	274	213·9	−17·7	I. 971 (1)	Revival near Group 9694.
8	12	23	−71·3	3	+77·2	43	240	195·1	+23·5	I. 972 (1)	
9	3/4	23	−80·3	Aug. 26	−45·4	3	23	184·8	+26·1		
9710	8	25	−41·0	Sept. 1	+58·9	26	113	203·2	+19·1	II.	
1	2	26	+70·3	Aug. 27	+83·2	18	80	298·5	+15·8		
2	2	26	+58·4	27	+75·8	5	15	287·4	−19·8		
3	8	28	−48·8	Sept. 4	+45·9	17	92	152·8	+22·6	II.	
4	2	29	+37·6	Aug. 30	+53·7	2	3	227·6	−28·2		
5	7	29	−86·3	Sept. 4	− 3·1	6	24	103·8	+23·6	I. 970 (2)	
6	3	30	+62·9	1	+84·6	7	24	236·8	+30·6	I. 973 (1)	
7	10	30	−73·2	8	+41·8	10	41	99·7	+21·3	I. 970 (2)	
8	4	31	+22·4	3	+57·0	5	23	181·6	−18·5		
9	5	31	+15·6	4	+69·7	6	31	176·7	+19·5		
9720	2	Sept. 2	+20·3	3	+34·8	5	18	156·5	−30·4		
1	4	2	−48·9	5	− 9·1	5	19	86·5	−18·4		
2	4	3	+38·4	6	+76·0	13	48	160·0	−23·3		
3	8	3	−22·4	10	+68·0	13	60	99·0	+14·4	II.	
4	3	4	+21·5	6	+51·4	4	13	131·6	+21·4		Revival of Group 9696.
5	2	4	−64·1	5	−52·8	4	16	43·6	+17·8		
6	3	4	−80·7	6	−51·0	7	22	29·8	+21·4		Revival of Group 9701.
7	2	6	+24·0	7	+36·6	4	12	104·2	−26·8		
8	8/9	6	−19·6	14	+81·3	74	449	61·2	+19·4	II.	Revival of Groups 9700 and 9702.
9	4	7	+28·3	10	+67·5	18	76	96·0	+25·9		
9730	6/9	8	−33·1	16	+69·4	2	12	22·5	+20·8	II.	
1	3	11	− 4·8	13	+19·8	2	7	10·7	−19·4		
2	9	14	−36·3	22	+70·8	16	63	302·6	+18·5	II.	
3	4	15	− 2·4	18	+38·3	4	15	321·5	−19·0		
4	11	15	−83·5	25	+41·6	18	90	236·4	+29·2	I. 973 (2)	
5	9	16	−83·4	24	+17·9	10	44	223·6	+30·7		
6	13	17	−81·5	29	+76·1	19	103	215·1	−16·7	I. 971 (2)	
7	9	18	−76·0	26	+32·5	4	16	209·5	+17·8	II.	
8	10	18	−81·8	27	+34·2	15	63	201·2	+22·8	I. 972 (2)	
9	13	18	−69·6	30	+78·5	26	154	210·0	−33·4	II.	

GENERAL CATALOGUE OF SUN SPOTS—*continued.*

No. of Group.	Duration in Days.	First Seen.		Last Seen.		Mean Area Corrected for Foreshortening.		Mean Position of Group.		Reference to Ledger.	NOTES.
		Date.	Longitude from Central Meridian.	Date.	Longitude from Central Meridian.	Umbræ.	Whole Spots.	Longitude.	Latitude.		
		1925.	°	1925.	°			°	°		
9740	3	Sept. 19	+29·9	Sept. 21	+57·8	4	17	301·5	−16·5		
1	11	19	−51·0	29	+77·4	58	331	221·0	−13·3	I. 974 (1)	
2	3/4	20	−72·3	23	−31·8	2	10	185·5	+25·1		Revival of Group 9709.
3	11	21	−52·0	Oct. 1	+83·0	33	187	193·1	+20·7	I. 975 (1)	
4	2	22	− 5·4	Sept. 23	+11·7	1	6	227·8	+34·0		
5	10	25	−47·3	Oct. 4	+78·6	47	219	148·3	+12·3	II.	
6	2	28	+56·5	Sept. 29	+67·5	9	41	206·8	−28·0		
7	11	28	−59·7	Oct. 8	+76·3	64	387	90·9	−19·8	II.	
8	13	28	−77·5	10	+79·4	20	116	72·9	+16·0	II.	
9	5	29	+ 8·6	3	+66·5	4	14	150·3	+23·5		Revival of Group 9713.
9750	11	Oct. 1	−77·9	11	+56·0	10	49	34·3	+14·9	II.	
1	9	5	−29·7	13	+72·5	10	54	28·7	+20·1	II.	Revival of Group 9726.
2	2	8	−63·3	9	−51·6	3	13	315·2	−20·0		
3	11	9	−58·4	19	+77·0	15	94	311·8	−16·9	II.	
4	2	9	+42·6	10	+57·0	3	10	50·0	+24·4		
5	3	10	−69·8	12	−44·0	4	20	284·0	−19·3		
6	4	11	+35·1	14	+73·2	5	28	14·0	+13·5		
7	7	11	−12·1	17	+67·0	24	143	327·1	−23·8	II.	
8	12	13	−80·6	24	+63·1	51	310	232·6	+17·0	II.	
9	13	14	−72·7	26	+83·2	38	204	227·7	−14·4	I. 974 (2)	
9760	13	14	−78·1	26	+76·6	119	815	220·6	−20·0	II.	
1	9	15	−28·8	23	+76·5	61	347	260·2	−13·7	II.	
2	14	16	−77·8	29	+82·4	88	477	193·7	+21·6	I. 975 (2)	
3	2	17	−46·8	18	−33·3	1	4	213·4	+16·5		Revival of Group 9737.
4	2/4	17	−50·6	20	− 9·2	0	2	210·6	+23·8		
5	12	17	−62·7	28	+77·0	12	61	196·2	+24·9	II.	
6	13	17	−72·5	29	+81·7	32	160	187·2	−17·7	II.	
7	9	20	−42·1	28	+62·2	20	83	179·2	+18·6	II.	
8	5/6	20	−42·4	25	+24·1	1	5	179·0	+28·3		
9	7	20	−78·4	26	− 1·9	17	101	142·0	−22·9	II.	
9770	2	22	−65·1	23	−50·4	1	5	129·5	+20·2		
1	7	25	− 5·5	31	+79·0	18	76	153·4	+15·8	II.	
2	11	28	−85·9	Nov. 7	+48·7	19	125	30·9	+13·2	II.	Revival of Group 9750.
3	6	29	−71·5	3	− 8·0	6	22	32·0	−24·4	II.	
4	2/7	31	−55·9	6	+20·7	0	1	20·6	−23·4		
5	2	Nov. 1	+ 5·2	2	+17·9	2	14	68·6	+26·0		
6	2	4	−49·3	5	−37·2	1	3	334·6	+10·2		
7	2	5	+61·0	6	+71·5	0	3	71·6	+23·1		
8	5	5	−79·2	9	−25·7	8	50	291·6	−16·1		
9	12	8	−68·6	19	+74·8	106	765	262·5	−14·7	II.	Revival of Group 9761.
9780	2	9	− 3·1	10	+ 9·1	3	6	314·4	+13·3		
1	5	9	−66·3	13	−19·6	8	30	248·6	−21·2		
2	2	10	+23·7	11	+38·6	1	8	330·4	−19·6		
3	2	12	+45·2	13	+57·1	1	6	322·9	+14·0		
4	2	12	−31·2	13	−20·1	3	10	246·1	−13·7		
5	3	12	−38·9	14	−15·3	2	8	238·1	+18·0		Revival of Group 9758.
6	7	13	−72·7	19	+ 3·3	9	26	192·2	+22·0	I. 975 (3)	
7	12	16	−71·7	27	+73·9	31	166	154·7	−22·2	II.	
8	6	17	−80·8	22	−14·0	8	43	131·3	+17·8	II.	
9	2	18	+59·4	19	+72·8	12	65	259·7	+12·6		

GENERAL CATALOGUE OF SUN SPOTS—*continued*.

No. of Group.	Duration in Days.	First Seen. Date.	First Seen. Longitude from Central Meridian.	Last Seen. Date.	Last Seen. Longitude from Central Meridian.	Mean Area Corrected for Foreshortening. Umbræ.	Mean Area Corrected for Foreshortening. Whole Spots.	Mean Position of Group. Longitude.	Mean Position of Group. Latitude.	Reference to Ledger.	NOTES.
		1925.	°	1925.	°			°	°		
9790	13	Nov. 18	−79·4	Nov. 30	+77·8	220	1,458	121·3	+17·4	I. 976 (1)	
1	7	20	+ 3·8	26	+75·0	95	680	176·0	+23·1	I. 977 (1)	
2	8	20	−71·9	27	+17·4	13	51	99·7	−31·2	II.	
3	3/7	21	−65·4	27	+13·3	0	3	94·0	−11·7		
4	13	21	−81·1	Dec. 3	+84·5	39	207	83·3	+22·6	I. 978 (1)	
5	4	22	+43·5	Nov. 25	+79·0	21	131	188·3	+26·6	I. 979 (1)	Revival of Group 9765.
6	13	22	−76·1	Dec. 4	+83·2	55	328	73·7	+22·1	II.	Revival of Group 9777.
7	9	26	−76·1	4	+24·9	14	77	12·9	+20·4	II.	
8	9/10	29	−49·3	8	+70·9	6	27	6·9	+10·5	II.	
9	12	29	−64·8	10	+81·8	33	180	350·2	+20·2	II.	
9800	5	Dec. 1	+30·8	5	+80·6	32	183	59·8	+15·0	II.	
1	11	1	−64·3	11	+62·1	26	146	320·1	+27·2	II.	
2	4	3	+26·5	6	+73·2	14	56	31·4	+23·9	I. 980 (1)	*See* Ledger I. for 1926.
3	6	3	−11·3	8	+54·6	9	38	350·9	−18·3	II.	
4	6	5	−49·5	10	+21·7	8	36	288·7	+13·6	II.	
5	12	5	−67·8	16	+77·1	92	684	269·4	−20·2	II.	
6	3	6	−18·8	8	+ 1·3	3	14	300·3	−28·7		
7	7/8	6	−68·1	13	+22·5	4	27	252·3	−14·5	II.	Revival of Group 9779.
8	3/4	7	−49·6	10	− 7·5	1	9	261·5	−14·8		
9	2	9	−12·6	10	+ 0·5	1	6	269·2	−13·8		
9810	13	10	−70·1	22	+79·2	155	1,053	196·9	+22·0	I. 981 (1)	Revival of Group 9786. *See* Ledger I. for 1926.
1	13	10	−79·2	22	+72·3	61	436	187·2	+25·4	I. 979 (2)	
2	12	11	−73·8	22	+71·3	30	178	183·6	−14·9	II.	
3	9	11	−79·3	19	+25·6	20	93	178·0	+23·4	I. 977 (2)	
4	13	11	−82·7	23	+67·3	23	128	169·2	+22·8		
5	13	12	−78·3	24	+80·6	31	169	161·8	−20·4	I. 982 (1)	Revival of Group 9787. *See* Ledger I. for 1926.
6	2/3	14	+15·9	16	+41·4	1	7	231·8	−20·6		
7	2	14	− 7·1	15	+ 4·5	5	14	208·5	+26·9		
8	9/11	14	−43·7	24	+79·7	15	54	168·3	+26·1	II.	
9	14	14	−84·2	27	+82·5	98	536	130·4	+15·7	I. 976 (2)	
9820	12	15	−73·3	26	+79·8	46	241	134·5	+24·7	II.	
1	11	16	−77·7	26	+54·8	13	53	112·4	−17·8	II.	
2	13	17	−76·3	29	+80·8	19	114	101·4	−12·2	II.	
3	7/8	18	−81·8	25	+13·2	5	19	82·4	+21·6	I. 978 (2)	Revival near Group 9800.
4	13	19	−81·9	31	+78·5	38	211	69·3	+15·0	I. 983 (1)	*See* Ledger I. for 1926.
5	14	19	−76·8	Jan. 1	+86·9	232	1,389	71·7	−20·5	I. 984 (1)	*See* Ledger I. for 1926.
6	3	20	+47·3	Dec. 22	+72·1	10	45	184·2	−18·9		
7	2/3	20	− 1·7	22	+22·7	1	7	135·6	+21·0		
8	9/11	20	−78·5	30	+51·6	4	14	60·7	+19·9	II.	
9	2	21	−51·6	22	−37·5	3	6	74·4	−30·1		
9830	14	22	−79·7	Jan. 4	+82·4	419	2,587	30·0	+23·2	I. 980 (2)	*See* Ledger I. for 1926.
1	3	24	+28·4	Dec. 26	+54·7	4	16	113·3	+19·4		
2	5	24	−26·5	28	+29·0	8	29	59·5	+28·5		
3	7	28	− 2·3	Jan. 3	+80·4	41	193	32·8	+10·8	II.	
4	3	28	−13·7	Dec. 30	+ 9·1	4	20	19·4	+30·1		
5	10	28	−45·1	Jan. 6	+74·6	19	64	345·8	+38·1	II.	
6	2	31	+27·8	1	+39·2	5	19	18·8	+18·6		
7	4	31	−67·3	3	−28·9	6	13	284·2	+23·4		

GENERAL CATALOGUE of SUN SPOTS—*continued.*

REVIVAL GROUPS of SUN SPOTS, 1925.

Groups of spots, noted in the preceding Catalogue as "Revivals," have been tabulated in series in the following table. The respective groups of each series are in the same heliographic position, and are seen in consecutive rotations but with definite breaks in their history between each rotation. The latter feature excludes them from being classed as "Recurrent" groups; they differ from "Intermittent" groups in their being of long period intermittency. When a "Recurrent" series forms part of a "Revival" series a reference is made in the last column of the table. Other groups which are given in detail in Ledger II are also indicated.

Reference No.	Group No.	No. of Rotation.	Duration.	First Seen.		Last Seen.		Mean Area.	Mean Position.		Reference to Ledger.
				Date.	Longitude from C.M.	Date.	Longitude from C.M.		Longitude	Latitude.	
1	9609	955	5/6	Feb. 11	−58	Feb. 16	+11	10	240	+16	II.
	9616	956	3	Mar. 17	+39	Mar. 19	+59	9	244	+17	
2	9618	956	10	Mar. 23	−38	Apr. 1	+77	336	91	+20	II.
	9630	957	5	Apr. 17	−77	Apr. 21	−26	16	83	+18	II.
	9634	957	8	Apr. 21	−15	Apr. 28	+75	149	89	+26	
3	9621	957	7/8	Apr. 4	−68	Apr. 11	+24	23	266	+16	II.
	9637	958	13	Apr. 30	−77	May 12	+81	746	272	+16	I. 965.
	9654	959	12	May 27	−81	June 7	+62	159	270	+14	
	9679	960	2	July 4	+54	July 5	+67	12	263	+16	
4	9632	957	8	Apr. 19	−26	Apr. 26	+68	27	108	+20	II.
	9642	958	12	May 12	−77	May 23	+74	181	115	+18	II.
	9668	959	8	June 8	−74	June 15	+20	197	121	+19	II.
5	9649	958	13	May 17	−74	May 29	+82	406	54	+22	I. 966
	9670	959	4/9	June 13	−74	June 21	+34	3	54	+22	
	9683	960	7	July 10	−75	July 16	+ 3	50	54	+19	II.
6	9696	961	3/4	Aug. 5	−10	Aug. 8	+27	8	133	+22	
	9724	962	3	Sept. 4	+22	Sept. 6	+51	13	132	+21	
7	9700	961	7	Aug. 8	−50	Aug. 14	+35	47	58	+21	II.
	9702	961	3	Aug. 10	−16	Aug. 12	+13	10	65	+21	II.
	9728	962	8/9	Sept. 6	−20	Sept. 14	+81	449	61	+19	II.
8	9701	961	7	Aug. 8	−81	Aug. 14	− 6	36	26	+22	
	9726	962	3	Sept. 4	−81	Sept. 6	−51	22	30	+21	II.
	9751	963	9	Oct. 5	−30	Oct. 13	+73	54	29	+20	II.
9	9713	962	8	Aug. 28	−49	Sept. 4	+46	92	153	+23	
	9749	963	5	Sept. 29	+ 9	Oct. 3	+67	14	150	+23	II.
10	9737	963	9	Sept. 18	−76	Sept. 26	+33	16	210	+18	
	9763	964	2	Oct. 17	−47	Oct. 18	−33	4	213	+17	
11	9743	963	11	Sept. 21	−52	Oct. 1	+83	187	193	+21	I. 975
	9762	964	14	Oct. 16	−78	Oct. 29	+82	477	194	+22	
	9786	965	7	Nov. 13	−73	Nov. 19	+ 3	26	192	+22	
	9810	966	13	Dec. 10	−70	Dec. 22	+79	1053	197	+22	I. 981
	9840	967	11	Jan. 6	−70	Jan. 16	+56	98	201	+21	
12	9750	963	11	Oct. 1	−78	Oct. 11	+56	49	34	+15	II.
	9772	964	11	Oct. 28	−86	Nov. 7	+49	125	31	+13	II.
13	9758	964	12	Oct. 13	−81	Oct. 24	+63	310	233	+17	II.
	9785	965	3	Nov. 12	−39	Nov. 14	−15	8	238	+18	

GENERAL CATALOGUE OF SUN SPOTS—*continued.*

Reference No.	Group No.	No. of Rotation	Duration.	First Seen.		Last Seen.		Mean Area.	Mean Position.		Reference to Ledger.
				Date.	Longitude from C.M.	Date.	Longitude from C.M.		Longitude.	Latitude.	
14	9761	964	9	Oct. 15	−29	Oct. 23	+77	347	260	−14	II.
	9779	965	12	Nov. 8	−69	Nov. 19	+75	765	262	−15	II.
	9807	966	7/8	Dec. 6	−68	Dec. 13	+23	27	252	−15	II.
	9808	966	3/4	Dec. 7	−50	Dec. 10	− 8	9	261	−15	
	9809	966	2	Dec. 9	−13	Dec. 10	+ 1	6	269	−14	
15	9765	964	12	Oct. 17	−63	Oct. 28	+77	61	196	+25	II.
	9795	965	4	Nov. 22	+44	Nov. 25	+79	131	188	+27	I. 979
	9811	966	13	Dec. 10	−79	Dec. 22	+72	436	187	+25	
	9842	967	12	Jan. 7	−77	Jan. 18	+65	229	182	+25	II. (1926)
16	9777	964	2	Nov. 5	+61	Nov. 6	+72	3	72	+23	
	9796	965	13	Nov. 22	−76	Dec. 4	+83	328	74	+22	II.
17	9787	965	12	Nov. 16	−72	Nov. 27	+74	166	155	−22	II.
	9815	966	13	Dec. 12	−78	Dec. 24	+81	169	162	−20	I. 982
	9844	967	9	Jan. 8	−81	Jan. 16	+23	51	166	−19	
18	9805	966	12	Dec. 5	−68	Dec. 16	+77	684	269	−20	II.
	9838	967	12	Jan. 1	−60	Jan. 12	+84	452	280	−18	II. (1926)

ROYAL OBSERVATORY, GREENWICH

Ledgers of Groups of Sun Spots

for the Year

1925

Ledger I.—Recurrent Groups

GREENWICH PHOTO-HELIOGRAPHIC RESULTS 1925

Ledger I.—Recurrent Groups of Sun Spots for the Year 1925.

The Greenwich Mean Time at which the photograph was taken is expressed in the *first* column by the Day of the Year, and decimal of a day reckoned, from Greenwich Mean Midnight.

The place where the photograph was taken is also indicated in the *first* column. A photograph taken at Greenwich is indicated by the letter G, and those taken at the Cape, Kodaikánal, Dehra Dûn, Ebro, by the letters C, K, D, and E, respectively.

The Projected Area of the Umbræ and Whole Spots, given in the *second* and *third* columns, 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 disc.

The area corrected for foreshortening given in the *fourth* and *fifth* columns is expressed in millionths of the Sun's visible hemisphere.

The longitude given in the *sixth* column is based on the ephemeris given in the *Nautical Almanac*, assuming a daily sidereal motion of 14°·18, due to the Sun's rotation, constant at all latitudes; this corresponds to Carrington's assumed rotation period of 25·38 days.

The proper motion given in the *seventh* column is derived from the difference of longitude thus computed from the measured positions on any given day and the first day on which the group of spots or single spot is visible, after the correction for the motion appropriate to the latitude has been applied according to the formula, $\xi = 14^\circ{\cdot}37 - 2^\circ{\cdot}60 \sin^2\phi$.

A *plus* sign indicates a motion forwards; a *minus* sign a motion backwards relative to the position on the first day.

The remaining columns correspond to those with similar headings in the preceding Section.

When a group is 80° or more from the Sun's central meridian, the measures for that day are not included in taking the mean area, longitude, and latitude of the group. In such cases of close proximity to the Sun's limb, the addition of an asterisk denotes that only part of the group is visible.

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925.

RECURRENT SERIES No. 963. Latitude −22°·0.

Group 9615 in Rotation 956.
,, 9623 ,, ,, 957.

Group 9615.—March 11–23. A conspicuous stream of spots just forming when photographed at the east limb on March 11. The leader, *a*, first develops as a regular spot and is fully formed by March 13. On the next day, a penumbral spot of half the size has appeared closely following it, and the two have coalesced by March 16. After regaining nearly a regular outline, a small portion of the joint spot detaches itself from the f side on March 20, after which it again assumes a regular appearance. The other spots of the stream are relatively insignificant, and have all died out by March 20. The axis of the stream is inclined about 16° to the equator, the leader having the higher latitude, which is contrary to the usual direction.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
69·490 C	13	68	23	129	211·0	0·0	−19·9	−76·4
70·391 G	45	205	45	208	214·8	+4·0	−20·4	−60·7
71·411 G	99	543	73	400	216·0	+5·3	−21·1	−46·0
72·404 G	105	664	64	401	216·3	+5·8	−20·0	−32·7
73·454 G	110	731	61	398	217·9	+7·6	−21·4	−17·2
74·400 G	95	685	49	358	217·8	+7·7	−21·7	− 4·8
75·527 G	92	577	49	304	216·9	+7·0	−22·1	+ 9·1
76·396 G	74	472	41	258	216·4	+6·6	−21·9	+20·1
77·332 C	64	497	39	300	215·6	+6·0	−21·7	+31·6
78·584 C	38	295	29	224	215·6	+6·2	−22·0	+48·1
79·309 C	34	245	32	228	215·5	+6·2	−22·3	+57·6
80·494 G	17	113	27	182	215·6	+6·5	−22·4	+73·3
81·470 G	10	44	44	193	215·1	...	−22·1	+85·7
Means ...	...	...	44	283	215·8	...	−21·4	...

Spot *a*.

69·490 C	10	33	17	57	212·6	0·0	−20·5	−74·8
70·391 G	28	118	27	112	216·8	+4·4	−21·1	−58·7
71·411 G	52	320	36	224	218·2	+5·9	−21·6	−43·8
72·404 G	63	482	37	284	218·2	+6·1	−20·5	−30·8
73·454 G	85	644	46	348	218·6	+6·7	−21·8	−16·5
74·400 G	87	605	45	315	218·6	+6·9	−21·7	− 4·0
75·527 G	77	504	41	267	217·9	+6·4	−22·4	+10·1
76·396 G	63	396	35	218	217·2	+5·8	−22·3	+20·9
77·332 C	51	394	31	240	216·7	+5·5	−22·0	+32·7
78·584 C	38	295	29	224	215·6	+4·6	−22·0	+48·1
79·309 C	34	245	32	228	215·5	+4·6	−22·3	+57·6
80·494 G	17	113	27	182	215·6	+4·9	−22·4	+73·3
81·470 G	10	44	44	193	215·1	+4·6	−22·1	+85·7

Group 9623.—April 7–15. Intermittent. A regular spot (*a* of Group 9615), which has disappeared by April 12. A very small ephemeral spot is near its place on April 15.

96·346 C	8	30	19	70	213·9	+6·0	−23·0	−79·3
97·155 K	14	65	19	90	213·0	+5·2	−22·7	−69·5
98·332 C	14	102	12	88	213·1	+5·5	−22·8	−53·9
99·619 G	15	69	10	45	213·3	+6·0	−22·7	−36·7
100·360 G	15	67	9	39	213·2	+6·0	−22·7	−27·0
101·356 G	1	24	1	13	213·0	+6·0	−22·8	−14·1

No. 963, Group 9623—*continued*.

d					°	°	°	°
102·378 G	0	0	0	0	...	...	...	...
103·390 G	0	0	0	0	...	...	...	...
104·333 C	0	9	0	5	211·0	+4·5	−24·7	+23·2
Means ...	...	...	8	39	212·9	...	−23·1	...

No. 964. Latitude +20°·9.

Group 9625 in Rotation 957.
,, 9638 ,, ,, 958.

Group 9625.—April 9–17. A wide pair of small spots on April 9, developing into a stream with composite leader spot and insignificant train. The axis of the group is inclined nearly 25° to the equator.

98·332 C	7	18	5	12	233·1	0·0	+21·1	−33·9
99·619 G	56	308	33	182	232·5	−0·4	+21·5	−17·5
100·360 G	90	416	51	237	232·4	−0·4	+21·8	− 7·8
101·356 G	138	621	79	355	233·3	+0·6	+21·7	+ 6·2
102·378 G	105	557	63	339	234·7	+2·2	+21·3	+21·1
103·390 G	107	590	73	401	234·6	+2·2	+20·8	+34·4
104·333 C	79	499	67	425	235·6	+3·3	+20·8	+47·8
105·499 G	32	233	41	300	235·7	+3·6	+20·4	+63·3
106·412 G	16	128	39	315	235·6	+3·6	+20·4	+75·3
Means ...	...	...	50	285	234·2	...	+21·1	...

Group 9638.—May 3–11. A small but persistent spot with a small companion on May 5, 8 and 9.

122·358 C	2	10	5	23	234·5	+4·8	+20·3	−75·1
123·637 G	6	19	6	20	234·1	+4·6	+20·6	−58·6
124·378 C	6	15	5	13	233·3	+3·9	+20·8	−49·6
125·357 G	2	9	1	6	234·1	+4·8	+20·5	−35·9
126·371 G	3	18	2	11	234·6	+5·5	+20·3	−22·0
127·636 G	3	80	2	44	232·3	+3·3	+20·9	− 7·5
128·355 G	9	45	5	25	232·6	+3·7	+20·6	+ 2·3
129·307 G	1	21	1	12	232·8	+4·1	+21·2	+15·1
130·348 G	3	16	2	10	233·0	+4·4	+21·4	+29·0
Means ...	...	...	3	18	233·5	...	+20·7	...

No. 965. Latitude +14°·7.

Group 9637 in Rotation 958.
,, 9654 ,, ,, 959.

