

ROYAL OBSERVATORY
BULLETINS

Number 60

Photoheliographic Results 1958

LONDON: HER MAJESTY'S STATIONERY OFFICE

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ROYAL OBSERVATORY BULLETINS

JOINT PUBLICATIONS OF THE
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX
ROYAL OBSERVATORY, CAPE OF GOOD HOPE

Number 60

Photoheliographic Results 1958

Royal Greenwich Observatory
Herstmonceux Castle
Hailsham, Sussex

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1962

PHOTOHELIOGRAPHIC RESULTS 1958

INTRODUCTION

The photographs from which these measures were made were taken at the Royal Greenwich Observatory, the Royal Observatory, Cape of Good Hope, and the Kodaikanal Observatory, Southern India. Two missing days were kindly supplied by Mount Wilson Observatory, California.

The photographs of the Sun obtained at Herstmonceux were taken with the 4-inch Photoheliograph, of which the original object-glass had been replaced in 1910 by a Grubb photographic objective. The equivalent focal length of the photoheliograph with its present enlarging system (supplied in 1926 by Ross, Ltd.) is $67\frac{1}{2}$ feet, the diameter of the Sun's image at the secondary focus being approximately $7\frac{1}{2}$ inches. On 1949 May 2 this photoheliograph was moved from Greenwich to Herstmonceux Castle, Sussex.

The photographs of the Sun obtained at the Cape Observatory were taken under the superintendence of Her Majesty's Astronomer at the Cape, Dr. R. H. Stoy, and those from Kodaikanal under the superintendence of the Director, Dr. A. K. Das. At the Cape Observatory the instrument employed was a 4-inch photoheliograph giving an image of the Sun about $7\frac{1}{2}$ inches in diameter; at Kodaikanal a Cooke photo-visual objective of 6 inches aperture was used, the image of the Sun which was obtained being of about the same size.

Photographs of the Sun were available for measurement on 365 days in 1958, those finally selected for measurement being supplied by the different observatories as under:

Herstmonceux	..	..	..	..	275
Cape	..	..	..	..	85
Kodaikanal	..	..	..	..	3
Mount Wilson	..	..	..	..	2
Total	..	..	..	..	365

The names of the measurers of the photographs for the year 1958 were as follows:

H. Barton	A. S. Milsom	Miss B. J. Denman
P. S. Laurie	N. S. C. Rhodes	

At the primary focus of the photoheliographs at Herstmonceux and the Cape two spider-wires are fixed by which the zero of position-angles on the photographs can be determined. These wires are inclined at an angle of 45° to the celestial equator. In the Kodaikanal instrument there is one wire fixed parallel to the equator.

The precise zero of position-angles for the photoheliographs has been determined by three different methods.

(i) *Zero Photographs.* Plates were 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 thus produced upon the plates. The exposures were so made that the line joining the cusps passed approximately through the centre of the plates and the inclinations of the two spider-wires to this line were measured. A small correction for the inclination of the Sun's path has been applied. Two or three zero photographs were usually taken each month at Herstmonceux, the Cape, and Kodaikanal.

(ii) *Transits.* At Herstmonceux and the Cape, transits of the Sun were taken visually, the times of contact of the first and second limbs of the Sun with the two wires being noted by an eye-and-ear method. The ratio of the time taken by the Sun to pass over the NE - SW wire to the time taken to pass over the SE - NW wire was used in order to find the angle made by the Sun's path with the bisectors of the wires. From this, again incorporating a correction to allow for the inclination of the Sun's path, the orientation of the wires with respect to the N - S line could be inferred. Transits were usually taken at Herstmonceux and the Cape on four or more days during each month.

(iii) *Supplementary Zero Photographs.* At Herstmonceux supplementary partial images of the Sun were occasionally recorded on otherwise normal photographs, a second exposure being made after

clamping the instrument firmly for 130 seconds. The small portion of the Sun's limb visible at the western edge of the plate could be used, together with the main image which it does not intersect, to deduce the orientation of the wires in a way similar to that used for the zero photographs. Six to ten supplementary zero photographs were taken at Herstmonceux each month. The values for the zero of position-angles deduced from them were given half weight in the adoption of zero-corrections to be used in the reduction of photographs.

The measures of the photographs were made with a large position-micrometer that can be used for 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 a similar screw-action about a pivot in its circumference. This pivot, 90° distant from that of the upper plate, is mounted on a third circular plate, with a position-circle graduated in divisions of 30 minutes of arc, which may be rotated 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 centre of rotation of the position-circle. When this has been done, a Ramsden eyepiece, having at its anterior 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 adjusted so that the centre of the eyepiece moves diametrically across the photograph, the diaphragm being nearly in contact with the photographic film, so that parallax is negligible. The distance of a spot or facula from the centre of the disk is read from a scale and vernier to $1/250$ th of an inch, corresponding to 0.001 of the Sun's radius for images 8 inches in diameter. The position-angle is read from 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° below the photograph.

In the case of large or complex groups of spots, the chief components were measured individually; so also in the case of groups near to the east or west limbs of the Sun where the effects of foreshortening are appreciable. In other cases the position of the centre of a group was estimated by the measurer at the micrometer.

When required, corrections have been applied to the measured distances and position-angles to allow for differential refraction. The details of this correction were given in the *Introduction to the Greenwich Photo-Heliographic Results for 1909*. It is necessary to apply this correction to about twenty per cent of the photographs taken at Herstmonceux in the months October to March.

§1. *Positions and Areas of Sunspots for each Day in the Year 1958, page C 191*

In this section the measured positions and areas of sunspots are given for each day. The positions of sunspots are referred firstly to a system of apparent polar co-ordinates on the Sun's disk and secondly to a system of heliographic co-ordinates.

The calculations of heliographic longitude and latitude are made from formulæ given by W. de la Rue, B. Stewart and B. Loewy, *Phil. Trans.*, 1869. The system of heliographic co-ordinates may be defined as follows. The inclination of the Sun's axis to the ecliptic is assumed to be $82^\circ 45'$, the longitude of the ascending node of the Sun's equator on the ecliptic for 1958.0 to be $75^\circ 10'.4$, and the period of the Sun's sidereal rotation to be 25.38 days. The meridian which passed through the ascending node on 1854 January 1, Greenwich mean noon, is taken as the zero meridian and longitudes increase from east to west. The mean synodic rotation-period is 27.2753 days; synodic rotation periods are counted from 1853 November 9, in continuation of Carrington's series.

Let r be the measured distance of a spot from the centre of the Sun's apparent disk and χ the position-angle of the spot from the Sun's axis, R the measured radius of the Sun on the photograph, S the tabular semi-diameter of the Sun in arc, and ρ, ρ' the angular distances of a spot from the centre of the apparent disk, as viewed from the Sun's centre and from the Earth respectively. ρ - the heliocentric angle - is obtained from the following equations:

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

If B_0 and ϕ are the heliographic latitudes and L_0 and λ the heliographic longitudes of the Earth and the spot respectively,

$$\begin{aligned}\sin \phi &= \cos \rho \sin B_0 + \sin \rho \cos B_0 \cos \chi \\ \sin (L_0 - \lambda) &= \sin \chi \sin \rho \sec \phi\end{aligned}$$

χ is found from the position-angle measured eastwards from the north point of the Sun's disk by subtracting P , the position-angle of the north end of the Sun's axis also measured eastwards from the north point. The three quantities P , B_0 and L_0 for the time of the exposure of each photograph are derived from the *Ephemeris for Physical Observations of the Sun*, given on p. 350 of the *Nautical Almanac* for 1958.

§2. *General Catalogue of Groups of Sunspots for 1958, page C 261*

This catalogue first contains particulars of every group of sunspots which lasted for two or more days during 1958. The group numbers are in continuation of those given in 1957 and previous years. The table includes an indication of those groups which may be considered to be members of 'recurrent series' of groups.

Spot groups seen on one day only are given in a separate table, where they receive a distinctive numeration.

Recurrent groups were selected upon the following plan, reference being made to the General Catalogue:- If any spot when first seen was 60° or more to the east of the central meridian, the catalogue and, if necessary, the Daily Results also (§1), were searched some fifteen to 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, a search was made fifteen to sixteen days later. When there appeared to be a case of probable continuity between groups in consecutive rotations of the Sun, the character of the groups, their areas and their longitude and latitude have been carefully compared before accepting them as a recurrent group.

§3. *Total Areas, Mean Areas and Mean Heliographic Latitudes of Sunspots and Faculae in the Year 1958, page C 285*

This section contains total areas of sunspots and faculae (the latter separated in west and east hemispheres) for each day in the year, together with mean areas and mean heliographic latitudes of sunspots and faculae for each Rotation of the Sun during 1958. Similar annual mean values are also given.

Observations made with the Spectrohelioscopes of Solar Filaments and Solar Flares are no longer published in this *Bulletin*. The latter appear in the *Quarterly Bulletin on Solar Activity* published under the auspices of the International Astronomical Union.

POSITIONS AND AREAS OF SUNSPOTS
FOR EACH DAY
IN THE YEAR 1958

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR 1958

Col. 1. Date and decimal of a day reckoned from midnight. Number of spot group in order of appearance and in continuation of the group numbers given in *Royal Observatory Bulletin* No. 26. Small letters beneath the number of a spot group indicate the principal and most stable components of that group. (The areas of such components are already included in the total area of the group.) Groups seen on one day only are distinguished by the number of the rotation during which they were observed and by a letter giving the order of their appearance.

In line with the date of each day is given in brackets for the time of photograph, the position angle of the Sun's axis from the north point and the heliographic longitude and latitude of the centre of the disk.

Col. 2. Distance of spot group from Sun's centre in terms of the Sun's radius.

Col. 3. Position angle of spot group measured from the north pole of the Sun's axis in the direction N., E., S., W., N.

Col. 4. Heliographic longitude of the spot group derived from the measures.

Col. 5. Heliographic latitude of the spot group similarly derived.

Col. 6. Area of umbræ corrected for foreshortening and expressed in millionths of the Sun's visible hemisphere.

Col. 7. Area of whole spots composing the group similarly expressed.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		o	o	o			1958		o	o	o		
Jan. 1. 468		(+2.0)	(151.3)	(- 3.1)			Jan. 3. 464 <i>continued</i>						
18425	.984	276.0	230.4	+ 5.3	0	11	18434	.684	309.4	159.9	+23.0	1	7
18413	.968	251.5	226.8	-18.7	22	102	18431	.560	250.0	157.7	-13.8	2	20
18415	.925	285.8	217.2	+13.3	24	250	18428	.416	359.6	125.2	+21.2	9	62
18417	.842	269.5	208.5	- 2.1	14	86	18430	.359	7.8	122.1	+17.5	59	302
18427	.601	234.0	183.1	-23.3	63	471	18432	.286	153.9	117.4	-18.1	18	88
18422	.441	255.9	177.2	- 9.0	36	243	18440	.414	142.8	109.4	-22.3	38	154
18423	.484	218.1	170.5	-25.2	1	9	18436	.599	79.0	89.0	+ 3.9	25	133
18424	.435	322.8	167.2	+17.2	57	309	18435	.775	44.0	86.1	+31.2	15	68
18431	.205	218.6	158.8	-12.2	6	26	18437	.732	117.4	80.7	-22.0	1	7
18434	.460	351.8	155.4	+23.9	6	34	18438	.775	71.2	76.5	+12.2	161	865
18428	.569	44.3	126.2	+21.1	15	71	18439	.781	109.2	74.7	-17.0	24	126
18430	.592	53.6	121.4	+17.8	33	269							
18432	.621	115.2	115.3	-17.8	39	234	Jan. 4. 277		(+0.7)	(114.3)	(- 3.4)		
18433	.657	94.6	110.3	- 5.3	4	28	18427	.932	245.7	182.2	-23.8	47	504
18435	.933	55.1	88.5	+30.8	15	77	18422	.899	261.5	178.3	- 9.1	37	186
18436	.899	84.5	87.8	+ 3.6	10	71	18424	.825	293.9	166.3	+17.4	55	267
18437	.945	112.2	80.9	-22.0	3	23	18434	.787	303.1	159.9	+23.0	3	17
18438	.955	77.2	79.8	+11.2	103	600	18431	.678	254.7	156.2	-12.8	4	21
18439	.970	106.2	75.3	-16.4	24	192	18428	.448	337.5	124.8	+21.0	15	62
							18430	.379	339.5	122.3	+17.3	41	266
Jan. 2. 390		(+1.6)	(139.2)	(- 3.2)			18432	.265	190.5	117.2	-18.4	12	54
18415	.982	284.4	217.0	+13.5	34	228	18440	.338	166.7	109.5	-22.5	25	206
18417	.938	268.6	208.8	- 2.5	11	69	18436	.408	72.8	91.4	+ 3.8	24	100
18427	.727	240.0	182.4	-23.6	90	710	18435	.706	36.8	84.7	+31.3	11	77
18422	.624	259.4	177.5	- 9.1	36	206	18438	.641	67.1	77.4	+11.7	87	800
18424	.566	307.9	167.0	+17.5	60	305	18439	.657	113.7	75.3	-17.9	23	139
18431	.381	245.0	159.8	-12.2	2	11	18441	.970	118.6	38.7	-28.6	16	67
18434	.532	331.6	155.3	+24.7	6	36	18442	.980	107.8	35.6	-18.1	20	262
18428	.468	27.7	125.8	+21.3	14	67	a	.970	107.5	38.2	-17.8	20	160
18430	.454	39.0	121.8	+17.5	70	426							
18432	.439	125.4	117.2	-17.6	33	143	Jan. 5. 301		(+0.2)	(100.8)	(- 3.5)		
18433	.421	97.4	114.5	- 6.0	2	19	18427	.985	246.2	181.2	-24.0	37	697
18440	.584	126.4	108.6	-23.0	12	50	18422	.976	261.4	178.4	- 9.2	43	250
18435	.857	50.6	88.9	+30.9	8	48	18424	.925	290.6	165.8	+17.5	55	269
18436	.784	83.0	88.2	+ 3.4	23	127	18431	.817	256.5	155.2	-13.0	2	12
18437	.862	113.6	81.1	-21.8	2	15	18428	.555	317.6	124.3	+20.9	8	50
18438	.890	74.6	78.1	+12.1	122	704	18430	.495	314.2	122.5	+16.9	34	218
18439	.904	106.6	75.0	-16.3	29	165	18432	.376	225.1	117.1	-18.7	5	29
							18440	.359	203.3	109.6	-22.6	34	124
Jan. 3. 464		(+ 1.0)	(125.0)	(- 3.3)			18436	.236	58.3	89.2	+ 3.7	17	85
18427	.855	243.7	181.8	-24.0	95	558	18435	.599	19.8	87.2	+30.7	8	42
18422	.796	261.0	177.6	- 9.1	48	219	18443	.529	48.4	76.4	+17.3	2	9
18424	.722	298.4	166.6	+17.6	56	299	18438	.486	58.4	75.9	+11.5	81	827
						<i>continued</i>							<i>continued</i>

- Group 18435. Jan. 1 - 7. A single small spot until January 3, when other spots appear, forming a stream.
- Group 18436. Jan. 1 - 9. A small spot, with intermittent companions.
- Group 18437. Jan. 1 - 3. A small spot, the return of Group 18378.
- Group 18438. Jan. 1 - 11. Return of Group 18388. A scattered stream until January 8; two spots from January 9.
- Group 18439. Jan. 1 - 12. A cluster of small spots, of which only one remains from January 8.
- Group 18440. Jan. 2 - 8. A cluster of small spots.
- Group 18441. Jan. 4 - 16. A single spot on January 4, developing into a small stream of which only the leader remains by January 13.
- Group 18442. Jan. 4 - 15. A pair of regular spots, of which the follower breaks up and disappears by January 13.
- Group 18443. Jan. 5 - 12. A few variable spots, forming a stream by January 8.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots
1958	°	°	°				1958	°	°	°			
Jan. 5.301	<i>continued</i>												
18439	.474	120.6	75.6	-17.1	21	70	18428	.928	294.4	124.9	+20.9	3	17
18444	.878	71.6	41.7	+14.3	4	22	18430	.913	289.3	123.7	+15.8	11	80
18441	.918	119.9	35.9	-28.7	23	69	18440	.757	241.9	106.9	-23.6	13	62
18442	.910	107.7	35.6	-17.6	56	302	18436	.502	283.6	89.4	+ 3.3	2	38
a	.896	107.6	37.6	-17.3	35	174	18443	.456	320.6	77.8	+16.8	8	56
18445	.988	100.4	19.5	-10.8	58	484	18439	.348	224.5	75.1	-18.1	6	32
							18438	.360	316.2	75.0	+11.2	69	604
							18447	.572	177.5	58.5	-38.6	36	143
Jan. 6.280	(-0.3)	(88.0)	(- 3.7)				18441	.574	138.7	34.7	-29.0	47	223
18424	.983	288.5	165.4	+17.4	35	277	18442	.491	120.4	34.0	-17.8	31	287
18428	.696	305.5	125.2	+20.9	7	37	a	.429	121.9	38.1	-16.6	14	125
18430	.647	300.8	123.2	+16.3	22	216	18445	.652	103.3	20.1	-11.6	140	764
18432	.539	238.3	117.0	-19.6	5	12	18448	.729	110.5	14.8	-17.5	9	61
18440	.472	225.7	109.4	-22.6	25	108	18446	.880	58.0	4.7	+25.5	36	176
18436	.136	343.5	90.2	+ 3.8	15	74							
18435	.561	2.8	86.1	+30.2	5	26							
18443	.378	20.7	80.0	+16.9	3	9	Jan. 9.447	(-1.9)	(46.2)	(- 4.0)			
18438	.333	40.3	75.4	+11.0	114	815	18436	.726	279.6	91.9	+ 4.1	8	39
18439	.326	137.7	74.8	-17.5	9	37	18443	.595	306.6	76.1	+17.3	16	135
18444	.748	67.5	42.8	+14.0	3	27	18439	.529	241.0	75.2	-18.3	6	33
18441	.814	123.5	37.3	-29.0	16	105	18438	.525	295.8	74.7	+ 9.7	36	331
18442	.803	109.1	35.5	-17.5	46	278	18447	.588	194.0	56.7	-38.6	26	208
a	.780	108.7	37.7	-16.9	17	144	1395k	.219	54.0	36.0	+ 3.4	1	7
18445	.932	100.5	19.2	-11.1	83	815	18442	.283	142.7	35.9	-16.9	44	220
18446	.993	63.9	7.6	+25.3	24	118	a	.260	148.0	38.0	-16.6	27	149
							18441	.458	157.3	34.6	-28.8	35	212
							18449	.587	33.0	25.5	+25.6	1	8
Jan. 7.471	(-0.9)	(72.3)	(- 3.8)				18445	.446	107.5	20.6	-11.3	113	814
18428	.844	297.9	125.1	+20.9	2	16	18448	.542	116.5	15.8	-17.4	19	86
18430	.816	292.5	123.6	+15.8	13	108	18446	.751	51.2	6.4	+24.3	26	179
18432	.722	246.5	116.7	-19.4	1	11	18450	.892	59.4	348.6	+24.8	12	62
18440	.647	239.7	109.2	-22.1	10	46	18451	.972	59.0	334.4	+28.8	31	222
18436	.316	295.6	88.8	+ 4.2	4	38	18452	.965	112.6	331.2	-22.9	21	196
18435	.596	345.1	82.6	+31.3	2	11							
18439	.246	197.1	76.6	-17.3	13	56							
18443	.371	352.4	75.2	+17.6	8	29	Jan.10.283	(-2.3)	(35.2)	(- 4.1)			
18438	.265	350.7	74.8	+11.3	94	686	18443	.723	298.2	76.8	+16.9	31	242
18447	.594	164.7	60.8	-38.5	17	64	18439	.673	246.5	75.7	-18.7	7	21
18444	.557	58.2	43.3	+13.7	1	21	18438	.662	288.9	74.4	+ 9.1	16	230
18441	.679	130.3	36.1	-29.1	19	122	18447	.636	205.3	55.5	-38.8	30	226
18442	.643	113.6	34.2	-17.9	64	279	18453	.650	340.5	50.3	+33.7	5	29
a	.593	113.4	37.8	-16.7	31	125	1395l	.244	238.5	47.4	-11.3	1	3
18445	.786	100.9	20.7	-10.9	115	679	18442	.232	176.9	34.4	-17.5	32	197
1395j	.815	72.5	19.9	+11.8	0	5	a	.223	191.9	37.7	-16.7	21	101
18446	.941	61.7	6.5	+24.9	35	126							