Group 9637.—April 30–May 12. An important group, visible to the naked eye, which consists of a very large regular spot, *a*, followed by a relatively insignificant train, of which the following component, *b*, can be traced until May 9.

119·377 G	47	327	118	842	271·8	0·0	+15·6	−77·2
120·613 G	134	779	149	883	271·1	−0·7	+15·6	−61·6
121·405 G	159	936	135	799	270·8	−1·1	+15·7	−51·4
122·358 C	163	1050	111	719	270·9	−1·0	+15·9	−38·7

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925.—*continued.*

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.		Latitude.	Long. from C.M.
No. 965, Group 9637—*continued.*								
d					°	°	°	°
123·637 G	235	1265	134	725	271·6	−0·3	+16·1	−21·1
124·378 C	192	1292	104	700	271·3	−0·6	+15·6	−11·6
125·357 G	269	1495	143	792	271·8	−0·1	+15·5	+ 1·8
126·371 G	202	1498	111	823	271·9	−0·1	+15·6	+15·3
127·636 G	150	1091	94	687	271·9	−0·1	+15·6	+32·1
128·355 G	150	1133	107	804	271·8	−0·2	+15·9	+41·5
129·307 G	125	674	114	613	271·8	−0·2	+15·6	+54·1
130·348 G	73	388	107	566	272·2	+0·1	+15·6	+68·2
131·353 G	31	147	118	562	272·0	...	+15·7	+81·3
Means ...	...	...	119	746	271·6	...	+15·7	...
Spot *a*.								
119·377 G	39	261	85	566	274·2	0·0	+16·0	−74·8
120·613 G	100	551	105	578	273·9	−0·3	+15·9	−58·8
121·405 G	116	667	95	547	273·3	−1·0	+15·9	−48·9
122·358 C	122	782	82	524	272·9	−1·4	+15·9	−36·7
123·637 G	202	1013	115	577	272·8	−1·5	+15·9	−19·9
124·378 C	161	1071	87	578	272·2	−2·1	+15·7	−10·7
125·357 G	235	1282	125	679	272·2	−2·1	+15·6	+ 2·2
126·371 G	182	1426	100	784	272·1	−2·3	+15·6	+15·5
127·636 G	148	1083	93	682	271·9	−2·5	+15·6	+32·1
128·355 G	149	1127	106	800	271·8	−2·6	+15·9	+41·5
129·307 G	125	674	114	613	271·8	−2·6	+15·6	+54·1
130·348 G	73	388	107	566	272·2	−2·3	+15·6	+68·2
131·353 G	31	147	118	562	272·0	...	+15·7	+81·3
Spot *b*.								
120·613 G	17	154	23	212	266·0	0·0	+15·3	−66·7
121·405 G	25	163	24	156	266·1	+0·1	+15·3	−56·1
122·358 C	23	134	17	99	265·6	−0·4	+15·0	−44·0
123·637 G	22	174	13	103	266·2	+0·1	+14·8	−26·5
124·378 C	22	127	12	70	265·8	−0·3	+14·9	−17·1
125·357 G	27	136	14	72	265·8	−0·3	+14·9	− 4·2
126·371 G	13	37	7	20	265·6	−0·5	+15·1	+ 9·0
127·636 G	2	8	1	5	264·7	−1·5	+15·3	+24·9
Group 9654.—May 27–June 7. A spot of almost regular outline, *a* of Group 9637, usually intersected by one or two "bridges."								
146·444 C	14	62	48	213	270·1	...	+14·4	−81·0
147·365 G	29	160	42	230	270·2	−4·6	+14·2	−68·7
148·347 G	42	245	39	225	270·2	−4·7	+13·8	−55·7
149·411 G	47	349	32	241	269·9	−5·0	+13·6	−41·9
150·268 G	48	345	29	207	269·4	−5·5	+13·6	−31·0
151·326 G	71	393	38	212	269·6	−5·3	+13·5	−16·9
152·360 G	62	320	32	166	269·6	−5·4	+13·6	− 3·2
153·368 G	30	237	16	123	269·6	−5·4	+13·6	+10·2
154·346 G	36	224	20	125	269·7	−5·3	+13·6	+23·2

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.		Latitude.	Long. from C.M.
No. 965, Group 9654—*continued.*								
d					°	°	°	°
155·361 G	31	144	20	92	269·4	−5·6	+13·7	+36·4
156·285 G	15	86	12	67	269·5	−5·6	+13·6	+48·7
157·281 G	11	53	12	57	269·3	−5·8	+13·8	+61·7
Means ...	...	...	27	159	269·7	...	+13·7	...

No. **966**. Latitude +22°·1.

Group 9649 in Rotation 958.

,, 9670 ,, ,, 959.

Group 9649.—May 17–29. An irregular stream undergoing much change. The early development is along normal lines, although the follower of the stream is for several days the largest component. Some small spots immediately following the leader, *a*, then develop and, coalescing with it on May 22, form an elongated spot with multiple umbræ. One of these nuclei breaks away on May 26. Meanwhile the follower, *b*, is becoming rapidly smaller and is a mere dot on May 24. On the next day, however, a cluster of spots has appeared near its place and condenses later to a fairly large spot seen very close to the sun's west limb on May 29. A cluster of indefinite spots in the mid-part of the stream increases to some importance on May 23.

136·332 G	11	52	24	109	51·2	0·0	+22·4	−73·6
137·360 G	29	169	33	193	50·7	−0·3	+22·7	−60·5
138·476 G	84	444	64	338	52·0	+1·2	+21·8	−44·5
139·346 C	72	399	46	258	53·9	+3·2	+21·7	−31·1
140·359 C	79	505	46	295	53·0	+2·5	+22·0	−18·6
141·355 G	119	787	65	435	55·3	+5·0	+22·4	− 3·1
142·486 G	129	965	72	540	55·7	+5·6	+22·1	+12·3
143·383 G	80	884	49	533	55·4	+5·4	+22·4	+23·8
144·441 G	106	655	74	461	55·4	+5·6	+22·0	+37·8
145·351 G	69	510	60	434	54·6	+5·0	+22·1	+49·1
146·444 C	75	520	91	635	53·8	+4·4	+22·1	+62·7
147·365 G	58	299	134	645	53·2	+4·0	+22·4	+74·3
148·347 G	6	36	(24	146	47·7	...	+24·4)*	+81·8
Means ...	...	...	63	406	53·7	...	+22·2	...
Variable spot *a*.								
137·360 G	10	44	10	43	55·7	0·0	+21·5	−55·5
138·476 G	48	230	34	163	57·1	+1·6	+21·1	−39·4
139·346 C	44	225	27	139	57·3	+2·0	+21·8	−27·7
140·359 C	48	218	27	124	56·9	+1·7	+22·0	−14·7
141·355 G	73	529	40	291	57·0	+2·0	+22·0	− 1·4
142·486 G	87	712	49	399	58·1	+3·3	+21·8	+14·7
143·383 G	65	655	40	400	58·3	+3·7	+21·9	+26·7
144·441 G	69	466	50	336	58·0	+3·6	+21·9	+40·4
145·351 G	47	328	42	292	57·8	+3·5	+21·8	+52·3
146·444 C	27	202	38	283	58·1	+4·0	+21·8	+67·0
147·365 G	11	90	31	254	57·6	+3·7	+21·5	+78·7

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

Date. G.M.T. Place.	Projected Area		Corrected Area		Longitude and Proper Motion.	Latitude.	Long. from C.M.
	Umbræ	Whole Spots.	Umbræ	Whole Spots.			
Spot *b*.							
d					°	°	°	°
136·332 G	9	33	20	74	49·7	0·0	+22·9	−75·1
137·360 G	19	125	23	150	49·2	−0·3	+23·1	−62·0
138·476 G	36	214	30	175	47·3	−2·0	+22·5	−49·2
139·346 C	22	158	15	109	48·0	−1·2	+22·7	−37·0
140·359 C	18	206	11	124	47·7	−1·3	+22·9	−23·9
141·355 G	20	100	11	56	47·7	−1·1	+23·0	−10·7
142·486 G	8	33	4	18	46·3	−2·3	+23·1	+ 2·9
143·383 G	1	17	1	10	46·0	−2·4	+22·7	+14·4
Group 9670.—June 13–21. Intermittent. A very small spot in an extensive region of faculæ.								
163·361 G	1	8	2	15	53·3	+6·9	+21·9	−73·9
164·100 K	0	5	0	6	53·2	+6·9	+23·9	−64·2
165·354 G	0	0	0	0	...	...	...	...
166·404 G	1	10	1	6	54·2	+8·3	+22·2	−32·7
167·646 G	0	0	0	0	...	...	...	...
168·350 G	0	0	0	0	...	...	...	...
169·346 G	0	0	·0	0	...	...	...	...
170·367 G	0	0	0	0	...	...	...	...
171·359 C	1	6	1	4	55·2	+10·2	+20·2	+33·9
Means ...	...	...	0	3	54·0	...	+22·0	...

No. **967**. Latitude −12°·4.

Group 9667 in Rotation 959.

,, 9675 ,, ,, 960.

,, 9693 ,, ,, 961.

Group 9667.—June 8–13. At first a number of indefinite spots in a stream. On June 10, the stream has become one of normal type with well-defined components.

158·381 G	40	159	21	84	208·2	0·0	−13·6	+15·1
159·355 G	46	313	27	182	207·7	−0·6	−13·6	+27·5
160·348 G	83	567	57	392	209·0	+0·7	−13·6	+42·0
161·380 G	82	491	73	441	207·5	−0·9	−14·0	+54·1
162·360 G	44	354	57	468	207·0	−1·5	−13·9	+66·6
163·361 G	12	95	(28	223	204·2	...	−13·8)*	+77·0
Means ...	...	...	47	313	207·9	...	−13·7	...
Spot *a*.								
160·348 G	36	299	26	215	211·3	0·0	−13·9	+44·3
161·380 G	34	227	34	225	211·9	+0·5	−14·1	+58·5
162·360 G	11	102	18	171	212·3	+0·9	−14·2	+71·9

No. **967**—*continued.*

Group 9675.—June 27–July 9. A stable regular spot, probably *a* of Group 9667, followed by faculæ. A very small companion is seen *sp* on July 3.

d					°	°	°	°
177·515 G	0	19	0	116	215·3	...	−12·2	−84·5
178·627 G	25	134	37	198	215·9	+3·3	−12·3	−69·2
179·356 G	28	179	28	181	216·5	+3·9	−12·2	−59·0
180·360 G	39	213	29	158	216·7	+4·0	−12·2	−45·5
181·364 G	38	233	23	142	216·9	+4·1	−12·1	−32·0
182·371 G	45	256	25	141	216·7	+3·9	−12·1	−18·8
183·322 C	48	327	25	170	216·5	+3·6	−12·4	− 6·4
184·397 C	44	325	23	169	216·6	+3·6	−12·5	+ 7·9
185·367 C	43	264	24	148	216·4	+3·3	−12·4	+20·5
186·349 G	35	220	22	139	216·5	+3·4	−12·3	+33·6
187·520 G	26	179	21	143	216·7	+3·5	−12·5	+49·3
188·647 G	19	129	23	156	216·6	+3·3	−12·2	+64·1
189·349 G	12	85	23	160	216·5	+3·2	−12·3	+73·3
Means ...	...	...	25	159	216·5	...	−12·3	...
Group 9693.—July 25–31. A small, definite spot, probably *a* of Group 9667.								
205·434 G	7	25	11	40	220·0	+5·5	−11·6	−70·3
206·488 G	11	40	10	38	220·1	+5·6	−11·5	−56·3
207·436 G	11	23	8	16	220·6	+6·0	−11·0	−43·3
208·350 G	8	16	5	10	220·5	+5·8	−11·0	−31·3
209·362 C	10	20	5	11	220·7	+6·0	−11·3	−17·7
210·345 G	8	15	4	8	221·2	+6·4	−11·0	− 4·2
211·358 C	9	16	5	8	221·4	+6·5	−11·3	+ 9·4
Means ...	...	...	7	19	220·6	...	−11·2	...

No. **968**. Latitude −35°·0.

Group 9669 in Rotation 959.

,, 9676 ,, ,, 960.

Group 9669.—June 12–15. Two regular spots, connected by bright faculæ, developing near the west limb. *a* is the leader spot.

162·360 G	0	5	0	4	188·8	0·0	−33·4	+48·4
163·361 G	45	206	58	265	188·2	+0·1	−34·5	+61·0
164·100 K	28	218	55	423	187·7	+0·1	−35·7	+70·3
165·354 G	0	13	(0	57	182·1	...	−36·3)*	+81·3
Means ...	...	...	38	231	188·2	...	−34·5	...
Spot *a*.								
163·361 G	29	116	39	158	190·3	0·0	−33·7	+63·1
164·100 K	12	87	29	209	192·0	+2·2	−34·5	+74·6

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

No. 968—*continued.*

Group 9676.—June 30–July 6. A small definite spot (probably *a* of Group 9669), with one or two companions.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.		Latitude.	Long. from C.M.
d					°	°	°	°
180·360 G	0	5	0	14	186·6	+7·6	−35·2	−75·6
181·364 G	3	10	4	14	186·0	+7·7	−34·9	−62·9
182·371 G	7	34	7	35	184·3	+6·6	−34·8	−51·2
183·322 C	8	70	7	59	183·8	+6·8	−35·8	−39·1
184·397 C	21	77	15	55	183·0	+6·7	−35·7	−25·7
185·367 C	11	28	7	18	182·6	+6·9	−35·0	−13·3
186·349 G	4	12	2	8	182·4	+7·4	−35·1	−0·5
Means ...	...	...	7	32	183·6	...	−35·2	...

No. 969. Latitude −28°·3.

Group 9678 in Rotation 960.
,, 9692 ,, ,, 961.
,, 9705 ,, ,, 962.

Group 9678.—July 3–7. A diminutive stream.

183·322 C	6	30	4	19	239·6	0·0	−30·5	+16·7
184·397 C	29	96	21	69	242·0	+2·8	−29·4	+33·3
185·367 C	19	74	17	65	242·1	+3·3	−29·8	+46·2
186·349 G	8	26	11	34	245·1	+6·7	−29·4	+62·2
187·520 G	1	7	3	21	244·5	+6·5	−29·4	+77·1
Means ...	...	...	11	42	242·6	...	−29·7	...

Group 9692.—July 24–August 4. A few spots clustered about two centres, 8° apart in longitude. On July 30, the spots are faint and sparsely scattered, but a revival of activity is taking place on the following days, when larger, but imperfectly formed, spots appear.

204·351 G	14	82	23	134	238·7	+7·4	−29·6	−66·0
205·434 G	23	141	23	143	238·7	+7·8	−29·4	−51·6
206·488 G	29	136	22	105	240·3	+9·8	−28·6	−36·1
207·436 G	25	97	16	64	240·1	+10·0	−28·3	−23·8
208·350 G	39	138	24	86	239·7	+10·0	−28·3	−12·1
209·362 C	81	225	49	137	238·7	+9·3	−28·7	+0·3
210·345 G	46	219	29	138	238·1	+9·1	−29·1	+12·7
211·358 C	92	451	63	311	238·9	+10·3	−29·4	+26·9
212·377 G	62	356	51	294	239·4	+11·2	−29·2	+40·9
213·411 G	46	294	50	322	238·7	+11·0	−29·3	+53·9
214·329 G	33	154	54	244	237·7	+10·3	−29·3	+65·0
215·348 C	1	21	7	119	238·2	+11·2	−29·4	+79·0
Means ...	...	...	34	175	238·9	...	−29·1	...

Group 9705.—August 19–29. A regular spot decreasing steadily. Possibly a revival only and not a return of Group 9692.

230·347 C	4	27	15	103	243·1	+22·1	−27·1	−77·8
231·410 G	14	75	21	114	242·7	+22·1	−27·1	−64·2
232·442 G	18	102	18	102	242·1	+21·9	−27·1	−51·1

No. 969, Group 9705—*continued.*

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.		Latitude.	Long. from C.M.
d					°	°	°	°
233·403 G	16	104	13	82	241·5	+21·7	−26·9	−39·0
234·432 G	20	128	13	86	241·1	+21·6	−26·7	−25·8
235·144 K	28	129	18	81	240·5	+21·3	−27·1	−17·0
236·401 G	16	95	10	57	240·3	+21·6	−26·5	−0·6
237·366 G	12	71	7	44	240·0	+21·7	−26·9	+11·8
238·550 G	9	34	6	23	239·6	+21·8	−26·9	+27·1
239·395 G	6	19	5	15	239·4	+21·9	−27·1	+38·0
240·360 G	2	7	2	7	238·8	+21·7	−27·1	+50·2
Means ...	...	...	12	65	240·8	...	−27·0	...

No. 970. Latitude +22°·8.

Group 9698 in Rotation 962.
,, 9715 and 9717 in Rotation 963.

Group 9698.—August 7–14. A pair of tiny spots on Aug. 7 becoming a condensed stream by Aug. 9. By Aug. 11, the group is considerably modified and consists of two large composite spots, *a* and *b*, of which the leader, *a*, is rapidly breaking up on Aug. 13. The inclination of the axis of the group is in the opposite direction from that of the generality of groups, the follower being slightly the nearer to the equator.

218·410 G	7	29	4	15	111·3	0·0	+23·5	−7·4
219·378 G	23	112	12	59	111·2	+0·1	+23·7	+5·3
220·322 K	107	628	59	345	111·8	+0·9	+23·7	+18·4
221·378 C	157	994	98	620	112·3	+1·6	+23·7	+32·8
222·353 G	177	1244	131	913	111·7	+1·2	+23·5	+45·1
223·345 C	118	990	112	939	110·0	−0·3	+22·7	+56·5
224·323 C	75	597	101	818	111·0	+0·9	+22·7	+70·4
225·388 G	18	182	(42	428	105·8	...	+21·8)*	+79·3
Means ...	...	...	74	530	111·3	...	+23·4	...

Spot *a*.

220·322 K	29	201	16	113	115·0	0·0	+24·1	+21·6
221·378 C	77	461	50	300	116·0	+1·2	+24·1	+36·5
222·353 G	82	551	65	435	116·2	+1·6	+24·1	+49·6
223·345 C	47	399	51	431	116·1	+1·7	+23·4	+62·6
224·323 C	21	188	37	331	115·4	+1·2	+23·2	+74·8

Spot *b*.

221·378 C	80	533	48	320	109·6	0·0	+23·2	+30·1
222·353 G	95	693	66	478	108·6	−0·8	+23·1	+42·0
223·345 C	71	591	61	508	107·6	−1·6	+22·4	+54·1
224·323 C	54	409	64	487	106·5	−2·5	+23·0	+65·9
225·388 G	18	182	42	428	105·8	−3·0	+21·8	+79·3

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

No. 970—*continued*.

Group 9715.—August 29–September 4. A small but persistent spot usually preceded by a tiny companion. This group and Group 9717, in the same general area of faculæ, represent the return of Group 9698.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
					°	°	°
240·360 G	3	18	14	86	102·3	− 4·6	+23·7	−86·3
241·378 C	6	22	10	37	101·0	− 5·7	+23·8	−74·2
242·500 G	11	35	10	32	103·6	− 2·9	+24·2	−56·8
243·343 C	7	24	5	17	104·5	− 1·8	+23·7	−44·7
244·346 G	0	28	0	17	103·8	− 2·3	+23·4	−32·2
245·415 G	10	55	6	30	105·0	− 0·9	+23·5	−16·9
246·443 G	2	17	2	9	105·2	− 0·5	+23·3	− 3·1
Means ...	...	...	6	24	103·8	...	+23·6	...

Group 9717.—August 30–September 8. A small decreasing regular spot preceded by one or two tiny attendants until Sept 4. With Group 9715, a return of Group 9698.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
241·378 C	17	65	28	106	102·0	−4·7	+21·1	−73·2
242·500 G	23	79	22	76	101·3	−5·2	+21·1	−59·1
243·343 C	22	102	17	77	101·1	−5·2	+21·2	−48·1
244·346 G	15	98	9	62	100·6	−5·5	+21·4	−35·4
245·415 G	16	81	9	45	99·4	−6·5	+21·2	−22·5
246·443 G	11	31	6	16	99·5	−6·2	+21·1	− 8·8
247·398 G	7	19	4	10	98·9	−6·6	+21·1	+ 3·2
248·475 G	7	12	4	6	98·4	−6·9	+21·7	+17·0
249·648 G	6	18	4	11	98·1	−7·0	+21·6	+31·8
250·377 G	2	8	1	5	98·1	−6·8	+21·4	+41·8
Means ...	...	...	10	41	99·7	...	+21·3	...

No. 971. Latitude −17°·3.
Group 9707 in Rotation 962.
,, 9736 ,, ,, 963.

Group 9707.—August 21–September 2. A regular spot, *a*, followed by a train of very small unstable spots which have all disappeared by Aug. 27.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
232·442 G	3	31	12	126	213·1	...	−18·6	−80·1
233·403 G	40	240	64	401	211·3	0·0	−18·9	−69·2
234·432 G	45	302	42	289	213·4	+2·1	−17·5	−53·5
235·144 K	91	459	72	366	212·8	+1·6	−18·0	−44·7
236·401 G	70	521	43	323	214·4	+3·2	−17·3	−26·5
237·366 G	88	470	50	270	214·4	+3·3	−17·6	−13·8
238·550 G	84	474	46	261	214·8	+3·7	−17·9	+ 2·3
239·395 G	82	449	47	256	214·6	+3·5	−17·7	+13·2
240·360 G	76	402	46	245	214·1	+3·1	−17·5	+25·5
241·378 C	68	330	49	238	214·1	+3·1	−17·5	+38·9
242·500 G	36	194	35	188	214·5	+3·6	−17·5	+54·1
243·343 C	26	155	36	217	214·6	+3·7	−17·7	+65·4
244·346 G	8	74	25	233	214·0	+3·1	−17·6	+78·0
Means ...	...	...	46	274	213·9	...	−17·7	...

No. 971, Group 9707—*continued*.
Spot *a*.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
a					°	°	°	°
233·403 G	34	181	50	268	213·8	0·0	−17·7	−66·7
234·432 G	34	221	31	203	214·4	+0·6	−17·3	−52·5
235·144 K	62	274	47	208	214·3	+0·6	−17·4	−43·2
236·401 G	58	408	35	249	215·0	+1·3	−17·3	−25·9
237·366 G	78	414	44	236	214·7	+1·1	−17·5	−13·5
238·550 G	84	474	46	261	214·8	+1·2	−17·9	+ 2·3
239·395 G	82	449	47	256	214·6	+1·0	−17·7	+13·2
240·360 G	76	402	46	245	214·1	+0·6	−17·5	+25·5
241·378 C	68	330	49	238	214·1	+0·6	−17·5	+38·9
242·500 G	36	194	35	188	214·5	+1·1	−17·5	+54·1
243·343 C	26	155	36	217	214·6	+1·2	−17·7	+65·4
244·346 G	8	74	25	233	214·0	+0·6	−17·6	+78·0

Group 9736.—September 17–29. A small regular spot, *a* of Group 9707, preceded by faculæ in which Group 9741 subsequently appears. A few small spots are seen *i* the regular spot on Sept. 22, 27, 28 and 29.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
259·366 G	0	16	0	77	216·1	...	−17·1	−81·5
260·372 G	19	73	32	124	214·8	+2·1	−17·2	−69·6
261·379 C	25	113	26	115	214·7	+2·0	−17·1	−56·4
262·406 G	24	156	18	118	214·7	+2·1	−16·9	−42·8
263·357 G	32	182	20	116	214·8	+2·2	−16·5	−30·2
264·359 C	31	188	17	107	214·4	+1·8	−17·1	−17·3
265·431 G	36	174	20	96	215·0	+2·5	−16·3	− 2·6
266·386 G	22	158	12	87	215·2	+2·7	−16·5	+10·2
267·411 G	24	119	14	71	215·3	+2·9	−16·4	+23·8
268·493 G	21	104	15	73	215·4	+3·0	−16·4	+38·2
269·348 G	18	105	15	90	215·4	+3·0	−16·5	+49·5
270·543 C	20	113	28	158	215·7	+3·4	−17·4	+65·6
271·342 C	5	31	13	79	215·7	+3·4	−16·2	+76·1
Means ...	...	...	19	103	215·1	...	−16·7	...

No. 972. Latitude +23°·1.
Group 9708 in Rotation 962.
,, 9738 ,, ,, 963.

Group 9708.—August 23–September 3. An irregular stream mostly of unstable spots. After Aug. 30, the leader, *a*, has become a regular spot.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
234·432 G	2	9	3	13	195·6	0·0	+24·2	−71·3
235·144 K	9	40	11	49	191·2	−4·3	+24·0	−66·3
236·401 G	28	136	21	105	191·8	−3·4	+24·1	−49·1
237·366 G	40	181	25	115	192·9	−2·1	+24·1	−35·3
238·550 G	84	261	46	144	193·9	−0·8	+23·8	−18·6
239·395 G	101	584	52	306	193·8	−0·8	+23·4	− 7·6
240·360 G	131	614	68	323	194·0	−0·4	+23·5	+ 5·4
241·378 C	131	735	72	407	194·9	+0·7	+23·9	+19·7
242·500 G	115	563	74	362	197·1	+3·2	+23·5	+36·7
243·343 C	67	408	52	315	198·4	+4·7	+22·9	+49·2
244·346 G	38	304	41	328	199·0	+5·5	+22·4	+63·0
245·415 G	26	208	52	414	199·1	+5·8	+22·0	+77·2
Means ...	...	...	43	240	195·1	...	+23·5	...