continued

- Group 18444. Jan. 5 - 7. A few small spots.
Group 18445. Jan. 5 - 17. A complex group, at first scattered, becoming more compact during its disk passage. A leading regular spot persists throughout.
Group 18446. Jan. 6 - 18. A regular spot, with a few variable companions.
Group 18447. Jan. 7 - 12. A small stream.
Group 18448. Jan. 8 - 17. A few scattered spots.
Group 18449. Jan. 9 - 11. A tiny spot, not seen on January 10.
Group 18450. Jan. 9 - 17. A cluster of small spots, developing into a stream which breaks up after January 16.
Group 18451. Jan. 9 - 20. A regular spot, with one or two intermittent companions.
Group 18452. Jan. 9 - 21. A regular spot, with small companions on January 14 and 17.
Group 18453. Jan. 10 - 11. Two tiny spots on January 10; a single spot on the next day.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°	°	°	°			1958	°	°	°	°		
Jan. 10. 283	<i>continued</i>						Jan. 12. 404	<i>continued</i>					
18441	.425	177.7	34.1	-29.1	31	281	18441	.575	223.7	34.0	-28.3	34	194
18445	.271	118.4	21.2	-11.4	101	766	18445	.275	241.2	21.5	-11.8	133	766
18448	.401	127.7	15.8	-18.1	16	96	18448	.299	219.3	18.7	-17.6	2	12
18446	.654	43.5	5.6	+24.7	33	154	18446	.483	3.3	5.6	+24.4	23	135
18454	.684	116.3	354.4	-20.7	13	53	18454	.364	144.8	354.3	-21.4	13	82
18450	.812	55.9	347.8	+24.3	28	220	18461	.492	32.5	351.0	+20.3	13	77
1395m	.789	105.8	343.6	-15.0	5	11	18450	.564	32.7	347.9	+24.2	31	308
18451	.921	56.4	334.5	+28.6	37	271	18451	.721	42.3	333.9	+28.6	40	291
18455	.901	73.8	333.0	+12.7	5	22	18452	.650	120.9	330.2	-22.9	27	166
18452	.903	113.3	331.3	-22.8	24	172	18456	.724	64.0	324.9	+15.7	5	21
18456	.951	72.8	325.3	+15.0	3	13	1395o	.718	114.8	323.4	-20.5	1	5
18457	.987	94.5	314.4	- 5.1	30	227	18459	.765	97.8	317.4	- 8.7	53	323
							18457	.791	93.1	315.1	- 5.1	40	204
							18460	.922	73.7	302.1	+13.2	210	1230
Jan. 11. 399	(-2.8)	(20.5)	(- 4.2)				a	.896	73.3	305.9	+12.8	148	756
18439	.831	249.8	75.9	-19.0	4	18	b	.969	73.9	293.5	+14.4	52	436
18443	.855	293.3	75.7	+17.3	13	115							
18438	.834	284.3	75.3	+ 9.4	12	91	Jan. 13. 477	(-3.8)	(353.2)	(- 4.4)			
18447	.724	216.8	54.2	-38.8	15	114	18458	.862	303.8	45.9	+26.0	6	28
18453	.736	325.7	50.3	+33.6	1	11	18442	.709	251.2	37.4	-16.3	8	45
18458	.619	322.3	45.2	+25.4	3	10	a	.709	251.2	37.4	-16.3	8	45
18442	.332	226.2	34.9	-16.7	23	188	18441	.729	234.7	35.5	-28.2	33	188
a	.360	233.6	38.0	-16.3	16	108	18445	.503	253.4	22.6	-12.1	110	740
18441	.469	207.6	34.8	-28.6	46	254	18448	.444	235.8	15.9	-18.5	11	73
18449	.492	355.1	23.1	+25.0	2	11	18446	.523	340.7	4.2	+25.1	45	174
1395n	.278	353.1	22.4	+11.8	4	16	18454	.303	180.7	353.4	-22.0	5	29
18445	.125	185.1	21.1	-11.4	90	608	18461	.425	8.2	349.5	+20.4	20	128
18448	.255	157.0	14.5	-17.8	16	72	18450	.498	9.6	348.0	+24.9	28	337
18446	.535	26.4	5.4	+24.5	25	136	18451	.618	28.7	333.5	+28.6	48	231
18454	.497	126.2	355.2	-20.9	18	86	18452	.491	131.8	329.9	-23.1	30	148
18450	.677	46.0	348.3	+24.4	33	194	18456	.563	54.6	324.9	+15.1	12	67
18455	.756	68.8	334.4	+12.9	2	10	18459	.604	99.2	316.2	- 9.0	57	392
18451	.825	50.7	334.0	+28.6	61	302	18457	.619	91.8	315.0	- 4.5	62	213
18452	.785	116.2	330.8	-23.0	24	163	18460	.803	70.2	302.6	+12.9	222	1474
18456	.877	71.4	321.8	+14.4	2	7	a	.768	69.4	305.9	+12.8	164	895
18459	.891	97.1	317.4	- 8.3	31	164	b	.888	71.0	293.2	+14.6	58	579
18457	.911	93.9	314.8	- 5.3	36	203	1396a	.947	113.4	282.1	-23.5	0	3
18460	.976	75.5	304.7	+13.1	162	680	18462	.967	66.6	281.3	+21.2	12	25
a	.976	75.5	304.7	+13.1	162	680							
Jan. 12. 404	(-3.3)	(7.3)	(- 4.3)				Jan. 14. 566	(-4.3)	(338.8)	(- 4.5)			
18443	.951	290.0	76.7	+17.5	17	94	18442	.853	253.5	37.0	-16.4	4	23
18439	.931	251.1	75.8	-19.1	3	15	a	.853	253.5	37.0	-16.4	4	23
18447	.820	222.8	53.7	-39.9	6	40	18441	.855	239.5	35.3	-28.2	21	182
18458	.749	310.4	46.4	+25.7	8	44	18445	.689	257.8	22.1	-11.7	123	1066
18442	.505	242.0	35.0	-17.5	18	88	18448	.623	246.1	15.5	-18.2	20	145
a	.534	245.8	37.7	-16.3	13	53	18446	.620	320.4	4.4	+24.4	31	163
						<i>continued</i>							<i>continued</i>

- Group 18454. Jan. 10 - 19. A small stream, of which the leader becomes a regular spot on January 16. The rear component has died out by January 19.
- Group 18455. Jan. 10 - 11. A small spot.
- Group 18456. Jan. 10 - 17. A few variable spots.
- Group 18457. Jan. 10 - 20. Return of Group 18419. A stable spot until January 16, after which it begins to die out.
- Group 18458. Jan. 11 - 13. A single small spot on January 11 and 12; a single spot on January 13.
- Group 18459. Jan. 11 - 21. A stream, led by a regular spot.
- Group 18460. Jan. 11 - 23. A large bi-polar group, of which the rear component dies out as it approaches the limb.
- Group 18461. Jan. 12 - 17. A long stream for two days, contracting into a composite spot.
- Group 18462. Jan. 13 - 18. A small spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots
1958		o	o	o			1958		o	o	o		
Jan. 14. 566	continued						Jan. 16. 283	continued					
18454	.371	209.2	350.1	-23.3	12	67	18466	.746	255.4	4.1	-14.0	2	10
18450	.518	342.2	348.8	+25.0	51	400	18454	.641	240.1	353.0	-22.3	47	217
18461	.441	341.6	347.3	+20.2	22	171	18450	.693	314.5	349.2	+25.1	26	192
18451	.555	9.1	333.1	+28.6	31	230	18461	.639	311.3	347.0	+20.9	32	314
13966	.231	151.3	332.2	-16.1	4	21	18451	.591	336.3	331.8	+28.1	24	188
18452	.353	154.7	329.4	-23.0	29	201	18452	.381	211.9	328.8	-23.4	22	157
18456	.404	33.1	325.6	+15.3	3	46	18456	.359	334.4	325.4	+14.1	7	32
18459	.381	104.1	316.9	- 9.5	70	475	18459	.081	207.3	318.3	- 8.8	47	324
18457	.401	90.8	315.2	- 4.5	40	197	18457	.013	65.1	315.5	- 4.4	25	113
18463	.566	50.8	311.6	+16.9	2	23	18463	.336	22.7	308.6	+13.4	1	7
18460	.650	64.3	302.0	+12.7	283	1476	18467	.220	124.2	305.5	-11.7	9	50
a	.602	63.2	305.6	+11.9	201	897	18460	.388	40.7	301.2	+12.5	245	1312
b	.759	66.3	293.1	+14.6	82	579	a	.325	33.5	305.7	+11.0	182	844
18462	.896	62.4	280.0	+22.2	4	50	b	.497	48.7	293.6	+14.8	63	468
18464	.987	68.0	261.4	+20.8	67	406	18462	.688	50.7	281.3	+21.9	6	28
18465	.975	105.0	261.2	-15.6	9	53	18465	.832	105.8	260.2	-15.7	2	15
							18464	.874	63.1	260.0	+20.7	47	386
							18468	.968	63.3	244.8	+24.3	4	33
Jan. 15. 287		(-4.6)	(329.3)	(- 4.6)			18469	.961	83.9	243.0	+ 4.5	0	7
18442	.933	254.0	38.4	-16.6	3	14	18470	.960	106.3	242.1	-16.9	7	33
a	.933	254.0	38.4	-16.6	3	14							
18441	.923	241.0	35.7	-28.4	19	146	Jan. 17. 282		(-5.6)	(303.1)	(- 4.8)		
18445	.795	257.8	21.8	-12.5	94	786	18445	.983	258.3	23.1	-12.4	120	672
18448	.735	249.0	15.5	-18.5	9	62	18448	.965	251.6	18.3	-19.0	0	11
18446	.705	311.2	4.6	+23.8	26	117	18466	.895	257.0	6.7	-13.8	26	118
18454	.454	224.4	349.4	-23.2	15	69	18446	.914	298.4	4.1	+23.5	18	122
18450	.576	328.0	348.9	+24.8	23	140	18454	.778	245.0	352.6	-22.3	42	285
18461	.516	326.2	347.5	+20.9	27	212	18450	.798	307.2	347.7	+25.4	5	33
18451	.548	354.7	332.6	+28.4	26	188	18461	.774	302.0	347.5	+20.8	11	60
18452	.325	179.2	329.0	-23.5	25	173	18451	.682	322.4	331.2	+28.4	26	192
18456	.342	13.4	324.6	+14.8	1	7	18452	.514	230.6	328.6	-23.3	19	122
18459	.205	111.6	318.3	- 8.9	43	292	18456	.487	311.2	325.2	+14.2	5	24
18457	.242	90.4	315.3	- 4.6	28	154	18459	.288	255.1	319.4	- 8.8	43	244
18463	.463	44.4	309.8	+14.9	9	46	18457	.219	269.8	315.7	- 4.8	15	67
18460	.534	57.6	301.9	+12.5	194	1187	18467	.134	200.2	305.8	-12.0	6	57
a	.477	55.3	305.8	+11.5	130	800	18460	.290	3.6	302.0	+11.9	204	1146
b	.645	61.0	293.8	+14.5	64	387	a	.271	350.0	305.8	+10.6	144	847
18462	.816	58.8	280.7	+21.9	5	22	b	.368	24.7	294.0	+14.7	60	299
18465	.927	104.6	261.2	-15.2	3	31	18462	.557	38.4	281.4	+21.3	4	17
18464	.956	66.5	259.7	+20.9	32	323	18465	.693	108.6	260.1	-16.3	3	10
Jan. 16. 283		(-5.1)	(316.2)	(- 4.7)			18464	.767	57.6	259.4	+20.7	67	277
18441	.980	241.8	35.4	-28.6	15	212	18468	.884	59.4	246.8	+24.1	11	65
18445	.911	258.3	22.0	-12.6	90	861	18469	.873	82.0	244.1	+ 4.6	4	19
18448	.858	250.6	14.8	-19.0	13	80	18470	.886	107.7	240.9	-17.9	2	16
18446	.822	303.5	4.5	+23.8	33	157	18471	.949	63.8	235.7	+23.0	22	162
							18472	.972	60.1	231.5	+27.5	45	220
						continued							continued

- Group 18463. Jan. 14 - 16. A few small variable spots.
Group 18464. Jan. 14 - 26. A stable regular spot.
Group 18465. Jan. 14 - 17. A small spot.
Group 18466. Jan. 16 - 18. A single spot on January 16 and 18; two spots on January 17.
Group 18467. Jan. 16 - 18. A stream of small faint spots.
Group 18468. Jan. 16 - 27. Return of Group 18408. One or two spots on the first four days, developing into a scattered stream which is dying out as it approaches the limb.
Group 18469. Jan. 16 - 20. A small spot until January 19; a pair on January 20.
Group 18470. Jan. 16 - 19. One or two tiny spots.
Group 18471. Jan. 17 - 24. A short stream, of which the rear component coalesces with Group 18472 by January 19. The remainder, consisting of a regular spot with one or two companions, disintegrates and dies out.
Group 18472. Jan. 17 - 28. A regular spot, with occasional companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Umb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Umb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Jan. 17. 282	<i>continued</i>						Jan. 19. 284	<i>continued</i>					
18473	.950	101.3	231.0	-12.2	6	36	18468	.682	45.7	244.5	+24.1	4	34
18474	.982	68.0	226.9	+20.5	16	98	18469	.566	74.5	243.7	+ 4.5	2	16
18475	.981	109.6	223.3	-20.2	25	179	18470	.581	112.5	242.7	-17.0	2	13
							18471	.727	52.5	238.3	+22.3	26	165
Jan. 18. 383		(-6.1)	(288.6)	(- 4.9)			18473	.721	102.4	230.8	-12.4	4	42
18466	.982	256.8	8.4	-13.9	18	153	18472	.827	51.7	229.9	+27.4	55	250
18446	.981	295.5	3.8	+23.8	18	149	18474	.813	60.9	227.8	+20.0	11	85
18454	.916	249.2	354.8	-21.0	38	184	18475	.816	111.1	222.8	-20.1	22	114
1396c	.843	258.5	346.1	-12.3	2	22	18478	.925	56.1	215.8	+28.7	38	294
1396d	.818	251.6	343.0	-17.8	0	19							
18451	.790	312.3	330.1	+28.4	19	156	Jan. 20. 569		(-7.1)	(259.8)	(- 5.1)		
18452	.681	240.8	328.7	-23.1	25	116	18451	.969	301.3	330.2	+28.6	12	107
18459	.530	262.9	320.5	- 7.9	34	219	18452	.930	247.3	328.3	-23.0	15	78
18457	.455	270.2	315.6	- 4.2	8	60	18459	.876	264.8	321.0	- 7.0	15	163
18467	.313	244.8	305.4	-12.3	3	27	18457	.832	267.5	316.1	- 4.9	4	17
18460	.380	317.9	303.6	+11.6	208	1071	1396f	.785	298.9	306.2	+18.8	0	3
a	.396	312.2	305.9	+10.7	177	879	18460	.733	290.7	304.0	+11.3	233	1141
b	.349	343.2	294.6	+14.5	31	192	a	.754	289.1	306.1	+10.7	217	1033
18462	.463	15.4	281.0	+21.5	0	2	b	.651	298.3	295.8	+13.8	16	108
18476	.508	42.6	267.6	+17.3	2	14	18479	.369	205.5	269.8	-24.4	18	75
18464	.632	46.9	259.0	+21.3	81	218	18464	.453	3.1	258.3	+21.7	59	282
1396e	.715	51.7	251.4	+22.3	0	3	18480	.678	4.9	255.6	+37.2	12	49
18477	.812	45.0	246.5	+31.4	3	20	18477	.630	18.4	246.3	+31.6	13	83
18468	.786	53.5	244.9	+24.3	9	25	18468	.535	25.9	245.1	+23.7	8	70
18469	.723	78.8	243.4	+ 4.6	5	9	18469	.368	57.7	241.6	+ 6.4	1	10
18470	.752	109.3	240.6	-17.7	5	16	18471	.570	37.9	237.7	+21.9	37	172
18471	.850	59.3	236.4	+22.7	32	179	18473	.505	105.9	230.1	-12.4	25	83
18473	.839	101.5	231.5	-12.3	4	12	18472	.686	40.3	230.0	+27.0	40	267
18472	.908	56.1	230.3	+27.9	29	178	18474	.639	50.3	228.5	+19.6	8	35
18474	.909	65.0	227.4	+20.2	13	68	18475	.630	115.9	222.9	-20.0	7	87
18475	.909	109.9	223.3	-20.1	15	73	18478	.826	49.9	213.9	+28.6	45	281
18478	.973	59.4	216.9	+28.2	32	298	18481	.941	105.9	189.2	-16.6	0	9
							18482	.978	97.5	181.5	- 8.4	21	82
Jan. 19. 284		(-6.5)	(276.7)	(- 5.0)			Jan. 21. 508		(-7.5)	(247.4)	(- 5.2)		
18454	.979	250.0	355.7	-20.5	36	437	18452	.982	247.5	327.6	-23.1	5	28
18451	.881	306.2	330.4	+28.4	20	141	18459	.959	264.5	321.1	- 6.7	19	132
18452	.801	244.3	328.4	-23.4	35	139	18460	.863	286.3	304.8	+11.2	215	955
18459	.696	264.3	320.8	- 7.6	17	209	a	.877	285.7	306.5	+11.1	203	890
18457	.629	268.3	315.7	- 5.0	8	43	b	.789	292.3	296.0	+13.9	12	65
18460	.520	301.5	303.5	+11.2	218	1113	18479	.478	224.7	269.0	-24.6	31	196
a	.547	298.1	306.0	+10.5	202	967	18464	.483	339.9	257.7	+21.8	63	280
b	.441	316.9	294.7	+13.9	16	146	18480	.674	351.6	254.4	+36.5	5	21
18476	.429	25.3	265.6	+17.8	2	23	18477	.588	359.7	247.6	+30.7	21	145
18464	.526	33.3	258.7	+21.2	59	327	18468	.483	3.3	245.7	+23.5	10	119
18477	.741	36.9	245.2	+31.9	21	119							

*continued**continued*

- Group 18473. Jan. 17 - 25. Intermittent. A small spot, developing into a short-lived stream, of which only one spot remains by January 23.
- Group 18474. Jan. 17 - 24. A small regular spot, which splits into two parts on January 21.
- Group 18475. Jan. 17 - 28. A small persistent spot.
- Group 18476. Jan. 18 - 23. Intermittent. One or two tiny spots.
- Group 18477. Jan. 18 - 24. Two small spots on January 18, developing into a short stream of which only the leader remains on January 24.
- Group 18478. Jan. 18 - 29. A stable regular spot, decreasing in area as it crosses the disk. There are a few companions on January 20.
- Group 18479. Jan. 20 - 26. A stream, developing west of the central meridian.
- Group 18480. Jan. 20 - 24. A pair of widely-separated spots, of which only the leader remains on January 24.
- Group 18481. Jan. 20 - 31. A small spot on January 20, developing into a stream. The leader, a composite spot, splits into two on January 26 and the whole group is dying out as it passes round the limb.
- Group 18482. Jan. 20-Feb. 1. Return of Group 18422. A stable regular group.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Jan.21.508	<i>continued</i>						Jan.23.412	<i>continued</i>					
18471	.482	19.7	237.4	+21.8	22	110	18474	.422	348.7	227.4	+19.0	4	20
18473	.327	112.5	229.5	-12.1	13	54	18475	.255	178.6	222.0	-20.1	10	45
18472	.602	27.7	229.1	+27.1	20	183	18478	.581	14.9	212.6	+28.7	23	182
18474	.520	37.2	228.0	+19.4	6	23	18481	.553	111.1	190.1	-16.0	33	213
18475	.478	123.8	222.5	-20.1	10	65	18483	.616	116.1	186.5	-20.1	1	11
18478	.737	42.9	212.8	+28.4	55	250	18482	.647	96.7	182.1	- 8.5	25	118
18481	.840	106.3	190.4	-16.4	8	50	18486	.837	119.9	167.5	-27.8	4	17
18483	.899	109.3	183.4	-19.6	2	15	18485	.889	66.1	163.7	+18.4	30	157
18482	.912	96.9	181.4	- 8.5	27	133							
Jan.22.401	(-7.9)	(235.7)	(- 5.3)				Jan.24.393	(-8.8)	(209.4)	(- 5.4)			
18460	.943	283.5	304.4	+10.8	148	876	18479	.861	244.4	267.9	-24.7	92	706
a	.952	283.2	306.1	+10.8	140	836	18480	.893	319.5	257.6	+39.1	0	8
b	.890	288.7	295.8	+14.0	8	40	18464	.808	302.6	256.5	+22.1	56	285
1396g	.829	291.4	288.3	+14.4	8	15	18477	.808	315.0	250.9	+30.7	3	24
18479	.604	233.8	268.2	-25.3	60	394	18468	.697	312.1	243.5	+23.3	20	114
18476	.616	309.1	265.8	+18.2	3	8	18471	.634	315.8	237.8	+22.2	6	31
18464	.566	322.4	257.4	+21.7	71	265	18474	.526	323.0	229.0	+19.7	1	6
18480	.728	338.3	255.4	+37.4	4	17	18472	.620	332.9	228.0	+28.3	31	175
18477	.611	343.5	247.3	+30.5	13	86	18475	.320	218.5	221.6	-19.7	6	20
18484	.239	234.6	247.2	-13.1	1	5	18478	.562	355.7	212.1	+28.6	25	135
18468	.493	342.5	244.9	+22.7	23	224	18481	.363	121.6	190.7	-16.1	42	259
18471	.450	356.4	237.4	+21.2	20	76	18483	.443	126.5	187.2	-20.2	4	20
18472	.559	10.7	229.0	+27.9	30	130	18482	.461	97.9	182.0	- 8.5	26	101
18473	.166	134.3	228.8	-11.9	6	16	18486	.705	123.8	168.4	-27.1	1	9
18474	.435	16.4	228.3	+19.3	12	34	18485	.780	61.2	163.5	+18.3	26	175
18475	.339	139.9	222.3	-20.1	9	52							
1396h	.336	99.9	216.2	- 8.3	5	13	Jan.25.419	(-9.3)	(195.9)	(- 5.5)			
18478	.651	32.1	212.6	+28.5	45	219	18479	.954	245.7	268.9	-24.8	59	677
18481	.724	107.3	189.9	-16.1	22	142	18464	.910	297.4	256.4	+22.1	75	276
18483	.798	110.7	183.5	-19.6	3	11	18468	.834	303.2	245.3	+23.6	13	59
18482	.805	96.4	182.0	- 8.3	28	102	18473	.571	255.1	230.2	-13.0	1	9
18485	.966	69.3	163.7	+18.4	25	190	18472	.709	318.8	227.5	+27.5	15	97
							18475	.475	238.5	221.2	-19.3	2	13
Jan.23.412	(-8.4)	(222.4)	(- 5.4)				18478	.613	336.9	211.8	+28.9	18	121
18460	.993	282.2	304.1	+11.4	142	647	18481	.208	154.6	190.6	-16.3	40	272
a	.996	281.7	305.9	+11.1	138	617	18483	.318	150.6	186.3	-21.5	2	13
b	.969	285.8	295.9	+13.8	4	30	18487	.314	141.9	184.1	-19.6	24	177
18479	.751	240.9	268.7	-25.1	64	430	18482	.246	102.3	181.9	- 8.3	19	99
18476	.754	300.0	265.6	+18.2	0	3	18486	.550	134.9	169.9	-27.7	3	28
18480	.819	326.7	257.5	+38.8	2	10	18485	.645	53.0	163.2	+18.2	23	138
18464	.690	309.9	257.0	+21.8	51	273	18488	.582	99.9	160.4	-10.2	16	107
1396i	.593	236.1	254.8	-23.8	1	6	18489	.921	64.1	133.4	+21.2	5	32
18477	.696	326.3	248.9	+30.5	6	29							
18484	.420	250.7	246.3	-12.9	4	15	Jan.26.261	(-9.6)	(184.8)	(- 5.6)			
18468	.575	323.8	243.9	+22.5	13	118	18479	.987	245.8	266.8	-24.7	39	582
18471	.514	332.8	237.0	+21.8	12	50	18464	.966	294.6	255.9	+22.0	59	285
18473	.155	231.3	229.4	-10.9	2	7	18468	.933	298.0	248.6	+23.5	14	123
18472	.557	350.2	228.5	+27.8	26	126	18472	.793	311.5	226.7	+27.5	14	88
						<i>continued</i>						<i>continued</i>	

- Group 18483. Jan. 21 - 27. A few small spots.
Group 18484. Jan. 22 - 23. One or two tiny spots.
Group 18485. Jan.22-Feb.1. A regular spot, with occasional companions.
Group 18486. Jan. 23 - 27. A few small spots.
Group 18487. Jan.25-Feb.1. A small composite spot, appearing suddenly on January 25, which becomes regular in outline by January 29.
Group 18488. Jan.25-Feb.2. A compact stream, which soon begins to break up.
Group 18489. Jan.25-Feb.4. A stream, becoming widely separated in longitude. Only the follower remains on February 3 and 4.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pbs. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pbs. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Jan. 26. 261	<i>continued</i>						Jan. 29. 282	<i>continued</i>					
18475	.615	245.8	221.1	-19.1	4	8	18487	.625	246.5	182.3	-19.0	27	122
18478	.682	325.1	211.2	+28.9	16	94	18482	.598	263.1	181.9	-8.7	13	53
18481	.216	208.2	190.9	-16.5	45	243	1396k	.406	249.1	168.0	-13.6	2	15
18483	.276	186.7	186.8	-21.5	5	21	18485	.482	326.1	161.4	+17.9	14	49
18487	.244	174.6	183.4	-19.6	40	207	18488	.247	249.7	158.7	-10.5	52	525
18482	.074	134.6	181.8	-8.5	16	65	18492	.522	346.1	153.0	+24.6	2	15
18486	.447	148.0	169.4	-27.6	5	23	18489	.498	22.6	133.3	+21.6	57	289
18485	.531	42.4	162.8	+17.8	25	138	18490	.669	52.6	111.0	+19.1	37	178
18488	.430	102.5	159.6	-10.4	50	298	18491	.788	119.9	95.3	-26.9	22	93
18489	.843	60.4	133.2	+21.1	66	307							
18490	.970	69.1	112.0	+18.7	30	275							
18491	.991	115.4	100.8	-25.9	7	47	Jan. 30. 386	(-11.4)	(130.5)	(-5.9)			
							18481	.840	253.1	187.6	-17.3	4	12
							18487	.785	250.6	181.7	-18.8	14	78
							18482	.775	263.7	181.5	-8.6	7	47
							18485	.623	308.9	161.0	+17.9	6	26
Jan. 27. 283	(-10.1)	(171.4)	(-5.7)				18488	.466	259.2	158.1	-10.2	53	382
18468	.988	295.2	248.5	+23.7	7	65	18492	.608	326.1	152.3	+24.7	12	68
18472	.887	305.0	226.1	+27.3	4	20	18489	.472	357.4	132.5	+22.1	45	225
18475	.773	250.1	221.4	-18.9	2	10	18493	.460	40.4	112.6	+14.8	2	13
18478	.782	314.7	210.7	+28.9	14	74	18490	.534	37.2	110.6	+19.5	30	169
18481	.369	236.3	190.1	-17.2	53	287	18494	.367	88.8	109.0	-5.0	0	6
18483	.378	218.7	186.2	-22.6	1	11	18491	.650	125.6	94.3	-26.9	12	66
18487	.304	218.9	183.0	-19.2	36	178							
18482	.187	253.8	181.8	-8.6	9	55							
18486	.383	172.9	168.3	-28.0	4	31							
18485	.431	20.9	162.1	+18.0	23	98	Jan. 31. 286	(-11.8)	(118.7)	(-6.0)			
18488	.224	112.7	159.3	-10.5	96	530	18481	.929	252.0	187.5	-18.9	14	81
18489	.723	52.9	133.3	+21.3	87	411	18487	.892	251.6	182.0	-19.1	16	86
18490	.895	65.9	112.1	+18.5	40	172	18482	.891	263.4	182.0	-8.6	9	50
18491	.958	116.5	97.4	-27.0	21	97	18485	.742	300.6	160.6	+17.7	4	16
							18488	.633	261.0	158.0	-10.3	65	273
							18492	.701	314.8	151.7	+24.5	10	39
Jan. 28. 438	(-10.6)	(156.2)	(-5.8)				18489	.507	337.6	130.7	+22.0	58	241
18472	.963	300.4	224.9	+27.1	4	15	18493	.376	16.7	112.3	+15.1	5	23
1396j	.913	257.3	222.5	-13.9	0	5	18490	.452	16.7	110.8	+19.6	41	172
18475	.907	251.9	221.6	-18.8	0	5	18494	.171	85.4	108.9	-5.1	18	83
18478	.887	307.0	210.0	+28.9	11	82	18491	.542	135.8	93.4	-28.2	9	53
18481	.582	249.0	190.6	-16.8	29	224	18495	.975	61.8	46.4	+25.7	33	199
18487	.485	240.8	182.7	-18.8	24	193	18496	.984	104.0	38.0	-14.8	11	110
18482	.434	262.2	181.9	-8.6	14	54							
18485	.415	346.0	162.2	+17.9	14	74							
18488	.086	209.4	158.6	-10.1	85	588	Feb. 1. 504	(-12.3)	(102.6)	(-6.1)			
18489	.594	39.2	132.4	+22.0	54	275	18482	.980	262.7	181.6	-8.4	10	37
18490	.777	59.6	111.2	+19.0	36	206	18487	.975	251.5	180.8	-19.3	15	77
18491	.871	118.0	96.7	-27.1	16	87	18485	.882	294.1	160.2	+17.9	4	14
							18488	.826	261.9	158.5	-10.1	25	141
Jan. 29. 282	(-10.9)	(145.1)	(-5.8)				18497	.797	257.9	155.6	-13.3	6	14
18478	.946	303.3	209.5	+28.9	6	26	18498	.802	236.6	153.1	-30.1	7	18
18481	.709	251.5	189.6	-17.2	24	146	18492	.841	304.3	152.1	+24.3	0	4
							18489	.624	316.7	129.8	+21.5	29	133
						<i>continued</i>							<i>continued</i>

- Group 18490. Jan. 26-Feb. 6. An elongated spot. On February 5, other spots appear, forming a short stream.
- Group 18491. Jan. 26-Feb. 1. A short stream, of which only the follower remains after January 30.
- Group 18492. Jan. 29-Feb. 1. A few small spots.
- Group 18493. Jan. 30-Feb. 2. A few variable spots.
- Group 18494. Jan. 30-Feb. 5. A stream, rising to a brief maximum on February 2.
- Group 18495. Jan. 31-Feb. 7. A regular spot, which breaks up and dies out just past the central meridian.
- Group 18496. Jan. 31-Feb. 11. A stream, developing into a bi-polar group, which begins to break up on February 8.
- Group 18497. Feb. 1 - 2. A small spot.
- Group 18498. Feb. 1 - 3. A few small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots
1958	°	°	°				1958	°	°	°			
Feb. 1. 504	<i>continued</i>						Feb. 4. 344	<i>continued</i>					
18493	.413	327.8	115.7	+14.4	5	16	18490	.789	301.4	110.8	+19.8	23	128
18490	.455	343.0	110.7	+19.6	26	141	18494	.708	266.8	110.5	- 6.7	22	119
18494	.123	274.2	109.6	- 5.5	50	205	18501	.291	2.8	64.5	+10.5	25	93
13961	.220	336.5	107.6	+ 5.5	1	4	18495	.604	29.2	46.3	+25.7	14	57
18491	.409	156.4	92.0	-27.9	4	13	18496	.406	109.2	42.2	-13.4	122	808
18495	.896	57.3	46.0	+25.6	19	102	18499	.550	101.8	32.1	-11.7	17	70
18496	.889	102.5	39.4	-13.9	36	226	18500	.767	103.0	15.1	-14.0	141	667
18499	.947	100.3	30.8	-11.7	43	120	18503	.829	62.4	14.7	+18.6	7	43
18500	.998	104.1	15.0	-14.4	0	191	18502	.896	107.4	1.3	-18.4	128	738
							18504	.947	104.4	353.3	-15.7	3	12
							18505	.987	64.4	348.6	+24.0	0	24
Feb. 2. 398	(-12.6)	(90.9)	(- 6.1)										
18488	.926	261.6	159.1	-10.1	18	68							
1396m	.910	253.9	156.8	-17.1	7	38							
18497	.900	257.7	155.5	-13.7	9	22	Feb. 5. 581	(-13.9)	(49.0)	(- 6.3)			
18498	.892	239.0	153.0	-30.3	13	56	18506	.951	304.5	113.8	+30.1	35	187
18489	.725	307.9	128.7	+21.6	25	89	18490	.917	295.5	110.8	+20.4	11	41
18493	.532	310.9	115.4	+14.8	4	16	18494	.876	264.9	110.4	- 7.5	12	38
18490	.540	323.0	111.0	+19.7	36	158	18501	.406	313.0	66.5	+10.0	13	51
18494	.325	269.0	109.9	- 6.1	43	292	1396q	.451	346.1	55.6	+19.6	1	5
18501	.540	61.5	62.3	+ 9.5	11	61	1396r	.309	7.7	46.6	+11.5	3	19
18495	.804	51.6	46.7	+25.6	16	85	18495	.542	5.7	45.6	+26.2	9	33
18496	.767	102.1	40.7	-13.1	100	571	18496	.156	135.7	42.6	-12.6	128	789
18499	.857	99.6	31.6	-11.4	22	105	18499	.301	109.4	32.2	-11.8	5	21
18500	.968	103.0	14.7	-14.1	135	584	18500	.561	105.8	15.3	-14.0	136	738
18502	.995	107.0	5.3	-17.5	19	120	18503	.671	52.3	15.0	+18.9	39	162
							18507	.561	95.9	14.8	- 8.5	8	31
							18502	.752	109.1	0.7	-18.5	170	758
Feb. 3. 583	(-13.1)	(75.3)	(- 6.2)				18504	.871	104.2	348.1	-15.4	7	39
18498	.966	239.9	151.2	-30.6	8	32	18505	.923	59.1	348.0	+25.3	36	164
18489	.848	301.5	126.6	+22.4	19	115							
18490	.694	307.5	111.0	+19.9	28	157							
18494	.577	267.0	110.6	- 6.8	28	198	Feb. 6. 295	(-14.2)	(39.6)	(- 6.4)			
1396n	.319	344.2	80.4	+11.7	2	15	18506	.985	302.0	113.9	+29.9	58	368
1396o	.260	156.8	69.1	-19.9	5	11	18490	.966	293.7	110.6	+20.9	0	11
18501	.347	34.3	63.9	+10.5	17	76	18508	.699	290.3	81.0	+ 9.2	1	10
1396p	.312	41.8	63.3	+ 7.3	2	12	18501	.523	299.6	66.9	+ 9.3	6	42
18495	.678	40.3	46.3	+25.6	19	75	18495	.542	350.6	45.2	+25.8	5	21
18496	.547	104.9	42.5	-13.3	92	586	18496	.134	204.1	42.8	-13.4	92	672
18499	.688	100.5	31.8	-11.7	30	99	18499	.161	127.1	32.1	-11.9	2	17
18500	.868	102.7	14.7	-14.1	117	473	18500	.425	110.3	15.4	-14.3	121	593
18502	.955	107.7	1.8	-18.7	83	607	18503	.575	43.4	15.0	+18.8	31	147
							18507	.452	96.5	12.7	- 8.7	6	34
							18502	.650	111.8	0.1	-18.9	145	1028
Feb. 4. 344	(-13.4)	(65.3)	(- 6.3)				18509	.793	52.4	356.2	+24.3	2	8
18489	.919	298.0	126.6	+22.6	13	63	18505	.860	55.4	348.2	+25.3	16	101
						<i>continued</i>	18504	.785	105.4	347.9	-15.9	2	26

- Group 18499. Feb. 1 - 8. A small spot, dying out just past the central meridian.
- Group 18500. Feb. 1 - 14. A large regular spot, with occasional companions.
- Group 18501. Feb. 2 - 8. A short stream of variable spots, of which only the leader remains on February 7 and 8.
- Group 18502. Feb. 2 - 15. A large elongated stream, of which the very variable middle components die out before reaching the limb.
- Group 18503. Feb. 4 - 11. A short stream, of which only the leader remains after February 9.
- Group 18504. Feb. 4 - 14. A cluster of small variable spots, not seen on February 7.
- Group 18505. Feb. 4 - 15. A group of variable spots. There is a resurgence of activity on February 10, when a regular spot appears; this is the sole survivor at the limb.
- Group 18506. Feb. 5 - 6. A stream, appearing at the west limb.
- Group 18507. Feb. 5 - 11. A cluster of variable spots.
- Group 18508. Feb. 6 - 7. A pair of tiny spots.
- Group 18509. Feb. 6 - 9. Intermittent. One or two tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Umb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Umb.	Whole Spots
1958	o	o	o				1958	o	o	o			
Feb. 7. 296	(-14.5)	(26.4)	(-6.4)				Feb. 10. 398	(-15.7)	(345.5)	(-6.6)			
18508	.850	285.5	82.4	+9.6	2	12	18496	.881	259.1	47.7	-12.7	93	633
18501	.716	291.1	69.0	+10.2	4	16	18503	.672	308.1	19.4	+19.0	5	20
18495	.596	330.5	45.2	+25.1	1	5	18500	.510	252.6	15.5	-14.5	137	736
18496	.314	248.0	43.7	-12.8	119	630	18507	.468	261.2	13.4	-10.0	4	37
18499	.137	226.3	32.2	-11.8	1	5	18502	.304	218.1	357.0	-20.3	135	845
1396a	.140	166.1	24.4	-14.1	3	14	18505	.526	356.1	347.8	+24.9	22	108
18500	.237	126.6	15.1	-14.4	134	751	18504	.160	192.6	347.6	-15.5	5	21
18503	.469	24.7	14.5	+18.8	25	122	1397b	.390	7.4	342.5	+16.1	2	8
18507	.237	99.5	12.8	-8.5	6	39	18513	.592	58.5	314.5	+12.3	1	6
18502	.484	118.1	359.7	-18.9	191	1068	18510	.694	53.0	309.7	+19.3	12	50
18505	.749	46.9	349.2	+25.7	12	59	18511	.691	65.0	305.9	+11.9	114	536
1396t	.754	58.0	344.1	+18.8	2	8	b	.691	65.0	305.9	+11.9	114	536
1396u	.859	103.1	326.8	-14.5	2	13	18514	.982	113.7	264.9	-24.5	10	57
18510	.982	68.9	310.6	+19.2	21	93							
18511	.989	76.5	306.9	+12.2	151	620							
b	.989	76.5	306.9	+12.2	151	620	Feb. 11. 507	(-16.1)	(330.9)	(-6.7)			
							18496	.967	258.5	46.9	-12.8	34	219
							18503	.823	299.1	20.3	+19.2	4	18
Feb. 8. 292	(-14.9)	(13.3)	(-6.5)				18500	.708	256.5	16.0	-14.3	117	658
18512	.882	253.7	75.6	-17.4	8	24	18507	.681	262.5	14.0	-10.0	6	41
18501	.852	286.3	69.3	+10.2	4	20	18502	.489	239.9	357.6	-20.2	109	623
18496	.515	256.1	44.0	-12.7	81	633	18504	.330	241.0	348.3	-15.5	5	46
18499	.329	246.7	31.3	-13.7	1	3	18505	.602	333.5	348.2	+26.1	22	101
18503	.423	353.3	16.3	+18.2	25	102	18515	.295	24.4	323.8	+8.9	20	86
18500	.144	193.5	15.3	-14.5	139	597	18510	.537	38.1	310.5	+18.6	2	18
18507	.056	175.3	13.0	-9.7	4	26	18511	.493	52.5	307.5	+11.2	192	939
18502	.333	134.2	358.7	-19.7	156	1102	b	.515	54.3	305.8	+11.4	140	648
18504	.453	112.9	347.7	-16.0	3	10	18514	.921	113.9	263.3	-24.6	9	38
18505	.645	39.6	346.7	+23.9	5	23	18516	.994	65.8	250.9	+23.0	31	246
18510	.921	65.7	310.7	+19.3	29	173							
18511	.934	74.3	306.7	+12.1	137	617	Feb. 12. 688	(-16.5)	(315.4)	(-6.7)			
b	.934	74.3	306.7	+12.1	137	617	18500	.872	256.9	16.6	-14.7	139	619
							18502	.698	247.4	358.7	-20.5	89	486
Feb. 9. 501	(-15.4)	(357.4)	(-6.6)				18505	.728	315.7	349.7	+25.9	29	189
18512	.982	254.0	77.7	-16.9	5	23	18504	.557	251.4	348.5	-15.8	8	66
1397a	.929	279.6	64.4	+6.4	6	45	18515	.306	330.4	324.2	+8.7	23	168
18496	.757	258.4	46.8	-13.1	103	690	18510	.442	10.2	310.7	+19.0	4	16
18503	.521	323.0	16.6	+18.3	14	63	18511	.332	23.4	307.7	+11.0	266	1441
18500	.335	244.4	15.5	-14.5	161	756	b	.350	27.9	305.8	+11.4	182	888
18507	.277	257.3	13.2	-9.8	4	22	18514	.792	115.6	264.0	-24.3	6	25
18502	.234	180.8	357.6	-20.1	135	999	18517	.909	70.0	253.4	+15.0	8	30
18509	.488	4.0	355.3	+22.5	1	6	18516	.947	62.4	249.5	+23.4	34	189
18504	.208	139.7	349.4	-15.6	3	31	18518	.971	81.8	240.4	+6.3	18	119
18505	.554	17.4	346.9	+25.3	6	33							
18513	.732	66.2	314.3	+12.3	1	9	Feb. 13. 292	(-16.7)	(307.4)	(-6.8)			
18510	.806	59.8	309.9	+19.5	9	53	18500	.928	257.3	16.2	-14.3	122	589
18511	.814	70.1	306.1	+11.9	125	611							
b	.814	70.1	306.1	+11.9	125	611							

continued

- Group 18510. Feb. 7 - 14. A cluster of small spots, of which only one remains after February 11.
- Group 18511. Feb. 7 - 19. A regular spot for the first few days; it becomes composite in structure after February 11, when additional spots appear in front to form a stream of normal type.
- Group 18512. Feb. 8 - 9. A small spot.
- Group 18513. Feb. 9 - 10. A tiny spot.
- Group 18514. Feb. 10 - 13. One or two small spots.
- Group 18515. Feb. 11 - 17. A stream of small spots.
- Group 18516. Feb. 11 - 23. A regular spot.
- Group 18517. Feb. 12 - 16. One or two small spots, not seen on February 15.
- Group 18518. Feb. 12 - 23. A regular spot, leading a short stream until February 17. Other spots appear on February 19, the whole group breaking up and dying out as it approaches the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Feb. 13. 292	<i>continued</i>						Feb. 16. 611	<i>continued</i>					
18502	.816	252.0	2.1	-18.6	56	333	18522	.753	306.3	304.2	+21.2	24	138
18505	.816	308.3	352.5	+25.6	28	110	18519	.395	328.7	275.8	+12.9	10	37
18504	.699	253.9	351.6	-16.1	3	15	1397c	.280	328.9	272.0	+ 7.0	1	8
18515	.391	312.3	324.3	+ 8.7	37	210	18517	.380	18.7	256.5	+14.2	0	7
18510	.439	353.1	310.6	+19.0	1	8	18516	.553	24.9	249.1	+23.3	28	173
18511	.309	359.7	307.5	+11.1	281	1364	18523	.385	110.9	242.0	-14.3	7	28
b	.309	5.1	305.8	+11.0	202	960	18518	.431	60.1	241.7	+ 5.9	25	149
18514	.719	118.1	263.3	-24.7	3	14	18521	.801	102.7	210.2	-14.2	12	78
18517	.841	67.7	254.1	+14.6	5	35	18520	.862	62.1	209.8	+19.8	22	126
18516	.897	60.0	250.0	+23.0	36	184	18524	.941	107.3	192.6	-18.5	13	73
18518	.932	81.1	239.9	+ 5.7	23	173	18525	.942	103.7	192.4	-15.2	60	397
							18526	.993	113.9	178.3	-24.5	16	134
Feb. 14. 495	(-17.1)	(291.6)	(- 6.8)				Feb. 17. 481	(-18.1)	(252.3)	(- 6.9)			
18500	.994	256.7	16.7	-13.9	88	509	18515	.965	282.5	325.2	+10.1	8	28
18502	.929	252.3	0.7	-18.9	60	361	18511	.849	287.3	307.7	+10.7	236	1172
18505	.925	301.3	352.6	+25.5	17	87	b	.835	288.1	306.1	+11.0	196	973
18504	.865	255.7	351.9	-15.8	9	68	18522	.839	300.3	302.9	+20.7	10	64
18515	.617	294.4	326.1	+ 9.1	28	200	18519	.505	309.9	275.6	+12.5	10	24
18510	.536	324.5	310.8	+19.4	1	5	18516	.508	6.5	248.7	+23.3	30	155
18511	.414	316.9	308.3	+11.0	273	1370	18523	.198	129.5	243.3	-14.0	23	70
b	.391	320.9	306.1	+11.0	210	998	18518	.286	41.3	241.4	+ 5.6	26	153
18519	.430	39.3	275.5	+12.8	2	14	18521	.673	104.2	210.1	-14.6	15	89
18517	.690	59.7	253.7	+15.0	4	21	18520	.775	56.8	208.8	+20.1	7	35
18516	.775	52.7	249.7	+23.0	31	166	18524	.860	107.5	192.7	-18.5	15	52
18518	.800	77.5	240.1	+ 5.7	40	214	18525	.863	103.7	192.2	-15.2	58	333
18520	.991	67.9	212.7	+20.7	7	40	18526	.959	113.6	177.5	-24.6	42	190
18521	.984	103.1	210.9	-14.1	19	101	18527	.983	101.7	171.9	-12.7	45	197
							a	.983	101.7	171.9	-12.7	45	197
Feb. 15. 295	(-17.4)	(281.1)	(- 6.9)				Feb. 18. 628	(-18.5)	(237.2)	(- 7.0)			
18502	.949	250.0	353.8	-21.1	20	137	18511	.952	284.0	307.2	+11.0	179	1466
18505	.970	297.6	351.9	+24.6	8	50	b	.946	284.4	306.0	+11.1	152	1275
18515	.753	288.6	327.2	+ 9.1	30	216	18522	.938	295.5	302.0	+20.9	10	37
18511	.539	302.7	308.5	+10.8	227	1165	18516	.536	340.7	248.3	+23.4	30	153
b	.518	304.9	306.6	+11.0	177	916	18523	.195	227.3	245.7	-14.5	7	47
18519	.352	16.6	275.2	+12.7	25	127	18518	.240	339.1	242.1	+ 6.0	20	118
18516	.682	45.0	249.6	+22.9	23	199	18521	.459	108.9	210.6	-14.8	15	86
18518	.677	73.9	240.5	+ 5.6	34	185	18520	.625	43.9	209.7	+20.5	3	18
18521	.936	102.8	210.9	-14.4	8	83	1397d	.605	104.1	200.2	-14.1	1	7
18520	.964	67.0	210.6	+19.9	37	234	18524	.706	109.5	192.8	-18.7	9	67
Feb. 16. 611	(-17.9)	(263.7)	(- 6.9)				18525	.707	104.3	192.2	-15.0	69	332
18515	.904	283.6	326.3	+ 9.1	23	85	18526	.861	114.4	178.0	-24.5	25	183
18511	.733	291.7	307.4	+10.7	232	1126	18527	.915	101.1	170.3	-13.0	66	268
b	.717	292.9	305.8	+11.1	195	876	a	.901	100.9	172.3	-12.8	32	194