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

Date. G.M.T. Place.	Projected Area		Corrected Area		Longitude and Proper Motion.	Latitude.	Long. from C.M.
	Umbræ	Whole Spots.	Umbræ	Whole Spots.			
No. 972, Group 9708—*continued.*							
Spot *a*.							
d					°	°	°	°
236·401 G	10	53	7	39	194·6	0·0	+24·5	−46·3
237·366 G	20	65	12	40	196·1	+1·7	+24·1	−32·1
238·550 G	41	111	22	60	197·3	+3·1	+23·3	−15·2
239·395 G	47	231	24	120	197·8	+3·8	+22·9	− 3·6
240·360 G	55	307	29	163	198·2	+4·4	+22·7	+ 9·6
241·378 C	81	453	45	254	198·7	+5·1	+23·0	+23·5
242·500 G	76	371	50	245	199·8	+6·5	+22·7	+39·4
243·343 C	57	330	45	261	199·7	+6·5	+22·5	+50·5
244·346 G	36	294	39	320	199·4	+6·5	+22·3	+63·4
245·415 G	26	208	52	414	199·1	+6·4	+22·2	+77·2
Group 9738.—September 18–27. A small, incompletely-formed, regular spot (apparently *a* of Group 9708), usually with small attendants.								
260·372 G	14	60	39	169	202·6	+13·0	+22·0	−81·8
261·379 C	20	92	27	123	202·1	+12·7	+22·2	−69·0
262·406 G	34	157	29	136	202·9	+12·8	+21·3	−54·6
263·357 G	21	121	15	85	201·1	+12·2	+22·2	−43·9
264·359 C	22	77	13	46	201·0	+12·3	+23·1	−30·7
265·431 G	19	94	10	51	201·1	+12·6	+23·1	−16·5
266·386 G	33	95	18	49	200·9	+12·6	+23·2	− 4·1
267·411 G	18	72	9	38	200·6	+12·5	+23·7	+ 9·1
268·493 G	18	31	10	18	201·0	+13·1	+22·9	+23·8
269·348 G	10	27	7	17	200·1	+12·4	+23·7	+34·2
Means ...	...	...	15	63	201·2	...	+22·8	...
No. 973. Latitude +30°·0. Group 9716 in Rotation 962. ,, 9734 and 9735 ,, 963.								
Group 9716.—August 30–September 1. A small spot appearing near the west limb.								
241·378 C	1	8	1	9	238·1	0·0	+30·9	+62·9
242·500 G	7	22	12	39	235·6	−2·0	+30·3	+75·2
243·343 C	8	40	29	144	233·8	...	+30·7	+84·6
Means ...	...	...	7	24	236·8	...	+30·6	...
Group 9734.—September 15–25. A regular spot followed by well-defined faculæ in which small spots appear.								
257·349 G	9	44	28	139	240·8	+10·1	+29·8	−83·5
258·409 G	21	122	31	180	238·9	+ 8·6	+29·3	−71·4
259·366 G	28	142	28	141	238·6	+ 8·8	+29·3	−59·0
260·372 G	31	169	24	129	238·2	+ 8·8	+29·3	−46·2
261·379 C	24	147	15	94	237·3	+ 8·4	+29·3	−33·8
262·406 G	34	156	19	88	237·1	+ 8·7	+29·1	−20·4

Date. G.M.T. Place.	Projected Area		Corrected Area		Longitude and Proper Motion.	Latitude.	Long. from C.M.
	Umbræ	Whole Spots.	Umbræ	Whole Spots.			
No. 973, Group 9734—*continued.*							
d					°	°	°	°
263·357 G	30	163	16	88	236·0	+ 8·0	+29·4	− 9·0
264·359 C	34	167	18	90	234·7	+ 7·2	+29·5	+ 3·0
265·431 G	29	98	16	55	234·7	+ 7·7	+29·4	+17·1
266·386 G	10	29	6	18	235·3	+ 8·7	+29·4	+30·3
267·411 G	4	17	3	12	233·1	+ 7·0	+28·3	+41·6
Means ...	...	...	18	90	236·4	...	+29·2	...
Group 9735.—September 16–24. A small group *f* Group 9734.								
258·409 G	2	13	6	41	226·9	−3·4	+31·3	−83·4
259·366 G	14	61	23	99	224·4	−5·4	+31·1	−73·2
260·372 G	14	71	14	72	224·6	−4·8	+31·1	−59·8
261·379 C	24	104	19	82	223·3	−5·6	+31·3	−47·8
262·406 G	14	50	9	33	223·2	−5·2	+30·7	−34·3
263·357 G	12	28	7	16	223·9	−4·1	+30·6	−21·1
264·359 C	8	46	4	25	223·4	−4·1	+30·5	− 8·3
265·431 G	4	25	2	14	222·9	−4·1	+30·3	+ 5·3
266·386 G	5	20	3	11	222·9	−3·7	+30·3	+17·9
Means ...	...	...	10	44	223·6	...	+30·7	...
No. 974. Latitude −13°·8. Group 9741 in Rotation 963. ,, 9759 ,, ,, 964.								
Group 9741.—September 19–29. An active stream developing suddenly between Sept. 22 and 23 from a few very small spots which appeared three days earlier. Considerable changes also take place from day to day in the shape and area of the components of the fully developed stream.								
261·379 C	1	4	1	3	220·1	0·0	−13·8	−51·0
262·406 G	13	36	9	24	220·4	+0·3	−13·8	−37·1
263·357 G	20	52	12	31	220·0	−0·2	−14·3	−25·0
264·359 C	64	256	34	138	221·1	+0·9	−13·1	−10·6
265·431 G	159	805	85	426	222·0	+1·7	−13·0	+ 4·4
266·386 G	139	712	77	398	221·3	+1·0	−12·6	+16·3
267·411 G	112	664	69	412	221·8	+1·4	−13·1	+30·3
268·493 G	136	819	103	612	220·7	+0·3	−12·9	+43·5
269·348 G	115	776	110	739	220·5	+0·1	−13·0	+54·6
270·543 C	39	277	75	524	222·2	+1·7	−13·3	+72·1
271·342 C	4	11	(11	30	217·0	...	−13·3)*	+77·4
Means ...	...	...	58	331	221·0	...	−13·3	...
Group 9759.—October 14–26. A stable regular spot with a very small companion southwards on October 15 and 16.								
286·456 G	34	163	66	315	227·5	+6·3	−14·6	−72·7
287·472 G	51	294	54	312	227·8	+6·6	−14·4	−59·0
288·335 C	37	279	45	223	227·6	+6·4	−14·5	−47·8
289·512 G	53	316	33	199	227·7	+6·4	−14·2	−32·2

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

No. **974**, Group 9759—*continued.*

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
290·483 G	69	322	39	180	227·9	+6·6	−14·1	−19·2
291·343 C	50	319	27	172	227·5	+6·1	−14·2	− 8·2
292·447 C	55	368	29	195	227·6	+6·2	−14·2	+ 6·4
293·445 G	56	309	31	173	227·8	+6·4	−14·3	+19·8
294·426 G	50	281	32	177	227·7	+6·2	−14·4	+32·6
295·614 G	38	203	31	164	227·7	+6·2	−14·5	+48·3
296·389 G	31	178	32	185	227·7	+6·1	−14·7	+58·5
297·432 G	18	82	33	152	227·7	+6·1	−14·7	+72·3
298·324 C	5	26	27	138	226·8	...	−14·5	+83·2
Means ...	...	...	38	204	227·7	...	−14·4	...

No. **975**. Latitude +21°·4.
Group 9743 in Rotation 963.
,, 9762 ,, ,, 964.
,, 9786 ,, ,, 965.

Group 9743.—September 21–October 1. A few small unstable spots showing little development until Sept. 27, when three moderate sized spots, also of unstable character, appear in a stream.

263·357 G	9	33	7	27	193·0	0·0	+22·4	−52·0
264·359 C	7	22	5	14	194·3	+1·5	+21·4	−37·4
265·431 G	9	30	5	17	192·2	−0·5	+20·8	−25·4
266·386 G	47	110	25	58	191·6	−0·9	+20·8	−13·4
267·411 G	26	64	14	33	190·6	−1·8	+21·1	− 0·9
268·493 G	31	97	17	51	192·4	+0·2	+20·1	+15·2
269·348 G	71	306	41	175	192·5	+0·4	+20·2	+26·6
270·543 C	93	743	66	520	193·4	+1·5	+19·9	+43·3
271·342 C	96	581	85	510	194·7	+2·9	+20·2	+55·1
272·407 C	47	323	67	465	195·9	+4·3	+20·5	+70·4
273·430 G	9	126	26	410	195·0	+3·6	+20·4	+83·0
Means ...	...	...	33	187	193·1	...	+20·7	...

Group 9762.—October 16–29. A conspicuous spot, *a*, with two well-defined umbræ followed at a distance of 9° in longitude by a smaller regular spot, *b*. On Oct. 22, a complete division into two parts has taken place in *a*; after which the southern part begins to disappear whilst the northern assumes a regular outline.

288·335 C	34	171	(74	371	197·6	...	+20·4)*	−77·8
289·512 G	76	432	90	514	194·7	+5·8	+21·5	−65·2
290·483 G	126	658	104	558	194·5	+5·7	+21·8	−52·6
291·343 C	161	784	109	541	194·3	+5·7	+21·7	−41·4
292·447 C	100	570	100	570	194·4	+5·9	+21·7	−26·8
293·445 G	222	1053	119	569	194·7	+6·4	+21·5	−13·3
294·426 G	204	1078	107	564	194·2	+6·0	+21·8	− 0·9
295·614 G	184	932	99	501	193·6	+5·6	+21·5	+14·2
296·389 G	146	745	84	427	193·4	+5·5	+21·4	+24·2
297·432 G	114	582	76	384	193·0	+5·3	+21·4	+37·6
298·324 C	89	500	70	396	193·3	+5·8	+21·5	+49·7

No. **975**, Group 9762—*continued.*

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
299·618 G	30	305	37	372	192·2	+4·8	+21·6	+65·6
300·412 G	32	170	65	330	191·8	+4·6	+22·0	+75·7
301·324 C	10	41	(33	134	186·5	...	+23·5)*	+82·4
Means ...	...	...	88	477	193·7	...	+21·6	...

Spot *a*.

288·335 C	34	171	74	371	197·6	+8·5	+20·4	−77·8
289·512 G	62	348	67	376	197·3	+8·4	+20·4	−62·6
290·483 G	102	443	80	346	197·7	+8·9	+20·6	−49·4
291·344 C	131	551	86	364	197·2	+8·6	+20·5	−38·5
292·447 C	126	702	72	400	197·0	+8·5	+20·2	−24·2
293·445 G	146	696	77	369	197·0	+8·7	+20·1	−11·0
294·426 G	142	721	74	375	196·8	+8·6	+20·0	+ 1·7
295·614 G	128	629	69	340	196·8	+8·8	+20·2	+17·4
296·389 G	98	514	57	298	196·6	+8·7	+20·2	+27·4
297·432 G	82	386	56	262	196·3	+8·6	+20·8	+40·9
298·324 C	55	346	46	287	195·7	+8·2	+20·9	+52·1
299·618 G	18	168	25	232	195·7	+8·3	+21·0	+69·1
300·412 G	20	89	48	213	195·0	+7·8	+21·3	+78·9

Spot *b*.

289·512 G	14	84	23	138	186·8	−2·1	+24·3	−73·1
290·483 G	24	215	24	212	188·3	−0·5	+24·1	−58·8
291·343 C	30	233	23	177	188·6	0·0	+24·1	−47·1
292·447 C	45	274	28	170	189·0	+0·5	+24·4	−32·2
293·445 G	76	357	42	200	189·4	+1·1	+24·4	−18·6
294·426 G	62	357	33	189	189·0	+0·8	+24·1	− 6·1
295·614 G	56	303	30	161	188·3	+0·3	+24·0	+ 8·9
296·389 G	48	231	27	129	187·9	0·0	+24·0	+18·7
297·432 G	32	196	20	122	187·1	−0·6	+23·6	+31·7
298·324 C	34	154	24	109	186·4	−1·1	+23·7	+42·8
299·618 G	12	137	12	140	186·5	−0·9	+23·3	+59·9
300·412 G	12	81	17	117	186·0	−1·2	+23·5	+69·9
301·324 C	10	41	33	134	186·5	−0·6	+23·5	+82·4

Group 9786.—November 13–19. A small but definite spot, *a*, (*a* of Group 9762) north of which unstable companions appear on Nov. 14 and the succeeding days.

316·310 C	6	18	10	31	193·8	+9·1	+21·4	−72·7
317·398 G	10	18	10	18	192·7	+8·1	+22·7	−59·4
318·389 G	10	22	8	17	192·2	+7·8	+21·4	−46·9
319·381 C	30	109	19	70	192·4	+8·1	+23·1	−33·6
320·441 G	16	47	9	26	193·8	+9·7	+22·4	−18·2
321·369 C	11	31	6	17	190·1	+6·1	+21·8	− 9·7
322·308 C	2	10	1	5	190·7	+6·9	+21·0	+ 3·3
Means ...	...	...	9	26	192·2	...	+22·0	...

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925.—*continued.*

No. **975**, Group 9786—*continued.*

Spot *a*.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
316·319 C	6	18	10	31	193·8	+9·1	+21·4	−72·7
317·398 G	8	12	8	12	192·3	+7·7	+21·8	−59·8
318·389 G	10	22	8	17	192·2	+7·8	+21·4	−46·9
319·381 C	13	19	8	12	191·6	+7·3	+21·1	−34·4
320·441 G	11	15	6	8	191·2	+7·1	+21·1	−20·8
321·369 C	6	11	3	6	190·7	+6·7	+20·9	− 9·1
322·308 C	2	10	1	5	190·7	+6·9	+21·0	+ 3·3

No. **976**. Latitude +16°·3.

Group 9790 in Rotation 965.

,, 9819 ,, ,, 966.

Group 9790.—November 18–30. A naked-eye group. An unusually long stream extending for 20° in longitude when fully developed. The leader, *a*, is the only spot which is sufficiently stable to be traced throughout the transit. From Nov. 20–22 a large composite spot at the rear is the predominating component of the stream, but this soon breaks up, and by Nov. 25, the leader is the most conspicuous spot. By the next day, however, a large composite spot has appeared closely following the leader, but this is breaking up when last seen near the west limb.

321·369 C	31	214	93	570	120·4	0·0	+17·9	−79·4
322·308 C	98	645	126	842	120·4	0·0	+18·0	−67·0
323·359 C	198	1538	172	1355	119·5	−0·9	+18·0	−54·1
324·418 G	347	2278	238	1581	118·7	−1·7	+18·6	−40·9
325·475 G	338	2642	191	1532	119·6	−0·7	+18·1	−26·1
326·451 C	198	1336	198	1336	119·7	−0·6	+17·8	−13·1
327·385 C	352	2416	184	1270	120·8	+0·5	+17·4	+ 0·3
328·307 C	328	2500	176	1339	121·8	+1·5	+16·9	+13·4
329·467 E	715	3469	426	2071	122·8	+2·5	+16·4	+29·7
330·434 C	326	2542	234	1806	123·4	+3·1	+16·4	+43·1
331·448 G	349	2159	337	2036	123·9	+3·7	+16·3	+56·9
332·361 C	180	1217	269	1762	124·1	+3·9	+16·4	+69·2
333·426 G	25	164	(66	452	118·7	...	+17·7)*	+77·8
Means ...	...	...	220	1458	121·3	...	+17·4	...

Spot *a*.

321·369 C	22	174	45	357	123·8	0·0	+16·7	−76·0
322·308 C	54	320	58	346	125·5	+1·7	+16·8	−61·9
323·359 C	85	584	65	450	125·8	+2·0	+16·8	−47·8
324·418 G	131	713	81	442	126·4	+2·6	+16·6	−33·2
325·475 G	184	1029	99	556	126·7	+3·0	+15·7	−19·0
326·451 C	179	1093	93	568	126·6	+2·9	+15·6	− 6·2
327·385 C	192	1184	100	616	126·9	+3·2	+15·4	+ 6·4
328·307 C	175	1316	95	711	127·3	+3·6	+15·3	+18·9
329·467 E	341	1640	211	1017	127·3	+3·6	+15·4	+34·2
330·434 C	168	1189	128	904	127·8	+4·1	+15·5	+47·5
331·448 G	181	898	194	961	128·2	+4·6	+15·3	+61·2
332·361 C	93	479	165	848	128·3	+4·7	+15·5	+73·4

No. **976** —*continued.*

Group 9819.—December 14–27. A large spot, *a* of Group 9790, whose umbræ is crossed by a bright "bridge" until Dec. 25. An extensive area of faculæ follows the spot.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
347·506 G	12	62	64	330	131·1	...	+14·7	−84·2
348·348 C	53	369	97	675	131·1	+7·7	+15·4	−73·2
349·360 C	89	528	94	560	130·7	+7·3	+15·4	−60·2
350·380 C	139	781	106	594	130·8	+7·4	+15·8	−46·7
351·339 C	156	903	98	569	130·6	+7·2	+16·0	−34·3
352·330 C	179	1021	100	572	130·6	+7·3	+15·9	−21·2
353·394 C	202	1013	107	537	130·5	+7·2	+15·7	− 7·3
354·338 C	156	960	83	509	130·6	+7·3	+15·9	+ 5·2
355·322 C	189	928	104	511	130·2	+6·9	+15·7	+17·8
356·317 C	164	833	100	508	130·2	+6·9	+15·7	+30·9
357·314 C	152	649	111	474	130·1	+6·8	+15·7	+43·9
358·400 C	101	435	101	435	129·6	+6·4	+15·7	+57·8
359·466 G	43	284	75	494	129·7	+6·5	+15·2	+71·9
360·355 C	21	97	92	426	128·6	...	+15·4	+82·5
Means ...	...	...	98	536	130·4	...	+15·7	...

Group 9859.—1926, January 11–23. A decreasing regular spot, *a* of Group 9790, with an occasional very small attendant.

375·325 C	21	122	72	418	129·0	+6·0	+15·6	−79·9
376·517 G	49	229	63	295	128·2	+5·2	+15·5	−65·0
377·434 G	75	377	66	334	128·7	+5·7	+15·6	−52·5
378·314 C	84	443	60	315	128·6	+5·7	+15·5	−41·0
379·308 C	89	422	54	257	128·4	+5·5	+15·5	−28·1
380·320 C	89	506	49	278	128·4	+5·5	+15·5	−14·8
381·414 C	87	452	46	240	128·2	+5·3	+15·5	− 0·6
382·310 C	76	373	41	201	128·1	+5·2	+15·7	+11·1
383·335 C	44	329	26	195	127·7	+4·8	+15·9	+24·2
384·472 G	45	272	31	188	127·4	+4·5	+15·9	+38·9
385·341 C	42	268	36	228	127·3	+4·5	+16·3	+50·2
386·333 C	21	124	25	150	126·6	+3·8	+16·3	+62·6
387·346 C	13	46	31	110	126·5	+3·7	+16·5	+75·8
Means ...	...	...	46	247	127·9	...	+15·8	...

No. **977**. Latitude +23°·1.

Group 9791 in Rotation 965.

Group 9813 and 9814 in Rotation 966.

Group 9791.—November 20–26. A large stream approximately of normal type, beginning its development near the sun's central meridian. *a* and *b* are the leader and follower respectively.

323·359 C	13	45	7	24	177·4	0·0	+23·0	+ 3·8
324·418 G	118	555	67	313	177·2	0·0	+23·0	+17·6
325·475 G	175	1150	109	717	176·4	−0·6	+22·8	+30·7
326·451 C	188	1400	137	1019	174·6	−2·1	+23·4	+41·8
327·385 C	147	1148	137	1064	175·2	−1·4	+23·1	+54·7
328·307 C	89	700	114	943	175·2	−1·2	+23·3	+66·8
329·467 E	33	185	(67	374	168·1	...	+22·8)*	+75·0
Means ...	...	...	95	680	176·0	...	+23·1	...

LEDGER I.—RECURRENT GROUPS of SUN SPOTS for the YEAR 1925.—*continued.*

No. **977**, Group 9791—*continued.*

Spot *a*.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
324·418 G	59	228	34	130	179·8	0·0	+23·0	+20·2
325·475 G	74	422	48	274	180·2	+0·6	+22·9	+34·5
326·451 C	47	413	37	326	180·2	+0·8	+23·1	+47·4
327·385 C	53	424	55	441	179·8	+0·6	+23·2	+59·3
328·307 C	30	330	47	518	178·6	−0·4	+23·3	+70·2

Spot *b*.

325·475 G	55	278	32	164	171·3	0·0	+23·1	+25·6
326·451 C	60	550	41	374	170·3	−0·8	+23·3	+37·5
327·385 C	51	430	42	353	169·6	−1·3	+23·3	+49·1
328·307 C	40	230	43	246	168·6	−2·1	+23·2	+60·2
329·467 E	33	185	67	374	168·1	−2·4	+22·8	+75·0

Group 9813.—December 11–19. A small group closely preceding Group 9814, with which it may be associated as a return of Group 9791.

344·302 C	4	23	12	70	178·3	+2·7	+24·8	−79·3
345·458 G	53	199	67	255	177·8	+2·4	+23·3	−64·5
346·411 C	42	202	37	181	177·6	+2·4	+23·0	−52·2
347·506 G	48	196	33	135	177·8	+2·9	+23·0	−37·5
348·348 C	30	107	18	65	178·7	+3·9	+22·7	−24·6
349·360 C	13	116	7	65	178·9	+4·3	+22·5	−12·0
350·380 C	8	74	4	41	178·4	+4·1	+23·0	+ 0·9
351·339 C	2	13	1	7	177·5	+3·4	+23·5	+12·6
352·330 C	8	25	5	16	177·4	+3·5	+24·5	+25·6
Means ...	...	...	20	93	178·0	...	+23·4	...

Group 9814.—December 11–23. A spot, nearly of regular formation, with occasional small companions. This is probably *a* of Group 9791.

344·302 C	5	19	22	83	174·9	...	+23·9	−82·7
345·458 G	33	118	54	192	172·2	−3·2	+23·5	−70·1
346·411 C	28	247	29	257	171·8	−3·4	+23·5	−58·0
347·506 G	47	267	36	203	171·0	−3·9	+23·0	−44·3
348·348 C	39	304	26	201	170·4	−4·4	+23·1	−33·9
349·360 C	38	316	22	187	169·7	−4·9	+22·9	−21·2
350·380 C	55	249	30	137	169·3	−5·0	+22·6	− 8·2
351·339 C	30	190	17	105	169·0	−5·1	+22·9	+ 4·1
352·330 C	38	177	22	101	168·2	−5·7	+22·6	+16·4
353·394 C	21	97	13	61	167·8	−5·9	+22·1	+30·1
354·338 C	12	63	9	47	167·4	−6·1	+22·6	+42·0
355·322 C	10	25	10	24	167·4	−5·9	+22·6	+55·0
356·317 C	4	17	6	25	166·6	−6·5	+22·5	+67·3
Means ...	...	...	23	128	169·2	...	+22·8	...

No. **978**. Latitude +22°·2.

Group 9794 in Rotation 965.

,, 9823 ,, ,, 966.

Group 9794.—November 21–December 3. A regular spot; *a*, usually with a few tiny followers. The group immediately precedes Group 9796.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
324·418 G	10	40	32	126	78·5	0·0	+22·3	−81·1
325·475 G	16	113	20	145	79·9	+ 1·6	+22·6	−65·8
326·451 C	36	203	32	174	81·0	+ 2·9	+22·6	−51·8
327·385 C	55	338	38	232	81·5	+ 3·5	+22·7	−39·0
328·307 C	64	328	38	198	82·3	+ 4·5	+22·7	−26·1
329·467 E	115	407	62	220	83·0	+ 5·4	+22·6	−10·1
330·434 C	79	375	43	203	83·6	+ 6·2	+22·5	+ 3·3
331·448 G	68	356	38	199	84·2	+ 7·0	+22·3	+17·2
332·361 C	57	322	35	200	84·7	+ 7·6	+22·6	+29·8
333·427 G	63	321	47	240	85·3	+ 8·4	+22·6	+44·4
334·454 G	30	224	31	227	85·5	+ 8·8	+22·6	+58·2
335·324 C	32	156	50	242	85·7	+ 9·2	+22·6	+69·8
336·341 C	8	49	43	261	87·0	+10·4	+22·8	+84·5
Means ...	...	...	39	207	83·3	...	+22·6	...

Spot *a*.

325·475 G	16	113	20	145	79·9	0·0	+22·6	−65·8
326·451 C	30	172	26	146	81·3	+1·6	+22·7	−51·5
327·385 C	47	281	32	191	81·8	+2·3	+22·7	−38·7
328·307 C	60	311	36	187	82·4	+3·0	+22·7	−26·0
329·467 E	115	407	62	220	83·0	+3·8	+22·6	−10·1
330·434 C	79	375	43	203	83·6	+4·6	+22·5	+ 3·3
331·448 G	63	339	35	190	84·3	+5·5	+22·3	+17·3
332·361 C	55	314	34	195	84·7	+6·0	+22·6	+29·8
333·427 G	61	311	46	233	85·3	+6·8	+22·6	+44·4
334·454 G	27	212	28	216	85·6	+7·3	+22·5	+58·3
335·324 C	30	148	47	232	85·9	+7·8	+22·6	+70·0

Group 9823.—December 18–25. A small definite spot (evidently *a* of Group 9794) with a companion on Dec. 22 and 23. Nothing is seen on Dec. 24, but four small markings appear on Dec. 25.

351·339 C	4	17	16	69	83·1	+ 7·9	+21·4	−81·8
352·330 C	6	25	10	41	81·8	+ 6·8	+21·7	−70·0
353·394 C	10	32	10	31	81·9	+ 7·0	+21·7	−55·9
354·338 C	6	21	5	16	81·9	+ 7·2	+21·9	−43·5
355·322 C	10	19	6	12	80·5	+ 6·0	+22·7	−31·9
356·317 C	4	12	2	6	83·4	+ 9·1	+20·4	−15·9
357·314 C	0	0	0	0	...	...	...	...
358·400 C	6	44	3	25	85·0	+11·1	+21·3	+13·2
Means ...	...	...	5	19	82·4	...	+21·6	...

LEDGER I.—RECURRENT GROUPS OF SUN SPOTS FOR THE YEAR 1925.

No. **979**. Latitude +25°·7.

Group 9795 in Rotation 965.

,, 9811 ,, ,, 966.

Group 9795.—November 22–25. A pair of spots appearing in the disturbed area *p*, Group 9791. A considerable increase in size is shown between Nov. 23 and 24.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
325·475 G	3	11	3	8	189·2	0·0	+25·9	+43·5
326·451 C	2	9	2	9	189·0	+0·1	+27·8	+56·2
327·385 C	30	230	42	320	187·7	−0·9	+26·8	+67·2
328·307 C	13	68	36	186	187·4	−0·9	+26·1	+79·0
Means ...	...	...	21	131	188·3	...	+26·6	...

No. **979**—*continued*.

Group 9811.—December 10–22. A large regular spot closely following Group 9810 with which it makes a naked-eye object.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
343·482 G	28	165	85	500	189·2	+5·4	+25·3	−79·2
344·302 C	47	362	70	543	189·6	+6·1	+25·4	−68·0
345·458 G	76	654	71	608	189·2	+6·0	+25·4	−53·1
346·411 C	93	722	69	534	188·6	+5·7	+25·5	−41·2
347·506 G	120	760	76	479	187·9	+5·3	+25·3	−27·4
348·348 C	85	876	49	508	187·6	+5·2	+25·5	−16·7
349·360 C	101	915	57	512	187·3	+5·2	+25·2	− 3·6
350·380 C	87	751	50	428	186·8	+5·0	+25·3	+ 9·3
351·339 C	87	536	52	322	186·3	+4·8	+25·5	+21·4
352·330 C	53	397	36	270	185·8	+4·6	+25·9	+34·0
353·394 C	82	380	69	319	185·5	+4·6	+25·3	+47·7
354·338 C	55	312	62	349	184·8	+4·2	+25·5	+59·4
355·322 C	21	157	41	297	184·7	+4·4	+25·6	+72·3
Means ...	...	...	61	436	187·2	...	+25·4	...

ROYAL OBSERVATORY, GREENWICH

Ledgers of Groups of Sun Spots

for the Year

1925

Ledger II.—Non-Recurrent Groups

GREENWICH PHOTO-HELIOGRAPHIC RESULTS 1925

Ledger II.—Non-Recurrent Groups of Sun Spots for the Year 1925.