continued

- Group 18519. Feb. 14 - 17. A single spot on February 14; a pair of spots on the other days.
- Group 18520. Feb. 14 - 18. One or two small spots.
- Group 18521. Feb. 14 - 22. A small spot, breaking into two on February 22.
- Group 18522. Feb. 16 - 19. A cluster of small spots, suddenly appearing on February 16 and dying out as it approaches the limb.
- Group 18523. Feb. 16 - 22. A pair of spots, gradually separating in longitude. Only the leader remains after February 20.
- Group 18524. Feb. 16 - 23. A small spot.
- Group 18525. Feb. 16 - 28. A regular spot, with occasional companions, which becomes composite in structure on February 22 and divides into two on February 24.
- Group 18526. Feb. 16 - 28. A regular spot until February 23, after which other spots appear, forming a short stream highly inclined to the equator.
- Group 18527. Feb. 17-Mar. 1. A short stream, led by a small regular spot which is the only remaining component after February 26.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°	°	°				1958	°	°	°			
Feb. 19. 395	(-18.7)	(227.1)	(-7.0)				Feb. 22. 359	(-19.7)	(188.0)	(-7.1)			
18511	.987	282.3	306.0	+10.9	125	909	18523	.870	256.5	249.0	-15.2	0	2
b	.984	283.0	304.9	+11.4	85	682	18516	.905	300.1	246.4	+23.4	15	84
18522	.977	293.3	300.7	+20.9	5	21	18518	.828	284.6	241.8	+7.9	4	12
18528	.875	280.5	286.7	+5.7	8	52	18531	.452	273.4	214.8	-4.8	39	178
18516	.595	326.9	247.7	+23.3	22	151	18521	.405	248.1	210.8	-15.2	1	4
18523	.351	246.0	246.4	-14.8	8	40	18534	.342	217.3	200.9	-22.6	15	66
18518	.348	312.3	242.1	+6.7	21	135	18524	.207	197.3	191.7	-18.4	3	14
18521	.311	117.7	210.6	-15.0	7	33	18525	.145	193.9	190.1	-15.1	83	602
18529	.586	47.2	200.5	+17.2	4	30	18532	.327	358.5	188.5	+11.9	8	30
18524	.587	112.2	192.3	-18.5	11	48	18533	.075	120.9	184.3	-9.3	4	15
18525	.587	106.1	191.5	-15.1	63	345	18526	.351	150.0	176.9	-24.6	20	142
18526	.773	116.3	177.6	-24.6	30	165	18527	.349	107.8	168.2	-12.8	65	309
18527	.837	101.1	169.8	-13.1	46	298	a	.287	110.1	172.1	-12.4	30	120
a	.817	100.8	171.9	-12.9	32	163	18535	.502	96.8	157.8	-9.6	2	31
Feb. 20. 469	(-19.1)	(212.9)	(-7.0)				18536	.737	128.1	144.8	-32.3	1	6
18528	.974	277.3	288.7	+5.5	4	20	18537	.994	57.5	110.0	+31.1	48	316
18530	.726	299.9	253.6	+15.9	3	14							
18523	.581	254.1	248.1	-14.8	7	28	Feb. 23. 445	(-20.0)	(173.7)	(-7.1)			
18516	.711	313.4	247.0	+23.4	20	146	18516	.970	296.1	244.8	+23.1	4	34
18518	.529	296.6	241.3	+7.5	21	140	18518	.938	279.0	242.1	+5.9	3	16
18531	.067	308.3	215.9	-4.6	16	60	18531	.628	270.0	212.7	-5.5	15	83
18521	.148	167.1	210.9	-15.3	9	21	18534	.494	236.2	199.9	-22.3	92	414
18529	.484	31.5	197.6	+17.5	1	9	18525	.313	245.3	190.7	-14.2	105	646
18524	.396	120.9	192.0	-18.2	9	35	18524	.348	232.6	190.6	-19.0	1	21
18525	.389	112.2	191.1	-14.9	59	326	18532	.409	323.9	187.9	+12.4	1	11
18532	.486	52.9	189.8	+10.5	10	38	18533	.205	257.2	185.3	-9.6	4	14
18533	.526	95.3	181.1	-8.7	5	23	18526	.306	187.3	176.1	-24.7	22	141
18526	.620	121.1	177.4	-24.4	39	173	18527	.132	135.0	168.2	-12.4	46	280
18527	.686	101.4	169.5	-12.9	47	283	a	.088	163.2	172.2	-11.9	22	85
a	.654	101.3	172.0	-12.7	34	182	18535	.263	98.4	158.5	-9.0	0	5
Feb. 21. 411	(-19.4)	(200.5)	(-7.1)				18536	.623	137.4	143.5	-33.4	3	20
18530	.844	293.3	253.8	+15.3	0	6	18537	.958	55.2	108.1	+30.4	62	453
18523	.749	254.6	249.1	-16.2	4	11							
18516	.815	304.4	247.1	+22.6	18	105	Feb. 24. 376	(-20.2)	(161.5)	(-7.1)			
18518	.707	287.2	243.2	+6.8	17	45	18531	.795	268.4	214.3	-5.6	25	125
18531	.265	277.0	215.7	-5.0	30	160	18534	.644	243.6	199.9	-22.2	123	686
18521	.227	229.5	210.8	-15.4	7	16	18525	.503	253.3	191.2	-14.5	99	565
18534	.280	185.2	202.1	-23.3	11	39	18533	.413	261.6	185.9	-10.0	2	6
18524	.243	143.5	191.8	-18.2	3	27	18526	.399	215.8	176.4	-25.7	29	191
18525	.216	129.2	190.6	-14.8	73	413	18527	.164	235.5	169.4	-12.4	31	161
18532	.377	31.6	188.9	+11.7	16	56	a	.201	245.6	172.2	-11.7	19	89
18533	.301	97.0	183.0	-8.9	8	14	18538	.263	118.4	147.8	-14.1	10	37
18526	.479	129.6	176.7	-24.3	22	139	18537	.891	50.2	109.1	+30.5	46	432
18527	.516	102.2	169.5	-12.4	27	225	18539	.984	114.0	79.8	-24.8	0	52
a	.479	102.4	172.0	-12.2	22	146							

- Group 18528. Feb. 19 - 20. A pair of spots, appearing near the west limb.
- Group 18529. Feb. 19 - 20. A small spot.
- Group 18530. Feb. 20 - 21. A tiny spot.
- Group 18531. Feb. 20 - 26. A short stream, appearing near the central meridian. Only one spot is seen on February 23.
- Group 18532. Feb. 20 - 23. A few small spots, which are in stream formation on February 21.
- Group 18533. Feb. 20 - 26. A pair of spots on February 20; a single spot thereafter.
- Group 18534. Feb. 21 - 27. A few small spots, developing into a bi-polar group on February 23. The group breaks up as it approaches the west limb.
- Group 18535. Feb. 22 - 23. A small spot.
- Group 18536. Feb. 22 - 28. One or two small spots.
- Group 18537. Feb. 22-Mar. 3. A composite spot.
- Group 18538. Feb. 24-Mar. 3. A stream of small scattered spots when first seen on March 24. These grow very rapidly to form a moderate-sized bi-polar stream which decreases in area as it approaches the west limb.
- Group 18539. Feb. 24 - 27. Two or three small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Feb. 25. 294		(-20.5)	(149.4)	(-7.2)			Feb. 27. 517	continued					
18531	.911	267.9	215.2	-4.9	41	201	18539	.691	118.4	78.3	-24.6	5	30
18534	.775	247.7	199.7	-21.8	149	703	18541	.737	74.6	74.7	+6.3	1	26
18525	.665	255.7	191.0	-14.8	90	540	1397h	.879	103.4	57.9	-15.2	0	2
18533	.598	262.8	186.3	-10.1	0	2							
18540	.525	269.5	181.1	-6.4	1	6							
1397e	.658	317.1	178.3	+22.5	1	9	Feb. 28. 492		(-21.4)	(107.3)	(-7.2)		
18526	.527	231.4	176.5	-25.6	22	143	18525	.987	255.0	189.3	-15.9	61	424
18527	.370	256.5	170.9	-11.7	22	107	18526	.925	244.2	175.6	-26.6	0	21
a	.393	257.9	172.4	-11.3	16	82	18527	.906	261.7	172.9	-10.6	15	71
18538	.125	173.0	148.5	-14.3	100	503	a	.906	261.7	172.9	-10.6	15	71
18536	.471	166.1	141.6	-34.3	12	31	18538	.636	255.6	146.7	-14.7	82	664
18537	.817	44.1	108.2	+30.5	29	298	18536	.642	221.7	138.5	-34.8	3	16
18539	.937	113.9	79.0	-24.8	11	117	18542	.412	333.0	118.4	+14.4	1	5
18541	.979	82.4	72.3	+5.9	5	36	18537	.626	4.0	104.4	+31.3	39	286
							18543	.308	151.7	98.2	-22.8	1	8
							18544	.995	106.8	21.3	-17.3	34	273
Feb. 26. 526		(-20.8)	(133.2)	(-7.2)			Mar. 1. 544		(-21.6)	(93.4)	(-7.2)		
18531	.989	266.2	214.9	-4.8	13	79	18527	.979	260.4	172.5	-10.8	14	72
18534	.910	249.6	199.4	-21.5	126	676	a	.979	260.4	172.5	-10.8	14	72
18525	.839	256.4	190.7	-15.3	97	507	18538	.807	256.2	147.5	-15.3	62	442
18533	.800	263.5	186.7	-9.6	0	6	1397i	.492	252.8	122.3	-14.7	1	2
18540	.745	267.0	181.6	-7.1	7	28	18537	.639	346.3	103.5	+31.1	11	140
18526	.707	241.8	176.4	-24.8	15	81	18543	.280	192.6	97.2	-23.0	11	58
18527	.614	261.0	171.2	-11.2	16	80	18545	.949	98.4	21.2	-10.2	9	64
a	.630	261.6	172.4	-10.9	14	60	18546	.967	102.7	17.2	-14.1	87	475
18538	.278	241.7	147.8	-14.5	115	714	18544	.972	106.7	15.6	-17.9	188	1720
18536	.464	192.6	140.2	-33.9	10	47							
18537	.721	32.3	106.6	+31.1	35	405	Mar. 2. 435		(-21.8)	(81.7)	(-7.2)		
18539	.819	115.4	78.8	-24.8	12	57	18538	.909	255.8	147.8	-15.9	75	396
18541	.871	78.4	74.3	+6.4	4	26	18537	.698	331.4	104.6	+31.1	5	24
							18543	.379	219.2	96.8	-24.0	44	217
Feb. 27. 517		(-21.1)	(120.1)	(-7.2)			18545	.873	97.8	20.4	-10.3	16	82
18534	.977	249.3	199.3	-21.7	41	321	18546	.899	102.2	17.0	-14.1	81	403
18525	.936	256.3	190.4	-15.4	70	512	18544	.909	106.5	15.6	-18.0	253	1778
18526	.834	244.7	176.2	-25.0	10	71	18547	.984	71.0	5.1	+17.2	19	126
18527	.788	262.3	172.5	-10.5	11	58							
a	.788	262.3	172.5	-10.5	11	58	Mar. 3. 362		(-22.1)	(69.4)	(-7.2)		
1397f	.563	303.7	148.6	+11.8	1	5	18538	.976	255.1	148.1	-16.1	43	329
18538	.475	252.3	147.9	-14.7	102	569	18542	.804	294.7	118.3	+14.9	0	3
18536	.540	209.9	139.1	-34.7	4	23	18548	.718	261.8	115.6	-10.9	5	17
18542	.365	10.4	116.2	+13.8	2	14							
18537	.657	20.3	104.8	+30.9	24	282							
1397g	.563	86.1	86.0	-3.8	2	12							
						continued							continued

- Group 18540. Feb. 25 - 26. One or two tiny spots.
- Group 18541. Feb. 25 - 27. A single small spot on February 25; a pair on the other days.
- Group 18542. Feb. 27-Mar. 3. Intermittent. A tiny spot.
- Group 18543. Feb. 28-Mar. 7. A tiny spot, appearing just east of the central meridian. On the next day other spots appear and the whole develops into a bi-polar group before reaching the west limb.
- Group 18544. Feb. 28-Mar. 13. A large complex stream, of which the rear part soon breaks up. After March 8 the whole group rapidly diminishes in area and has nearly died out at the west limb.
- Group 18545. Mar. 1 - 8. A pair of small spots until March 3; a single spot on the remaining days.
- Group 18546. Mar. 1 - 13. A stable regular spot, closely associated with Group 18544.
- Group 18547. Mar. 2 - 11. A pair of spots until March 8; a single spot thereafter.
- Group 18548. Mar. 3 - 5. A few small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Mar. 3. 362	<i>continued</i>						Mar. 6. 637	(-22.8)		(26.3)	(-7.2)		
18537	.774	320.9	104.0	+30.9	2	9	18543	.935	247.0	96.5	-24.0	54	315
18543	.517	234.0	96.5	-24.0	47	410	1397k	.939	267.0	96.4	-5.3	6	32
18549	.750	48.7	31.5	+24.0	13	72	18552	.892	259.8	90.0	-12.3	176	1098
18545	.719	98.7	23.2	-11.2	3	19	18549	.530	346.0	34.3	+23.7	94	540
18550	.889	47.2	18.7	+32.7	26	157	a	.548	341.0	37.5	+24.0	65	313
18546	.791	102.3	16.8	-14.1	76	358	18545	.085	161.4	24.7	-11.8	2	11
18544	.810	106.5	15.1	-17.6	214	1740	18550	.633	7.0	21.1	+31.6	62	455
18547	.930	68.2	5.0	+17.2	12	105	a	.632	2.4	24.5	+31.8	35	294
18551	.984	64.1	354.3	+23.8	5	36	18554	.154	100.4	17.5	-8.7	2	18
							18546	.216	127.6	16.2	-14.6	64	285
							18544	.257	134.2	15.2	-17.3	178	1356
Mar. 4. 373	(-22.3)		(56.1)	(-7.2)			18553	.287	107.0	10.1	-11.7	3	16
18548	.858	261.2	115.7	-11.2	13	53	18547	.520	39.3	6.2	+16.9	7	45
18543	.677	241.9	96.8	-24.1	73	436	18555	.504	113.6	357.4	-17.9	3	25
18552	.575	258.9	91.2	-12.2	12	63	18551	.682	45.4	354.7	+22.4	6	33
18549	.642	36.8	31.2	+24.3	18	142	18556	.967	72.0	314.1	+15.3	4	29
18545	.524	101.0	24.5	-11.9	2	8	18557	.990	77.6	306.4	+11.1	38	446
18550	.804	39.7	18.7	+32.5	53	292							
18546	.635	104.1	16.8	-14.5	75	337	Mar. 7. 365	(-23.0)		(16.7)	(-7.2)		
18544	.665	109.0	14.9	-17.9	262	1757	18543	.977	247.2	96.1	-23.7	50	282
18553	.725	101.1	9.4	-13.0	11	49	18552	.957	259.6	90.7	-12.0	191	1762
18547	.830	63.9	5.1	+16.9	20	114	18549	.584	331.8	34.2	+24.0	127	748
18551	.929	61.8	353.7	+22.8	9	42	a	.611	326.8	38.1	+24.0	79	406
							18545	.161	240.2	24.9	-11.7	4	16
Mar. 5. 468	(-22.6)		(41.7)	(-7.2)			18550	.630	354.6	20.7	+31.5	76	533
18548	.949	261.0	114.0	-10.8	3	20	a	.639	349.5	24.5	+31.6	50	346
18543	.827	245.6	97.1	-24.1	61	384	18546	.135	174.4	15.9	-14.9	78	294
18552	.749	259.8	90.5	-12.4	92	427	18544	.195	170.9	14.8	-18.2	192	1484
18549	.536	14.5	33.3	+24.0	73	365	18553	.154	121.2	9.0	-11.7	1	12
a	.529	8.8	36.6	+24.2	44	189	18547	.422	21.0	7.7	+16.0	4	18
1397j	.247	132.0	30.7	-16.5	2	14	18555	.381	120.8	356.7	-18.0	2	17
18545	.300	106.6	24.7	-11.8	6	23	18551	.599	35.7	354.6	+22.4	3	23
18550	.695	26.6	20.3	+31.6	80	473	18556	.911	70.4	314.4	+14.5	0	8
a	.680	22.8	23.7	+31.9	44	267	18557	.953	76.6	306.4	+10.4	65	394
18554	.395	97.2	18.4	-9.4	1	8							
18546	.439	108.7	16.4	-14.6	66	306	Mar. 8. 371	(-23.2)		(3.5)	(-7.2)		
18544	.476	114.5	14.8	-17.8	209	1684	18552	.991	257.7	86.9	-13.1	119	484
18553	.514	101.6	10.8	-12.1	5	23	18549	.689	316.4	34.6	+23.7	116	633
18547	.685	55.4	5.7	+17.0	16	66	a	.720	313.8	38.0	+24.0	90	454
18551	.824	55.6	354.3	+23.0	17	80							<i>continued</i>

- Group 18549. Mar. 3 - 11. A pair of spots on March 3, developing into a stream. The leader becomes a regular spot by March 8; the remaining components are dying out as the group passes from view.
- Group 18550. Mar. 3 - 13. A pair of spots, developing into a long stream of which the leader becomes a regular spot by March 9.
- Group 18551. Mar. 3 - 14. One or two small spots, not seen on March 9. After March 10 the group develops into a short stream, which is growing as it approaches the limb.
- Group 18552. Mar. 4 - 8. A compact stream, developing west of the central meridian and growing rapidly as it passes from sight.
- Group 18553. Mar. 4 - 11. A stream of small variable spots.
- Group 18554. Mar. 5 - 6. One or two tiny spots.
- Group 18555. Mar. 6 - 7. One or two tiny spots.
- Group 18556. Mar. 6 - 16. One or two small spots, developing into a stream of which only the leader remains at the west limb.
- Group 18557. Mar. 6 - 18. A composite spot. From March 10 to 15 preceding spots appear, forming a stream.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Mar. 8. 371	<i>continued</i>						Mar. 11. 368	(-23.8) (324.0) (-7.2)					
18545	.376	256.4	25.3	-11.7	1	6	18549	.975	297.0	36.2	+24.3	82	412
18550	.670	338.1	20.5	+31.5	170	762	a	.979	296.6	37.4	+24.1	79	391
a	.688	334.4	23.8	+31.5	109	477	18550	.907	310.6	18.2	+32.1	137	875
18546	.252	236.4	16.0	-15.0	74	317	a	.933	308.8	23.1	+32.2	81	527
18544	.280	226.0	15.7	-18.2	213	1152	18546	.784	256.3	15.9	-15.2	65	299
18553	.137	236.8	10.2	-11.4	12	37	18544	.786	252.9	15.9	-17.9	72	499
18547	.400	349.5	7.8	+15.9	4	12	18553	.729	260.2	11.1	-12.1	2	14
18551	.516	15.6	354.9	+22.5	1	8	18547	.759	298.0	7.9	+15.7	2	7
18558	.800	56.1	318.1	+21.5	3	15	18551	.679	315.2	355.1	+22.6	12	67
18556	.791	65.4	315.7	+14.4	7	25	18558	.489	8.8	319.4	+21.7	8	36
18557	.866	73.2	306.2	+10.7	91	562	18556	.396	16.4	317.1	+15.1	30	159
18559	.953	71.4	294.3	+15.2	0	15	18560	.367	25.8	314.6	+12.2	12	77
							18557	.411	43.9	307.2	+10.3	64	393
							18559	.549	52.3	297.6	+13.1	81	491
Mar. 9. 375	(-23.4) (350.2) (-7.2)						18561	.664	52.7	290.5	+17.7	3	16
18549	.818	306.7	36.1	+24.3	144	688							
a	.836	305.3	38.4	+24.1	124	569							
18550	.748	326.2	19.5	+32.1	178	1167	Mar. 12. 351	(-24.0) (311.0) (-7.2)					
a	.781	322.5	24.3	+32.3	90	490	18550	.964	306.1	17.4	+31.9	110	827
18546	.445	250.2	15.8	-15.1	60	286	a	.980	305.2	22.2	+32.3	81	578
18544	.443	241.9	14.4	-18.5	134	934	18546	.901	256.6	16.0	-15.2	58	331
18553	.353	256.8	10.6	-11.4	9	36	18544	.898	253.4	15.6	-18.1	48	379
18547	.485	322.9	7.8	+15.8	2	11	18562	.777	250.2	1.8	-19.8	0	7
18558	.651	45.0	320.8	+21.1	5	15	18551	.801	304.6	356.2	+22.0	29	148
18556	.644	57.2	316.4	+14.4	8	30	18558	.502	337.6	322.7	+20.5	1	6
18557	.733	68.2	306.6	+10.5	79	467	18556	.394	344.5	317.2	+15.0	48	218
18559	.865	68.0	294.3	+15.0	47	222	18560	.344	350.9	314.2	+12.6	17	119
							18557	.304	11.4	307.5	+10.1	55	400
Mar. 10. 374	(-23.6) (337.1) (-7.2)						18559	.424	34.6	296.7	+13.4	87	576
18549	.916	300.1	36.9	+23.8	96	446	18563	.936	70.8	245.0	+15.1	15	62
a	.923	299.8	38.1	+23.9	94	426	18564	.984	76.6	233.4	+11.7	60	471
18550	.823	317.4	17.9	+31.8	137	992							
a	.862	314.0	23.9	+31.9	90	481	Mar. 13. 445	(-24.2) (296.6) (-7.2)					
18546	.627	254.4	15.7	-15.4	59	293	18546	.979	256.0	16.0	-15.1	62	281
18544	.627	249.8	15.2	-18.2	79	553	18544	.959	253.3	11.3	-18.0	20	96
18553	.561	259.8	11.3	-11.7	7	33	18550	.987	303.4	10.8	+31.2	10	174
18547	.619	306.8	7.9	+15.5	7	14	18565	.943	237.0	7.7	-33.4	9	19
18551	.566	331.0	354.3	+22.6	5	29	18562	.890	250.8	0.0	-20.4	0	4
18558	.555	31.0	319.3	+21.5	9	44	18551	.917	297.7	357.4	+21.8	40	207
18556	.487	41.2	317.8	+14.6	7	32	18556	.523	314.6	319.2	+14.8	21	134
18560	.513	50.2	313.4	+12.5	2	17	18560	.452	316.3	315.2	+12.2	7	61
18557	.574	59.8	306.9	+10.5	61	346	18566	.263	245.8	310.8	-13.1	4	32
18559	.696	62.4	297.9	+13.2	62	361							
18561	.802	61.4	289.6	+17.8	9	40							