The Greenwich Mean Time at which the photograph was taken is expressed in the *first* column by the Day of the Year and decimal of a day, reckoned from Greenwich Mean Midnight.

The place where the photograph was taken is also indicated in the *first* column. A photograph taken at Greenwich is indicated by the letter G, and those taken at the Cape, Kodaikánal, Dehra Dûn, Ebro, by the letters C, K, D, and E, respectively.

The Projected Area of the Umbræ and Whole Spots, given in the *second* and *third* columns, 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 disc.

The area corrected for foreshortening given in the *fourth* and *fifth* columns is expressed in millionths of the Sun's visible hemisphere.

The longitude given in the *sixth* column is based on the ephemeris given in the *Nautical Almanac*, assuming a daily sidereal motion of 14°·18, due to the Sun's rotation, constant at all latitudes; this corresponds to Carrington's assumed rotation period of 25·38 days.

The proper motion given in the *seventh* column is derived from the difference of longitude thus computed from the measured positions on any given day and the first day on which the group of spots or single spot is visible, after the correction for the motion appropriate to the latitude has been applied according to the formula, $\xi = 14^\circ{\cdot}37 - 2^\circ{\cdot}60 \sin^2\phi$.

A *plus* sign indicates a motion forwards; a *minus* sign a motion backwards relative to the position on the first day.

The remaining columns correspond to those with similar headings in the preceding Section.

When a group is 80° or more from the Sun's central meridian, the measures for that day are not included in taking the mean area, longitude and latitude of the group. In such cases of close proximity to the Sun's limb, the addition of an asterisk denotes that only part of the group is visible.

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9598.

January 16–25. Revival of Group 9593. Two or three small faint spots, which have disappeared by January 18. On the next day a number of imperfectly formed spots have appeared in a stream which gains in distinctness on the following days.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.		Latitude.	Long. from C.M.
d					°	°	°	°
15·366 C	9	67	6	47	245·0	0·0	+24·3	−35·1
16·316 C	3	18	2	11	245·9	+1·1	+24·4	−21·7
17·366 C	0	0	0	0	...	...	...	...
18·338 C	31	206	18	117	246·7	+2·4	+23·6	+ 5·7
19·361 C	34	211	20	127	246·6	+2·5	+23·0	+19·1
20·349 C	29	176	20	122	247·8	+4·0	+24·0	+33·3
21·312 C	23	136	18	111	246·0	+2·4	+23·3	+44·1
22·464 G	24	98	27	114	244·7	+1·4	+23·1	+58·0
23·448 G	6	27	10	46	242·2	−0·9	+23·9	+68·5
24·114 K	4	27	12	82	241·8	−1·2	+24·8	+76·8
Means ...	...	...	13	78	245·2	...	+23·8	...

Group 9606.

February 7–14. A stream roughly of normal type in equatorial zones. The leader, *a*, has become a regular spot by February 9 and is the sole survivor on February 14.

37·495 G	9	65	5	35	333·4	0·0	+ 8·5	−15·4
38·345 C	32	159	17	83	333·5	0·0	+ 8·8	− 4·1
39·404 G	78	392	42	210	336·1	+2·5	+ 8·8	+12·5
40·455 C	63	501	38	297	337·7	+3·9	+ 9·3	+27·9
41·450 C	45	293	31	207	338·4	+4·5	+ 9·1	+41·7
42·534 G	44	228	41	215	338·3	+4·3	+ 9·1	+55·9
43·325 C	30	159	41	223	339·2	+5·1	+ 9·2	+67·2
44·404 C	6	41	23	157	339·0	...	+ 9·1	+81·2
Means ...	...	...	31	181	336·6	...	+ 9·0	...

Spot *a*.

39·404 G	54	258	29	139	337·7	0·0	+ 8·8	+14·1
40·455 C	38	371	23	223	339·1	+1·3	+ 9·5	+29·3
41·450 C	32	236	23	170	339·3	+1·3	+ 9·5	+42·6
42·534 G	24	163	24	161	340·2	+2·1	+ 9·2	+57·8
43·325 C	20	131	29	189	340·0	+1·8	+ 9·1	+68·0
44·404 C	6	41	23	157	339·0	+0·7	+ 9·1	+81·2

Group 9607.

February 7–19. A very large regular spot followed by faculæ in which occasional small companions subsequently appear. After February 11 several "bridges" begin to intersect, first the umbra and then the penumbra. The spot is disappearing rapidly after February 17.

37·495 G	51	216	144	609	267·3	...	−18·7	−81·5
38·345 C	50	378	71	532	267·6	0·0	−18·7	−70·0
39·404 G	76	528	68	475	267·5	0·0	−18·7	−56·1
40·455 C	126	668	86	456	267·3	−0·1	−18·7	−42·5

Group 9607—*continued*.

d					°	°	°	°
41·450 C	119	926	71	548	266·6	−0·7	−19·0	−30·1
42·534 G	148	1077	78	571	266·7	−0·5	−19·2	−15·7
43·325 C	170	1037	87	529	266·5	−0·7	−19·1	− 5·5
44·404 C	116	962	60	500	266·5	−0·6	−19·2	+ 8·7
45·365 C	157	955	87	525	266·4	−0·6	−19·5	+21·2
46·406 G	117	706	72	438	266·7	−0·2	−19·2	+35·2
47·321 C	59	546	44	404	266·5	−0·3	−19·2	+47·1
48·501 G	37	219	40	234	266·9	+0·2	−19·3	+63·0
49·302 C	15	66	24	106	266·5	−0·1	−19·2	+73·2
Means ...	...	...	66	443	266·8	...	−19·1	...

Group 9609.

February 11–16. Intermittent. A very small spot in the southern extremity of an extensive area of faculæ. The spot is not seen on February 14, but a small transient stream appears in its place on the two following days.

41·450 C	0	9	0	10	238·4	0·0	+15·9	−58·3
42·534 G	4	11	3	8	239·9	+1·5	+16·3	−42·5
43·325 C	3	6	2	4	240·5	+2·1	+16·2	−31·5
44·404 C	0	0	0	0	...	...	...	...
45·365 C	14	48	8	26	240·9	+2·5	+15·3	− 4·3
46·406 G	8	24	4	13	242·1	+3·7	+15·5	+10·6
Means ...	...	...	3	10	240·4	...	+15·8	...

Group 9610.

February 11–17. Intermittent. A small spot, not seen on February 14 and 16, in the same disturbed area as Group 9609.

41·450 C	1	6	1	8	232·6	0·0	+22·8	−64·1
42·534 G	2	9	2	8	232·3	−0·1	+23·2	−50·1
43·325 C	3	9	2	7	232·0	−0·2	+23·3	−40·0
44·404 C	0	0	0	0	...	...	...	...
45·365 C	2	12	1	7	229·8	−2·0	+22·1	−15·4
46·406 G	0	0	0	0	...	...	...	...
47·321 C	3	12	2	7	228·2	−3·2	+22·9	+ 8·8
Means ...	...	...	1	5	231·0	...	+22·9	...

Group 9611.

February 12–18. An unstable stream on the same meridian as Groups 9607 and 9608.

42·534 G	23	68	13	39	267·4	0·0	−31·3	−15·0
43·325 C	33	118	18	65	265·6	−1·4	−30·9	− 6·4
44·404 C	55	309	30	170	265·1	−1·4	−31·2	+ 7·3
45·365 C	38	197	22	114	264·9	−1·1	−31·5	+19·7
46·406 G	10	38	6	24	263·6	−1·8	−31·6	+32·1
47·321 C	6	21	4	15	260·5	−4·5	−31·0	+41·1
48·501 G	1	4	1	4	258·5	−5·9	−30·7	+54·6
Means ...	...	...	13	62	263·7	...	−31·2	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

Group 9614.

February 28–March 5. A stream of normal type in miniature and of brief duration.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
58·427 G	6	27	3	14	73·0	0·0	−25·9	−0·1
59·364 C	22	141	12	78	76·5	+3·8	−25·7	+15·7
60·337 C	18	75	11	44	75·4	+3·0	−25·8	+27·4
61·329 C	6	32	4	22	75·8	+3·7	−26·2	+40·9
62·419 G	2	11	2	10	78·0	+6·2	−26·1	+57·5
63·552 C	0	4	0	6	77·6	+6·2	−26·4	+72·0
Means ...	...	...	5	29	76·0	...	−26·0	...

Group 9618.

March 23–April 1. A stream of some importance which develops from one or two tiny spots seen first on March 23 and 24. The components of the stream are in continual change and are not suitable for individual measurement.

81·470 G	5	16	4	12	91·1	0·0	+19·9	−38·3
82·476 G	4	15	2	9	89·7	−1·3	+19·7	−26·5
83·517 G	38	114	22	65	91·1	+0·2	+20·1	−11·3
84·328 C	66	314	37	176	91·4	+0·6	+20·0	−0·4
85·329 C	112	717	65	416	92·6	+2·0	+19·9	+14·0
86·498 G	137	699	90	459	92·9	+2·4	+19·8	+29·8
87·357 C	106	704	80	533	92·7	+2·3	+20·2	+40·9
88·353 C	68	560	67	551	92·2	+1·9	+20·8	+53·5
89·324 C	63	487	94	705	91·2	+1·0	+21·0	+65·3
90·354 C	20	147	58	429	89·2	−0·8	+21·1	+76·9
Means ...	...	...	52	336	91·4	...	+20·2	...

Group 9619.

March 23–30. A very small but definite spot with a companion following until March 25. No spots are seen on March 29.

81·470 G	9	28	8	26	78·4	0·0	+21·1	−51·0
82·476 G	10	20	7	14	79·4	+1·1	+20·9	−36·8
83·517 G	14	46	8	28	80·0	+1·9	+20·8	−22·4
84·328 C	9	24	5	14	80·9	+2·9	+20·2	−10·9
85·329 C	4	22	2	12	78·0	+0·1	+20·5	−0·6
86·498 G	2	9	1	5	78·2	+0·4	+20·2	+15·1
87·357 C	0	0	0	0	...	...	...	...
88·353 C	0	6	0	4	79·2	+1·7	+19·9	+40·5
Means ...	...	...	4	13	79·2	...	+20·5	...

Group 9620.

April 2–6. A small regular spot rapidly diminishing to extinction.

91·334 C	8	51	17	109	281·6	0·0	−32·9	−77·7
92·467 G	10	77	12	89	280·8	−0·2	−33·0	−63·6
93·318 C	8	38	7	33	280·5	0·0	−33·0	−52·7
94·508 G	8	40	6	28	279·8	0·0	−32·6	−37·7
95·532 G	3	11	2	7	278·9	−0·3	−32·3	−25·0
Means ...	...	...	9	53	280·3	...	−32·8	...

Group 9621.

April 4–11. A stream of small, faint, unstable spots. None are visible on April 10.

d					°	°	°	°
93·318 C	1	6	2	9	265·2	0·0	+15·9	−68·0
94·508 G	14	52	13	47	264·5	−0·7	+15·6	−53·0
95·532 G	16	62	11	43	265·3	+0·1	+15·6	−38·6
96·346 C	14	66	8	40	265·9	+0·7	+15·9	−27·3
97·155 K	8	43	4	24	266·9	+1·7	+16·5	−15·6
98·332 C	0	17	0	9	266·8	+1·6	+15·6	−0·2
99·619 G	0	0	0	0	...	...	...	...
100·360 G	0	14	0	8	264·3	−0·9	+16·4	+24·1
Means ...	...	...	5	23	265·6	...	+15·9	...

Group 9622.

April 7–13. A regular spot dying out.

96·346 C	5	22	8	37	226·1	0·0	+31·0	−67·1
97·155 K	11	37	14	46	225·2	−0·5	+30·9	−57·3
98·332 C	8	66	7	57	224·2	−0·9	+30·8	−42·8
99·619 G	12	67	8	48	223·1	−1·4	+31·0	−26·9
100·360 G	16	58	10	38	222·5	−1·6	+30·9	−17·7
101·356 G	15	29	9	18	221·9	−1·7	+30·9	−5·2
102·378 G	3	22	2	14	221·5	−1·6	+30·6	+7·9
Means ...	...	...	8	37	223·5	...	+30·9	...

Group 9627.

April 10–18. Two tiny spots on April 10. The leader, *ap*, suddenly enlarges to a regular spot which, after reaching a maximum on April 12, declines to a dot on April 18. The following spot fails to develop.

99·619 G	1	10	1	10	194·3	0·0	+22·2	−55·7
100·360 G	21	109	16	87	196·1	+1·9	+21·1	−44·1
101·356 G	30	169	20	110	196·8	+2·7	+20·8	−30·3
102·378 G	34	154	20	89	196·8	+2·9	+20·5	−16·8
103·390 G	31	156	17	87	196·5	+2·7	+20·5	−3·7
104·333 C	33	121	18	68	196·1	+2·5	+20·5	+8·3
105·499 G	6	51	4	31	195·7	+2·2	+20·6	+23·3
106·412 G	6	30	4	20	195·1	+1·7	+20·4	+34·8
107·328 C	9	18	7	15	194·9	+1·7	+20·9	+46·7
Means ...	...	...	12	57	195·8	...	+20·8	...

Group 9628.

April 2–17. A small distinct spot followed by faculæ, in which a few small companion spots appear on April 16 and 17.

101·356 G	1	4	3	12	149·2	0·0	+18·3	−77·9
102·378 G	7	14	9	18	149·8	+0·6	+18·0	−63·8
103·390 G	8	19	7	16	149·8	+0·7	+17·8	−50·4

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9628—*continued*.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
104·333 C	9	23	6	16	149·8	+0·7	+17·7	−38·0
105·499 G	19	47	11	28	147·7	−1·3	+16·1	−24·7
106·412 G	4	18	2	10	148·8	−0·2	+16·9	−11·5
Means ..	...	...	6	17	149·2	...	+17·5	...

Group 9630.

April 17–21. Possibly a return of Group 9618, but more probably a new outburst on the evidence of the faculæ which follows the spot.

106·412 G	2	8	5	22	83·2	0·0	+18·0	−77·1
107·328 C	7	18	10	25	82·6	−0·6	+18·3	−65·6
108·428 G	9	20	8	18	82·5	−0·6	+18·3	−51·2
109·359 G	7	14	5	10	82·2	−0·8	+18·3	−39·2
110·410 G	2	8	1	5	82·0	−0·9	+18·2	−25·5
Means ...	...	...	6	16	82·5	...	+18·2	...

Group 9631.

April 17–27. A moderate-sized group consisting of two clusters of rapidly changing spots. The preceding cluster is alone represented after April 22 by faint spots in diminishing numbers.

106·412 G	28	151	62	362	81·0	...	−25·1	−79·3
107·328 C	56	369	77	506	79·6	−1·2	−25·1	−68·6
108·428 G	73	455	64	399	79·8	−0·7	−25·1	−53·9
109·359 G	42	344	29	238	80·8	+0·5	−24·7	−40·6
110·410 G	25	189	16	112	80·8	+0·8	−24·3	−26·7
111·611 G	2	65	2	34	80·8	+1·1	−23·0	−10·8
112·639 G	3	63	2	33	82·2	+2·7	−23·9	+ 4·1
113·351 G	7	53	4	29	82·5	+3·2	−23·7	+13·8
114·351 G	0	10	0	6	81·9	+2·9	−23·2	+26·5
115·303 G	1	16	1	11	81·4	+2·6	−24·3	+38·5
116·572 G	0	3	0	3	82·8	+4·3	−25·1	+56·7
Means ...	...	...	23	158	81·2	...	−24·3	...

Group 9632.

April 19–26. A short stream of very small spots.

108·428 G	12	52	7	32	108·0	0·0	+20·8	−25·7
109·359 G	23	70	13	40	108·3	+0·4	+20·4	−13·1
110·410 G	12	46	7	25	108·3	+0·5	+20·5	+ 0·8
111·611 G	15	56	9	33	106·8	+0·8	+20·8	+15·2
112·639 G	0	17	0	11	108·5	+1·0	+20·3	+30·4
113·351 G	14	47	10	34	108·6	+1·2	+19·6	+39·9
114·351 G	10	33	9	30	107·8	+0·5	+19·7	+52·4
115·303 G	0	5	0	8	111·2	+4·0	+19·6	+68·3
Means ...	...	...	7	27	108·4	...	+20·2	...

Group 9633.

April 19–24. A small distinct spot, with a close companion on April 22, leading a small tract of faculæ.

d					°	°	°	°
108·428 G	8	35	13	56	64·2	0·0	+16·0	−69·5
109·359 G	8	24	8	24	64·2	0·0	+15·8	−57·2
110·410 G	10	20	8	15	63·6	−0·6	+15·9	−43·9
111·611 G	11	23	7	14	63·0	−1·2	+15·9	−28·6
112·639 G	3	11	2	6	63·1	−1·1	+15·6	−15·0
113·351 G	1	9	1	5	63·1	−1·1	+15·3	− 5·6
Means ...	...	...	7	20	63·5	...	+15·8	...

Group 9634.

April 21–28. A revival of spot activity in the northern part of a conspicuous area of faculæ seen near the east limb from April 17–19, and evidently associated with Group 9618 of the previous rotation. A stream of spots with the chief development in the following components. On April 23 the stream contains three regular spots in a line; the preceding two spots are only partially developed.

110·410 G	4	17	2	10	92·2	0·0	+25·7	−15·3
111·611 G	36	132	21	76	93·2	+1·4	+25·2	+ 1·6
112·639 G	81	323	49	194	88·4	−3·1	+27·1	+10·3
113·351 G	65	438	41	275	88·1	−3·1	+26·9	+19·4
114·351 G	73	383	52	271	88·0	−2·9	+26·9	+32·6
115·303 G	33	216	28	185	88·4	−2·2	+26·9	+45·5
116·572 G	13	72	17	97	88·2	−2·0	+26·9	+62·1
117·488 G	9	33	23	85	88·8	−1·1	+26·6	+74·8
Means ...	...	...	29	149	89·4	...	+26·5	...

Group 9640.

May 8–19. A stream in which the components show little stability until May 15, when two partially developed regular spots continue for a few days to represent the leading and following parts of the disturbance.

127·636 G	0	4	0	6	170·1	0·0	−17·7	−69·7
128·355 G	8	64	10	76	166·3	−3·7	−19·4	−64·0
129·307 G	29	148	25	127	164·9	−5·1	−19·9	−52·8
130·348 G	28	111	19	75	164·1	−5·8	−19·5	−39·9
131·353 G	36	143	20	82	166·4	−3·4	−18·4	−24·3
132·289 G	28	144	15	76	166·3	−3·4	−18·3	−12·0
133·359 G	40	283	21	147	166·1	−3·5	−18·9	+ 1·9
134·363 G	48	221	26	120	166·8	−2·8	−18·8	+15·9
135·380 G	42	209	25	124	166·2	−3·3	−19·0	+28·8
136·332 G	35	203	24	142	166·2	−3·2	−19·2	+41·4
137·360 G	15	79	14	75	167·8	−1·5	−18·6	+56·6
138·476 G	2	15	3	25	168·8	−0·4	−18·3	+72·3
Mean ...	...	...	17	90	166·7	...	−18·8	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9642.

May 12–23. A stream of spots, with abnormal changes in the leader, evidently of recent origin when first seen at the east limb. On May 14, the leader spot, *a*, shows a small secondary umbra; on the following day, *a* with its double umbra has lengthened in the direction of longitude, whilst a complete division into two components, a_1 and a_2 has taken place on May 16. a_1 and a_2 separate, but a_2 rapidly dwindles, and a_1 subsequently shows a sudden decrease between May 22 and 23.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°
131·353 G	12	44	31	114	113·5	0·0	+18·3	−77·2
132·289 G	25	191	34	258	112·4	−1·0	+18·4	−65·9
133·359 G	41	325	37	282	112·6	−0·8	+18·6	−51·6
134·363 G	52	436	36	297	113·3	0·0	+18·7	−37·6
135·380 G	87	401	51	235	114·1	+0·9	+18·9	−23·3
136·332 G	83	475	44	259	114·4	+1·2	+18·7	−10·4
137·360 G	73	305	40	162	114·7	+1·6	+18·3	+ 3·5
138·476 G	56	299	32	169	115·2	+2·2	+18·6	+18·7
139·346 C	41	233	25	145	116·4	+3·4	+17·9	+31·4
140·359 C	26	175	19	131	115·9	+3·0	+17·8	+44·3
141·355 G	19	96	20	99	117·6	+4·7	+17·4	+59·2
142·486 G	2	10	4	20	117·9	+5·0	+17·1	+74·5
Means ...	...	...	31	181	114·8	...	+18·2	...

Spot *a*.

131·353 G	12	44	31	114	113·5	0·0	+18·3	−77·2
132·289 G	19	137	24	171	114·3	+0·9	+18·0	−64·0
133·359 G	26	232	22	192	114·8	+1·4	+18·1	−49·4
134·363 G	43	363	29	243	114·5	+1·2	+18·6	−36·4

Spot a_1.

135·380 G	39	177	23	103	116·0	0·0	+18·6	−21·4
136·332 G	36	235	19	127	115·9	0·0	+18·6	− 8·9
137·360 G	35	150	19	81	116·6	+0·7	+18·4	+ 5·4
138·476 G	33	198	19	113	116·8	+1·0	+18·6	+20·3
139·346 C	27	178	17	112	117·1	+1·4	+18·0	+32·1
140·359 C	19	128	14	97	117·2	+1·5	+17·4	+45·6
141·355 G	17	89	18	92	117·7	+2·1	+17·0	+59·3
142·486 G	2	10	4	20	117·9	+2·4	+17·1	+74·5

Spot a_2.

135·380 G	28	159	16	92	114·0	0·0	+18·4	−23·4
136·332 G	27	108	14	58	113·7	−0·2	+18·1	−11·1
137·360 G	28	99	15	52	113·6	−0·3	+18·1	+ 2·4
138·476 G	16	45	9	25	113·2	−0·6	+18·3	+16·7
139·346 C	10	26	6	16	113·3	−0·4	+18·0	+28·3

Group 9645.

May 16–22. A stream of normal development in high latitude. The leader spot, *a*, appears on May 18 to be almost divided into two equal portions by a bright "bridge" traversing it in an easterly and westerly direction.

d					°	°	°	°
135·380 G	8	31	5	19	136·8	0·0	+33·5	− 0·6
136·332 G	53	284	33	178	136·8	+0·6	+33·1	+12·0
137·360 G	96	563	65	384	136·3	+0·7	+33·2	+25·1
138·476 G	60	399	48	322	135·7	+0·8	+34·2	+39·2
139·346 C	31	294	30	291	135·8	+1·4	+33·7	+50·8
140·359 C	22	155	32	223	135·5	+1·7	+33·5	+63·9
141·355 G	10	53	29	155	135·4	+2·2	+33·4	+77·0
Means ...	...	...	35	225	136·0	...	+33·5	...

Spot *a*.

136·332 G	16	120	10	76	138·9	0·0	+32·9	+14·1
137·360 G	60	327	41	226	138·4	+0·1	+32·7	+27·2
138·476 G	37	271	30	223	137·5	−0·2	+33·4	+41·0
139·346 C	22	224	22	226	137·1	0·0	+33·1	+52·1
140·359 C	19	135	28	198	136·3	−0·2	+33·5	+64·7
141·355 G	10	53	29	155	135·4	−0·5	+33·4	+77·0

Group 9648.

May 17–27. An irregular stream of smallish spots of which the most important is the leader. This spot, which is of a composite nature from the beginning, is closely followed by another after May 19, and the two tend to approach each other. They are measured together as one from May 20.

136·332 G	6	17	6	16	70·1	0·0	+20·3	−54·7
137·360 G	41	119	29	85	70·5	+0·5	+20·2	−40·7
138·476 G	48	248	29	148	71·4	+1·6	+19·9	−25·1
139·346 C	55	270	30	151	71·5	+1·8	+20·4	−13·5
140·359 C	64	299	34	162	70·7	+1·1	+20·6	− 0·9
141·355 G	38	177	21	98	70·8	+1·3	+20·3	+12·4
142·486 G	37	124	23	76	71·7	+2·3	+19·6	+28·3
143·383 G	24	108	17	76	71·6	+2·3	+19·9	+40·0
144·441 G	27	105	25	96	71·8	+2·7	+20·4	+54·2
145·351 G	11	48	15	65	71·6	+2·5	+20·5	+66·1
146·444 C	3	12	(7	28	67·3	...	+22·3)*	+76·2
Means ...	...	...	23	97	71·2	...	+20·2	...

Group 9653.

May 27–June 3. A small stream of which the preceding component alone remains on June 1. By the following day a fresh group of spots is commencing.

146·444 C	3	10	2	6	335·4	0·0	−19·5	−15·7
147·365 G	25	116	13	62	336·8	+1·5	−19·9	− 2·1
148·347 G	25	176	13	95	338·2	+3·0	−19·9	+12·3
149·411 G	14	99	9	59	338·0	+2·9	−19·8	+26·2
150·268 G	4	34	3	22	336·5	+1·5	−19·8	+36·1

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9653—*continued*.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
151·326 G	1	3	1	3	340·4	+5·5	−19·7	+53·9
152·360 G	63	371	69	406	334·0	−0·8	−19·5	+61·2
153·368 G	28	243	56	520	335·0	−0·3	−20·1	+75·6
Means ...	...	...	21	147	336·8	...	−19·8	...

Group 9656.

June 1–9. A large stream of normal type showing rapid development between June 1 and 2.

151·326 G	29	130	19	86	254·4	0·0	+6·72	−32·1
152·360 G	227	920	134	545	255·2	+1·1	+26·5	−17·6
153·368 G	199	1212	113	687	254·6	+0·8	+26·5	− 4·8
154·346 G	220	1329	123	749	254·0	+0·5	+26·1	+ 7·5
155·361 G	141	1019	85	612	253·5	+0·3	+26·1	+20·5
156·285 G	138	834	91	554	253·7	+0·8	+25·6	+32·9
157·281 G	91	493	72	396	253·5	+0·9	+25·4	+45·9
158·381 G	47	323	53	365	253·8	+1·6	+25·4	+60·7
159·355 G	23	117	46	231	253·7	+1·8	+25·4	+73·5
Means ...	...	...	82	469	254·0	...	+26·0	...

Group 9657.

June 1–12. A decreasing regular spot.

151·326 G	9	54	17	102	213·6	0·0	−27·2	−72·9
152·360 G	12	89	14	101	212·3	−0·9	−27·2	60·5
153·368 G	15	115	13	97	211·3	−1·5	−27·3	−48·1
154·346 G	29	136	20	95	210·7	−1·7	−27·8	−35·8
155·361 G	27	136	16	83	209·6	−2·5	−27·6	−23·4
156·285 G	29	149	17	86	208·9	−2·8	−28·0	−11·9
157·281 G	25	147	14	84	208·5	−2·8	−28·1	+ 0·9
158·381 G	23	148	14	87	208·0	−2·9	−28·4	+14·9
159·355 G	11	86	7	56	207·9	−2·6	−28·7	+27·7
160·348 G	11	42	8	32	207·8	−2·3	−28·6	+40·8
161·380 G	7	17	7	17	208·1	−1·6	−28·3	+54·7
162·360 G	0	26	0	38	207·4	−2·0	−28·2	+67·0
Means ...	...	...	12	73	209·5	...	−28·0	...

Group 9658.

June 1–14. A disturbed region actively producing faint spots. After June 11, one or two larger spots begin to appear. Group 9659 is a small allied disturbance to the south.

151·326 G	4	21	10	49	211·1	0·0	+30·1	−75·4
152·360 G	12	63	15	79	211·0	+0·4	+30·1	−61·8
153·368 G	18	94	16	85	209·3	−0·8	+30·6	−50·1
154·346 G	26	117	19	83	210·2	+0·5	+29·8	−36·3
155·361 G	1	15	1	9	209·1	−0·1	+29·5	−23·9
156·285 G	3	17	2	10	207·6	−1·2	+30·5	−13·2

Group 9658—*continued*.

d					°	°	°	°
157·281 G	11	108	6	63	208·1	−0·2	+29·9	+ 0·5
158·381 G	29	162	17	96	206·9	−0·9	+30·0	+13·8
159·355 G	28	80	18	51	206·5	−0·8	+29·5	+26·3
160·348 G	36	158	26	115	205·7	−1·2	+30·0	+38·7
161·380 G	52	237	49	223	205·7	−0·7	+30·6	+52·3
162·360 G	23	126	30	170	205·2	−0·7	+30·3	+64·8
163·361 G	9	77	22	216	205·2	−0·3	+30·0	+78·0
164·100 K	1	11	7	81	203·5	...	+31·2	+86·1
Means ...	...	...	18	96	207·8	...	+30·1	...

Group 9659.

June 1–13. A few spots in the same general area of faculæ as Group 9658. No spots are seen on June 7.

151·326 G	3	8	7	20	209·8	0·0	+25·8	−76·7
152·360 G	8	36	10	49	207·7	−1·8	+26·1	−65·1
153·368 G	22	61	20	56	207·5	−1·7	+26·4	−51·9
154·346 G	35	114	25	82	207·2	−1·7	+26·4	−39·3
155·361 G	9	67	6	43	206·5	−2·1	+25·7	−26·5
156·285 G	0	7	0	4	206·3	−2·1	+26·5	−14·5
157·281 G	0	0	0	0	...	...	...	...
158·381 G	1	9	1	5	205·3	−2·5	+25·8	+12·2
159·355 G	15	46	9	28	207·7	+0·2	+23·9	+27·5
160·348 G	12	28	9	20	208·5	+1·3	+24·1	+41·5
161·380 G	6	20	6	19	208·4	+1·5	+24·4	+55·0
162·360 G	1	8	1	11	206·8	+0·2	+24·7	+66·4
163·361 G	1	10	2	24	204·3	−2·0	+24·4	+77·1
Means ...	...	...	7	28	207·2	...	+25·4	...

Group 9660.

June 3–15. A regular spot with a small distant follower on June 10, 12, 13, 14.

153·368 G	12	59	25	121	185·3	0·0	+21·9	−74·1
154·346 G	25	163	28	182	185·4	+0·2	+21·5	−61·1
155·361 G	47	215	38	172	184·9	−0·1	+21·2	−48·1
156·285 G	53	263	35	174	184·7	−0·2	+20·9	−36·1
157·281 G	55	292	32	169	184·7	−0·1	+20·5	−22·9
158·381 G	48	302	26	163	184·3	−0·3	+20·5	− 8·8
159·355 G	61	294	32	156	184·2	−0·3	+20·1	+ 4·0
160·348 G	45	289	25	162	184·0	−0·4	+20·2	+17·0
161·380 G	39	228	24	141	183·8	−0·4	+20·4	+30·4
162·360 G	25	183	19	133	183·7	−0·4	+20·4	+43·3
163·361 G	28	136	27	129	183·5	−0·5	+20·4	+56·3
164·100 K	16	116	21	152	183·9	0·0	+19·8	+66·5
165·354 G	8	35	29	126	182·7	...	+20·2	+81·9
Means ...	...	...	28	155	184·4	...	+20·6	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9663.

June 5–16. A well-defined regular spot, *a*, growing from a small nucleus in the *p* part of faculæ near the east limb on June 6. At first there are also various small followers in the faculæ.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
155·361 G	5	41	9	75	160·8	0·0	+24·8	−70·2
156·285 G	7	17	7	17	163·5	+2·9	+23·0	−57·3
157·281 G	8	65	6	50	162·6	+2·2	+23·7	−45·0
158·381 G	45	202	28	126	163·8	+3·6	+23·1	−29·3
159·355 G	50	258	29	146	165·1	+5·1	+22·5	−15·1
160·348 G	36	266	20	144	164·7	+4·9	+22·4	− 2·3
161·380 G	43	251	24	138	165·0	+5·4	+22·3	+11·6
162·360 G	35	214	21	126	164·6	+5·2	+22·0	+24·2
163·361 G	36	199	24	133	164·3	+5·1	+21·8	+37·1
164·100 K	20	191	16	149	164·4	+5·3	+21·8	+47·0
165·354 G	18	117	21	134	163·3	+4·5	+22·4	+62·5
166·404 G	8	51	18	117	163·9	+5·3	+22·4	+77·0
Means ...	...	...	19	113	163·8	...	+22·7	...

Spot *a*.

155·361 G	4	29	7	49	162·1	0·0	+23·5	−70·9
156·285 G	7	17	7	17	163·5	+1·6	+23·0	−57·3
157·281 G	7	53	5	40	163·7	+2·0	+22·9	−43·9
158·381 G	32	150	20	92	165·2	+3·7	+22·4	−27·9
159·355 G	37	201	21	113	165·8	+4·5	+21·9	−14·4
160·348 G	34	227	18	122	165·7	+4·6	+22·0	− 1·3
161·380 G	35	223	19	123	165·3	+4·4	+22·1	+11·9
162·360 G	34	207	20	122	164·7	+4·0	+22·0	+24·3
163·361 G	36	199	24	133	164·3	+3·8	+21·8	+37·1
164·100 K	20	191	16	149	164·4	+4·0	+21·8	+47·0
165·354 G	18	117	21	134	163·3	+3·2	+22·4	+62·5
166·404 G	8	51	18	117	163·9	+4·0	+22·4	+77·0

Group 9665.

June 7–15. A spot, *a*, of regular outline followed by a shorter-lived companion, *b*, of indefinite shape. *a* and *b* originate from two small nuclei seen first on June 7 *sp* Group 9663.

157·281 G	19	76	12	51	169·0	0·0	+18·0	−38·6
158·381 G	57	277	32	157	170·2	+1·3	+18·0	−22·9
159·355 G	51	272	27	146	170·5	+1·6	+17·9	− 9·7
160·348 G	51	222	27	117	171·8	+3·0	+18·0	+ 4·8
161·380 G	33	173	18	97	172·7	+3·9	+18·3	+19·3
162·360 G	25	143	16	90	174·2	+5·5	+18·1	+33·8
163·361 G	20	104	15	80	174·8	+6·2	+18·0	+47·6
164·100 K	10	66	10	65	175·4	+6·8	+17·7	+58·0
165·354 G	2	13	4	25	175·0	+6·5	+18·3	+74·2
Means ...	...	...	18	92	172·6	...	+18·0	...

Group 9665—*continued*.

Spot *a*.

157·281 G	17	52	11	34	170·2	0·0	+18·3	−37·4
158·381 G	36	191	20	107	171·9	+1·8	+18·3	−21·2
159·355 G	34	184	18	98	172·4	+2·3	+18·0	− 7·8
160·348 G	37	189	20	100	172·8	+2·8	+18·1	+ 5·8
161·380 G	27	154	15	86	173·5	+3·5	+18·3	+20·1
162·360 G	22	136	14	86	174·4	+4·5	+18·1	+34·0
163·361 G	20	104	15	80	174·8	+5·0	+18·0	+47·6
164·100 K	10	66	10	65	175·4	+5·6	+17·7	+58·0
165·354 G	2	13	4	25	175·0	+5·3	+18·3	+74·2

Spot *b*.

157·281 G	2	24	1	17	166·7	0·0	+17·6	−40·9
158·381 G	21	86	12	50	167·0	+0·4	+18·1	−26·1
159·355 G	17	88	9	48	166·6	0·0	+17·7	−13·6
160·348 G	14	33	7	17	167·6	+1·1	+17·8	+ 0·6
161·380 G	6	16	3	9	166·6	+0·1	+18·3	+13·2

Group 9666.

June 7–18. A short stream of a few small spots of quite minor importance until the growth of the leader into a regular spot by June 14. This group closely precedes Group 9668.

157·281 G	6	34	18	99	127·9	...	+16·7	−79·7
158·381 G	12	51	15	60	129·0	+1·2	+16·2	−64·1
159·355 G	8	34	6	27	130·4	+2·6	+16·1	−49·8
160·348 G	23	93	15	60	130·2	+2·5	+16·2	−36·8
161·380 G	45	115	25	64	131·1	+3·4	+16·8	−22·3
162·360 G	40	177	21	94	132·7	+5·1	+17·2	− 7·7
163·361 G	29	186	15	99	133·8	+6·3	+17·4	+ 6·6
164·100 K	28	223	16	122	134·9	+7·4	+17·4	+17·5
165·354 G	21	151	13	97	135·8	+7·2	+17·7	+35·0
166·404 G	26	152	19	118	135·2	+7·8	+17·7	+48·3
167·646 G	12	55	15	68	135·7	+8·4	+17·7	+65·2
168·350 G	4	36	7	67	135·1	+7·8	+18·0	+74·0
Means ...	...	...	15	81	132·7	...	+17·1	...

Group 9668.

June 8–15. Revival of Group 9642. A fairly large composite spot, *b*, preceded by two smaller ones of which the leader increases for a time. The axis of the group is inclined 30° to the equator, thus differentiating it from Group 9666, which it closely follows.

158·381 G	29	105	55	200	119·3	0·0	+20·1	−73·8
159·355 G	40	222	43	235	120·3	+1·1	+19·5	−59·9
160·348 G	52	324	40	252	119·9	+0·8	+19·8	−47·1
161·380 G	97	479	59	296	121·4	+2·4	+19·2	−32·0
162·360 G	68	535	38	296	122·3	+3·3	+18·9	−18·1
163·361 G	59	315	31	167	123·7	+4·8	+17·9	− 3·5
164·100 K	24	229	12	121	123·4	+4·6	+18·4	+ 6·0
165·354 G	5	19	3	10	120·6	+1·9	+18·6	+19·8
Means ...	...	...	35	197	121·4	...	+19·0	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Date. G.M.T. Place.	Projected Area		Corrected Area		Longitude and Proper Motion.	Latitude.	Long. from C.M.
	Umbræ	Whole Spots.	Umbræ	Whole Spots.			
Group 9668—*continued*. Spot *b*.							
d					°	°	°	°
158·381 G	29	105	55	200	119·3	0·0	+20·1	−73·8
159·355 G	37	189	40	204	119·5	+0·3	+19·9	−60·7
160·348 G	34	250	27	198	119·0	−0·1	+20·4	−48·0
161·380 G	44	258	28	165	119·0	0·0	+20·6	−34·4
162·360 G	33	225	19	128	119·0	0·0	+20·5	−21·4
163·361 G	24	105	13	57	119·1	+0·2	+20·2	− 8·1
164·100 K	8	71	4	38	119·0	+0·2	+20·3	+ 1·6
165·354 G	3	13	2	7	118·2	−0·5	+19·4	+17·4
Group 9674. June 24–July 2. A few small unstable spots in diminishing numbers.								
174·364 C	11	61	31	182	264·3	0·0	−27·1	−77·2
175·368 G	15	107	19	135	266·0	+2·1	−26·3	−62·2
176·366 C	23	122	21	109	265·2	+1·6	−26·1	−49·8
177·515 G	8	101	6	71	265·2	+2·0	−26·8	−34·6
178·627 G	2	32	1	20	264·6	+1·8	−27·1	−20·5
179·356 G	1	6	1	4	263·1	+0·6	−27·6	−12·4
180·360 G	7	27	4	15	261·1	−1·1	−26·4	− 1·1
181·364 G	8	20	5	12	260·0	+1·9	−27·5	+11·1
182·371 G	2	14	1	9	256·6	−4·9	−29·0	+21·1
Means ...	...	...	10	62	262·9	...	−27·1	...
Group 9677. July 2–13. A large group of stream type beginning its development near the sun's east limb. For several days the leader, *a*, is the predominating spot of the stream, but after July 8 it divides into two parts which then diminish. Meanwhile a large cluster of indefinite markings in the middle of the stream condenses to a spot of irregular outline, which absorbs a remnant of the disintegrated leader spot now rapidly disappearing.								
182·371 G	14	81	21	130	165·3	0·0	−15·0	−70·2
183·322 C	82	364	82	362	165·7	+0·4	−15·2	−57·2
184·397 C	93	492	69	365	164·8	−0·5	−15·2	−43·9
185·367 C	172	878	106	540	164·8	−0·5	−14·8	−31·1
186·349 G	142	980	78	543	165·3	−0·1	−15·0	−17·6
187·520 G	192	1224	102	650	164·4	−1·0	−15·0	− 3·0
188·647 G	132	1124	71	607	164·4	−1·0	−15·0	+11·9
189·349 G	161	1096	91	623	164·4	−1·0	−15·0	+23·2
190·431 C	157	894	104	588	165·4	−1·0	−15·0	+36·5
191·348 G	70	642	55	511	164·4	−1·0	−15·3	+47·7
192·409 G	59	410	67	463	164·0	−1·4	−15·5	+61·3
193·371 G	26	150	55	320	164·5	−1·0	−15·7	+74·5
Means ...	...	...	75	475	164·8	...	−15·1	...
Spot *a*.								
182·371 G	12	49	18	72	166·8	0·0	−14·9	−68·7
183·322 C	60	252	57	239	167·3	+0·5	−15·6	−55·6
184·397 C	36	276	25	193	167·8	+1·0	−15·3	−40·9

Date. G.M.T. Place.	Projected Area		Corrected Area		Longitude and Proper Motion.	Latitude.	Long. from C.M.
	Umbræ	Whole Spots.	Umbræ	Whole Spots.			
Group 9677—Spot *a*—*continued*.							
d					°	°	°	°
185·367 C	110	589	66	353	167·1	+0·3	−15·0	−28·8
186·349 G	99	728	54	400	166·9	0·0	−14·9	−16·0
187·520 G	107	636	57	337	166·9	0·0	−14·8	− 0·5
188·647 G	65	527	35	285	167·0	+0·1	−14·4	+14·5
189·349 G	69	424	40	246	167·0	+0·1	−14·1	+23·8
190·431 C	77	360	52	241	166·6	−0·3	−14·2	+37·7
Group 9682. July 9–18. A sparse stream developing from a pair of nuclei near the east limb on July 9. The only stable spot is the leader, *a*, which alone survives after July 15.								
189·349 G	8	24	10	31	75·7	0·0	+19·2	−67·5
190·431 C	35	169	30	142	76·2	+0·6	+18·9	−52·7
191·348 G	32	177	21	115	78·3	+2·7	+18·6	−38·4
192·409 G	34	179	18	99	80·9	+5·3	+17·7	−21·4
193·371 G	23	169	12	88	81·0	+5·5	+16·9	− 9·0
194·347 G	34	157	17	81	79·8	+4·3	+17·2	+ 2·8
195·325 C	23	123	12	66	81·0	+5·6	+17·0	+16·9
196·364 G	17	119	10	70	81·2	+5·8	+16·8	+30·9
197·366 C	11	78	8	55	81·5	+6·2	+16·8	+44·4
198·340 C	8	26	7	24	81·1	+5·8	+16·8	+56·9
Means ...	...	...	15	77	79·7	...	+17·6	...
Spot *a*.								
189·349 G	7	17	9	21	77·1	0·0	+19·2	−66·1
190·431 C	21	113	17	90	78·4	+1·4	+19·1	−50·5
191·348 G	22	127	14	81	80·1	+3·1	+19·2	−36·6
192·409 G	26	152	14	84	81·4	+4·4	+17·6	−21·3
193·371 G	20	154	10	80	81·5	+4·6	+16·8	− 8·5
194·347 G	28	121	14	62	81·5	+4·6	+16·8	+ 4·5
195·325 C	21	111	11	60	81·8	+5·0	+16·6	+17·7
196·364 G	17	119	10	70	81·2	+4·4	+16·8	+30·9
197·366 C	11	78	8	55	81·5	+4·8	+16·8	+44·4
198·340 C	8	26	7	24	81·1	+4·4	+16·8	+56·9
Group 9683. July 10–16. Revival of Group 9670. A small diminishing regular spot with tiny companions.								
190·431 C	12	35	23	66	53·9	0·0	+18·3	−75·0
191·348 G	9	58	10	64	53·7	−0·1	+18·8	−63·0
192·409 G	16	117	12	90	54·4	+0·7	+18·6	−48·3
193·371 G	18	73	11	46	54·4	+0·8	+18·6	−35·6
194·347 G	15	90	8	51	53·7	+0·1	+19·2	−23·3
195·325 C	10	38	6	20	52·8	−0·7	+19·1	−11·3
196·364 G	2	25	1	13	53·0	−0·4	+20·4	+ 2·7
Means ...	...	...	10	50	53·7	...	+19·0	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

Group 9684.

July 10–21. A small regular spot dividing up on July 15 and 16, when numerous small spots appear surrounding it. By July 17 one of these new spots has become as large as the original spot, but it decreases within a few days. Groups 9683, 9684 and 9685 mark the longitudinal extent of a large faculæ area originating two months previously with Group 9649.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
190·431 C	1	14	6	85	42·0	...	+22·4	−86·9
191·348 G	9	51	16	93	42·2	0·0	+22·4	−74·5
192·409 G	11	102	11	105	42·4	+0·4	+22·7	−60·3
193·371 G	19	122	15	94	42·6	+0·8	+22·4	−47·4
194·347 G	27	128	17	80	42·8	+1·2	+22·1	−34·2
195·325 C	26	167	14	94	42·3	+0·9	+22·1	−21·8
196·364 G	32	167	17	88	42·7	+1·5	+22·3	− 7·6
197·366 C	46	206	24	109	43·2	+2·2	+22·8	+ 6·1
198·340 C	42	194	24	108	44·6	+3·8	+23·3	+20·4
199·363 C	18	90	11	57	43·5	+2·9	+24·1	+32·8
200·578 G	4	17	3	13	43·1	+2·7	+24·0	+48·5
201·440 G	2	8	2	8	43·0	+2·8	+23·9	+59·8
Means ...	...	...	14	77	43·0	...	+22·9	...

Group 9685.

July 13–19. Intermittent. One very small spot on July 13; after an interval of four days two or three others are seen in its place.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
193·371 G	1	20	1	11	88·8	0·0	−20·4	− 1·2
194·347 G	0	0	0	0	...	...	...	...
195·325 C	0	0	0	0	...	...	...	...
196·364 G	0	0	0	0	...	...	...	...
197·366 C	30	111	28	102	89·4	+1·1	−20·2	+52·3
198·340 C	11	39	15	54	89·0	+0·8	−20·5	+64·8
199·363 C	1	3	4	11	90·4	+2·3	−20·1	+79·7
Means ...	...	...	7	25	89·4	...	−20·3	...

Group 9687.

July 16–21. Usually two or more small spots.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
196·364 G	3	11	3	12	351·9	0·0	−18·3	−58·4
197·366 C	1	10	1	7	354·3	+2·4	−17·4	−42·8
198·340 C	31	78	19	49	354·6	+2·8	−17·3	−29·6
199·363 C	16	74	9	42	353·7	+1·9	−17·4	−17·0
200·578 G	8	23	4	12	352·8	+1·1	−17·1	− 1·8
201·440 G	1	4	1	2	352·2	+0·5	−17·2	+ 9·0
Means ...	...	...	6	21	353·2	...	−17·4	...

Group 9691.

July 24–August 2. A stream of spots in which the follower, *b*, is of regular outline from the first and the leader, *a*, varies from regular to composite formation. The increasing separation in longitude of *a* and *b* is very marked.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
204·351 G	36	87	24	60	262·6	0·0	+21·0	−42·1
205·434 G	110	614	64	362	262·4	0·0	+21·7	−27·9

Group 9691—*continued.*

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
206·488 G	98	524	53	283	262·5	+0·2	+21·7	−13·9
207·436 G	89	473	46	248	263·1	+1·0	+21·6	− 0·8
208·350 G	69	435	36	231	263·2	+1·2	+21·3	+11·4
209·362 C	54	341	31	195	263·0	+1·2	+21·1	+24·6
210·345 G	27	211	17	139	263·7	+2·0	+21·2	+38·3
211·358 C	32	127	26	107	264·5	+3·0	+20·9	+52·5
212·377 G	10	86	13	111	266·3	+4·9	+20·8	+67·8
213·411 G	10	44	27	117	266·0	...	+20·5	+81·2
Means ...	...	...	34	193	263·5	...	+21·2	...

Spot *a*.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
204·351 G	30	60	20	41	263·6	0·0	+20·6	−41·1
205·434 G	43	240	24	137	264·9	+1·5	+20·5	−25·4
206·488 G	43	236	23	125	266·6	+3·3	+20·6	− 9·8
207·436 G	45	230	23	120	267·4	+4·3	+20·8	+ 3·5
208·350 G	37	230	20	124	267·2	+4·2	+20·7	+15·4
209·362 C	34	216	20	127	266·9	+4·1	+20·7	+28·5
210·345 G	18	145	12	99	266·6	+3·9	+20·8	+41·2
211·358 C	23	108	20	94	266·4	+3·9	+20·6	+54·4
212·377 G	10	86	13	111	266·3	+3·9	+20·8	+67·8
213·411 G	10	44	27	117	266·0	...	+20·5	+81·2

Spot *b*.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
204·351 G	6	27	4	19	260·1	0·0	+21·8	−44·6
205·434 G	41	243	25	148	259·3	−0·6	+22·5	−31·0
206·488 G	47	242	26	133	258·5	−1·3	+22·7	−17·9
207·436 G	38	216	20	114	257·6	−2·0	+22·7	− 6·3
208·350 G	20	167	10	87	256·5	−3·0	+22·6	+ 4·7
209·362 C	17	110	9	60	256·1	−3·2	+22·7	+17·7
210·345 G	9	66	5	40	255·7	−3·3	+22·7	+30·3
211·358 C	9	19	6	13	255·0	−4·0	+22·4	+43·0

Group 9699.

August 8–14. A pair of very small but persistent spots, on August 10 and 11, each pair is itself double.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
219·378 G	1	8	1	4	89·8	0·0	−27·5	−16·1
220·322 K	1	7	1	4	91·3	+1·8	−26·4	− 2·1
221·378 C	10	32	6	20	89·7	+0·6	−26·8	+10·2
222·353 G	6	22	4	14	88·9	+0·1	−27·2	+22·3
223·345 C	3	47	3	35	89·6	+1·2	−26·9	+36·1
224·323 C	4	22	4	20	88·7	+0·7	−26·8	+48·1
225·388 G	4	15	5	20	86·5	−1·2	−28·8	+60·0
Means ...	...	...	3	17	89·2	...	−27·2	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9700.

August 8–14. A short stream with a small definite leader.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
219·378 G	17	56	13	44	55·5	0·0	+21·7	...
220·322 K	46	208	30	135	56·5	+1·1	+21·9	...
221·378 G	18	81	10	44	58·9	+3·7	+21·7	...
222·353 G	11	62	62	32	59·0	+4·0	+21·6	...
223·345 C	19	72	10	37	58·6	+3·7	+21·2	...
224·323 C	12	53	7	29	57·4	+2·7	+21·3	...
225·388 G	4	15	2	9	61·4	+6·8	+20·2	...
Means ...	...	...	11	47	58·2	...	+21·4	...

Group 9701.

August 8–14. Small unstable spots in an area of faculæ.

219·378 G	1	35	2	100	25·3	0·0	+22·7	−80·6
220·322 K	8	44	11	58	25·4	+0·3	+22·4	−68·0
221·378 C	12	45	10	40	25·2	+0·3	+23·0	−54·3
222·353 G	4	22	3	15	27·0	+2·2	+21·9	−39·6
223·345 C	9	37	5	22	26·8	+2·2	+22·4	−26·7
224·323 C	4	19	2	10	29·0	+4·6	+21·9	−11·6
225·388 G	0	9	0	5	23·7	−0·5	+21·8	− 5·7
Means ...	...	...	5	36	26·2	...	+22·2	...

Group 9710.

August 25–September 1. An irregular stream *sp*. Group 9708. By August 31 the head of the stream is alone represented by a pair of small spots.

236·401 G	18	64	13	43	199·9	0·0	+19·7	−41·0
237·366 G	33	139	19	80	201·6	+1·8	+19·9	−26·6
238·550 G	133	566	70	296	201·4	+1·7	+19·2	−11·1
239·395 G	92	444	47	226	202·0	+2·4	+18·9	+ 0·6
240·360 G	63	288	33	152	202·7	+7·1	+18·6	+14·1
241·378 C	31	120	18	70	203·9	+4·4	+18·6	+28·7
242·500 G	9	28	6	20	206·2	+6·8	+18·9	+45·8
243·343 C	6	19	5	17	208·1	+8·8	+18·8	+58·9
Means ...	...	...	26	113	203·2	...	+19·1	...

Group 9713.

August 28–September 4. An unstable group.

239·395 G	9	25	7	19	152·6	0·0	+22·8	−48·8
240·360 G	9	26	6	15	154·3	+1·9	+22·1	−34·3
241·378 C	100	472	57	268	151·7	−0·5	+24·1	−23·5
242·500 G	57	381	30	199	152·7	+0·7	+23·3	− 7·7
243·343 C	28	230	14	120	152·3	+0·5	+22·6	+ 3·1
244·346 G	25	112	13	60	152·3	+0·7	+22·3	+16·3
245·415 G	14	79	8	48	152·1	+0·7	+22·9	+30·2
246·443 G	1	12	1	9	154·2	+3·0	+21·1	+45·9
Means ...	...	...	17	92	152·8	...	+22·6	...

Group 9723.

September 3–10. An unstable group on the same meridian as Groups 9715, showing a temporary increase on Sept. 6.

d					°	°	°	°
245·415 G	10	22	5	12	99·5	0·0	+14·4	−22·4
246·443 G	22	67	11	34	98·3	−1·2	+14·3	−10·0
247·398 G	13	67	6	33	98·7	−0·9	+14·2	+ 3·0
248·475 G	70	246	38	131	99·1	−0·5	+14·2	+17·7
249·618 G	31	191	19	114	99·3	−0·3	+14·8	+33·0
250·377 G	26	144	18	99	99·2	−0·4	+14·4	+42·9
251·111 K	9	41	7	33	99·2	−0·5	+14·4	+52·6
252·328 C	0	17	0	22	98·6	−1·1	+14·5	+68·0
Means ...	...	...	13	60	99·0	...	+14·4	...