continued

- Group 18558. Mar. 8 - 12. One or two spots, developing into a stream with a brief maximum on March 10. Only the leader remains on March 12.
- Group 18559. Mar. 8 - 19. A stream, developing from one or two spots at the east limb. Rapid growth occurs after March 13 as the leader becomes a composite spot and the following components form a compact structure which coalesces with the leader on March 18.
- Group 18560. Mar. 10 - 15. A stream of small variable spots.
- Group 18561. Mar. 10 - 11. A small spot.
- Group 18562. Mar. 12 - 13. A tiny spot.
- Group 18563. Mar. 12 - 21. A slowly-diminishing regular spot, with one or two companions on March 13 and 14.
- Group 18564. Mar. 12 - 24. An elongated stream, with a following regular spot. The group is breaking up and dying out as it passes round the limb.
- Group 18565. Mar. 13 - 14. A small spot.
- Group 18566. Mar. 13 - 17. A stream of small variable spots, of which only the leader remains on March 17.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Mar. 13. 445	<i>continued</i>						Mar. 16. 482	<i>continued</i>					
18557	.345	329.0	306.9	+10.0	62	259	18563	.423	25.1	245.9	+15.5	16	62
18559	.347	358.0	297.3	+13.0	113	732	18564	.539	53.5	230.4	+12.3	79	566
18563	.833	65.5	244.8	+15.8	28	169	b	.612	61.5	223.5	+11.0	15	103
18564	.925	74.1	231.5	+11.7	103	793	18567	.858	40.5	213.5	+35.6	50	227
b	.968	76.6	223.2	+11.0	25	82	18569	.799	99.3	203.2	-11.7	3	15
							18568	.817	113.9	202.2	-23.6	9	41
							18570	.865	64.4	201.7	+17.9	4	31
							1398c	.957	45.7	195.3	+38.8	3	19
Mar. 14. 488	(-24.3)	(282.8)	(-7.2)				18572	.954	105.6	183.0	-17.0	33	112
18565	.988	236.8	6.5	-33.8	0	13							
18551	.977	295.0	356.0	+22.5	40	251							
18556	.679	300.7	319.8	+14.5	21	124	Mar. 17. 389	(-24.8)	(244.6)	(-7.1)			
18560	.617	299.1	316.0	+11.4	12	52	18566	.945	258.8	316.3	-12.9	3	23
18566	.489	256.9	311.9	-12.7	22	99	1398d	.954	290.1	313.6	+16.7	0	15
18557	.485	305.8	306.2	+9.8	50	279	18557	.897	285.0	306.0	+10.1	37	205
18559	.413	324.3	297.0	+12.5	188	1219	18559	.832	290.6	297.4	+12.8	147	1505
1398a	.644	50.0	251.6	+18.2	3	17	18573	.743	286.1	290.4	+6.9	1	8
18563	.692	58.3	245.3	+15.6	21	101	18571	.909	327.2	288.5	+44.8	0	8
18564	.811	69.5	232.1	+11.9	92	627	18563	.384	357.2	245.7	+15.4	16	70
b	.884	73.4	223.4	+11.0	21	95	18564	.414	36.4	230.1	+12.5	77	706
18567	.972	50.7	215.5	+35.4	38	192	b	.469	49.5	223.4	+11.1	18	96
18568	.979	112.7	202.7	-23.6	17	79	18567	.783	32.0	214.1	+35.4	37	241
							18569	.664	100.0	202.8	-11.9	0	7
							18570	.753	58.2	202.4	+18.1	2	14
Mar. 15. 537	(-24.5)	(269.0)	(-7.2)				18568	.698	116.6	201.9	-23.5	9	51
18556	.832	292.4	321.3	+14.1	12	75	18572	.878	105.4	182.6	-16.9	25	108
18560	.767	293.9	314.9	+13.1	2	9	18574	.907	92.9	179.3	-5.6	0	13
18566	.693	258.9	313.0	-12.9	9	52	18575	.963	65.6	174.7	+21.1	53	315
18557	.666	293.7	307.1	+9.8	52	283							
18559	.564	305.3	297.0	+12.6	224	1387							
1398b	.350	51.2	253.2	+5.7	3	15	Mar. 18. 642	(-25.0)	(228.1)	(-7.1)			
18563	.533	44.8	246.2	+15.5	15	64	18557	.982	281.9	305.4	+10.2	28	179
18564	.669	63.1	231.6	+11.9	82	535	18559	.950	286.2	297.3	+12.9	95	1778
b	.752	68.7	223.7	+10.8	11	90	18573	.904	279.8	291.4	+5.7	10	38
18567	.921	46.3	214.3	+35.5	37	249	18563	.479	322.1	245.8	+15.4	6	34
18569	.911	99.7	202.7	-11.8	2	13	18564	.340	351.6	231.0	+12.5	96	595
18568	.912	112.7	202.5	-23.6	11	42	b	.322	14.1	223.5	+11.1	22	84
18570	.945	68.5	202.0	+17.5	11	77	18567	.710	17.2	213.2	+35.7	25	222
							18569	.419	102.6	203.5	-11.7	4	6
							18568	.509	125.0	201.2	-23.3	2	10
Mar. 16. 482	(-24.7)	(256.6)	(-7.1)				18572	.718	105.8	182.3	-16.2	24	118
18556	.938	287.2	323.5	+13.4	10	44	18574	.759	90.5	178.7	-5.0	0	3
18566	.824	258.7	312.5	-13.3	6	46	18575	.859	59.8	175.4	+21.3	73	469
18557	.797	288.4	306.6	+10.0	36	231	a	.846	59.7	176.8	+20.9	51	365
18559	.707	296.7	296.9	+13.1	190	1413	18576	.917	76.9	163.6	+9.0	30	140
18571	.866	333.2	289.8	+44.7	2	11	18577	.953	103.8	154.7	-15.2	7	21
							18578	.979	63.6	154.6	+24.0	17	91

continued

- Group 18567. Mar. 14 - 25. A composite spot, followed by occasional companions.
- Group 18568. Mar. 14 - 21. A small regular spot, which breaks up and dies out near the central meridian.
- Group 18569. Mar. 15 - 19. One or two tiny spots.
- Group 18570. Mar. 15 - 17. A small spot.
- Group 18571. Mar. 16 - 17. A small spot.
- Group 18572. Mar. 16 - 28. A small regular spot.
- Group 18573. Mar. 17 - 18. One or two tiny spots.
- Group 18574. Mar. 17 - 18. A tiny spot.
- Group 18575. Mar. 17 - 28. A large bi-polar group.
- Group 18576. Mar. 18 - 29. A regular spot, preceded by some small companions on March 23 and 24.
- Group 18577. Mar. 18 - 21. A small spot.
- Group 18578. Mar. 18 - 30. A pair of spots, developing into a stream of normal type. The intermediate spots disappear by March 28 and the follower dies out before reaching the west limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area			
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		
1958		o	o	o			1958		o	o	o				
Mar. 19. 618		(-25.1)	(215.2)	(-7.1)			Mar. 21. 372	continued							
18559	.988	283.5	294.2	+12.1	28	346	18578	.805	51.2	148.4	+25.2	132	776		
18563	.617	306.6	246.0	+15.5	6	22	a	.762	49.6	152.7	+24.2	44	316		
18579	.537	324.5	234.4	+19.1	5	43	b	.831	52.1	145.5	+25.9	88	460		
18564	.436	320.1	231.8	+12.7	69	678	18581	.948	71.7	123.7	+14.8	0	6		
b	.342	336.1	223.3	+11.1	10	54	18582	.970	68.9	119.8	+18.4	30	313		
18567	.686	4.3	211.6	+36.0	45	302									
18569	.209	114.7	204.1	-11.9	5	18									
18568	.372	138.5	199.7	-23.0	4	23	Mar. 22. 605		(-25.5)	(175.8)	(-6.9)				
18572	.561	108.3	181.7	-16.0	16	102	18579	.903	294.3	235.8	+18.4	89	391		
18575	.748	53.1	175.4	+21.2	187	1135	18564	.862	288.6	232.3	+12.2	30	258		
a	.727	51.7	177.6	+21.2	129	704	b	.778	290.4	223.6	+11.1	7	32		
18576	.812	73.7	163.3	+8.8	28	160	18567	.810	326.5	209.6	+36.7	47	278		
18580	.862	112.4	155.6	-22.8	0	11	18583	.355	264.1	196.6	-8.5	2	20		
18577	.871	103.7	154.1	-15.4	2	15	18572	.177	208.4	180.8	-15.8	22	95		
18578	.946	60.5	150.2	+24.9	30	194	18575	.479	3.5	174.0	+21.5	230	1394		
							a	.477	355.3	178.2	+21.3	115	658		
							b	.501	11.5	169.6	+22.4	115	736		
Mar. 20. 378		(-25.2)	(205.2)	(-7.0)			18576	.348	38.9	163.1	+8.9	26	129		
18563	.729	299.4	246.3	+15.7	3	18	18580	.456	129.9	153.5	-23.3	1	6		
18579	.629	312.8	234.3	+19.1	14	112	18578	.653	37.7	149.8	+24.8	117	663		
18564	.542	307.4	231.3	+12.9	77	585	a	.614	33.9	153.8	+24.1	50	309		
b	.435	315.1	223.4	+11.2	8	41	b	.711	41.7	144.1	+26.1	58	306		
18567	.690	352.9	211.2	+36.1	58	326	18581	.846	66.4	122.4	+15.7	7	35		
18568	.302	160.6	199.0	-23.5	2	16	18582	.880	63.3	119.4	+19.6	34	163		
18572	.423	113.3	181.5	-16.0	23	103	18584	.986	101.3	94.4	-12.3	175	879		
18575	.658	45.0	175.3	+21.6	328	1477	a	.986	101.3	94.4	-12.3	175	879		
a	.632	42.8	177.9	+21.3	202	817									
b	.708	48.2	170.5	+22.4	126	660									
18576	.707	70.0	163.1	+8.8	36	165	Mar. 23. 566		(-25.6)	(163.2)	(-6.9)				
18580	.762	114.0	156.4	-22.7	2	12	18579	.970	291.4	235.5	+18.7	43	251		
18577	.776	104.1	154.1	-15.3	2	9	18564	.931	286.2	229.2	+12.3	15	92		
18578	.892	57.8	149.3	+24.5	112	443	b	.895	286.1	224.2	+11.1	4	24		
							18567	.878	318.8	209.2	+36.6	30	285		
							18583	.576	264.6	198.5	-8.7	4	24		
Mar. 21. 372		(-25.3)	(192.1)	(-7.0)			18572	.331	240.6	180.6	-15.9	17	111		
1398e	.821	256.1	247.6	-15.4	2	3	18575	.505	339.0	174.3	+21.2	269	1457		
18563	.850	293.1	246.1	+15.4	2	8	a	.523	333.6	177.6	+21.1	129	734		
18579	.748	303.0	233.5	+18.8	32	162	b	.501	349.4	168.9	+22.5	124	608		
18564	.694	296.1	231.6	+12.4	52	487	18576	.289	356.8	164.1	+9.8	32	140		
b	.590	300.1	223.3	+11.2	12	43	18578	.559	21.0	150.5	+24.6	133	657		
18567	.726	339.6	210.3	+36.1	37	319	a	.524	14.8	154.8	+23.5	82	373		
18568	.310	203.5	199.8	-23.4	0	5	b	.618	29.6	143.4	+25.9	47	246		
18572	.243	130.1	181.0	-15.8	25	114	18582	.782	58.0	118.6	+19.6	32	187		
18575	.550	29.5	175.2	+21.8	234	1555	18585	.927	66.8	99.5	+18.4	0	17		
a	.524	24.9	178.4	+21.5	130	830	18584	.942	101.9	92.0	-13.5	192	1374		
b	.594	35.5	170.3	+22.3	104	725	a	.932	100.6	93.8	-12.4	154	959		
18576	.551	61.7	162.8	+9.0	31	137	b	.965	104.3	87.4	-15.5	38	415		
18580	.620	118.5	156.0	-22.9	3	10	18586	.960	95.3	89.1	-7.0	48	307		
18577	.612	105.7	154.6	-15.1	0	1	18587	.991	109.4	79.1	-20.1	72	592		
							a	.991	109.4	79.1	-20.1	72	592		

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		o	o	o			1958		o	o	o		
Mar. 24. 376		(-25.7)	(152.5)	(-6.9)			Mar. 26. 303	continued					
18564	.968	284.1	225.7	+11.7	4	29	18572	.797	255.1	180.1	-16.0	25	118
18567	.929	314.5	208.3	+36.9	42	260	18575	.795	304.7	171.8	+22.1	201	1253
18583	.736	265.1	200.1	-8.3	5	15	a	.836	302.0	176.8	+22.0	106	716
18572	.483	249.6	180.4	-15.7	18	91	b	.755	308.1	167.0	+22.5	95	537
18575	.583	324.1	174.0	+21.7	267	1411	18576	.638	293.8	163.2	+9.4	17	119
a	.611	318.5	178.1	+21.0	144	787	18578	.623	325.5	149.8	+24.5	74	522
b	.551	332.1	168.6	+22.5	110	553	a	.664	319.0	155.5	+24.0	42	294
18576	.340	326.3	163.5	+9.6	29	118	b	.591	336.4	142.3	+26.1	24	181
18580	.288	182.3	151.8	-23.5	0	16	18580	.492	231.9	152.0	-23.8	1	15
18578	.517	2.9	150.9	+24.0	105	540	18582	.467	18.9	117.9	+19.4	32	198
a	.506	355.3	155.1	+23.3	56	295	18588	.237	93.7	113.4	-7.5	23	187
b	.564	14.9	143.2	+26.1	44	216	18589	.327	88.0	108.0	-5.8	18	93
18582	.681	50.9	118.5	+19.7	30	184	18585	.628	47.5	97.9	+19.1	7	47
18588	.686	90.5	109.1	-5.4	12	49	18584	.579	103.4	91.9	-13.3	234	1483
18585	.859	63.1	98.6	+18.8	2	11	a	.548	101.7	94.0	-12.1	149	998
18584	.868	101.8	91.8	-13.7	220	1311	b	.635	105.9	88.0	-15.3	85	485
a	.849	100.3	94.0	-12.4	151	883	18586	.630	92.9	87.9	-7.1	32	213
b	.896	103.6	88.3	-15.2	69	428	18587	.797	112.1	74.7	-21.7	270	1992
18586	.889	94.1	89.5	-6.8	23	182	a	.765	111.4	77.7	-20.7	189	1129
18587	.973	110.9	74.5	-21.8	264	1788	b	.855	112.6	68.5	-22.8	81	863
a	.956	109.0	78.5	-20.1	197	791							
b	.987	111.5	69.8	-22.3	67	997							
Mar. 25. 492		(-25.8)	(137.8)	(-6.9)			Mar. 27. 437		(-25.9)	(112.1)	(-6.8)		
18567	.982	310.2	208.2	+37.3	34	236	18572	.919	255.8	179.5	-15.7	11	34
18583	.855	263.9	196.9	-8.8	2	12	18575	.913	298.1	172.3	+22.1	101	759
18572	.678	254.0	180.3	-15.9	21	100	a	.936	296.9	176.3	+22.2	69	519
18575	.706	311.2	172.6	+22.0	207	1238	b	.876	300.7	166.6	+22.6	32	240
a	.742	307.4	176.9	+21.4	127	675	18576	.810	286.7	163.7	+9.2	28	130
b	.665	315.6	167.9	+22.3	80	563	18578	.752	311.1	150.4	+24.3	74	389
18576	.504	302.6	163.2	+9.4	22	113	a	.793	307.4	155.5	+23.9	46	266
18580	.373	216.9	151.9	-24.0	2	17	b	.691	320.1	141.5	+26.0	23	107
18578	.559	339.2	150.4	+24.6	114	611	18582	.454	348.1	117.8	+19.4	31	174
a	.576	331.7	155.1	+23.8	84	357	18588	.048	265.2	114.8	-7.0	29	192
b	.550	352.2	142.5	+26.0	25	204	18589	.075	58.3	108.4	-4.5	26	130
18582	.550	35.6	118.0	+20.0	38	170	18585	.481	27.1	98.8	+18.6	16	84
18588	.431	92.6	112.2	-7.4	16	49	18584	.361	106.9	91.5	-12.4	197	1434
18589	.511	87.0	107.2	-4.4	2	10	a	.328	106.1	93.4	-11.7	118	916
18585	.737	55.4	97.9	+19.4	8	51	b	.425	110.1	87.9	-14.5	79	518
18584	.717	101.3	91.8	-12.9	268	1539	18586	.402	91.2	88.3	-6.7	43	238
a	.699	100.2	93.3	-12.0	188	1094	18587	.640	115.5	73.9	-21.3	268	1564
b	.767	104.4	87.6	-15.4	80	445	a	.591	115.9	77.7	-20.5	172	888
18586	.758	93.3	88.3	-7.0	38	205	b	.712	115.1	68.0	-22.5	96	676
18587	.891	110.4	74.4	-21.3	337	1562	18590	.964	105.9	36.5	-17.1	124	862
a	.866	109.6	77.6	-20.4	240	829	18591	.993	63.9	33.1	+24.8	16	228
b	.932	111.4	68.2	-22.4	97	733							
Mar. 26. 303		(-25.9)	(127.1)	(-6.8)			Mar. 28. 344		(-26.0)	(100.2)	(-6.7)		
18583	.954	264.3	200.0	-7.5	0	10	18572	.982	255.3	180.4	-15.7	5	28
						continued	18575	.972	295.4	172.1	+22.7	83	448
							a	.987	294.6	177.0	+22.9	73	370
							b	.942	297.4	165.3	+23.0	10	78
													continued

- Group 18588. Mar. 24-Apr. 2. A pair of spots on March 24; a single spot on March 25, developing into a cluster which becomes composite in structure by March 28.
- Group 18589. Mar. 25-Apr. 2. A few small spots on March 25, developing into a stream. After March 27, the leader temporarily increases in area, while the following spots break up and die out by March 31.
- Group 18590. Mar. 27-Apr. 8. A stream, of which the leader, a composite spot, becomes regular in outline after March 31. The following components die out by April 5.
- Group 18591. Mar. 27-Apr. 8. A regular spot, with occasional companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Mar.28. 344	<i>continued</i>						Mar.29. 470	<i>continued</i>					
18576	.914	283.4	164.2	+ 9.3	20	127	18595	.991	54.8	9.4	+33.4	129	805
18578	.857	304.0	151.3	+24.5	82	534	18596	.984	68.9	8.9	+19.3	5	44
a	.882	302.3	154.9	+24.3	72	485	18597	.985	106.7	3.8	-17.6	25	212
b	.775	310.8	140.5	+25.3	10	49							
18582	.525	327.5	117.6	+19.8	33	154							
18588	.258	270.0	115.2	- 6.5	63	361	Mar.30. 319	(-26.1)	(74.1)	(- 6.6)			
18589	.182	284.1	110.3	- 4.1	48	215	18578	.995	295.6	154.4	+24.5	29	484
18585	.433	2.1	99.2	+18.8	14	104	a	.995	295.6	154.4	+24.5	29	484
18584	.171	124.7	92.0	-12.2	217	1509	18593	.930	298.2	136.9	+23.1	27	192
a	.139	126.6	93.7	-11.4	134	942	18582	.771	302.1	117.8	+19.4	15	92
b	.250	122.4	87.7	-14.2	83	567	18588	.674	267.5	116.6	- 6.5	79	414
18586	.212	90.8	87.9	- 6.7	46	288	18589	.620	273.5	112.2	- 3.0	45	207
18587	.498	122.5	73.5	-21.5	272	1546	18585	.571	318.1	97.8	+19.0	25	135
a	.446	124.7	77.2	-20.9	159	898	18594	.429	307.8	94.1	+ 9.0	2	21
b	.576	120.4	67.8	-22.6	113	648	18584	.311	249.0	91.3	-12.7	189	1273
18590	.900	105.4	35.5	-16.7	149	1015	a	.343	254.7	93.7	-11.4	129	845
a	.889	105.5	37.0	-16.8	116	820	b	.263	238.5	87.4	-14.3	60	428
18591	.961	61.6	31.7	+24.8	99	329	18586	.219	270.1	86.8	- 6.4	72	431
18592	.990	104.0	17.0	-14.8	14	151	18587	.271	175.9	72.9	-22.2	267	1571
							a	.263	188.9	76.6	-21.6	166	893
							b	.300	159.5	67.6	-22.8	101	678
							18590	.637	107.9	35.1	-16.4	193	1149
Mar.29. 470	(-26.1)	(85.3)	(- 6.7)				a	.625	108.9	36.1	-16.9	164	1027
18576	.986	280.5	164.1	+ 9.1	26	164	18591	.796	51.7	30.8	+24.8	78	322
18578	.961	297.7	154.0	+24.2	72	516	18592	.847	104.1	15.9	-15.4	34	126
a	.962	297.8	154.2	+24.4	68	500	18596	.931	66.3	9.8	+19.2	8	55
b	.874	300.9	139.5	+22.8	4	16	18595	.957	52.6	9.4	+32.9	196	913
18593	.861	304.5	136.7	+25.0	6	37	18597	.939	106.1	3.4	-17.3	32	183
1398f	.754	301.2	127.9	+18.1	3	10	18598	.990	67.4	355.8	+21.2	21	185
18582	.663	309.9	117.8	+19.4	25	110							
18588	.511	268.1	116.1	- 6.7	60	369							
18589	.455	275.4	112.2	- 3.6	46	284	Mar.31. 327	(-26.2)	(60.8)	(- 6.6)			
18585	.484	332.4	98.9	+18.8	31	127	18593	.991	294.5	139.2	+23.1	54	498
18594	.290	336.8	91.9	+ 8.7	7	37	18588	.834	266.6	117.5	- 6.5	66	563
18584	.145	227.6	91.6	-12.2	155	1146	18582	.881	296.6	117.4	+19.6	6	51
a	.165	240.3	93.7	-11.3	85	798	18589	.800	272.2	113.7	- 2.2	27	148
b	.138	194.7	87.4	-14.4	70	348	18585	.709	306.0	98.1	+19.4	8	85
18586	.027	273.2	86.8	- 6.7	46	305	18584	.521	257.2	92.0	-12.2	197	1229
18587	.326	143.0	73.2	-21.5	212	1572	a	.541	259.0	93.5	-11.5	163	973
a	.287	150.9	76.7	-21.1	151	859	b	.459	251.6	87.4	-14.2	34	256
b	.400	134.1	67.3	-22.5	61	713	18586	.441	269.8	87.0	- 6.0	91	572
18590	.762	106.4	35.7	-16.8	144	1061	18587	.335	216.0	73.0	-22.1	208	1463
a	.751	106.7	36.7	-16.9	110	860	a	.364	224.2	76.5	-21.4	110	850
18591	.883	56.9	30.8	+25.0	85	301	b	.298	199.9	67.1	-22.8	98	613
18592	.932	103.9	15.8	-15.4	33	141	18599	.401	56.2	41.3	+ 6.7	25	177
						<i>continued</i>						<i>continued</i>	