Group 9728.

September 6–14. A single small spot on September 6 which is not seen on the following day. On September 8 an important stream of spots has commenced to develop. Contrary to the usual behaviour, the leader, *a*, is the unstable component which breaks up before the follower, *b*, which for a few days assumes a regular outline.

248·475 G	3	10	2	5	61·8	0·0	+19·8	−19·6
249·618 G	0	0	0	0	...	...	...	...
250·377 G	39	153	20	78	61·8	+0·2	+19·6	+ 5·5
251·111 K	85	424	45	222	60·6	−0·9	+19·5	+14·0
252·328 C	116	729	69	429	60·9	−0·5	+19·3	+30·3
253·451 G	240	1251	174	906	61·2	−0·1	+19·2	+45·5
254·349 G	151	1097	138	1015	61·3	+0·1	+19·2	+57·4
255·398 G	102	632	147	936	60·7	−0·4	+19·3	+70·7
256·354 G	37	215	(105	593	58·7	...	+20·0)*	+81·3
Means ...	...	...	74	449	61·2	...	+19·4	...

Spot *a*.

250·377 G	9	51	5	26	63·8	0·0	+19·9	+ 7·5
251·111 K	26	168	14	89	63·7	0·0	+19·2	+17·1
252·328 C	49	304	30	185	64·8	+1·2	+18·4	+34·2
253·451 G	114	652	87	496	64·8	+1·3	+18·4	+49·1
254·349 G	69	599	69	599	64·5	+1·1	+18·7	+60·6
255·398 G	45	317	79	558	65·0	+1·7	+18·6	+75·0

Spot *b*.

250·377 G	21	57	11	29	59·4	0·0	+19·4	+ 3·1
251·111 K	58	224	30	116	58·7	−0·6	+19·5	+12·1
252·328 C	42	328	24	187	57·6	−1·6	+20·0	+27·0
253·451 G	101	486	69	330	57·4	−1·7	+20·3	+41·7
254·349 G	72	434	60	360	56·7	−2·3	+20·3	+52·8
255·398 G	57	315	68	378	56·3	−2·6	+20·4	+66·3
256·354 G	17	111	36	236	55·3	−3·5	+20·4	+77·9

LEDGER II.—NON-RECURRENT GROUPS OF SUN SPOTS for the YEAR 1925—*continued.*

Date. G.M.T. Place.	Projected Area		Corrected Area		Longitude and Proper Motion.	Latitude.	Long. from C.M.
	Umbræ	Whole Spots.	Umbræ	Whole Spots.			
Group 9730. September 8–16.—Intermittent. A diminutive cluster on September 8. A few small spots from September 12–16.							
d					°	°	°	°
250·377 G	2	20	1	12	23·2	0·0	+22·7	−33·1
251·111 K	0	0	0	0	...	...	...	...
252·328 C	0	0	0	0	...	...	...	...
253·451 G	0	0	0	0	...	...	...	...
254·349 G	0	9	0	5	22·1	−0·6	+22·8	+18·2
255·398 G	3	29	2	18	23·5	+1·0	+18·9	+33·5
256·354 G	11	30	8	22	25·5	+3·1	+18·3	+48·1
257·349 G	3	18	3	16	21·2	−1·0	+19·7	+56·9
258·409 G	2	24	3	32	19·7	−2·4	+22·1	+69·4
Means ...	...	...	2	12	22·5	...	+20·8	...
Group 9732. September 14–22. A small stream whose leader, *a*, is comparatively long-lived.								
256·354 G	23	57	15	35	301·1	0·0	+18·8	−36·3
257·349 G	41	167	23	91	302·5	+1·5	+18·3	−21·8
258·409 G	52	258	26	133	302·8	+1·8	+18·2	− 7·5
259·366 G	44	224	22	113	302·7	+1·8	+18·4	+ 5·1
260·372 G	32	120	18	64	303·2	+2·4	+18·4	+18·8
261·379 C	27	90	16	54	303·1	+2·4	+18·6	+32·0
262·406 G	14	53	10	38	303·0	+2·3	+18·7	+45·5
263·357 G	8	22	7	20	302·6	+2·0	+18·9	+57·6
264·359 C	3	13	4	19	302·5	+2·0	+18·6	+70·8
Means ...	...	...	16	63	302·6	...	+18·5	...
Spot *a*.								
257·349 G	29	129	16	70	303·5	0·0	+17·8	−20·8
258·409 G	40	203	20	104	303·3	−0·1	+18·1	− 7·0
259·366 G	39	192	20	97	303·0	−0·4	+18·2	+ 5·4
260·372 G	29	110	16	59	303·4	+0·1	+18·4	+19·0
261·379 C	27	90	16	54	303·1	−0·1	+18·6	+32·0
262·406 G	14	53	10	38	303·0	−0·1	+18·7	+45·5
263·357 G	8	22	7	20	302·6	−0·5	+18·9	+57·6
264·359 C	3	13	4	19	302·5	−0·5	+18·6	+70·8
Group 9737. September 18–26. A very small but persistent spot with occasional companions *sp* Group 9738 in the same general area of disturbance.								
260·372 G	2	12	4	22	208·4	0·0	+18·0	−76·0
261·379 C	6	12	6	12	209·3	+1·0	+17·7	−61·8
262·406 G	5	13	4	9	210·6	+2·3	+17·8	−46·9
263·357 G	10	33	6	21	209·4	+1·2	+18·1	−35·6
264·359 C	10	52	6	29	208·3	+0·1	+18·0	−23·4
265·431 G	8	41	4	21	209·7	+1·6	+17·4	− 7·9
Group 9737—*continued.*								
d					°	°	°	°
266·386 G	5	29	3	15	210·8	+2·7	+18·6	+ 5·8
267·411 G	3	13	2	7	209·2	+1·2	+17·0	+17·7
268·493 G	3	14	2	8	209·7	+1·7	+18·0	+32·5
Means ...	...	...	4	16	209·5	...	+17·8	...
Group 9739. September 18–30. A regular spot in high southern latitude followed by faculæ in which one or more small unstable spots are usually present.								
260·372 G	7	25	16	58	214·8	0·0	−33·9	−69·6
261·379 C	24	103	33	138	213·3	−0·9	−34·0	−57·8
262·406 G	26	151	25	145	213·9	+0·3	−34·0	−43·6
263·357 G	44	232	35	183	213·3	+0·3	−33·8	−31·7
264·359 C	39	293	28	208	211·7	−0·7	−34·0	−20·0
265·431 G	60	319	39	211	210·7	−1·1	−33·8	− 6·9
266·386 G	50	340	33	225	210·1	−1·1	−33·6	+ 5·1
267·411 G	37	276	26	190	209·3	−1·3	−33·3	+17·8
268·493 G	40	239	31	184	208·4	−1·5	−33·0	+31·2
269·348 G	17	152	16	137	207·7	−1·7	−33·0	+41·8
270·543 C	19	107	24	137	207·1	−1·6	−32·9	+57·0
271·342 C	12	59	22	109	206·2	−2·0	−32·5	+66·6
272·407 C	2	16	10	77	204·0	−3·6	−32·5	+78·5
Means ...	...	...	26	154	210·0	...	−33·4	...
Group 9745. September 25–October 4. A stream of normal type extending 12° in longitude when fully developed. *a* is the leader spot.								
267·411 G	26	100	19	73	144·2	0·0	+12·4	−47·3
268·493 G	164	539	96	321	145·4	+1·1	+12·2	−31·8
269·348 G	133	685	72	366	145·8	+1·5	+11·9	−20·1
270·543 C	118	666	59	335	145·9	+1·5	+12·4	− 4·2
271·342 C	107	505	55	256	147·4	+2·9	+12·4	+ 7·8
272·407 C	66	400	36	220	148·6	+4·0	+12·5	+23·1
273·430 G	47	251	30	160	151·0	+6·4	+12·4	+39·0
274·324 C	31	184	25	149	152·5	+7·8	+12·0	+52·3
275·408 G	33	173	38	193	150·2	+5·4	+12·2	+64·3
276·370 C	16	47	39	113	151·8	+7·0	+12·6	+78·6
Means ...	...	...	47	219	148·3	...	+12·3	...
Spot *a*.								
267·411 G	13	44	9	31	145·5	0·0	+12·4	−46·0
268·493 G	125	340	72	197	147·6	+2·0	+12·4	−29·6
269·348 G	76	401	40	208	149·0	+3·4	+12·1	−16·9
270·543 C	56	355	28	177	150·2	+4·5	+11·6	+ 0·1
271·342 C	55	326	28	166	150·9	+5·1	+11·8	+11·3

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

Group 9745—Spot *a*—*continued.*

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
272·407 C	38	268	21	150	151·9	+6·0	+12·1	+26·4
273·430 G	38	219	25	142	152·4	+6·5	+12·1	+40·4
274·324 C	31	184	25	149	152·5	+6·5	+12·0	+52·3
275·408 G	22	107	27	132	152·8	+6·7	+12·0	+66·9
276·370 C	14	39	36	101	153·2	+7·1	+12·4	+80·0

Group 9747.

September 28–October 8. An irregular stream whose components at first undergo considerable changes. A regular spot, *a*, which has formed at the head of the stream by October 2, and a double spot, *b*, at the other extremity maintain, however, a certain degree of stability.

270·543 C	9	40	10	46	90·4	0·0	−19·5	−59·7
271·342 C	63	253	55	221	90·9	+0·6	−19·6	−48·7
272·407 C	124	862	86	599	90·0	−0·2	−19·4	−35·5
273·430 G	181	1027	109	619	90·0	−0·1	−19·2	−22·0
274·324 C	150	1001	85	572	90·0	0·0	−19·5	−10·2
275·408 G	154	716	86	402	90·5	+0·6	−19·8	+ 4·6
276·370 C	131	792	77	465	90·2	+0·4	−20·4	+17·0
277·387 G	101	705	66	470	91·4	+1·7	−20·4	+31·6
278·401 G	66	396	53	319	91·2	+1·7	−20·4	+44·8
279·519 G	44	307	52	363	90·5	+1·1	−19·4	+58·8
280·535 G	8	64	21	180	94·6	+5·3	−20·2	+76·3
Means ...	...	...	64	387	98·8	...	−19·8	...

Spot *a*.

274·324 C	48	344	27	193	94·4	0·0	−19·5	− 5·8
275·408 G	41	227	23	127	95·4	+1·1	−19·4	+ 9·5
276·370 C	29	186	17	112	95·9	+1·7	−18·8	+22·7
277·387 G	22	160	15	112	96·4	+2·3	−18·9	+36·6
278·401 G	18	107	16	94	96·4	+2·4	−19·4	+50·0
279·519 G	14	107	19	146	96·2	+2·3	−19·6	+64·5
280·535 G	4	45	13	142	96·0	+2·3	−20·3	+77·7

Spot *b*.

273·430 G	68	407	42	252	86·4	0·0	−19·8	−25·6
274·324 C	59	331	34	192	85·8	−0·5	−19·6	−14·4
275·408 G	43	235	24	132	85·4	−0·8	−19·9	− 0·5
276·370 C	26	134	15	76	84·8	−1·3	−19·2	+11·6
277·387 G	20	96	12	58	84·6	−1·4	−19·2	+24·8
278·401 G	22	119	16	84	84·3	−1·6	−18·9	+37·9
279·519 G	19	109	18	101	84·3	−1·4	−18·9	+52·6
280·535 G	2	11	3	16	83·9	−1·7	−19·8	+65·6

Group 9748.

September 28–October 10. A regular spot with one or more small companions until October 5.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
270·543 C	11	71	23	148	72·6	0·0	+15·9	−77·5
271·342 C	16	166	19	201	73·0	+0·4	+15·6	−66·6
272·407 C	31	236	25	194	72·7	+0·1	+15·5	−52·8
273·430 G	55	227	35	147	72·8	+0·2	+15·7	−39·2
274·324 C	36	217	20	124	72·9	+0·3	+15·7	−27·3
275·408 G	41	206	21	107	72·8	+0·2	+16·0	−13·1
276·370 C	41	254	22	130	72·8	+0·2	+15·6	− 0·4
277·387 G	33	201	17	104	73·0	+0·4	+16·2	+13·2
278·401 G	29	146	16	83	73·2	+0·7	+16·3	+26·8
279·519 G	23	134	15	90	73·2	+0·7	+16·2	+41·5
280·535 G	14	74	12	64	73·2	+0·7	+16·4	+54·9
281·389 G	12	47	14	56	72·8	+0·3	+16·5	+65·8
282·419 G	6	27	15	66	72·8	+0·3	+16·8	+79·4
Means ...	...	...	20	116	72·9	...	+16·0	...

Group 9750.

October 1–11. A small regular spot which shrinks to a unclear point. One or two small followers are seen on October 5–7.

273·430 G	4	24	9	52	34·1	0·0	+14·7	−77·9
274·324 C	12	73	14	86	34·5	+0·4	+15·0	−65·7
275·408 G	24	134	19	106	35·1	+1·0	+15·1	−50·8
276·370 C	25	141	16	90	34·9	+0·7	+14·8	−38·3
277·387 G	23	100	13	56	34·1	−0·1	+14·8	−25·7
278·401 G	18	123	10	64	34·0	−0·2	+14·8	−12·4
279·519 G	24	72	12	37	33·4	−0·8	+15·0	+ 1·7
280·535 G	10	27	5	14	34·1	−0·1	+14·8	+15·8
281·389 G	5	21	3	12	34·1	−0·1	+15·0	+27·1
282·419 G	4	14	3	9	34·5	+0·2	+15·0	+41·1
283·527 G	2	7	2	8	34·8	+0·5	+14·7	+56·0
Means ...	...	...	10	49	34·3	...	+14·9	...

Group 9751.

October 5–13. A few small sporadic spots.

277·387 G	3	17	2	10	30·1	0·0	+19·8	−29·7
278·401 G	13	61	7	33	30·1	+0·1	+20·1	−16·3
279·519 G	25	83	12	42	29·9	0·0	+20·0	− 1·8
280·535 G	11	86	6	45	30·4	+0·6	+19·2	+12·1
281·389 G	19	77	11	43	30·6	+1·0	+19·7	+23·6
282·419 G	47	230	29	140	26·5	−3·0	+20·5	+33·1
283·527 G	14	125	11	95	27·0	−2·4	+20·2	+48·2
284·337 C	14	63	13	60	26·6	−2·7	+20·2	+58·5
285·343 C	1	11	2	17	27·4	−1·8	+20·9	+72·5
Means ...	...	...	10	54	28·7	...	+20·1	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9753.

October 9–19. A pair of spots which separate widely in longitude. The follower then disappears after October 12 and new companions make their appearance on October 14 near the leader. By the following day these spots have coalesced but the compound spot soon begins to disappear.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
281·389 G	23	88	25	96	308·6	0·0	−18·0	−58·4
282·419 G	21	110	16	83	310·3	+1·7	−16·9	−43·1
283·527 G	14	89	9	55	311·3	+2·8	−16·5	−27·5
284·337 C	16	100	9	56	310·9	+2·4	−16·7	−17·2
285·343 C	15	101	8	54	312·3	+3·8	−16·4	−22·6
286·456 G	45	261	25	146	312·0	+3·6	−17·1	+11·8
287·472 G	36	305	22	186	313·1	+4·7	−17·1	+26·3
288·335 C	24	203	16	140	312·9	+4·5	−16·8	+37·5
289·512 G	15	119	14	109	312·9	+4·5	−16·8	+53·0
290·483 G	14	57	20	79	313·0	+4·7	−17·2	+65·9
291·343 C	2	10	5	27	312·7	+4·4	−16·4	+77·0
Means ...	...	...	15	94	311·8	...	−16·9	...

Group 9757.

October 11–17. A short stream or cluster of unstable spots.

283·527 G	4	23	2	14	326·7	0·0	−23·4	−12·1
284·337 C	62	301	35	173	326·8	+0·3	−23·6	−1·3
285·343 C	46	351	27	207	327·5	+1·2	−23·6	+12·6
286·456 G	51	355	33	231	327·5	+1·5	−23·7	+27·3
287·472 G	47	270	37	207	327·3	+1·5	−24·0	+40·5
288·335 C	24	126	23	120	326·8	+1·2	−24·0	+51·4
289·512 G	8	32	13	51	326·9	+1·6	−24·6	+67·0
Means ...	...	...	24	143	327·1	...	−23·8	...

Group 9758.

October 13–24. A large group of imperfectly formed and unstable spots.

285·343 G	30	167	88	494	234·3	0·0	+17·3	−80·6
286·456 G	73	549	92	702	232·2	−2·1	+17·2	−68·0
287·472 G	119	652	102	560	232·6	−1·6	+17·4	−54·2
288·335 C	93	635	64	437	233·0	−1·2	+17·2	−42·4
289·512 G	115	619	66	355	232·6	−1·6	+17·2	−27·3
290·483 G	147	851	76	448	232·9	−1·2	+16·8	−14·2
291·343 C	82	448	41	228	232·5	−1·6	+17·5	−3·2
292·447 C	51	417	27	218	232·7	−1·4	+17·4	+11·5
293·445 G	28	167	16	94	232·9	−1·1	+17·4	+24·9
294·426 G	25	126	16	79	232·0	−2·0	+16·2	+36·9
295·614 G	51	202	42	168	232·3	−1·7	+16·2	+52·9
296·389 G	21	106	23	116	232·3	−1·7	+16·2	+63·1
Means ...	...	...	51	310	232·6	...	+17·0	...

Group 9760.

October 14–26. An aggregation of several imperfectly-formed spots from which emerges a very large spot, *a*, as leader which is later visible to the naked eye. At first, *a* is roughly of regular outline, but after October 20 its penumbra is distended southwards for a considerable distance, and small umbral points appear at its southern boundary. When passing round the sun's west limb, it is breaking up rapidly, the other components of the group having all disappeared by October 25.

d					°	°	°	°
286·456 G	19	184	60	580	222·1	0·0	−19·2	−78·1
287·472 G	67	596	97	864	220·7	−1·3	−19·3	−66·1
288·335 C	83	883	82	879	220·3	−1·6	−19·6	−55·1
289·512 G	229	1132	167	825	220·5	−1·3	−19·9	−39·4
290·483 G	253	1468	157	909	220·7	−0·9	−19·9	−26·4
291·343 C	260	1617	149	927	220·2	−1·3	−19·9	−15·5
292·447 C	220	1571	121	864	220·2	−1·2	−19·9	−1·0
293·445 G	303	1710	172	970	220·0	−1·3	−20·0	+12·0
294·426 G	273	1397	168	861	221·0	−0·2	−20·6	+25·9
295·614 G	162	1132	122	847	220·7	−0·4	−20·2	+41·3
296·389 G	124	867	113	795	220·9	−0·1	−20·7	+51·7
297·432 G	52	491	72	678	220·5	−0·3	−20·8	+65·1
298·324 C	26	225	69	598	220·2	−0·5	−20·2	+76·6
Means ...	...	...	119	815	220·6	...	−20·0	...

Spot *a*.

289·512 G	112	545	80	387	222·5	0·0	−20·2	−37·4
290·483 G	165	865	101	528	222·6	+0·2	−20·2	−24·5
291·343 C	186	1053	106	600	222·1	−0·2	−20·0	−13·6
292·447 C	171	1133	94	623	221·8	−0·4	−20·0	+0·6
293·445 G	260	1313	148	748	221·5	−0·6	−20·2	+13·5
294·426 G	239	1239	148	768	221·2	−0·7	−20·6	+26·1
295·614 G	154	1081	116	811	220·9	−0·9	−20·2	+41·5
296·389 G	120	846	110	778	220·9	−0·8	−20·7	+51·7
297·432 G	52	491	72	678	220·5	−1·1	−20·8	+65·1
298·324 C	26	225	69	598	220·2	−1·3	−20·2	+76·6

Group 9761.

October 15–23. Two small clusters becoming two composite spots by October 18. A day later the leader has become a regular spot, whilst the follower divides into two portions, of which the following assumes a regular outline as the other part dies out.

287·472 G	20	60	12	37	258·0	0·0	−13·8	−28·8
288·335 C	80	310	44	172	258·5	+0·5	−13·8	−16·9
289·512 G	107	687	57	364	258·9	+0·8	−13·3	−1·0
290·483 G	182	1025	100	563	259·4	+1·3	−13·8	+12·3
291·343 C	142	924	83	543	260·4	+2·2	−14·1	+24·7
292·447 C	92	630	64	445	261·7	+3·5	−13·5	+40·5
293·445 G	77	357	71	336	261·7	+3·4	−13·6	+53·7
294·426 G	36	203	55	318	263·1	+4·8	−13·8	+68·0
295·614 G	12	48	(29	119	255·9	...	−13·8)*	+76·5
Means ...	...	...	61	347	260·2	...	−13·7	...

LEDGER II.—NON-RECURRENT GROUPS OF SUN SPOTS for the YEAR 1925—*continued*.

Group 9765.

October 17–28. A small stream immediately northwards of Group 9762. On October 25 it is represented by a single small spot near the head of the stream.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
289·512 G	8	39	8	44	197·2	0·0	+24·1	−62·7
290·483 G	13	62	10	49	197·6	+0·7	+24·5	−49·5
291·343 C	23	164	16	110	197·0	+0·3	+24·3	−38·7
292·447 C	33	143	19	83	196·9	+0·5	+24·2	−24·3
293·445 G	26	115	14	62	197·2	+1·1	+24·2	−10·8
294·426 G	18	92	10	49	196·4	+0·5	+24·8	+ 1·3
295·614 G	30	115	16	63	195·8	+0·3	+24·7	+16·4
296·389 G	10	41	6	25	195·2	−0·1	+26·1	+26·0
297·432 G	3	11	2	8	199·4	+4·3	+22·6	+44·0
298·324 C	8	34	7	28	194·4	−0·4	+26·3	+50·8
299·618 G	11	85	14	111	193·9	−0·6	+26·5	+67·3
300·412 G	8	45	17	94	193·1	−1·1	+26·7	+77·0
Means ...	...	...	12	61	196·2	...	+24·9	...

Group 9766.

October 17–29. A small stable regular spot, *a*, closely followed on October 18 by a small companion, *a*, which increases until October 20, and then rapidly dies out. There is also another spot following *a* at some distance, which is represented for some days by a small cluster.

289·512 G	18	68	34	131	187·4	0·0	−17·5	−72·5
290·483 G	44	233	50	262	187·9	+0·5	−17·7	−59·2
291·343 C	54	246	44	204	187·4	+0·1	−17·7	−48·3
292·447 C	59	338	38	223	187·8	+0·5	−17·6	−33·4
293·445 G	94	380	54	221	187·8	+0·6	−17·5	−20·2
294·426 G	75	388	41	213	186·9	−0·3	−18·0	− 8·2
295·614 G	53	319	29	176	187·4	+0·3	−17·7	+ 8·0
296·389 G	26	161	15	92	187·7	+0·6	−17·7	+18·5
297·432 G	42	211	27	134	186·5	−0·5	−18·0	+31·1
298·324 C	29	118	22	88	186·8	−0·2	−17·7	+43·2
299·618 G	15	82	17	91	186·4	−0·5	−17·4	+59·8
300·412 G	8	49	14	83	186·5	−0·4	−17·5	+70·4
301·324 C	1	9	4	40	185·8	...	−17·1	+81·7
Means ...	...	...	32	160	187·2	...	−17·7	...

Spot *a*.

289·512 G	17	62	31	113	188·5	0·0	−17·3	−71·4
290·483 G	27	154	29	165	188·6	+0·1	−17·1	−58·5
291·343 C	34	119	27	95	188·9	+0·5	−17·3	−46·8
292·447 C	31	144	20	94	188·8	+0·4	−17·4	−32·4
293·445 G	41	152	23	87	188·7	+0·4	−17·2	−19·3
294·426 G	34	167	18	90	188·7	+0·4	−17·3	− 6·4
295·614 G	27	166	15	91	188·0	−0·2	−17·4	+ 8·6
296·389 G	26	161	15	92	187·7	−0·5	−17·7	+18·5
297·432 G	28	124	18	79	187·2	−0·9	−17·7	+31·8
298·324 C	29	118	22	88	186·8	−1·3	−17·7	+43·2
299·618 G	15	82	17	91	186·4	−1·6	−17·4	+59·8
300·412 G	8	49	14	83	186·5	−1·5	−17·5	+70·4

Group 9766—*continued*.

Spot a_1.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
290·483 G	12	46	14	53	186·8	0·0	−18·7	−60·3
291·343 C	16	105	13	88	187·0	+0·2	−17·9	−48·7
292·447 C	26	179	17	118	186·8	+0·1	−17·8	−34·4
293·445 G	41	170	24	99	187·2	+0·5	−17·7	−20·8
294·426 G	20	91	11	50	187·2	+0·6	−18·1	− 7·9
295·614 G	9	47	5	26	186·6	+0·1	−18·0	+ 7·2

Group 9767.

October 20–28. A stream composed of unstable spots.

292·447 C	29	86	20	59	179·1	0·0	+18·9	−42·1
293·445 G	63	321	38	191	178·4	−0·6	+19·5	−29·6
294·426 G	65	228	35	123	177·8	−1·2	+19·1	−17·3
295·614 G	51	156	26	80	178·1	−0·8	+18·9	− 1·3
296·389 G	35	185	18	96	178·6	−0·2	+18·6	+ 9·4
297·432 G	39	193	22	108	179·8	+1·1	+18·3	+24·4
298·324 C	14	85	9	55	180·7	+2·0	+18·3	+37·1
299·618 G	6	23	5	20	182·1	+3·5	+17·4	+55·5
300·412 G	6	12	6	13	178·3	−0·2	+18·8	+62·2
Means ...	...	...	20	83	179·2	...	+18·6	...

Group 9769.

October 20–26. A regular spot breaking up on October 25.

292·447 C	6	34	21	117	142·8	0·0	−23·7	−78·4
293·445 G	13	95	19	141	142·2	−0·4	−23·6	−65·8
294·426 G	24	139	23	135	142·2	−0·2	−23·0	−52·9
295·614 G	26	153	19	110	142·1	−0·1	−22·7	−37·3
296·389 G	21	188	13	120	141·7	−0·4	−22·4	−27·5
297·432 G	28	88	16	52	141·5	−0·4	−22·1	−13·9
298·324 C	11	59	6	33	141·7	−0·1	−22·5	− 1·9
Means ...	...	...	17	101	142·0	...	−22·1	...

Group 9771.

October 25–31. A short stream of spots in which the leader predominates throughout.