- Group 18592. Mar.28-Apr.6. A double spot, of which only one part is visible on April 6.
- Group 18593. Mar. 29 - 31. A few spots, appearing near the west limb.
- Group 18594. Mar. 29 - 30. A pair of small spots on March 29; a single spot on March 30.
- Group 18595. Mar.29-Apr.10. A compact stream, which spreads out after April 4 and begins to disintegrate as it approaches the west limb.
- Group 18596. Mar.29-Apr.3. A single spot, except on April 1 and 3, when there is a pair.
- Group 18597. Mar.29-Apr.10. Two or three small spots, developing into a stream, of which the leader becomes a composite spot. On April 4 a preceding regular spot detaches itself, while the remainder of the group begins to break up and die out.
- Group 18598. Mar.30-Apr.11. A variable cluster of small spots, not seen on April 6. Fresh activity develops on April 7, when a stream appears which is growing rapidly as it passes from sight.
- Group 18599. Mar.30-Apr.7. A stream, led by a regular spot which is the sole survivor at the west limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Mar. 31. 327	<i>continued</i>						Apr. 2. 361	<i>continued</i>					
18590	.450	113.8	35.5	-16.4	178	1041	18599	.277	326.1	42.9	+6.8	44	212
a	.429	116.1	37.2	-16.9	141	684	18590	.173	188.9	35.6	-16.3	143	814
18591	.693	42.4	29.8	+25.1	73	318	a	.182	195.6	36.9	-16.5	122	677
1398g	.697	120.7	19.2	-25.8	2	22	18591	.530	8.2	29.2	+25.0	70	303
18592	.707	105.1	15.9	-15.3	33	157	18592	.348	117.6	15.4	-15.4	24	103
18596	.832	61.4	10.3	+19.3	5	40	18596	.577	40.8	10.5	+19.8	2	10
18595	.898	47.5	8.5	+33.4	197	1177	18595	.728	31.0	7.6	+32.7	189	1123
18597	.834	106.0	4.1	-17.0	54	304	18597	.514	111.7	4.2	-16.6	157	613
18598	.919	64.8	358.8	+20.0	20	183	18598	.704	51.3	358.1	+20.8	17	67
18600	.987	62.8	344.6	+25.4	0	18	1398i	.754	43.8	358.0	+27.6	7	29
							18600	.874	55.0	341.2	+26.2	16	100
Apr. 1. 362	(-26.2)	(47.2)	(-6.5)				18601	.874	73.1	335.7	+11.4	18	76
18588	.945	264.7	118.4	-7.1	36	296	1398j	.938	77.0	326.2	+9.7	3	13
18582	.961	292.3	117.4	+19.3	0	12	18602	.942	111.1	322.9	-22.0	3	16
18589	.928	270.1	115.2	-2.3	17	101	18603	.976	115.5	315.2	-26.2	9	61
18585	.859	297.2	101.1	+19.3	4	17	Apr. 3. 370	(-26.3)	(20.7)	(-6.4)			
18584	.713	259.0	92.8	-12.4	139	1170	18584	.947	259.0	92.6	-12.4	88	773
a	.729	260.0	94.2	-11.7	118	1006	a	.953	259.2	93.7	-12.2	83	724
b	.646	255.8	87.2	-14.1	21	164	18586	.905	264.9	85.8	-7.4	27	157
18586	.632	267.4	86.5	-6.7	67	398	18587	.794	247.1	72.5	-22.0	160	762
18587	.497	234.5	73.1	-22.6	230	1274	a	.837	248.2	77.2	-21.7	112	526
a	.540	239.0	77.0	-21.7	149	761	b	.724	244.5	65.6	-22.7	48	236
b	.430	227.0	67.1	-23.1	81	513	18599	.454	300.4	43.9	+7.4	29	158
18599	.247	20.1	42.3	+6.8	38	242	18590	.315	234.6	36.2	-16.7	165	827
18590	.263	130.4	35.2	-16.1	190	1100	a	.328	235.8	37.1	-16.7	156	718
a	.250	137.2	37.0	-16.9	155	777	18591	.535	346.2	28.7	+24.8	88	336
18591	.588	28.6	29.2	+24.8	74	385	18604	.326	174.9	18.9	-25.2	18	81
18592	.534	109.0	15.7	-15.5	28	124	18592	.184	150.5	15.3	-15.5	19	45
18596	.705	57.2	9.0	+17.3	10	55	18596	.452	21.8	10.6	+18.4	5	12
18595	.816	41.4	7.4	+32.7	182	1294	18595	.657	17.7	7.1	+32.4	132	1002
18597	.690	108.1	4.0	-17.1	76	490	18597	.325	122.9	4.3	-16.3	104	600
18598	.828	59.2	357.8	+20.9	16	71	18598	.572	37.5	358.9	+20.9	11	46
18600	.947	59.6	342.0	+26.0	14	120	18600	.789	48.9	339.3	+26.4	15	36
18601	.950	76.2	337.4	+10.9	3	6	18601	.728	68.1	337.4	+11.1	29	82
Apr. 2. 361	(-26.3)	(34.0)	(-6.5)				18602	.847	112.3	323.0	-22.3	2	4
18588	.995	263.2	118.6	-7.4	19	216	18603	.915	116.0	314.4	-26.3	5	31
18589	.989	268.3	115.4	-2.6	7	52	18606	.990	72.9	301.3	+15.8	24	154
1398h	.900	296.7	93.0	+20.5	2	15	18605	.990	76.3	300.7	+12.5	69	604
18584	.851	259.7	92.7	-12.2	112	988	Apr. 4. 378	(-26.3)	(7.4)	(-6.3)			
a	.860	260.1	93.7	-11.8	97	893	18584	.991	257.5	90.7	-13.2	37	458
b	.796	256.9	86.9	-14.4	15	95	a	.996	258.0	93.4	-12.5	32	404
18586	.777	266.5	85.2	-6.8	36	197	18586	.976	263.7	85.2	-7.5	4	29
18587	.644	243.1	72.1	-22.0	130	931	18587	.899	248.6	71.6	-21.9	106	732
a	.701	245.7	77.2	-21.5	81	528	a	.932	249.3	76.7	-21.5	76	511
b	.580	238.7	66.4	-23.0	49	403	b	.848	247.3	65.0	-22.5	30	221
						<i>continued</i>							<i>continued</i>

Group 18600. Mar. 31-Apr. 8.

A few small spots, not seen on April 7.

Group 18601. Apr. 1 - 7.

One or two small spots, developing into a short stream of which only the leader remains on April 7.

Group 18602. Apr. 2 - 6.

A small spot.

Group 18603. Apr. 2 - 4.

A small spot.

Group 18604. Apr. 3 - 9.

A short stream, of which only the leader remains on April 9.

Group 18605. Apr. 3 - 15.

A stable regular spot, with occasional companions.

Group 18606. Apr. 3 - 15.

A stream, consisting of a leading regular and following composite spot. The leader breaks up on April 7, while the composite spot becomes regular in outline on April 8. Only the latter is visible on April 14.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Apr. 4. 378	continued						Apr. 6. 360	continued					
18599	.610	291.9	42.1	+ 7.9	39	183	18599	.918	281.7	46.2	+ 8.2	14	109
18590	.506	247.7	36.5	-16.6	155	964	18590	.818	254.2	36.1	-16.4	136	806
a	.506	247.7	36.5	-16.6	154	957	a	.818	254.2	36.1	-16.4	136	806
18591	.608	327.9	28.2	+25.0	71	340	18591	.814	307.8	26.5	+25.6	61	325
18604	.375	208.4	18.7	-25.4	24	178	18604	.644	236.8	17.7	-25.6	19	89
18592	.211	218.7	15.2	-15.7	12	37	18592	.567	251.2	14.9	-15.7	2	8
18595	.625	1.1	6.6	+32.2	110	951	18597	.440	244.2	5.5	-16.7	47	324
18597	.177	167.2	5.1	-16.2	84	584	18595	.694	332.4	3.4	+32.1	157	1090
18598	.475	17.9	358.5	+20.5	7	78	18610	.523	347.0	348.6	+24.4	21	109
18600	.685	37.8	339.4	+27.1	5	35	1399b	.462	356.9	342.7	+21.2	2	13
18601	.609	58.1	335.4	+13.4	16	119	18600	.572	3.4	339.0	+28.5	2	40
18602	.724	114.9	322.4	-22.2	4	30	18601	.333	12.4	337.0	+12.7	8	26
18607	.800	64.3	318.9	+16.1	6	52	18602	.417	132.6	321.9	-22.1	6	20
18603	.818	118.2	314.0	-26.5	2	21	18607	.526	45.4	318.4	+15.9	137	865
18608	.868	72.7	309.8	+11.6	24	138	18608	.582	61.3	310.0	+10.9	45	274
a	.860	73.1	310.6	+11.1	18	103	a	.559	61.4	311.4	+10.1	21	181
18605	.936	74.2	300.4	+12.4	130	599	18612	.547	99.6	308.1	-10.4	2	13
18606	.952	71.5	298.1	+15.4	61	339	18613	.625	105.2	303.0	-13.7	10	36
18609	.956	81.0	295.7	+ 6.6	10	69	18605	.705	65.6	300.3	+12.2	118	514
							18606	.765	64.1	295.9	+15.1	113	666
							18609	.741	74.4	295.4	+ 7.2	7	70
Apr. 5. 612	(-26.4)	(351.1)	(- 6.3)				18611	.924	38.4	290.1	+42.6	3	19
18587	.984	248.5	72.2	-22.2	49	463	18614	.972	41.0	277.6	+44.7	0	8
a	.995	248.6	77.1	-21.8	34	354							
b	.956	248.2	65.0	-22.6	15	109							
18599	.821	284.4	44.3	+ 8.0	26	155	Apr. 7. 318	(-26.4)	(328.6)	(- 6.2)			
1399a	.757	261.5	40.5	-10.5	2	14	18599	.986	279.2	47.7	+ 8.0	20	114
18590	.714	253.0	36.3	-16.5	178	1007	18590	.919	254.7	35.9	-16.5	126	808
a	.714	253.0	36.3	-16.5	178	1007	a	.919	254.7	35.9	-16.5	126	804
18591	.736	313.6	27.1	+25.3	90	311	18591	.901	302.6	25.9	+25.8	70	285
18604	.540	230.9	18.6	-25.4	28	173	18604	.780	242.0	17.1	-25.2	7	48
18592	.426	245.7	14.8	-15.8	1	20	18597	.615	250.2	5.6	-16.9	47	219
18597	.294	231.6	4.9	-16.6	87	382	18595	.780	321.7	3.5	+32.6	96	775
18595	.650	342.2	4.6	+31.9	149	882	18598	.634	316.4	356.6	+21.8	9	25
18598	.462	344.6	358.6	+20.1	6	47	18610	.591	328.4	348.4	+24.3	16	60
18610	.521	5.4	348.0	+24.8	12	50	18601	.342	328.5	339.0	+10.8	4	16
18600	.596	17.7	339.3	+28.3	7	35	18607	.411	23.9	318.7	+15.8	112	765
18601	.403	37.7	336.5	+12.5	8	38	18608	.420	47.6	310.3	+10.5	50	217
18602	.535	122.7	322.1	-22.3	8	33	a	.395	46.1	311.9	+ 9.9	39	154
18607	.636	55.2	318.3	+16.0	75	396	18612	.333	101.6	309.4	- 9.7	1	5
18608	.703	67.2	309.9	+11.1	55	267	18613	.434	110.3	303.9	-14.2	9	20
a	.689	67.4	311.0	+10.5	37	181	18605	.547	56.5	300.9	+12.0	96	515
18605	.810	69.9	300.2	+12.2	123	580	18606	.627	56.4	296.0	+15.1	93	512
18606	.851	67.6	296.6	+15.3	115	648	18609	.588	67.7	295.5	+ 7.6	7	40
18609	.842	77.4	295.4	+ 7.0	17	80	18611	.866	32.6	289.8	+42.1	7	20
18611	.960	41.9	290.5	+42.7	7	48	18614	.931	36.8	277.4	+44.4	5	20
Apr. 6. 360	(-26.4)	(341.2)	(- 6.2)				Apr. 8. 384	(-26.4)	(314.5)	(- 6.1)			
18587	.990	248.1	64.7	-22.5	7	14	18590	.985	254.4	35.7	-16.4	138	722
b	.990	248.1	64.7	-22.5	7	14	a	.985	254.4	35.7	-16.4	138	722
						continued							continued

Group 18607. Apr. 4 - 13. A few small spots on April 4, developing into a large stream.
Group 18608. Apr. 4 - 13. A short stream, led by a regular spot which is the only remaining component on April 11.
Group 18609. Apr. 4 - 8. A small spot.
Group 18610. Apr. 5 - 9. A small stream, of which only the leader remains by April 8.
Group 18611. Apr. 5 - 8. A small spot.
Group 18612. Apr. 6 - 7. One or two tiny spots.
Group 18613. Apr. 6 - 12. A pair of spots on April 6 and 7; a single spot on April 8, after which the group becomes a stream.
Group 18614. Apr. 6 - 11. Intermittent. A small spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°	°	°				1958	°	°	°			
Apr. 8. 384	<i>continued</i>						Apr. 10. 350	<i>continued</i>					
18591	.968	299.0	24.7	+26.0	71	298	18619	.102	163.9	287.0	-11.5	4	20
18604	.899	244.7	18.3	-25.3	13	63	18620	.572	119.7	256.5	-21.4	2	23
18597	.789	253.6	6.5	-16.7	34	188	18615	.540	103.9	256.4	-13.5	11	175
18595	.868	314.0	2.5	+33.0	50	516	18616	.783	66.9	240.9	+13.9	4	91
18598	.766	303.9	357.2	+20.7	14	99	18621	.950	92.7	216.7	-4.4	17	92
18610	.722	312.4	350.1	+24.1	8	24							
18600	.663	326.2	339.1	+27.8	1	5							
18607	.383	350.4	318.3	+16.0	116	857	Apr. 11. 480	(-26.3)	(273.6)	(-5.9)			
18608	.305	13.4	310.4	+11.1	35	213	18598	.991	293.3	352.6	+22.1	14	144
a	.289	8.0	312.2	+10.4	25	146	18617	.944	282.7	342.5	+9.9	10	24
18613	.196	135.2	306.4	-14.0	4	9	1399d	.892	307.3	327.9	+29.3	10	34
18605	.389	37.4	300.6	+12.0	85	485	18607	.768	296.2	319.1	+15.7	119	686
18606	.468	39.5	296.6	+15.3	69	365	18618	.750	291.3	319.0	+11.7	7	23
18609	.391	55.8	295.6	+6.9	0	4	18608	.674	293.5	312.5	+11.0	31	204
18611	.804	23.4	289.1	+41.9	3	11	a	.674	293.5	312.5	+11.0	31	204
18614	.879	30.4	276.0	+44.5	7	21	18613	.493	249.4	302.0	-15.2	11	40
18615	.857	102.5	255.3	-13.8	4	19	18605	.534	303.7	300.5	+11.9	59	508
18616	.970	75.6	240.6	+12.4	26	182	18606	.509	314.6	295.6	+15.4	44	254
							18622	.449	326.3	288.6	+16.1	1	6
Apr. 9. 389	(-26.3)	(301.2)	(-6.0)				18619	.256	245.3	287.3	-11.8	4	23
18604	.979	246.1	20.8	-24.6	0	17	18614	.756	356.5	277.2	+42.8	2	8
18597	.904	254.1	6.3	-16.9	44	300	18620	.392	135.6	256.5	-21.8	16	61
18595	.939	308.9	2.0	+33.3	73	567	18615	.328	115.5	255.9	-13.7	13	56
18598	.885	296.8	358.4	+20.3	97	463	18616	.663	61.9	236.8	+13.5	6	44
18610	.835	304.3	350.1	+24.1	2	12	18621	.832	91.7	217.3	-4.6	14	68
18617	.671	292.5	340.1	+10.1	10	71							
18607	.465	322.5	318.2	+15.8	148	923	Apr. 12. 561	(-26.3)	(259.4)	(-5.8)			
18618	.410	315.6	318.1	+11.2	2	11	18618	.887	286.6	319.5	+11.8	10	56
18608	.339	329.1	311.4	+11.0	40	227	18607	.894	290.9	319.4	+15.7	69	455
a	.344	325.9	312.5	+10.6	34	187	18608	.831	287.0	313.2	+10.6	34	182
18613	.154	194.5	303.5	-14.5	15	71	a	.831	287.0	313.2	+10.6	34	182
18605	.312	1.3	300.8	+12.1	101	487	18613	.677	253.8	301.6	-15.2	1	14
18606	.375	13.5	296.0	+15.3	62	355	18605	.705	293.5	300.6	+11.9	83	431
18615	.708	103.5	256.3	-13.8	9	57	18606	.654	301.3	294.6	+15.1	26	136
1399c	.865	74.8	243.5	+9.9	2	7	18622	.566	306.5	287.3	+14.5	8	50
18616	.909	70.5	239.0	+14.9	5	57	18620	.289	170.1	256.3	-22.3	12	46
							18615	.159	154.3	255.3	-14.0	9	62
Apr. 10. 350	(-26.3)	(288.6)	(-5.9)				18621	.671	90.5	217.3	-4.6	17	62
18597	.972	254.1	6.0	-16.9	33	318	18623	.978	47.7	190.6	+39.2	5	21
18595	.979	304.4	0.5	+31.9	0	107							
18598	.955	293.7	357.4	+20.5	90	855	Apr. 13. 575	(-26.2)	(246.0)	(-5.7)			
18617	.829	286.3	342.3	+10.0	2	22	18618	.973	283.6	320.8	+11.8	4	19
18607	.600	306.3	318.6	+15.7	142	794	18607	.972	287.8	319.8	+15.7	61	451
18608	.483	305.3	312.2	+10.7	31	178	18608	.941	284.6	314.2	+11.7	13	124
a	.488	304.7	312.6	+10.7	30	171	18605	.839	288.0	300.4	+11.7	76	418
18613	.286	234.9	302.6	-15.2	8	63	18606	.795	294.0	294.6	+15.1	27	192
18605	.369	326.3	300.6	+12.0	105	434	18624	.793	308.2	289.4	+25.2	3	18
18606	.383	341.3	295.9	+15.3	43	269	18622	.726	295.7	288.2	+14.1	1	21
						<i>continued</i>						<i>continued</i>	

Group 18615. Apr. 8 - 13. A stream of small spots, of which only the leader remains on April 13.

Group 18616. Apr. 8 - 11. A few small spots.

Group 18617. Apr. 9 - 11. A pair of spots on April 9; a single spot on April 10 and 11.

Group 18618. Apr. 9 - 13. One or two small spots, not seen on April 10.

Group 18619. Apr. 10 - 11. Two or three small spots.

Group 18620. Apr. 10 - 14. A stream of small spots.

Group 18621. Apr. 10 - 16. A small regular spot.

Group 18622. Apr. 11 - 13. Two or three small variable spots.

Group 18623. Apr. 12 - 17. A single small spot.

Group 18624. Apr. 13 - 15. A small stream, developing near the west limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Apr. 13. 575	<i>continued</i>						Apr. 16. 368	<i>continued</i>					
1399e	.840	327.4	282.4	+40.4	2	20	18630	.345	309.3	224.6	+7.3	2	19
18615	.278	229.4	258.6	-15.9	0	4	18621	.151	277.1	217.7	-4.4	1	6
18620	.329	208.7	255.8	-22.3	6	32	18625	.196	207.7	214.5	-15.4	1	11
1399f	.302	354.6	247.7	+11.7	1	15	18623	.767	23.9	185.5	+39.3	2	7
1399g	.199	353.2	247.4	+5.7	1	7	18626	.678	55.9	173.1	+17.8	27	206
1399h	.275	22.5	239.9	+9.0	1	4	18629	.944	44.8	149.9	+39.3	30	129
18621	.478	89.8	217.5	-4.9	9	44	18628	.878	111.2	148.0	-21.2	146	1107
18625	.539	110.5	214.5	-15.7	9	41	18631	.924	63.7	146.2	+21.7	0	18
18623	.937	44.0	188.8	+39.3	3	13							
18626	.951	65.5	178.1	+21.2	6	58							
Apr. 14. 619	(-26.2)	(232.2)	(-5.6)				Apr. 17. 297	(-26.0)	(196.8)	(-5.4)			
18605	.939	284.6	300.0	+11.6	88	418	18627	.850	261.0	255.2	-10.5	23	107
18606	.896	289.0	292.9	+14.2	20	121	18632	.798	265.0	249.8	-7.2	0	6
18624	.896	302.2	289.1	+25.5	15	101	18633	.742	293.4	241.0	+13.2	8	79
18620	.452	229.2	253.8	-22.3	0	4	18634	.606	312.0	225.2	+19.1	2	16
18627	.359	251.0	252.4	-11.9	5	34	18630	.513	293.4	225.0	+6.9	9	45
1399i	.372	352.2	235.2	+15.9	0	4	18623	.728	12.4	185.1	+39.9	0	3
1399j	.208	45.4	223.7	+2.9	0	5	18626	.536	44.0	173.9	+17.6	31	207
18621	.255	86.6	217.5	-4.5	5	26	18629	.888	40.0	149.5	+39.2	22	130
18625	.358	119.6	213.4	-15.4	9	43	18628	.765	113.8	148.2	-21.5	183	1218
18623	.887	37.9	186.5	+40.5	4	27	18635	.934	98.4	127.4	-9.8	6	57
18626	.876	62.8	176.1	+20.5	7	52	18636	.988	76.2	117.5	+12.7	6	98
18628	.991	110.8	148.6	-21.3	7	225	Apr. 18. 363	(-25.9)	(182.8)	(-5.3)			
Apr. 15. 355	(-26.1)	(222.5)	(-5.6)				18627	.948	261.3	254.6	-10.0	10	52
18605	.983	282.8	300.3	+11.5	37	263	18632	.913	265.1	248.8	-6.6	2	39
18606	.958	286.9	293.4	+14.4	15	162	18633	.878	287.7	241.6	+12.7	2	30
18624	.960	299.3	291.0	+26.0	23	175	18634	.742	302.7	224.2	+19.6	1	32
18627	.520	258.2	253.6	-10.8	19	90	18637	.488	222.7	204.3	-25.9	2	18
18621	.086	77.2	217.7	-4.5	4	14	18638	.283	174.7	181.2	-21.6	1	6
18625	.201	145.9	215.8	-15.1	7	25	18639	.647	3.4	180.1	+34.8	5	41
18623	.832	32.6	186.8	+39.9	4	13	18626	.420	23.0	172.9	+17.4	32	195
18626	.820	61.9	172.7	+19.1	15	57	18629	.818	32.5	148.4	+39.2	25	130
18629	.986	47.9	150.4	+39.8	12	117	18628	.605	118.5	148.2	-21.1	196	1347
18628	.963	110.5	147.4	-21.2	73	630	18631	.708	50.5	146.7	+22.5	8	32
Apr. 16. 368	(-26.1)	(209.1)	(-5.5)				18635	.807	96.7	128.9	-8.6	3	27
1399k	.987	284.4	287.9	+13.2	6	55	18636	.930	73.3	116.7	+13.4	54	319
18627	.703	259.9	253.7	-11.0	14	99	Apr. 19. 574	(-25.8)	(166.8)	(-5.2)			
						<i>continued</i>	18634	.892	294.9	225.7	+19.4	15	55
							18637	.662	236.0	204.2	-25.8	14	81
													<i>continued</i>