297·432 G	28	74	14	38	149·9	0·0	+16·8	− 5·5
298·324 C	16	47	8	24	150·8	+0·9	+16·5	+ 7·2
299·618 G	17	84	10	48	153·3	+3·4	+15·8	+26·7
300·412 G	45	146	29	93	152·7	+2·8	+15·7	+36·6
301·324 C	38	160	30	127	154·8	+4·9	+15·3	+50·7
302·458 G	16	100	20	126	156·1	+6·2	+15·0	+67·0
303·338 C	5	31	12	76	156·5	+6·6	+15·4	+79·0
Means ...	...	...	18	76	153·4	...	+15·8	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

Group 9772.

October 28–November 7. A double spot breaking up into a variable cluster.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
300·412 G	2	8	11	43	30·2	...	+13·6	−85·9
301·324 C	14	92	25	163	29·8	0·0	+13·0	−74·3
302·458 G	30	219	29	210	30·2	+0·3	+13·6	−58·9
303·338 C	42	227	31	168	30·2	+0·3	+13·4	−47·3
304·383 G	43	255	26	153	30·6	+0·6	+13·6	−33·1
305·392 G	39	218	21	118	30·8	+0·8	+13·3	−19·6
306·333 C	30	244	15	124	30·8	+0·7	+13·4	− 7·2
307·407 G	43	266	22	136	31·1	+1·0	+12·7	+ 7·2
308·325 C	32	193	17	104	31·8	+1·6	+12·9	+20·0
309·309 C	6	64	3	38	31·6	+1·4	+13·3	+32·8
310·459 G	5	41	4	31	32·3	+2·0	+13·1	+48·7
Means ...	...	...	19	117	30·9	...	+13·2	...

Group 9773.

October 29–November 3. A small definite spot followed by an extensive area of faculæ. An occasional attendant spot is seen.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
301·324 C	0	4	0	8	32·6	0·0	−24·2	−71·5
302·458 G	11	61	12	66	32·1	−0·2	−24·7	−57·0
303·338 C	10	29	9	24	31·3	−0·7	−25·0	−46·2
304·383 G	11	22	7	15	33·1	+1·4	−23·7	−30·6
305·392 G	5	14	3	8	33·1	+1·7	−23·7	−17·3
306·333 C	3	18	2	10	30·0	−1·2	−25·0	− 8·0
Means ...	...	...	6	22	32·0	...	−25·4	...

Group 9779.

November 8–19. A very large group visible to the naked eye near the sun's central meridian. The development of the group is unusual, a rapid increase takes place in two spots, *a* and *b*, seen near the east limb, and after reaching a maximum on November 12 they both show a correspondingly rapid decrease. The distance in longitude between *a* and *b* remains nearly constant, the tendency, however, being to approach one another as they are disappearing. A number of "bridges" are seen especially in *b* on November 12 and 14. A revival, not a return, of Group 9761.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
311·435 G	42	170	61	247	262·2	0·0	−14·3	−68·6
312·476 G	108	678	98	616	263·7	+1·5	−14·2	−53·3
313·319 C	147	1346	106	971	263·5	+1·3	−14·4	−42·4
314·330 C	296	2113	179	1288	263·1	+0·8	−14·7	−29·5
315·509 G	368	2513	201	1358	262·4	+0·1	−15·0	−14·6
316·310 C	307	2143	161	1125	262·2	−0·1	−15·0	− 4·3
317·398 G	277	2029	148	1085	261·8	−0·5	−15·1	+ 9·7
318·389 G	189	1432	107	816	262·1	−0·3	−15·0	+23·0
319·381 C	115	1093	75	712	262·1	−0·3	−14·8	+36·1
320·441 G	62	561	51	461	262·2	−0·2	−15·1	+50·2
321·369 G	39	240	46	275	262·2	−0·2	−14·7	+62·4
322·308 C	19	107	40	224	262·2	−0·2	−14·5	+74·8
Means ...	...	...	106	765	262·5	...	−14·7	...

Group 9779—*continued.*

Spot *a*.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
311·435 G	22	88	29	117	264·7	0·0	−14·5	−66·1
312·476 G	54	285	46	242	265·7	+1·0	−14·2	−51·3
313·319 C	81	750	56	518	265·7	+1·0	−14·3	−40·2
314·330 C	182	1083	107	639	265·8	+1·0	−14·2	−26·8
315·509 G	179	1207	95	640	265·8	+1·0	−14·5	−11·2
316·310 C	156	1065	81	554	265·5	+0·7	−14·7	− 1·0
317·398 G	118	963	64	520	265·0	+0·2	−14·7	+12·9
318·389 G	78	703	45	408	264·9	0·0	−15·0	+25·8
319·381 C	66	584	44	391	264·2	−0·7	−14·8	+38·2
320·441 G	28	293	24	252	264·1	−0·8	−15·0	+52·1
321·369 C	24	118	30	146	264·5	−0·4	−14·8	+64·7
322·308 C	9	49	23	123	265·0	+0·1	−14·8	+77·6

Spot *b*.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
311·435 G	16	66	26	106	260·5	0·0	−14·4	−70·3
312·476 G	30	201	30	201	259·4	−1·1	−14·7	−57·6
313·319 C	66	596	50	453	260·1	−0·4	−14·8	−45·8
314·330 C	114	1030	72	649	259·7	−0·9	−15·3	−32·9
315·509 G	189	1306	104	718	259·5	−1·1	−15·1	−17·5
316·310 C	151	1078	80	571	259·0	−1·6	−15·3	− 7·5
317·398 G	159	1066	84	565	258·9	−1·7	−15·2	+ 6·8
318·389 G	111	729	62	408	259·3	−1·4	−15·3	+20·2
319·381 C	49	509	31	321	259·5	−1·2	−15·0	+33·5
320·441 G	34	268	27	209	259·6	−1·1	−15·0	+47·6
321·369 C	15	122	16	129	259·8	−0·9	−14·6	+60·0
322·308 C	10	58	17	101	259·5	−1·2	−14·2	+72·1

Group 9787.

November 16–27. A stable regular spot with an occasional small companion in the faculæ which follows.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
319·381 C	15	97	27	178	154·3	0·0	−22·4	−71·7
320·441 G	32	181	33	186	154·8	+0·7	−22·0	−57·2
321·369 C	38	240	30	187	155·0	+1·0	−22·1	−44·8
322·308 C	53	279	34	181	155·2	+1·4	−22·1	−32·2
323·359 C	51	277	30	161	155·2	+1·6	−22·2	−18·4
324·418 G	45	282	25	155	155·2	+1·8	−22·1	− 4·4
325·475 G	64	301	36	169	154·6	+1·4	−22·3	+ 8·9
326·451 C	47	241	28	142	154·9	+1·9	−22·2	+22·1
327·385 C	38	200	25	132	154·6	+1·7	−22·4	+34·1
328·307 C	28	173	22	132	154·2	+1·5	−22·3	+45·8
329·467 E	49	181	55	204	153·9	+1·4	−22·1	+60·8
330·434 C	11	77	22	156	154·2	+1·9	−22·4	+73·9
Means ...	...	...	31	166	154·7	...	−22·2	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9788.

November 17–22. A small, rapidly decreasing regular spot which disappears on November 22 as a pair of markings.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
320·441 G	4	28	12	85	131·2	0·0	+18·2	−80·8
321·369 C	7	56	10	79	131·0	−0·1	+18·1	−68·8
322·308 C	7	48	6	44	131·5	+0·4	+18·1	−55·9
323·359 C	13	36	9	25	131·1	+0·1	+17·6	−42·5
324·418 G	10	21	6	12	131·4	+0·4	+17·5	−28·2
325·475 G	7	25	4	13	131·7	+0·8	+17·4	−14·0
Means ...	...	...	8	43	131·3	...	+17·8	...

Group 9792.

November 20–27. A well-defined spot with an occasional companion.

323·359 C	13	55	27	113	101·7	0·0	−31·6	−71·9
324·418 G	15	67	17	78	101·4	+0·2	−31·4	−58·2
325·475 G	15	59	13	50	100·7	+0·1	−31·5	−45·0
326·451 C	13	49	9	35	100·2	+0·1	−31·5	−32·6
327·385 C	15	55	10	36	98·9	−0·8	−31·0	−21·6
328·307 C	19	73	12	44	98·7	−0·5	−31·0	− 9·7
329·467 E	20	65	12	39	98·1	−0·5	−30·8	+ 5·0
330·434 C	4	17	2	11	97·7	−0·4	−30·7	+17·4
Means ...	...	...	13	51	99·7	...	−31·2	...

Group 9796.

November 22–December 4. A short stream of spots of comparatively brief duration, led by a large, quasi-regular spot, *a*, which is surrounded by numerous small spots on November 28.

325·475 G	3	35	6	75	69·6	0·0	+22·0	−76·1
326·451 C	6	25	7	28	70·6	+1·2	+22·0	−62·2
327·385 C	75	428	58	332	73·7	+4·4	+21·3	−46·8
328·307 C	178	1028	116	670	74·1	+5·0	+21·6	−34·3
329·467 E	300	1295	170	737	74·4	+5·5	+22·4	−18·7
330·434 C	146	878	79	474	75·6	+6·9	+22·1	− 4·7
331·448 G	112	896	61	484	74·6	+6·1	+21·9	+ 7·6
332·361 C	61	454	35	262	75·3	+6·9	+22·0	+20·4
333·427 G	79	541	51	349	74·1	+5·9	+22·1	+33·2
334·454 G	43	225	33	177	74·5	+6·5	+22·1	+47·2
335·324 C	37	229	38	230	73·8	+6·0	+22·0	+57·9
336·341 C	6	70	11	118	73·6	+5·9	+23·3	+71·1
337·313 C	0	23	0	101	72·9	...	+23·2	+83·2
Means ...	...	...	55	328	73·7	...	+22·1	...

Spot *a*.

327·385 C	47	273	35	205	74·7	0·0	+20·8	−45·8
328·307 C	106	596	68	381	75·0	+0·5	+21·9	−33·4
329·467 E	181	744	101	417	76·1	+1·8	+22·4	−17·0

Group 9796—Spot *a*—*continued*.

d					°	°	°	°
330·434 C	91	622	49	336	76·4	+2·3	+22·2	− 3·9
331·448 G	83	637	45	344	76·4	+2·4	+22·0	+ 9·4
332·361 C	53	384	31	223	76·2	+2·4	+22·4	+21·3
333·427 G	53	363	35	240	76·1	+2·5	+22·5	+35·2
334·454 G	24	160	19	130	75·6	+2·2	+22·5	+48·3
335·324 C	25	153	26	159	75·1	+1·8	+22·1	+59·2

Group 9797.

November 26–December 4. A large area of bright and well-defined faculæ, in which a number of small unstable spots appear sporadically.

329·467 E	8	33	17	70	17·0	0·0	+19·2	−76·1
330·434 C	16	38	7	45	16·7	−0·2	+19·7	−63·6
331·448 G	13	55	12	53	11·6	−5·2	+21·1	−55·4
332·361 C	21	153	17	121	7·7	−8·9	+22·3	−47·2
333·427 G	61	314	38	193	11·3	−5·2	+21·7	−29·6
334·454 G	37	199	20	109	12·1	−4·3	+20·3	−15·2
335·324 C	17	102	9	54	11·9	−4·4	+20·1	− 4·0
336·341 C	8	72	4	40	13·6	−2·5	+20·8	+11·1
337·313 C	4	12	2	7	14·6	−1·4	+18·4	+24·9
Means ...	...	...	14	77	12·9	...	+20·4	...

Group 9798.

November 29–December 8. A region of feeble but persistent spot and facula activity *s* Group 9797.

332·361 C	2	8	2	6	5·6	0·0	+11·2	−49·3
333·427 G	16	84	10	52	6·5	+0·8	+11·5	−34·4
334·454 G	6	51	3	28	6·1	+0·3	+11·7	−21·2
335·324 C	10	28	5	15	7·7	+1·8	+10·7	− 8·2
336·341 C	4	21	2	11	7·0	+1·0	+10·4	+ 4·5
337·313 C	4	19	2	10	7·0	+0·9	+10·8	+17·3
338·324 C	0	0	0	0	...	...	..	...
339·513 C	8	31	6	23	7·5	+1·2	+ 9·4	+46·8
340·319 C	25	127	23	118	7·3	+0·9	+ 9·3	+57·2
341·340 C	2	4	3	6	7·5	+1·0	+ 9·1	+70·9
Means ...	...	...	6	27	6·9	...	+10·5	..

Group 9799.

November 29–December 10. A stable regular spot, *a*, followed by a cluster until December 5.

332·361 C	19	114	23	144	350·1	0·0	+20·5	−64·8
333·427 G	102	425	86	357	350·7	+0·7	+20·4	−50·2
334·454 G	77	427	51	284	350·0	+0·2	+20·6	−37·3
335·324 C	68	415	40	246	350·0	+0·3	+20·0	−25·9
336·341 C	45	344	24	187	350·2	+0·6	+20·2	−12·3
337·313 C	57	322	30	171	349·9	+0·4	+20·4	+ 0·2
338·324 C	40	225	22	123	351·0	+1·6	+20·3	+14·7

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9799—*continued*.

Date. G.M.T. Place.	Projected Area: Umbræ	Projected Area: Whole Spots.	Corrected Area: Umbræ	Corrected Area: Whole Spots.	Longitude and Proper. Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
339·513 C	36	193	22	120	350·8	+1·6	+20·1	+30·1
340·319 C	35	177	24	124	350·3	+1·2	+20·0	+40·2
341·340 C	16	150	14	135	350·2	+1·2	+20·2	+53·6
342·446 G	19	63	26	88	349·5	+0·6	+19·8	+67·5
343·482 G	2	35	8	134	350·2	...	+19·9	+81·8
Means ...	...	...	30	180	350·2	...	+20·2	...

Spot *a*.

332·361 C	11	59	13	68	351·9	0·0	+20·2	−63·0
333·427 G	43	222	35	180	351·6	−0·2	+20·1	−49·3
334·454 G	34	214	22	139	351·8	+0·2	+19·8	−35·5
335·324 C	47	237	27	137	351·5	0·0	+19·9	−24·4
336·341 C	28	210	15	113	351·7	+0·3	+20·1	−10·8
337·313 C	42	237	22	126	351·5	+0·2	+20·1	+ 1·8
338·324 C	38	219	21	120	351·1	−0·1	+20·2	+14·8
339·513 C	36	193	22	120	350·8	−0·2	+20·1	+30·1
340·319 C	35	177	24	124	350·3	−0·6	+20·0	+40·2
341·340 C	16	150	14	135	350·2	−0·6	+20·2	+53·6
342·446 G	19	63	26	88	349·5	−1·2	+19·8	+67·5
343·482 G	2	35	8	134	350·2	−0·4	+19·9	+81·8

Group 9800.

December 1–5. A group with rapid increase and decline.

334·454 G	27	83	17	50	58·1	0·0	+14·9	+30·8
335·324 C	38	225	27	162	59·9	+1·8	+15·2	+44·0
336·341 C	51	322	48	310	59·9	+1·8	+14·9	+57·4
337·313 C	21	126	34	208	61·5	+3·3	+14·8	+71·8
338·324 C	8	20	(25	63	56·9	...	+15·3)*	+80·6
Means ...	...	...	32	198	59·8	...	+15·0	...

Group 9801.

December 1–11. A stream of spots mainly small and unstable, growing from a small spot seen on December 1. A comparison of the extent of the accompanying faculæ on December 1 and 11 shows the characteristic growth of the disturbance in longitude.

334·454 G	9	18	11	23	323·0	0·0	+26·7	−64·3
335·324 C	13	76	12	70	322·9	+0·2	+26·7	−53·0
336·341 C	29	204	21	152	321·4	−0·9	+27·3	−41·1
337·313 C	42	263	27	169	320·8	−1·2	+27·5	−28·9
338·324 C	74	328	43	191	320·3	−1·3	+27·2	−16·0
339·513 C	56	322	31	182	320·0	−1·2	+27·1	− 0·7
340·319 C	78	415	44	237	318·7	−2·2	+27·6	+ 8·6
341·340 C	73	440	45	268	318·9	−1·7	+27·5	+22·3
342·446 G	46	311	32	215	317·7	−2·5	+27·2	+35·7
343·482 G	17	104	15	89	317·6	−2·2	+27·1	+49·2
344·302 C	2	11	2	13	319·7	+0·2	+27·6	+62·1
Means ...	...	...	26	146	320·1	...	+27·2	...

Group 9803.

December 3–8. A pair of spots, the leader being the more definite and longer-lived.

d					°	°	°	°
336·341 C	8	23	4	12	351·2	0·0	−19·0	−11·3
337·313 C	32	97	17	51	350·7	−0·4	−18·7	+ 1·0
338·324 C	29	165	16	91	350·6	−0·5	−18·5	+14·3
339·513 C	12	70	7	43	350·8	−0·2	−18·1	+30·1
340·319 C	6	21	4	15	350·9	0·0	−17·6	+40·8
341·340 C	4	14	4	13	351·2	+0·3	−17·7	+54·6
Means ...	...	...	9	38	350·9	...	−18·3	...

Group 9804.

December 5–10. A small regular spot closely followed by a few tiny companions.

338·324 C	3	14	2	11	286·8	0·0	+14·8	−49·5
339·513 C	23	107	14	65	288·6	+1·7	+14·4	−32·1
340·319 C	39	158	21	87	288·7	+1·8	+13·9	−21·4
341·340 C	9	64	5	34	288·9	+2·0	+13·4	− 7·7
342·446 G	5	21	3	11	289·2	+2·2	+12·9	+ 7·2
343·482 G	3	11	2	6	290·1	+3·1	+12·3	+21·7
Means ...	...	...	8	36	288·7	...	+13·6	...

Group 9805.

December 5–16. A large naked-eye group. Two small spots on December 5, which multiply and extend rapidly to form, within a few days, a large stream of irregular shaped spots. These condense into two large composite spots, *a* and *b*, which break up almost immediately into two clusters.

338·324 C	8	39	12	55	268·5	0·0	−20·7	−67·8
339·513 C	30	218	26	190	268·5	+0·1	−20·1	−52·2
340·319 C	100	648	70	447	271·0	+2·7	−19·7	−39·1
341·340 C	190	1347	113	796	271·2	+3·1	−19·8	−25·4
342·446 G	250	1726	134	929	271·0	+3·0	−19·7	−11·0
343·482 G	266	1715	141	909	270·8	+2·9	−19·9	+ 2·4
344·302 C	218	1927	118	1052	269·5	+1·7	−20·2	+11·9
345·458 G	231	1756	138	1045	268·8	+1·2	−20·1	+26·5
346·411 C	168	1513	114	1037	269·1	+1·6	−20·1	+39·3
347·506 G	135	905	120	792	267·9	+0·5	−20·9	+52·6
348·348 C	63	533	80	637	267·9	+0·6	−21·0	+63·6
349·360 C	18	137	42	319	268·0	+0·8	−19·9	+77·1
Means ...	...	...	92	684	269·4	...	−20·2	...

Spot *a*.

341·340 C	96	863	56	501	273·6	0·0	−19·3	−23·0
342·446 G	131	1034	69	548	273·0	−0·5	−19·0	− 9·0
343·482 G	166	1135	88	602	273·0	−0·3	−19·1	+ 4·6
344·302 C	119	1140	65	627	272·6	−0·6	−19·1	+15·0
345·458 G	130	887	79	541	273·1	0·0	−18·9	+30·8
346·411 C	78	765	56	551	273·1	+0·1	−18·7	+43·3

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued*.

Group 9805—Spot *a*—*continued*.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
347·506 G	60	349	59	345	273·5	+0·6	−18·7	+58·2
348·348 C	35	191	51	281	273·6	+0·8	−18·8	+69·3
349·360 C	9	65	27	197	271·3	...	−17·8	+80·4

Spot *b*.

341·340 C	94	484	57	295	268·3	0·0	−21·1	−28·3
342·446 G	119	692	65	381	267·4	−0·8	−20·5	−14·6
343·482 G	100	580	53	307	266·7	−1·3	−21·1	− 1·7
344·302 C	99	787	53	425	265·9	−2·0	−21·0	+ 8·3
345·458 G	101	869	59	504	264·8	−3·0	−21·5	+22·5
346·411 C	90	748	58	486	264·5	−3·2	−21·7	+34·7
347·506 G	71	535	57	428	263·4	−4·2	−22·6	+48·1
348·348 C	28	342	29	356	263·3	−4·2	−22·6	+59·0
349·360 C	9	72	15	122	262·7	−4·6	−23·3	+71·8

Group 9807.

December 6–13. A disturbed area shown by bright faculæ and slight but persistent spot activity. No spots are seen on December 10.

339·513 C	4	18	6	25	252·6	0·0	−14·5	−68·1
340·319 C	13	110	13	109	251·5	−1·1	−14·4	−58·6
341·340 C	9	50	6	36	251·8	−0·8	−14·7	−44·8
342·446 G	4	20	2	12	251·8	−0·9	−14·6	−30·2
343·482 G	0	0	0	0	...	...	...	...
344·302 C	0	5	0	3	253·1	+0·4	−14·4	− 4·5
345·458 G	6	53	3	28	253·0	+0·2	−14·1	+10·7
346·411 C	2	5	1	3	252·3	−0·5	−14·6	+22·5
Means ...	...	...	4	27	252·3	...	−14·5	...

Group 9812.

December 11–22. A regular spot, *a*, followed by a cluster of small unstable spots which have all disappeared by December 20.

344·302 C	17	55	30	104	183·8	0·0	−15·7	−73·8
345·458 G	44	296	44	293	184·1	+0·3	−15·5	−58·2
346·411 C	75	511	56	382	183·3	−0·5	−15·4	−46·5
347·506 G	83	547	51	334	183·4	−0·5	−15·1	−31·9
348·348 C	87	469	48	260	183·5	−0·4	−15·0	−20·8
349·360 C	61	408	32	213	183·2	−0·7	−15·0	− 7·7
350·380 C	59	283	31	147	183·9	0·0	−14·7	+ 6·4
351·339 C	34	216	18	117	183·3	−0·6	−14·7	+18·4
352·330 C	28	188	17	113	183·0	−0·9	−15·2	+31·2
353·394 C	21	101	16	75	184·0	0·0	−14·2	+46·2
354·338 C	8	67	8	66	184·0	0·0	−14·2	+58·6
355·322 C	4	17	6	27	183·7	−0·3	−14·1	+71·3
Means ...	...	...	30	178	183·6	...	−14·9	...

Group 9812—*continued*.

Spot *a*.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
344·302 C	15	36	26	64	184·4	0·0	−15·2	−73·2
345·458 G	34	257	33	249	184·4	0·0	−15·4	−57·9
346·411 C	51	355	37	259	184·3	−0·1	−15·1	−45·5
347·506 G	51	363	31	218	184·0	−0·5	−14·8	−31·3
348·348 C	68	342	37	188	184·2	−0·3	−14·5	−20·1
349·360 C	35	279	18	145	183·7	−0·8	−14·5	− 7·2
350·380 C	44	190	23	99	184·3	−0·2	−14·1	+ 6·8
351·339 C	21	165	11	89	184·3	−0·2	−13·8	+19·4
352·330 C	17	133	10	80	183·6	−0·9	−14·0	+31·8
353·394 C	21	101	16	75	184·0	−0·6	−14·2	+46·2
354·338 C	8	67	8	66	184·0	−0·6	−14·2	+58·6
355·322 C	4	17	6	27	183·7	−0·9	−14·1	+71·3

Group 9818.

December 14–24. A few small spots in a short stream. *n* Group 9814. No spots are seen on December 15 and 16.

347·506 G	4	14	3	11	171·6	0·0	+26·2	−43·7
348·348 C	0	0	0	0	...	...	...	...
349·360 C	0	0	0	0	...	...	...	...
350·380 C	2	6	1	3	172·1	+1·4	+25·7	− 5·4
351·339 C	8	21	5	12	169·7	−0·7	+26·4	+ 4·8
352·330 C	13	63	8	37	168·3	−1·8	+26·4	+16·5
353·394 C	55	234	36	152	167·6	−2·2	+25·3	+29·8
354·338 C	23	101	18	78	167·4	−2·1	+26·3	+42·0
355·322 C	38	110	36	106	165·9	−3·3	+26·2	+53·5
356·317 C	21	80	31	118	166·1	−2·8	+25·9	+66·8
357·314 C	8	21	27	72	165·9	−2·7	+26·4	+79·7
Means ...	...	...	15	54	168·3	...	+26·0	...

Group 9820.

December 15–26. A stream of spots developing *n* of Group 9819. The leader, *a*, which has become a regular spot by December 21, is the only important component.

348·348 C	8	38	16	75	131·0	0·0	+25·2	−73·3
349·360 C	38	165	44	192	129·9	+0·8	+24·8	−61·0
350·380 C	31	256	24	197	133·7	+3·2	+24·6	−43·8
351·339 C	59	315	40	207	133·6	+3·4	+24·5	−31·3
352·330 C	139	580	82	341	134·3	+4·4	+24·7	−17·5
353·394 C	114	657	64	368	134·4	+4·7	+25·0	− 3·4
354·338 C	89	517	52	298	135·0	+5·6	+25·1	+ 9·6
355·322 C	98	446	60	273	135·1	+5·9	+25·0	+22·7
356·317 C	80	383	57	270	135·1	+6·2	+24·3	+35·8
357·314 C	48	244	43	221	138·0	+9·4	+24·1	+51·8
358·400 C	31	178	41	243	136·5	+8·2	+24·5	+64·7
359·466 G	9	60	31	206	137·6	+9·5	+24·1	+79·8
Means ...	...	...	46	241	134·5	...	+24·7	...

LEDGER II.—NON-RECURRENT GROUPS of SUN SPOTS for the YEAR 1925—*continued.*

Group 9820—*continued.*
Spot *a*.

Date. G.M.T. Place.	Projected Area Umbræ	Projected Area Whole Spots.	Corrected Area Umbræ	Corrected Area Whole Spots.	Longitude and Proper Motion.	Latitude.	Long. from C.M.
d					°	°	°	°
349·360 C	13	51	13	50	135·4	0·0	+23·8	−55·5
350·380 C	17	152	13	112	136·0	+0·9	+24·3	−41·5
351·339 C	34	186	22	119	135·9	+1·0	+24·2	−29·0
352·330 C	93	388	54	225	136·1	+1·5	+24·7	−15·7
353·394 C	72	447	40	250	136·7	+2·4	+25·1	− 1·1
354·338 C	67	363	39	211	137·2	+3·1	+25·6	+11·8
355·322 C	61	325	38	202	137·4	+3·6	+24·9	+25·0
356·317 C	70	329	50	234	137·7	+4·1	+24·4	+38·4
357·314 C	46	236	42	215	138·0	+4·7	+24·1	+51·8
358·400 C	23	148	32	209	137·8	+4·8	+24·3	+66·0
359·466 G	9	60	31	206	137·6	+4·9	+24·1	+79·8

Group 9821.
December 16–26. A small regular spot followed by a train of very small spots until December 22.

349·360 C	4	25	10	60	113·2	0·0	−17·8	−77·7
350·380 C	17	51	20	59	114·0	+0·9	−17·9	−63·5
351·339 C	32	149	28	131	111·4	−1·7	−17·8	−53·5
352·330 C	33	177	22	118	112·9	−0·1	−17·6	−38·9
353·394 C	39	136	23	78	111·7	−1·3	−17·6	−26·1
354·338 C	14	67	7	36	111·7	−1·2	−17·9	−13·7
355·322 C	25	89	13	46	110·2	−2·7	−17·7	− 2·2
356·317 C	8	21	4	11	112·7	−0·1	−18·2	+13·4
357·314 C	13	29	8	17	113·0	+0·2	−17·7	+26·8
358·400 C	6	21	4	14	113·0	+0·3	−17·7	+41·2
359·466 G	4	17	4	15	112·6	−0·1	−17·5	+54·8
Means ...	...	...	13	53	112·4	...	−17·8	...

Group 9822.
December 17–29. A stable regular spot.

350·380 C	8	42	17	89	101·2	0·0	−11·8	−76·3
351·339 C	13	101	15	116	101·0	−0·3	−11·9	−63·9
352·330 C	21	169	17	135	101·0	−0·3	−12·2	−50·8
353·394 C	42	236	26	149	101·3	−0·1	−12·4	−36·5
354·338 C	29	205	16	115	101·5	0·0	−12·3	−23·9
355·322 C	38	215	20	112	101·4	−0·2	−12·3	−11·0
356·317 C	42	194	21	99	101·6	0·0	−12·2	+ 2·3
357·314 C	34	196	18	104	101·7	0·0	−12·2	+15·5
358·400 C	36	211	21	122	101·5	−0·3	−12·2	+29·7
359·466 G	30	149	21	104	101·6	−0·3	−12·4	+43·8
360·355 C	25	139	22	124	101·5	−0·4	−12·4	+55·4
361·337 C	13	72	18	97	101·6	−0·4	−12·1	+68·4
362·337 C	4	21	12	64	100·8	...	−12·4	+80·8
Means ...	...	...	19	114	101·4	...	−12·2	...

Group 9828.
December 20–30. One or two very small spots *nf* Group 9824, none are seen on December 24 and 25.

d					°	°	°	°
353·394 C	4	19	11	54	59·3	0·0	+19·8	−78·5
354·338 C	2	8	3	10	60·2	+1·0	+20·5	−65·2
355·322 C	2	6	2	5	59·6	+0·5	+21·1	−52·8
356·317 C	2	8	1	6	60·4	+1·4	+20·9	−38·9
357·314 C	0	0	0	0	...	...	...	...
358·400 C	0	0	0	0	...	...	...	...
359·466 G	4	9	2	5	62·9	+4·3	+18·5	+ 5·1
360·355 C	4	17	2	10	61·4	+2·9	+19·8	+15·3
361·337 C	2	6	1	4	60·4	+2·0	+19·2	+27·2
362·337 C	17	48	12	35	61·1	+2·8	+20·1	+41·1
363·119 K	8	26	7	23	61·3	+3·1	+19·4	+51·6
Means ...	...	...	4	14	60·7	...	+19·8	...

Group 9833.
December 28–1926 January 3. A small stream of normal type.

361·337 C	44	102	23	53	30·9	0·0	+10·7	− 2·3
362·337 C	80	461	42	242	32·2	+1·2	+10·8	+12·2
363·119 K	106	408	59	234	32·8	+1·7	+10·8	+23·1
364·559 C	57	307	41	217	33·4	+2·2	+10·8	+42·7
365·386 C	40	251	36	221	33·3	+2·0	+10·9	+53·5
366·494 G	32	127	47	192	34·4	+3·0	+10·7	+69·2
367·392 C	12	78	43	269	33·8	+2·3	+10·8	+80·4
Means ...	...	...	42	204	33·0	...	+10·8	...

Group 9835.
December 28–1926 January 6. A small group of stream type in high northern latutude. The leader alone remains after January 4.

361·337 C	16	44	15	42	348·1	0·0	+38·4	−45·1
362·337 C	31	82	25	66	347·1	−0·2	+38·6	−32·9
363·119 K	26	56	18	41	347·6	+0·9	+38·6	−22·1
364·559 C	21	42	15	28	345·2	−0·3	+38·9	− 4·5
365·386 C	32	91	21	61	343·6	−1·3	+38·7	+ 3·8
366·494 G	42	106	30	74	343·6	−0·4	+38·2	+18·4
367·392 C	24	74	18	58	343·6	+0·3	+38·2	+29·9
368·323 C	19	99	19	94	344·9	+2·4	+37·7	+43·7
369·316 C	8	27	11	36	347·6	+5·9	+36·7	+59·5
370·527 G	6	45	18	137	346·7	+5·9	+37·2	+74·6
Means ...	...	...	19	64	345·8	...	+38·1	...

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

1925

GREENWICH PHOTO-HELIOGRAPHIC RESULTS 1925

TOTAL AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925.

The Greenwich Mean Time at which the photograph was taken is expressed by the month, day of month, 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, and those taken at the Cape, Kodaikánal, Dehra Dûn, and Ebro, by the letters C, K, D, and E respectively.

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 disc.

The Area Corrected for Foreshortening is expressed in millionths of the Sun's visible hemisphere.

Greenwich Mean Time.	Place.	Projected Area.			Area Corrected for Foreshortening.		
		Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1925 d							
January 1·321	C	0	0	58	0	0	159
2·328	C	5	17	307	9	30	515
3·323	C	6	27	643	6	28	755
4·430	G	4	11	429	3	8	421
5·450	G	1	5	280	1	3	315
6·463	G	1	4	276	1	2	295
7·343	C	0	6	554	0	3	569
8·398	C	6	57	286	3	29	312
9·457	G	0	0	268	0	0	513
10·352	C	0	0	875	0	0	1162
11·330	C	4	18	1445	2	10	1621
12·256	D	16	52	2118	9	30	2166
13·456	C	1	5	1456	1	3	1673
14·374	C	0	0	854	0	0	992
15·359	C	0	0	870	0	0	931
16·366	C	9	67	946	6	47	1030
17·316	C	3	18	411	2	11	462
18·366	C	6	49	659	5	38	594
19·338	C	45	270	580	33	185	640
20·361	C	37	258	1018	25	168	1232
21·349	C	29	185	1208	20	128	1204
22·312	C	23	144	1167	18	126	1293
23·464	G	24	98	590	27	114	711
24·448	G	6	27	389	10	46	573
25·114	K	4	27	512	12	82	892
26·446	C	1	7	270	1	4	427
27·393	C	0	0	238	0	0	295
28·543	G	1	9	719	1	7	555
29·363	C	0	0	276	0	0	302
30·366	C	0	0	234	0	0	303
31·343	C	0	8	137	0	20	283
February 1·523	G	18	80	154	13	56	163
2·523	G	26	137	389	16	86	386
3·394	C	17	79	254	12	62	215
4·446	G	3	16	358	3	14	314
5·430	G	14	40	606	10	30	678
6·356	C	8	64	710	7	61	1031
7·495	G	65	300	882	155	670	1199
1925 d							
February 8·345	C	83	543	1237	90	629	1767
9·404	G	157	936	1765	113	702	1918
10·455	C	200	1216	2007	133	792	2276
11·450	C	166	1252	1534	104	786	1562
12·534	G	228	1418	1902	142	859	1561
13·325	C	239	1342	1790	150	836	1540
14·404	C	187	1391	814	119	872	969
15·365	C	211	1212	1023	118	672	1017
16·406	G	143	792	1775	87	490	1798
17·321	C	68	579	2747	50	426	2279
18·501	G	38	223	2340	41	238	2249
19·302	C	62	254	2428	49	206	2855
20·436	G	41	181	975	24	137	1609
21·431	G	18	106	354	12	83	579
22·395	C	7	28	512	6	23	635
23·352	C	7	27	406	5	20	439
24·335	C	3	13	353	3	13	453
25·397	G	0	0	188	0	0	235
26·402	G	0	0	317	0	0	399
27·393	G	0	0	140	0	0	172
28·427	G	10	36	0	5	19	0
March 1·364	C	26	175	48	14	99	128
2·337	C	22	102	296	13	60	449
3·329	C	6	32	511	4	22	452
4·419	G	2	17	794	2	16	785
5·552	C	0	4	441	0	6	677
6·565	C	0	0	378	0	0	564
7·471	G	0	0	1183	0	0	1593
8·369	G	0	0	1095	0	0	1112
9·391	G	0	0	1384	0	0	1243
10·435	G	0	0	543	0	0	721
11·490	C	13	68	746	23	129	835
12·391	G	45	205	895	45	208	1092
13·411	G	99	550	1259	73	410	1088
14·404	G	105	664	391	64	401	346
15·454	G	110	731	943	61	398	914
16·400	G	95	685	337	49	358	408
17·527	G	98	597	613	53	318	582

TOTAL AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925—*continued*.

Greenwich Mean Time.		Place.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1925 March	d 18·396	G	80	505	808	45	279	937
	19·332	C	77	554	950	48	341	1068
	20·584	C	38	299	856	29	228	1056
	21·309	C	34	254	1252	32	238	1327
	22·494	G	28	164	1242	50	295	1582
	23·470	G	24	88	1232	56	231	1472
	24·476	G	16	40	540	10	26	479
	25·517	G	52	160	192	30	93	276
	26·328	C	80	392	127	55	316	263
	27·329	C	116	747	0	67	433	0
	28·498	G	139	708	49	91	464	106
	29·357	C	106	704	168	80	533	212
	30·353	C	68	566	1084	67	555	961
	31·324	C	63	487	870	94	705	1035
April	1·354	C	20	147	524	58	429	987
	2·334	C	8	51	312	17	109	602
	3·467	G	10	77	511	12	89	661
	4·318	C	9	44	750	9	42	856
	5·508	G	22	92	754	19	75	781
	6·532	G	19	73	664	13	50	860
	7·346	C	27	118	689	35	147	1045
	8·155	K	33	145	918	37	160	1202
	9·332	C	31	209	985	25	169	1023
	10·619	G	99	499	623	61	311	754
	11·360	G	182	753	890	112	470	999
	12·356	G	207	948	1693	131	595	1647
	13·378	G	150	764	1830	95	482	1944
	14·390	G	148	772	1364	99	510	1505
	15·333	C	151	729	1322	109	561	1417
	16·499	G	67	369	1280	62	380	1887
	17·412	G	70	367	1872	120	747	2522
	18·328	C	83	434	2614	101	563	3364
	19·428	G	124	634	2601	107	553	2746
	20·359	G	90	475	1655	63	331	1649
	21·410	G	53	280	889	34	167	935
	22·611	G	66	317	500	41	180	639
	23·639	G	87	414	193	53	244	237
	24·351	G	88	574	455	57	358	557
	25·351	G	87	435	799	63	312	705
	26·303	G	44	270	1426	34	222	1536
	27·572	G	22	116	1405	21	121	1414
	28·488	G	17	55	1192	27	96	1648
	29·405	G	13	40	698	8	26	1024
	30·377	G	52	344	877	122	855	1415
May	1·613	G	134	779	931	149	883	1101
	2·405	G	159	936	1238	135	799	1304
	3·358	C	173	1080	750	121	755	1031
	4·637	G	242	1292	379	141	754	404
	5·378	C	198	1313	724	109	723	878
	6·357	G	271	1504	582	144	798	623
	7·371	G	205	1516	536	113	834	862
	8·636	G	153	1175	459	96	737	626

Greenwich Mean Time.		Place.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1925 May	d 9·355	G	167	1244	923	122	906	982
	10·307	G	168	883	1258	148	777	1207
	11·348	G	117	576	908	135	686	1035
	12·353	G	79	345	705	169	765	1108
	13·289	G	54	341	700	50	338	833
	14·359	G	87	631	990	64	454	1205
	15·363	G	125	834	1277	81	556	1516
	16·380	G	155	744	1706	96	452	1919
	17·332	G	209	1118	1880	146	759	2072
	18·360	G	265	1310	1991	187	941	1964
	19·476	G	262	1480	1310	183	1042	1619
	20·346	C	213	1252	997	139	882	1498
	21·359	C	213	1230	555	147	878	670
	22·355	G	207	1179	675	155	848	808
	23·486	G	176	1144	760	104	662	876
	24·383	G	105	1004	669	67	615	768
	25·441	G	133	760	832	99	557	956
	26·351	G	83	583	999	77	512	1201
	27·444	C	112	658	1547	157	911	2177
	28·365	G	120	595	887	193	948	1277
	29·347	G	77	468	1048	78	473	1378
	30·411	G	61	457	547	41	315	719
	31·268	G	53	387	560	33	238	656
June	1·326	G	117	609	701	92	472	1101
	2·360	G	384	1799	791	274	1346	1025
	3·368	G	324	2021	1382	259	1689	1832
	4·346	G	374	2107	1525	240	1352	1673
	5·361	G	279	1720	1586	190	1155	1640
	6·285	G	253	1399	1463	171	936	1360
	7·281	G	244	1328	2182	185	1019	2120
	8·381	G	340	1786	1571	272	1408	2099
	9·355	G	333	1726	1661	244	1264	1976
	10·348	G	349	1989	976	227	1294	1199
	11·380	G	406	2019	2339	286	1442	2308
	12·360	G	261	1771	2187	203	1430	2580
	13·361	G	240	1336	2620	224	1351	3523
	14·100	K	127	1059	1358	137	1119	1621
	15·354	G	54	348	2151	70	449	2387
	16·404	G	35	213	989	38	241	1162
	17·646	G	12	55	1073	15	68	1034
	18·350	G	6	46	870	8	73	1051
	19·346	G	2	6	1209	1	3	1553
	20·367	G	0	0	1101	0	0	1254
	21·359	C	1	6	878	1	4	858
	22·389	D	39	121	936	26	81	969
	23·655	G	6	45	1679	5	38	1665
	24·364	C	14	67	1723	35	189	2240
	25·368	G	15	107	1347	19	135	1908
	26·366	C	23	122	887	21	109	1258
	27·515	G	8	127	1033	6	191	1324
	28·627	G	27	166	1431	38	218	1671
	29·356	G	29	185	1670	29	185	2017
	30·360	G	46	245	1986	33	187	2213

TOTAL AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925—*continued*.

Greenwich Mean Time.		Place.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1925	d							
July	1·364	G	49	263	1090	32	168	1560
	2·371	G	68	385	1747	54	315	2223
	3·322	C	145	803	1130	119	616	1294
	4·397	C	187	993	2537	128	661	2467
	5·367	C	252	1275	1940	161	803	2244
	6·349	G	192	1264	2070	115	740	2285
	7·520	G	220	1424	1430	127	823	1594
	8·647	G	156	1280	1931	97	783	2184
	9·349	G	185	1221	2334	126	822	2389
	10·431	C	208	1125	2751	165	888	3087
	11·348	G	120	928	1872	102	783	2039
	12·409	G	121	811	3064	109	759	3733
	13·371	G	94	555	2282	99	573	2649
	14·347	G	76	375	1203	42	212	1209
	15·325	C	59	328	753	32	180	876
	16·364	G	56	336	462	32	191	674
	17·366	C	90	413	966	62	277	1094
	18·340	C	93	343	915	66	238	954
	19·363	C	55	236	933	34	145	1128
	20·578	G	63	173	1124	37	105	1200
	21·440	G	46	194	1650	31	126	1684
	22·308	C	31	99	1251	26	85	1564
	23·376	E	0	16	1836	0	12	2278
	24·351	G	50	169	988	47	194	1518
	25·434	G	140	780	1231	98	545	1540
	26·488	G	139	706	1310	86	432	1458
	27·436	G	128	601	1034	72	334	1038
	28·350	G	118	596	735	66	331	969
	29·362	C	153	612	1079	89	358	1777
	30·345	G	81	445	1277	50	285	1403
	31·358	C	133	594	1256	94	426	1196
August	1·377	G	72	442	1745	64	405	1764
	2·411	G	56	338	1820	77	439	2172
	3·329	G	50	224	1550	64	281	1831
	4·348	C	9	71	1400	11	147	1842
	5·589	G	15	58	996	8	32	1304
	6·344	G	29	86	1353	16	60	1558
	7·410	G	45	236	2459	33	174	2331
	8·378	G	72	374	2064	58	367	2463
	9·322	K	175	928	1708	122	608	2091
	10·378	C	211	1204	2273	132	753	2525
	11·353	G	205	1390	1007	148	995	1331
	12·345	C	152	1161	1060	132	1041	1166
	13·323	C	95	691	750	114	877	818
	14·388	G	27	232	784	50	468	938
	15·357	G	0	0	949	0	0	1354
	16·309	G	0	0	1299	0	0	1365
	17·415	G	6	21	879	4	13	1135
	18·107	K	13	74	795	8	47	968
	19·347	C	30	142	902	36	197	1037
	20·410	G	33	212	778	43	283	1238
	21·442	G	36	204	1040	48	376	1640
	22·403	G	56	344	979	77	483	1245
	23·432	G	69	454	1479	63	425	1840

Greenwich Mean Time.		Place.	Projected Area.			Area Corrected for Foreshortening.		
			Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1925	d							
August	24·144	K	135	664	2049	110	547	1935
	25·401	G	132	816	1623	87	528	1826
	26·366	G	192	950	1119	125	620	1392
	27·550	G	315	1359	1536	179	772	1955
	28·395	G	290	1521	1239	158	822	1162
	29·360	G	286	1358	1980	171	830	2452
	30·378	C	356	1756	2687	237	1139	3347
	31·500	G	284	1375	2838	204	957	3057
Sept.	1·343	C	183	1057	3798	170	955	3838
	2·346	G	105	687	2368	101	751	2663
	3·415	G	115	652	2003	112	728	2451
	4·443	G	93	333	2095	89	347	2694
	5·398	G	60	234	1349	53	208	1740
	6·475	G	106	337	1683	71	218	1993
	7·618	G	74	315	904	46	192	974
	8·377	G	101	518	1738	61	322	1521
	9·111	K	126	607	1622	77	368	1514
	10·328	C	120	757	1071	74	465	1445
	11·451	G	246	1274	1591	177	919	1836
	12·349	G	155	1119	1548	140	1027	1607
	13·398	G	106	664	1348	150	956	1574
	14·354	G	71	302	1504	128	650	1779
	15·349	G	59	246	1264	58	256	1423
	16·409	G	81	439	1149	69	398	1799
	17·366	G	99	492	1343	81	460	1993
	18·372	G	126	556	3108	152	656	4255
	19·379	C	155	682	2556	145	632	3118
	20·406	G	173	806	3044	130	621	3257
	21·357	G	190	884	2507	129	606	2604
	22·359	C	216	1105	2166	135	705	2191
	23·431	G	330	1611	1000	185	906	1312
	24·386	G	321	1531	1164	187	899	1293
	25·411	G	250	1325	1369	156	836	1271
	26·493	G	413	1843	3586	274	1267	3318
	27·348	G	364	2051	2881	261	1524	3103
	28·543	C	319	2068	3656	297	1928	4649
	29·342	C	308	1625	3540	267	1432	4507
	30·407	C	272	1845	2644	225	1560	3418
October	1·430	G	309	1689	2125	217	1410	2459
	2·324	C	243	1518	2099	155	965	2391
	3·408	G	253	1235	1799	165	815	1934
	4·370	C	213	1234	1286	154	798	1606
	5·387	G	160	1023	559	98	640	883
	6·401	G	126	731	1035	86	502	937
	7·519	G	116	596	1072	91	532	1203
	8·535	G	46	264	1292	48	320	1788
	9·389	G	65	256	1397	58	225	1654
	10·419	G	84	413	1236	72	347	1455
	11·527	G	46	285	1122	33	202	1249
	12·337	C	97	487	1641	61	306	1797
	13·343	C	107	695	1599	147	860	2366
	14·456	G	223	1533	1138	277	2010	1723

TOTAL AREAS of SUN SPOTS and FACULÆ for EACH DAY in the YEAR 1925—*continued.*

Greenwich Mean Time.	Place.	Projected Area.			Area Corrected for Foreshortening.		
		Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1925 d							
October 15·472	G	340	2177	2244	324	2166	2893
16·335	C	377	2621	3158	349	2349	3595
17·512	G	631	3455	3029	484	2599	3608
18·483	G	953	4690	2420	559	3058	2860
19·343	C	776	4517	3436	475	2755	2757
20·447	C	720	4586	3071	442	2788	2969
21·445	G	891	4536	2000	539	2774	2108
22·426	G	775	3953	2200	492	2542	2600
23·614	G	611	3275	2824	417	2238	2716
24·389	G	414	2471	2213	304	1856	2395
25·432	G	334	1770	4013	268	1579	4966
26·324	C	198	1094	5461	218	1360	6116
27·618	G	79	579	2992	83	642	3086
28·412	G	101	430	1886	142	656	2380
29·324	C	63	306	2581	92	472	3821
30·458	G	59	385	2889	63	406	3359
31·338	C	59	304	3192	54	280	3301
Nov. 1·383	G	58	311	2613	35	186	2547
2·392	G	50	256	1042	28	140	1149
3·333	C	33	262	1298	17	134	1482
4·407	G	44	271	2252	23	139	2497
5·325	C	40	248	2225	32	215	2619
6·309	C	15	132	1257	15	130	1534
7·459	G	25	137	3445	31	158	3611
8·435	G	49	211	3747	66	277	3834
9·476	G	141	758	2825	120	674	3415
10·319	C	166	1421	1974	123	1035	2612
11·330	C	307	2176	1856	187	1336	2275
12·509	G	391	2601	2301	215	1414	2249
13·310	C	331	2229	2371	183	1195	2811
14·398	G	293	2081	2579	161	1121	2727
15·389	G	201	1464	2063	116	839	2210
16·381	C	160	1299	2279	121	960	2523
17·441	G	114	817	2598	105	758	2861
18·369	C	138	856	3210	197	1200	3980
19·308	C	186	1127	2327	219	1360	2981
20·359	C	288	1951	3281	245	1678	3811
21·418	G	548	3255	2711	388	2278	3151
22·475	G	623	4349	1989	383	2716	2376

Greenwich Mean Time.	Place.	Projected Area.			Area Corrected for Foreshortening.		
		Umbræ.	Whole Spots.	Faculæ.	Umbræ.	Whole Spots.	Faculæ.
1925 d							
Nov. 23·451	C	665	4437	1914	418	2773	2295
24·385	C	712	4815	1470	494	3386	1675
25·307	C	723	4891	2888	520	3540	3790
26·467	E	1240	5635	3638	809	3715	4423
27·434	C	574	3940	3334	388	2702	4016
28·448	G	544	3473	2858	450	2779	2627
29·361	C	340	2268	1563	381	2495	1863
30·427	G	346	1849	2502	298	1643	3016
Dec. 1·454	G	229	1227	2189	166	898	2511
2·324	C	215	1231	1571	181	1019	2066
3·341	C	172	1160	1171	165	1125	1616
4·313	C	168	904	2033	118	746	2467
5·324	C	180	863	2924	138	604	3828
6·513	C	190	1047	3391	145	789	3699
7·319	C	305	1693	2448	205	1159	3165
8·340	C	312	2123	1862	195	1321	2234
9·446	G	328	2168	2069	199	1270	2327
10·482	G	385	2381	1904	358	2169	2291
11·302	C	471	3124	3022	435	2622	3876
12·458	G	675	4281	2870	557	3351	3313
13·411	C	634	4885	2122	485	3590	2570
14·506	G	917	5185	2715	665	3758	2874
15·348	C	722	5255	3597	538	3875	3994
16·360	C	672	5395	2427	481	3651	3306
17·380	C	678	5244	2728	440	3273	3015
18·339	C	735	4461	3107	474	2911	3793
19·330	C	760	4588	3810	522	3197	3820
20·394	C	941	5120	2777	744	4134	3495
21·338	C	735	4434	4145	617	3697	4297
22·322	C	786	4318	3637	700	4183	4589
23·317	C	1020	5515	2715	960	5126	3631
24·314	C	1112	5592	3003	869	5110	3921
25·400	C	1394	7752	3450	949	5268	3605
26·466	G	1617	8603	3508	1039	5612	3317
27·355	C	1456	9032	3337	929	5662	3794
28·337	C	1483	8296	2033	902	5068	2640
29·337	C	1388	8084	1777	911	5329	2052
30·119	K	1500	7340	2588	1075	5359	2782
31·559	C	817	5221	1885	788	5180	2868

MEAN AREAS of SUN SPOTS and FACULÆ for each ROTATION of the SUN, from 1925 January 10 to 1925 December 30.

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 disc, 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 1873–1924 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 Mean 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.
954	1925	January	10·30	28	11	59	694	8	47	790
955		February	6·64	27	74	451	1021	53	321	1111
956		March	5·98	27	56	345	728	44	274	824
957		April	2·28	28	72	359	1103	56	288	1291
958		April	29·55	27	163	985	949	122	732	1129
959		May	26·77	27	170	964	1338	136	781	1575
960		June	22·97	27	96	571	1599	70	416	1851
961		July	20·17	28	82	444	1357	62	353	1589
962		August	16·39	27	137	709	1618	101	538	1871
963		September	12·64	27	199	1060	1944	152	833	2286
964		October	9·92	27	302	1700	2399	223	1298	2756
965		November	6·22	28	348	2207	2425	255	1614	2816
966		December	3·53	27	799	4729	2815	580	3438	3285

MEAN AREAS of SUN SPOTS and FACULÆ for the YEAR 1925.

The Mean Projected Areas are expressed in millionths of the Sun's apparent disc.

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.
1925	365	189	1102	1508	141	830	1750

MEAN HELIOGRAPHIC LATITUDE of SUN SPOTS for each ROTATION of the SUN, from 1925 January 10 to 1925 December 30.

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.		
						°		°	°	°
954	1925	January	10·30	28	42	22·64	5	33·56	+ 16·29	23·87
955		February	6·64	27	65	11·79	256	20·19	− 13·70	18·49
956		March	5·98	27	134	20·56	139	21·83	− 1·04	21·21
957		April	2·28	28	202	21·89	86	25·26	+ 7·76	22·90
958		April	29·55	27	683	19·30	50	19·12	+ 16·69	19·28
959		May	26·77	27	601	21·93	180	21·62	+ 11·88	21·86
960		June	22·97	27	82	19·82	334	16·16	− 9·10	16·88
961		July	20·17	28	247	22·36	106	27·50	+ 7·42	23·90
962		August	16·39	27	367	21·48	171	19·66	+ 8·38	20·90
963		September	12·64	27	417	19·07	417	19·91	− 0·42	19·49
964		October	9·92	27	518	19·32	780	18·41	− 3·34	18·77
965		November	6·22	28	1186	19·40	428	16·69	+ 9·83	18·68
966		December	3·53	27	2256	21·87	1182	19·55	+ 7·63	21·07

MEAN HELIOGRAPHIC LATITUDE of SUN SPOTS for the YEAR 1925.

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 Area.	Mean Heliographic Latitude.	Mean of Daily Areas.	Mean Heliographic Latitude.		
			°		°	°	°
1925	365	517	20·70	313	19·37	+ 5·60	20·20