- Group 18625. Apr. 13 - 16. A pair of widely-separated spots.
- Group 18626. Apr. 13 - 24. A cluster of spots, developing into a stream from April 17; only the leader remains on April 24.
- Group 18627. Apr. 14 - 18. A cluster of small spots.
- Group 18628. Apr. 14 - 26. A composite spot, developing into a compact stream.
- Group 18629. Apr. 15 - 23. A diminishing regular spot, with a few companions on April 20 and 21.
- Group 18630. Apr. 16 - 17. A few small spots.
- Group 18631. Apr. 16 - 25. A small spot, not seen on April 17, developing into a stream after April 19. Only the follower remains on April 25. This group is highly inclined to the equator.
- Group 18632. Apr. 17 - 18. A small spot.
- Group 18633. Apr. 17 - 18. A few small spots.
- Group 18634. Apr. 17 - 21. A few small spots.
- Group 18635. Apr. 17 - 21. One or two spots, not seen on April 20.
- Group 18636. Apr. 17 - 29. A regular spot, with a number of variable companions.
- Group 18637. Apr. 18 - 22. A pair of spots on April 18, developing into a short stream.
- Group 18638. Apr. 18 - 19. A tiny spot.
- Group 18639. Apr. 18 - 22. A small regular spot, with a distant companion on April 19.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Apr. 19. 574	<i>continued</i>						Apr. 22. 388	<i>continued</i>					
13991	.379	236.7	186.0	-16.9	0	5	18626	.761	297.7	174.2	+17.1	65	298
18638	.365	219.2	181.1	-21.3	0	1	18628	.408	223.1	147.0	-22.0	189	1662
18639	.679	343.8	180.2	+35.4	21	115	18631	.544	329.8	146.8	+23.2	24	98
18626	.393	343.7	173.4	+16.9	60	278	18629	.724	343.1	145.2	+38.9	8	60
18628	.416	133.2	147.9	-21.3	168	1384	18636	.358	33.1	118.1	+12.5	50	314
18631	.556	34.1	147.2	+22.5	5	43	1399o	.473	51.1	107.5	+12.6	0	8
18629	.746	20.9	146.8	+39.1	15	108	18640	.545	92.1	96.6	-5.3	11	62
18635	.602	96.6	129.8	-8.2	1	10	18641	.711	75.3	86.0	+6.8	20	161
18636	.787	68.8	118.1	+13.1	55	348	18642	.732	102.4	82.7	-12.5	13	86
18640	.953	94.9	94.3	-6.3	7	59	18643	.833	75.5	75.1	+9.1	51	275
							18644	.927	69.8	64.6	+16.6	50	308
							18645	.933	78.5	62.1	+8.8	9	41
Apr. 20. 563	(-25.7)	(153.7)	(-5.1)				Apr. 23. 368	(-25.4)	(116.6)	(-4.9)			
18634	.976	290.8	228.2	+19.0	4	65	18626	.874	293.0	173.8	+17.3	40	223
18637	.797	241.7	204.5	-25.4	13	75	1399p	.854	300.1	169.5	+22.4	0	10
18639	.746	329.7	181.1	+35.5	19	96	1399q	.587	297.7	148.5	+11.7	3	7
18626	.494	319.2	173.4	+17.1	56	344	18628	.564	237.0	147.2	-22.1	226	1530
18628	.299	161.9	148.0	-21.5	228	1372	18631	.647	315.0	146.3	+22.9	12	53
18631	.491	13.5	146.6	+23.3	27	175	18629	.778	332.6	144.0	+39.2	4	16
18629	.707	8.3	146.2	+39.1	14	82	18636	.302	358.2	117.2	+12.6	56	290
18636	.643	62.7	117.9	+13.0	69	326	1399r	.179	118.6	107.5	-9.7	1	5
18640	.852	94.1	95.2	-6.2	7	45	18646	.380	155.9	106.8	-25.0	3	11
18641	.941	80.7	84.6	+6.9	16	124	18640	.345	89.4	96.4	-4.4	9	40
18642	.940	101.7	83.3	-12.8	3	20	18641	.539	69.0	86.3	+6.9	19	119
18643	.980	80.7	76.3	+8.0	17	133	18642	.577	104.2	81.9	-12.1	10	64
							18643	.695	71.3	75.0	+9.1	34	204
Apr. 21. 305	(-25.6)	(143.9)	(-5.1)				18644	.834	66.1	64.0	+16.8	53	297
18634	.990	290.0	223.2	+18.9	0	24	18645	.835	75.8	61.8	+9.0	4	22
1399m	.949	255.8	215.9	-15.1	0	6	1399s	.855	97.6	57.7	-9.0	0	5
18637	.885	243.5	205.2	-25.7	17	101	18647	.953	74.0	46.3	+13.6	3	26
18639	.799	322.2	180.5	+35.0	15	70	18648	.984	105.4	36.2	-16.0	93	526
18626	.598	308.2	173.3	+17.2	74	452							
18628	.292	191.7	147.5	-21.7	221	1315							
1399n	.304	352.8	146.1	+12.4	4	22							
18631	.483	356.5	145.7	+23.6	32	142	Apr. 24. 375	(-25.3)	(103.3)	(-4.8)			
18629	.700	358.4	145.3	+39.1	14	83	18626	.969	289.6	176.4	+17.6	10	131
18635	.264	105.6	129.1	-9.0	1	6	1399t	.952	300.5	170.2	+27.1	0	11
18636	.520	55.1	118.1	+12.7	50	306	18628	.723	243.3	147.4	-22.4	125	1166
18640	.743	93.6	95.9	-6.1	7	44	18631	.772	305.5	146.2	+23.1	13	32
18641	.867	79.0	85.1	+6.8	27	133	1399u	.356	255.2	123.6	-9.7	4	13
18642	.866	101.8	83.8	-12.8	7	29	18636	.384	319.9	117.9	+12.4	42	211
18643	.946	79.8	74.1	+7.9	33	187	18646	.349	193.0	108.2	-24.5	3	8
18644	.988	72.3	65.1	+16.6	57	340	18640	.136	94.5	95.5	-5.4	6	18
18645	.987	80.2	64.5	+8.7	6	27	18641	.327	51.7	88.4	+7.0	18	66
							18642	.363	110.9	83.1	-11.9	6	31
							18643	.505	60.5	76.9	+10.1	27	181
Apr. 22. 388	(-25.5)	(129.6)	(-5.0)				18644	.694	59.9	64.7	+16.6	47	268
18637	.965	244.3	204.8	-26.0	13	68	18645	.693	71.7	61.7	+8.9	1	8
18639	.880	314.2	179.5	+34.6	7	33	18647	.859	72.1	46.6	+12.7	0	14
						<i>continued</i>	18648	.920	105.7	36.2	-16.3	91	522

- Group 18640. Apr. 19 - 26. A group of small variable spots.
 Group 18641. Apr. 20 - 30. A stream of small spots,
 Group 18642. Apr. 20 - 27. A cluster of variable spots, not seen on April 25 and 26.
 Group 18643. Apr. 20-May 2. A cluster of variable spots, developing into a stream of normal type after April 25.
 Group 18644. Apr. 21-May 3. A regular spot, with one or two companions until April 27.
 Group 18645. Apr. 21 - 24. One or two small spots.
 Group 18646. Apr. 23 - 25. A pair of tiny spots.
 Group 18647. Apr. 23 - 24. One or two small spots.
 Group 18648. Apr. 23-May 5. A regular spot, with a few occasional companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Apr.25.318		(-25.2)	(90.9)	(-4.7)			Apr.27.554	continued					
18628	.853	246.3	148.5	-22.6	107	1097	1399a	.271	335.8	67.7	+9.7	1	3
18631	.866	302.5	144.4	+25.0	2	7	18644	.361	351.3	64.5	+16.3	33	178
18636	.530	302.4	118.0	+12.2	45	229	1399b	.373	41.0	46.9	+11.9	1	4
18646	.440	219.6	108.7	-24.2	1	4	18655	.506	48.0	38.4	+15.5	3	10
18640	.122	269.2	97.9	-4.8	6	40	18648	.457	117.2	36.4	-16.1	91	448
18641	.215	5.1	89.8	+7.6	10	66	18651	.833	50.8	14.1	+28.7	34	205
18643	.349	40.8	77.5	+10.7	93	508	18656	.796	118.2	10.8	-25.0	2	6
18644	.553	50.4	64.6	+16.4	46	254	18653	.833	107.0	5.3	-16.6	21	122
18649	.701	61.2	51.3	+16.0	0	4	18652	.867	66.6	4.9	+17.7	137	916
18648	.817	106.6	36.5	-16.2	83	429	a	.837	66.6	8.2	+16.7	96	541
18650	.884	77.0	30.4	+9.1	2	19	b	.914	67.7	358.6	+18.2	41	375
18651	.985	60.0	15.3	+28.4	51	274	18657	.953	68.0	352.0	+19.4	0	15
18652	.993	72.7	9.7	+16.5	57	431	18654	.967	104.2	345.7	-14.8	48	523
a	.993	72.7	9.7	+16.5	57	431							
18653	.995	105.8	5.7	-16.2	24	182							
							Apr.28.444		(-24.7)	(49.6)	(-4.4)		
Apr.26.657		(-25.0)	(73.2)	(-4.6)			18636	.945	284.7	118.7	+12.4	24	163
1399v	.976	280.5	149.4	+9.1	4	45	18641	.688	286.5	91.2	+7.9	9	56
18628	.968	248.0	149.1	-22.4	147	886	18658	.655	251.0	89.5	-15.7	1	15
18636	.753	291.2	119.0	+12.6	32	182	18643	.539	299.3	78.1	+11.4	123	671
18640	.409	267.2	97.3	-5.3	3	16	a	.574	295.4	81.3	+10.5	73	429
1399w	.490	212.4	90.6	-28.8	1	11	b	.491	305.7	73.6	+12.6	50	242
18641	.365	305.2	90.6	+7.7	6	30	18644	.431	325.0	64.5	+16.3	34	173
1399x	.281	247.6	88.5	-10.5	1	8	18655	.393	29.8	38.0	+15.5	3	11
18643	.285	342.6	78.2	+11.1	91	636	18648	.302	133.4	36.4	-16.2	83	457
18644	.385	22.6	64.4	+16.2	32	189	18659	.337	117.3	31.8	-13.0	3	30
18649	.505	48.0	50.4	+15.4	4	26	18651	.741	44.1	13.8	+28.5	44	236
1399y	.717	47.6	37.6	+25.1	1	5	18656	.686	121.6	9.8	-24.4	13	62
18648	.617	111.2	36.5	-16.6	80	451	18652	.753	62.3	5.5	+17.3	164	1041
18650	.662	73.0	33.7	+7.6	1	5	a	.721	60.8	8.5	+17.3	99	649
1399z	.848	113.2	16.2	-22.0	0	7	b	.819	63.9	359.0	+18.3	65	392
18651	.909	56.1	14.6	+28.0	51	188	18653	.711	109.7	5.4	-17.0	26	129
18652	.942	70.2	5.5	+16.9	145	873	18657	.880	65.1	352.0	+19.4	2	11
a	.924	70.0	8.6	+16.4	90	553	18654	.893	104.7	346.4	-15.1	201	1432
b	.975	70.4	358.5	+17.9	55	320							
18653	.925	106.2	5.4	-16.7	26	133	Apr.29.328		(-24.6)	(37.9)	(-4.3)		
18654	.989	104.2	351.1	-14.7	16	105	18636	.992	283.3	119.2	+12.5	34	214
							18641	.821	283.0	91.6	+8.1	6	23
Apr.27.554		(-24.8)	(61.3)	(-4.5)			18660	.814	238.2	89.4	-28.1	4	22
18636	.861	287.2	118.4	+12.3	24	160	18658	.787	252.2	89.1	-16.6	0	4
18641	.526	292.6	90.5	+7.7	14	80	18643	.684	291.6	78.2	+11.2	88	586
18642	.370	247.2	81.7	-12.4	0	8	a	.716	289.0	81.2	+10.3	58	398
18643	.397	312.3	78.6	+11.1	95	649	b	.625	296.0	72.9	+12.3	30	188
a	.418	307.2	81.0	+10.4	40	393	18644	.554	308.8	64.5	+16.4	35	181
b	.360	324.6	73.6	+12.6	55	256	18655	.328	356.8	39.0	+14.7	1	5
							18648	.207	172.6	36.3	-16.1	85	449
						continued							continued

- Group 18649. Apr. 25 - 26. A single spot on April 25; several small spots on April 26.
- Group 18650. Apr. 25 - 26. A few tiny scattered spots.
- Group 18651. Apr.25-May 7. A regular spot.
- Group 18652. Apr.25-May 7. A bi-polar group, of which the follower begins to break up and die out after May 3.
- Group 18653. Apr.25-May 7. A small regular spot, with a few occasional companions.
- Group 18654. Apr.26-May 9. A large elongated stream, of which the rear portion begins to break up and die out after May 4.
- Group 18655. Apr. 27 - 30. One or two small spots.
- Group 18656. Apr.27-May 3. A small spot on April 27, developing into a scattered stream.
- Group 18657. Apr. 27 - 28. A tiny spot.
- Group 18658. Apr. 28 - 29. One or two tiny spots.
- Group 18659. Apr. 28 - 30. A few faint spots.
- Group 18660. Apr. 29 - 30. A pair of tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Fos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Fos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°	°	°				1958	°	°	°			
Apr. 29. 328	<i>continued</i>						May 1. 311	<i>continued</i>					
1399Y	.327	167.8	33.6	-22.8	0	4	18652	.391	17.5	4.6	+17.7	168	919
18659	.197	145.1	31.3	-13.5	3	13	a	.371	9.4	8.1	+17.3	120	654
18651	.649	34.6	13.3	+28.3	45	213	b	.449	30.5	357.8	+18.7	48	265
18656	.560	129.4	9.6	-24.5	14	72	18665	.592	38.0	348.3	+24.0	4	38
18653	.568	114.6	5.3	-17.3	29	157	18654	.455	115.0	346.6	-14.8	301	1857
18652	.640	54.8	4.7	+17.9	154	1101	1399η	.655	59.6	335.9	+16.0	1	6
a	.593	52.8	8.4	+17.2	94	588	18666	.891	116.0	309.9	-25.0	1	8
b	.708	58.7	358.5	+18.2	55	467	18667	.963	77.2	298.8	+11.1	49	253
18654	.787	106.0	346.5	-15.2	318	2008	18668	.979	63.2	297.0	+25.1	115	665
Apr. 30. 314	(-24.4)	(24.9)	(-4.2)				May 2. 315	(-24.1)	(358.4)	(-4.0)			
1399δ	.977	244.4	103.0	-25.9	0	25	18643	.985	282.6	77.2	+11.7	27	189
18641	.932	280.5	92.5	+8.2	3	19	a	.993	282.1	80.3	+11.4	0	94
18660	.898	238.6	86.8	-29.9	2	16	b	.966	284.1	71.8	+12.5	27	95
18643	.819	286.8	77.7	+11.1	70	489	18644	.929	289.7	64.1	+16.6	31	240
a	.853	284.8	81.6	+10.3	43	319	18661	.720	309.2	35.8	+23.8	7	33
b	.770	289.6	72.6	+12.1	27	170	18648	.624	249.1	35.6	-16.0	96	397
18644	.700	298.7	64.5	+16.4	27	170	18662	.700	321.7	28.3	+29.7	13	73
18655	.399	322.2	39.5	+14.2	0	4	18663	.373	321.7	12.1	+13.1	8	47
18648	.279	222.3	36.1	-16.0	78	399	18651	.565	339.1	11.5	+27.8	35	199
18661	.508	341.2	35.2	+24.5	1	8	18664	.477	336.3	10.3	+21.9	5	40
18662	.568	348.8	32.2	+29.6	0	3	18656	.395	208.3	10.2	-24.1	6	22
1399ε	.358	198.3	31.9	-24.0	1	12	18653	.255	205.1	4.9	-17.2	34	145
18659	.174	210.3	30.0	-12.8	0	3	18652	.383	345.3	4.2	+17.7	177	804
18651	.568	19.2	12.7	+28.2	45	224	a	.398	336.3	8.0	+17.3	117	555
18663	.364	39.5	11.3	+12.2	6	37	b	.386	2.2	357.5	+18.6	60	249
18656	.431	144.6	9.0	-24.5	20	99	18665	.491	18.1	348.8	+23.8	27	144
18652	.491	41.0	5.2	+17.7	141	844	18654	.262	136.5	347.7	-14.8	201	1402
a	.458	37.0	8.2	+17.3	99	596	18669	.737	104.2	311.4	-13.1	1	8
b	.569	48.1	358.5	+18.5	41	238	18666	.768	119.4	311.1	-24.8	2	4
18653	.404	126.5	5.0	-17.8	31	152	18670	.829	85.1	302.9	+1.8	2	12
18654	.630	108.8	346.9	-15.0	281	2061	18667	.877	75.1	299.0	+11.0	40	217
							18668	.927	60.5	295.4	+25.3	176	760
May 1. 311	(-24.2)	(11.7)	(-4.1)				May 3. 573	(-23.8)	(341.8)	(-3.9)			
18643	.926	283.6	77.9	+11.0	79	484	18644	.993	287.5	63.3	+16.9	16	175
a	.949	282.6	81.9	+10.5	47	339	18648	.820	252.4	36.2	-16.6	99	504
b	.889	285.8	70.2	+12.0	32	145	18661	.856	302.1	34.6	+24.7	9	51
18644	.831	293.0	64.4	+16.4	38	180	18662	.830	309.1	29.0	+28.9	23	178
18648	.448	241.7	35.8	-16.0	83	467	18663	.578	300.2	12.6	+13.5	3	15
18661	.574	323.5	33.5	+23.6	8	59	18664	.621	311.1	11.7	+20.7	3	20
1399ζ	.401	309.7	29.9	+10.8	1	8	18651	.671	320.2	10.6	+27.5	34	176
18662	.585	336.8	26.8	+28.4	1	7	18656	.564	228.7	9.6	-25.2	4	31
18663	.288	356.8	12.6	+12.6	9	49	18653	.440	237.7	4.6	-17.2	25	121
18651	.531	359.6	11.9	+27.8	32	185	18652	.518	315.0	4.3	+17.8	129	683
18664	.449	3.8	9.9	+22.4	1	13	a	.547	310.8	7.4	+17.3	97	534
18656	.351	171.3	8.4	-24.3	12	101	b	.458	327.0	357.0	+18.7	32	149
18653	.255	153.4	4.9	-17.2	22	151							

*continued**continued*

- Group 18661. Apr. 30-May 5. A few scattered spots.
 Group 18662. Apr. 30-May 4. A few variable spots.
 Group 18663. Apr. 30-May 3. A group of variable spots.
 Group 18664. May 1 - 3. A few small spots.
 Group 18665. May 1 - 8. A cluster of small spots on May 1, developing into a stream, of which the leader becomes a regular spot after May 4.
 Group 18666. May 1 - 2. A tiny spot.
 Group 18667. May 1 - 12. A stream, led by a large regular spot. The rear component begins to break up after May 4 and the leader alone remains from May 7.
 Group 18668. May 1 - 13. A regular spot.
 Group 18669. May 2 - 3. Single small spots in the same area.
 Group 18670. May 2 - 12. A small spot on May 2, developing into a stream. The whole group is dying out as it approaches the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Fos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Fos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
May 3. 573	continued						May 5. 557	continued					
18665	.486	344.0	350.2	+23.8	43	284	18668	.600	34.2	293.6	+26.2	138	623
18654	.213	206.3	347.4	-14.8	323	1620	18674	.861	61.0	261.2	+22.5	2	9
18671	.341	18.8	335.3	+14.9	3	14	18675	.886	71.0	256.2	+13.7	48	241
18669	.581	111.2	307.8	-15.3	0	3	18676	.976	111.6	238.0	-21.8	0	20
18672	.725	47.0	305.6	+26.4	4	10							
18670	.629	82.8	303.3	+ 1.4	20	100							
18667	.716	70.6	298.5	+10.8	32	216	May 6. 664		(-23.2)	(300.9)	(- 3.6)		
18668	.823	54.6	293.8	+25.8	154	872	18651	.953	300.4	8.7	+27.5	23	111
							18652	.916	291.8	4.3	+18.3	51	447
							a	.932	290.6	7.0	+17.7	42	388
							b	.877	295.4	358.3	+20.2	9	59
May 4. 563		(-23.6)	(328.7)	(- 3.8)			18653	.895	252.5	4.0	-17.2	26	101
18661	.951	295.8	37.0	+23.0	0	53	18673	.894	242.6	2.7	-26.0	22	94
18648	.923	253.4	35.9	-16.8	102	503	18665	.850	301.0	353.5	+23.8	68	307
18662	.940	302.0	33.3	+28.2	20	109	18654	.764	254.0	350.1	-14.5	132	814
18651	.774	310.4	10.1	+27.2	41	213	18672	.458	348.2	306.7	+23.0	10	43
18653	.613	246.6	4.6	-17.1	32	160	18670	.100	343.0	302.5	+ 1.9	23	115
18652	.658	302.4	4.2	+17.5	114	692	18667	.251	10.8	298.2	+10.6	30	323
a	.692	300.2	7.3	+17.3	102	562	18668	.506	14.2	293.0	+25.7	119	620
b	.585	310.5	356.6	+18.9	12	130	18677	.465	52.2	278.8	+13.1	3	15
18673	.614	231.2	0.6	-25.7	6	36	18674	.730	54.6	261.1	+22.2	0	2
18665	.573	323.3	350.6	+23.8	48	287	18675	.757	67.6	254.9	+14.2	36	219
18654	.382	239.8	348.6	-14.6	171	1370	18676	.908	113.0	236.5	-22.3	4	13
1400a	.237	240.2	340.7	-10.4	0	11							
18671	.342	352.8	331.2	+16.0	0	17							
18672	.598	33.2	307.3	+26.4	0	21							
18670	.444	78.2	303.0	+ 1.8	30	145	May 7. 603		(-23.0)	(288.5)	(- 3.5)		
18667	.551	63.4	298.7	+11.0	46	212	18651	.991	298.3	7.8	+27.5	25	155
18668	.710	46.0	294.1	+26.3	141	808	18652	.979	289.3	4.7	+18.1	54	483
1400b	.768	54.4	285.9	+23.7	2	18	a	.985	288.8	6.6	+17.8	45	443
18674	.945	64.4	261.5	+22.6	0	17	b	.958	291.2	359.3	+19.1	9	40
18475	.964	73.0	256.1	+15.2	37	215	18653	.965	253.2	3.4	-17.1	26	149
							18673	.959	244.0	1.6	-25.9	9	44
							18665	.931	297.1	353.0	+23.6	75	458
May 5. 557		(-23.4)	(315.6)	(- 3.7)			18654	.897	255.8	352.1	-14.2	145	717
18648	.981	253.7	34.8	-16.7	45	436	18672	.527	327.4	306.4	+22.9	23	166
18661	.987	294.1	33.6	+23.0	0	33	18670	.270	289.9	303.1	+ 1.8	35	141
1400c	.871	285.6	14.3	+11.6	2	30	18667	.293	325.9	298.1	+10.5	33	198
18651	.873	304.4	9.6	+27.3	35	188	18668	.490	352.7	292.4	+25.5	154	712
18652	.801	295.8	4.7	+17.9	94	784	18677	.323	27.3	279.8	+13.1	1	14
a	.821	294.6	7.0	+17.6	79	672	18675	.612	61.0	255.1	+14.3	47	251
b	.729	301.3	356.8	+19.4	15	112	18676	.814	115.6	236.0	-22.7	2	9
18653	.765	250.6	4.4	-17.2	35	147	18678	.947	93.7	217.3	- 4.6	11	42
18673	.755	237.8	0.8	-26.2	31	154							
18665	.702	309.6	351.6	+23.5	63	356							
18654	.569	250.0	348.9	-14.2	186	1319	May 8. 571		(-22.8)	(275.7)	(- 3.4)		
18671	.450	317.2	334.0	+15.7	4	19	18665	.990	294.5	354.9	+23.6	0	258
18672	.515	12.8	308.3	+26.4	2	17	18654	.971	256.3	351.9	-14.1	74	865
18670	.252	68.5	302.1	+ 1.7	19	103	18672	.641	314.2	305.6	+23.5	26	139
18667	.381	49.4	298.6	+10.7	38	224	18670	.469	280.6	303.0	+ 1.9	27	168
						continued							continued

- Group 18671. May 3 - 5. A few scattered spots.
Group 18672. May 3 - 10. A few scattered spots until May 6, after which fresh activity occurs and the group becomes a short stream which dies out before reaching the limb.
Group 18673. May 4 - 7. A short stream.
Group 18674. May 4 - 6. A few tiny spots.
Group 18675. May 4 - 16. A regular spot, with a number of variable companions.
Group 18676. May 5 - 7. A small spot.
Group 18677. May 6 - 13. Intermittent. A group of variable spots.
Group 18678. May 7 - 12. One or two small spots, not seen on May 11.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pbs. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pbs. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°		°	°			1958	°		°	°		
May 8.571	<i>continued</i>						May 11.550	<i>continued</i>					
18667	.442	303.2	297.7	+10.8	29	182	18675	.429	312.6	255.2	+14.0	41	228
18668	.559	331.2	293.1	+26.0	128	612	18684	.284	131.8	223.8	-13.8	4	17
18679	.292	47.6	263.2	+ 8.0	15	57	1400f	.554	61.7	206.5	+12.5	3	16
18675	.465	49.9	254.3	+14.2	52	235	18680	.517	100.2	205.5	- 7.8	26	171
18678	.850	92.7	217.6	- 4.0	5	24	18681	.733	111.5	190.8	-17.6	67	428
18680	.957	96.2	202.5	- 6.9	20	164	18683	.856	112.2	178.8	-20.4	56	403
18681	.990	105.7	193.5	-16.0	59	242	18685	.960	78.9	163.7	+ 9.7	4	25
May 9.327	(-22.6)	(265.7)	(- 3.3)				May 12.310	(-21.9)	(226.3)	(- 3.0)			
18654	.992	255.6	348.9	-14.7	8	122	18670	.996	272.6	301.0	+ 1.7	0	10
18672	.733	306.2	305.6	+23.1	12	80	18667	.953	282.3	297.4	+10.7	26	163
18670	.612	277.4	302.9	+ 1.8	13	96	18668	.940	299.7	291.9	+26.5	113	589
18667	.573	294.0	297.7	+10.7	33	171	18677	.821	287.3	279.5	+12.3	2	20
18668	.626	319.9	292.1	+25.5	110	567	18679	.629	287.5	263.5	+ 8.5	42	225
1400d	.583	340.4	278.7	+29.9	6	24	18675	.554	301.1	255.4	+13.9	40	227
18679	.191	9.4	263.9	+ 7.5	23	117	18686	.414	253.6	249.9	- 9.4	1	10
18675	.347	31.4	255.0	+13.9	39	205	18684	.188	171.5	224.7	-13.7	1	7
18682	.424	28.1	253.6	+18.7	6	15	18678	.170	105.1	216.9	- 5.5	1	8
18678	.743	92.6	217.8	- 4.2	7	17	18680	.350	103.7	206.3	- 7.5	30	173
1400e	.771	74.1	217.0	+10.0	2	9	18681	.610	114.8	191.0	-17.3	59	322
18680	.889	96.4	203.0	- 7.2	25	146	18683	.765	114.5	178.5	-20.5	48	343
18681	.967	106.6	190.5	-16.9	72	516	18685	.897	77.4	163.8	+ 9.9	2	16
18683	.996	109.1	182.4	-18.7	0	144	1400g	.907	113.5	159.0	-25.9	2	17
							18687	.984	113.2	146.3	-23.4	38	255
May 10.336	(-22.4)	(252.4)	(- 3.2)				May 13.485	(-21.6)	(210.7)	(- 2.8)			
18672	.848	300.2	305.1	+23.3	6	35	18668	.992	297.0	291.1	+26.4	53	523
18670	.789	275.0	304.0	+ 1.9	16	86	18677	.968	284.4	284.8	+13.2	0	14
18667	.734	287.8	297.6	+10.7	20	166	18679	.822	281.6	264.9	+ 7.9	22	230
18668	.751	309.2	292.5	+25.8	98	528	18675	.736	291.8	255.2	+13.8	37	229
18677	.537	301.0	280.5	+13.2	10	48	18686	.642	260.6	250.3	- 8.2	11	63
18679	.258	317.0	262.6	+ 7.7	28	185	18680	.105	139.8	206.8	- 7.4	20	90
18675	.295	351.0	255.1	+13.7	35	192	18681	.415	128.0	190.8	-17.3	40	325
18682	.369	358.6	252.9	+18.4	2	10	18683	.602	121.4	177.6	-20.5	49	364
18684	.530	109.8	221.7	-13.1	4	25	18687	.913	114.3	146.0	-23.3	30	246
18678	.570	92.9	217.7	- 4.3	1	5	18688	.984	96.4	130.9	- 6.8	49	244
18680	.742	97.7	204.7	- 7.9	36	189							
18681	.889	108.1	190.2	-17.5	63	580							
18683	.958	110.2	179.4	-20.3	31	517							
May 11.550	(-22.1)	(236.3)	(- 3.0)				May 14.455	(-21.3)	(197.9)	(- 2.7)			
18670	.920	273.1	302.9	+ 1.7	14	92	18679	.924	279.3	264.5	+ 7.5	44	220
18667	.887	283.7	297.4	+10.7	32	192	18675	.858	287.7	254.9	+13.7	42	204
18668	.878	302.1	292.0	+26.1	93	668	18686	.797	262.1	250.5	- 7.9	12	39
18677	.754	289.9	282.7	+12.8	8	56	18680	.196	250.5	208.6	- 6.4	12	49
18679	.494	293.1	263.5	+ 8.5	25	154	18681	.277	155.9	191.1	-17.2	34	273
						<i>continued</i>	18683	.447	132.7	177.5	-20.1	22	226
							18687	.814	116.9	145.9	-23.3	51	237
							18688	.908	96.3	132.8	- 6.8	67	419

- Group 18679. May 8 - 15. A short stream, appearing just east of the central meridian, breaking up as it approaches the limb.
- Group 18680. May 8 - 17. A stream, developing from a pair of spots on May 8. After May 13 the rear components begin to die out.
- Group 18681. May 8 - 21. A stream, led by a regular spot. The rear portion coalesces after May 17 into a small composite spot.
- Group 18682. May 9 - 10. A pair of tiny spots.
- Group 18683. May 9 - 21. A cluster of variable spots.
- Group 18684. May 10 - 12. A few small spots.
- Group 18685. May 11 - 12. A small spot.
- Group 18686. May 12 - 15. A small stream.
- Group 18687. May 12 - 24. A stable regular spot.
- Group 18688. May 13 - 24. A pair of regular spots, of which only the leader remains on May 24.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°	°	°				1958	°	°	°			
May 15.366		(-21.1)	(185.9)	(-2.6)			May 19.611 <i>continued</i>						
18679	.979	277.8	263.5	+7.1	17	120	18694	.753	297.4	174.4	+18.7	7	50
18675	.945	285.5	255.3	+13.7	27	169	18687	.434	210.4	143.5	-24.0	41	242
18686	.913	263.1	251.7	-7.4	0	15	18692	.469	345.8	137.0	+24.8	48	258
18680	.388	259.4	208.4	-6.5	13	40	18688	.092	209.4	132.3	-6.7	50	271
18681	.272	199.0	191.2	-17.5	33	252	18693	.401	154.2	118.8	-23.1	7	49
18683	.338	157.8	178.1	-20.7	45	291	1400j	.487	31.6	113.7	+22.4	1	17
18687	.698	121.6	145.7	-23.4	52	234	18689	.706	18.2	113.0	+39.9	98	601
18688	.808	96.3	132.2	-6.6	88	421	18691	.800	60.7	81.3	+21.6	64	329
18689	.979	48.1	113.7	+40.1	0	22	18695	.946	70.0	60.7	+18.1	14	108
May 16.327		(-20.8)	(173.1)	(-2.5)			May 20.407		(-19.6)	(119.2)	(-2.0)		
18675	.993	284.4	255.2	+14.0	20	130	18681	.961	252.3	192.8	-17.6	72	415
18680	.590	261.8	209.0	-6.8	3	21	18683	.871	248.6	178.3	-19.5	5	46
18681	.397	227.8	191.0	-17.8	39	228	18694	.862	292.9	175.8	+18.4	5	33
18690	.267	217.6	182.7	-14.6	4	17	18687	.536	225.0	143.6	-24.0	58	253
18683	.326	194.6	178.1	-20.8	37	297	18692	.526	329.6	136.2	+25.0	46	236
18687	.564	130.4	145.3	-23.6	50	241	18688	.230	248.8	131.6	-6.7	43	239
18688	.649	97.4	132.9	-6.7	81	401	18693	.367	181.8	119.9	-23.4	3	16
18689	.926	44.6	115.4	+39.9	42	310	18689	.682	7.3	112.7	+40.4	95	620
May 17.397		(-20.5)	(159.0)	(-2.4)			18691	.702	56.0	80.6	+21.5	75	407
18680	.780	263.7	210.1	-6.4	3	12	18695	.878	68.0	60.5	+18.1	11	52
18681	.589	242.7	192.2	-17.6	49	216	18696	.996	105.6	34.3	-15.7	11	122
18690	.449	243.1	183.2	-13.8	3	31	May 21.379		(-19.3)	(106.3)	(-1.9)		
18683	.443	225.1	178.5	-20.4	32	201	18681	.994	251.8	190.0	-18.3	27	238
18687	.431	148.3	144.7	-23.8	50	221	18683	.956	249.7	178.6	-19.9	3	50
18688	.455	99.7	132.3	-6.5	57	333	18694	.946	290.1	175.4	+18.2	11	59
18689	.855	38.7	114.9	+40.0	79	434	18687	.673	235.1	143.4	-24.1	49	258
18691	.978	67.3	83.2	+21.6	52	385	18692	.637	314.5	136.2	+24.8	54	298
May 18.566		(-20.1)	(143.5)	(-2.2)			18688	.435	258.5	131.6	-6.7	42	224
1400h	.900	262.3	207.5	-7.9	0	10	18693	.432	210.5	120.1	-23.6	3	13
18681	.771	248.5	192.2	-17.9	61	458	18689	.679	355.1	110.7	+40.5	63	401
18683	.625	240.1	178.5	-19.9	20	108	1400k	.300	152.6	98.0	-17.3	0	3
18687	.371	181.4	144.1	-23.9	45	225	18697	.282	48.2	94.1	+8.9	16	81
18692	.480	12.9	136.7	+25.6	5	22	18691	.573	45.9	80.1	+21.7	56	384
18688	.215	109.8	131.8	-6.3	65	397	1400l	.620	58.7	72.8	+17.2	3	15
18693	.543	132.1	117.8	-23.2	5	23	18695	.759	64.3	60.6	+17.8	8	50
18689	.769	29.3	114.2	+40.0	83	589	18696	.958	105.7	33.3	-15.6	43	215
1400i	.771	76.4	94.3	+9.0	2	11	18698	.966	80.0	32.1	+9.1	40	268
18691	.905	64.5	82.0	+21.9	50	333	May 22.457		(-19.0)	(92.1)	(-1.8)		
May 19.611		(-19.8)	(129.7)	(-2.1)			18687	.808	241.5	142.8	-23.8	52	253
18681	.898	251.2	192.7	-17.8	80	466	18692	.779	304.0	137.1	+24.5	31	193
18683	.769	246.6	177.8	-19.1	5	23	18688	.654	261.6	132.6	-6.8	31	204
						<i>continued</i>	18693	.575	229.0	120.3	-23.7	3	13
							18689	.703	342.5	108.1	+40.2	40	274
													<i>continued</i>

- Group 18689. May 15 - 26. A stream, of which the leader, a composite spot, begins to break up from May 21. Only the follower remains on May 25 and 26.
- Group 18690. May 16 - 17. A few tiny spots.
- Group 18691. May 17 - 29. A composite spot, which becomes regular in outline after May 24.
- Group 18692. May 18 - 24. A short-lived stream, of which only the leader remains on May 24.
- Group 18693. May 18 - 26. One or two small spots until May 22, after which the group develops into a stream.
- Group 18694. May 19 - 21. A few small spots.
- Group 18695. May 19 - 23. A small spot.
- Group 18696. May 20-June 1. A stable regular spot.
- Group 18697. May 21 - 28. A few spots, appearing just east of the central meridian. After a brief maximum, the group is dying out as it reaches the limb.
- Group 18698. May 21-June 1. A regular spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°		°	°			1958	°		°	°		
May 22.457	<i>continued</i>						May 25.578	(-17.9)		(50.8)	(-1.4)		
18697	.196	349.2	94.2	+ 9.3	63	256	18693	.941	245.3	119.4	-23.6	49	386
1400m	.213	171.9	90.3	-13.9	0	4	18705	.923	251.9	117.2	-17.2	3	14
18691	.451	27.8	79.1	+21.7	50	282	18689	.882	319.3	100.2	+40.9	2	15
18699	.308	127.6	77.7	-12.5	6	24	18697	.688	285.6	92.8	+ 9.6	35	252
18695	.599	56.8	60.5	+17.6	4	19	18706	.665	224.1	82.8	-29.6	9	43
18700	.615	119.4	57.7	-19.0	3	11	18699	.509	248.4	79.6	-12.0	16	73
18696	.864	107.0	33.3	-15.5	34	221	18691	.585	313.7	77.9	+22.5	25	105
18698	.874	78.4	32.2	+ 9.2	53	265	18701	.147	10.0	49.3	+ 6.9	26	169
							18698	.367	60.7	32.0	+ 9.0	48	225
May 23.435	(-18.6)		(79.1)	(-1.7)			18696	.398	128.1	31.9	-15.4	28	155
18687	.910	244.1	142.7	-24.1	51	242	18708	.614	53.1	19.3	+20.4	1	9
18692	.893	298.2	138.9	+24.1	15	132	1400n	.705	64.9	9.3	+16.3	1	10
18688	.818	262.6	133.7	- 7.0	33	153	18702	.747	59.7	7.2	+21.1	16	101
18693	.721	237.0	120.5	-24.3	12	69	18707	.870	60.2	354.5	+24.8	7	30
18689	.751	333.2	105.4	+40.4	27	164	18703	.850	109.5	354.0	-17.2	30	195
18697	.317	307.2	93.9	+ 9.4	64	360	18704	.854	105.1	353.0	-13.6	67	432
18691	.403	1.2	78.6	+22.0	43	221							
18699	.186	175.8	78.3	-12.4	20	88	May 26.637	(-17.6)		(36.8)	(-1.3)		
18695	.446	43.2	60.5	+17.3	3	12	18693	.982	246.8	115.2	-23.0	0	41
18700	.446	134.4	59.4	-19.8	0	4	18689	.942	314.6	98.9	+40.7	0	16
18701	.520	74.4	49.0	+ 6.5	3	10	18697	.841	283.0	92.9	+10.2	20	126
18696	.744	109.7	32.6	-15.7	48	207	18706	.781	231.0	81.3	-30.3	2	9
18698	.746	76.0	32.1	+ 9.2	53	263	18699	.687	252.8	78.9	-12.7	16	119
18702	.968	67.1	5.8	+21.6	22	90	18691	.725	303.4	77.6	+22.5	17	114
18703	.982	108.4	0.3	-18.4	0	23	18701	.267	302.2	49.9	+ 6.9	12	78
18704	.997	103.6	353.7	-13.7	0	360	1400o	.432	354.7	39.3	+24.1	0	9
							18698	.197	25.8	31.8	+ 8.9	39	258
May 24.555	(-18.3)		(64.3)	(-1.5)			18696	.262	160.6	31.6	-15.5	28	143
18687	.980	245.7	142.1	-24.1	39	246	1400p	.526	149.4	19.2	-28.0	3	15
18692	.975	294.3	139.4	+23.3	11	66	18708	.462	38.4	19.1	+19.9	3	12
18688	.954	262.4	136.6	- 7.7	18	108	18702	.587	51.4	7.6	+20.3	11	64
18693	.842	242.5	118.7	-23.7	64	266	1400q	.583	113.7	3.5	-14.5	0	3
18705	.812	249.3	116.9	-17.5	2	15	18707	.753	54.6	354.4	+24.8	4	16
18689	.818	325.1	102.4	+40.8	9	74	18703	.707	113.6	354.2	-17.3	40	203
18697	.515	290.7	93.4	+ 9.1	52	333	18704	.718	107.2	352.2	-13.2	64	404
18706	.543	212.2	83.5	-28.7	7	32	18709	.981	104.8	318.4	-14.7	45	202
18699	.312	233.8	79.1	-12.0	13	58							
18691	.465	331.4	78.2	+22.6	28	147	May 27.556	(-17.3)		(24.6)	(-1.2)		
18700	.320	162.3	58.4	-19.1	0	3	18697	.938	280.2	93.6	+ 9.1	17	117
18701	.292	60.5	49.5	+ 6.8	22	114	18699	.825	255.5	79.3	-12.6	23	101
18696	.569	115.9	32.3	-15.8	28	174	18691	.839	298.1	77.6	+22.5	23	102
18698	.558	70.8	32.2	+ 9.3	43	230	18701	.454	289.5	50.1	+ 7.6	8	47
18702	.874	64.6	6.7	+21.2	23	98	18698	.217	324.5	31.9	+ 9.0	37	215
18707	.953	63.2	354.8	+24.9	3	41	18696	.273	205.3	31.5	-15.4	25	127
18703	.948	108.0	353.5	-17.5	37	220	18708	.366	14.8	18.9	+19.4	0	5
18704	.949	103.8	353.1	-13.5	87	446							<i>continued</i>

- Group 18699. May 22 - 29. A single spot on May 22, developing into a short stream of which only the leader remains on May 28.
- Group 18700. May 22 - 24. A tiny spot.
- Group 18701. May 23 - 29. A pair of small spots on May 23, developing into a stream, of which only the follower remains on May 29.
- Group 18702. May 23-June 1. A small regular spot, with one or two variable companions. A small following spot is seen on May 30 and 31.
- Group 18703. May 23-June 3. A small composite spot, with one or two preceding companions. The latter have disappeared by May 31.
- Group 18704. May 23-June 5. A composite spot, with a few scattered companions.
- Group 18705. May 24 - 25. A small spot.
- Group 18706. May 24 - 26. A pair of spots on May 24 and 25; a single spot on May 26.
- Group 18707. May 24 - 31. Intermittent. One or two small spots, not seen on May 29.
- Group 18708. May 25 - 27. A few tiny spots.
- Group 18709. May 26-June 7. A regular spot, with a few occasional companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
May 27.556	<i>continued</i>												
18702	.461	37.5	7.3	+20.2	13	74	18717	.905	69.3	301.5	+18.2	2	17
18710	.422	49.3	5.4	+14.8	1	6	18716	.925	77.0	297.6	+11.6	8	42
18707	.644	46.8	353.5	+25.0	1	12	1400t	.944	105.1	294.2	-14.5	0	6
18703	.571	120.1	353.5	-17.6	35	207	18718	.991	63.9	283.6	+25.7	40	264
18704	.568	111.8	351.4	-13.1	49	342							
18711	.830	128.5	335.0	-31.8	6	33							
18709	.930	105.5	316.8	-14.8	39	229							
18712	.975	63.4	309.8	+25.5	66	365	May 30.381	(-16.2)	(347.2)	(-0.8)			
							18698	.723	283.6	32.4	+9.2	30	184
May 28.340	(-17.0)	(14.2)	(-1.1)				18696	.721	249.4	31.4	-15.2	24	135
18697	.980	279.0	92.2	+8.6	5	34	18702	.474	322.8	5.0	+21.3	15	98
18699	.924	257.2	81.2	-12.2	9	50	18710	.392	316.6	3.4	+15.7	4	38
18691	.916	295.2	77.7	+22.4	14	90	18707	.427	345.2	354.0	+23.5	4	18
18713	.777	297.3	61.3	+20.1	0	6	18703	.298	201.6	353.7	-16.8	28	161
18701	.606	284.6	50.3	+7.9	3	13	18704	.224	200.6	351.8	-12.9	57	285
1400r	.558	324.6	35.2	+25.9	2	15	18714	.274	172.0	344.9	-16.4	8	46
18698	.351	299.8	32.1	+9.0	29	223	18715	.490	10.1	341.6	+27.9	59	323
18696	.380	229.4	31.5	-15.3	25	115	18711	.539	159.8	334.7	-31.1	3	6
18702	.369	14.0	8.8	+19.8	11	71	18719	.424	39.6	330.7	+18.2	3	10
1400a	.427	44.4	356.1	+16.7	0	3	1401a	.541	40.2	324.9	+23.6	0	4
18707	.537	36.0	354.0	+24.6	3	20	18709	.540	116.9	317.4	-14.8	35	180
18703	.437	131.0	354.0	-17.6	28	202	18712	.723	52.4	308.0	+25.5	53	353
18704	.423	119.5	352.1	-12.9	53	290	18717	.747	64.8	302.1	+17.9	3	17
18714	.549	120.4	344.6	-17.0	6	56	18716	.778	74.1	297.5	+11.8	4	14
18715	.669	44.2	342.6	+27.6	5	38	18718	.923	61.6	283.2	+25.7	78	416
18711	.756	132.8	333.7	-31.7	7	30	18720	.946	112.6	277.5	-21.6	11	67
18709	.844	107.0	317.8	-14.8	30	198							
18712	.930	61.8	309.1	+25.6	72	386	May 31.329	(-15.9)	(334.7)	(-0.7)			
18716	.976	78.0	297.5	+11.5	11	77	18698	.853	281.3	32.4	+9.3	26	159
							18696	.849	252.3	31.4	-15.2	22	112
May 29.090	(-16.7)	(4.3)	(-1.0)				18721	.581	292.7	7.8	+12.3	3	20
18699	.977	257.7	81.7	-12.2	0	14	18702	.614	305.6	6.7	+20.2	7	28
18691	.966	293.8	77.3	+22.6	11	61	18710	.552	301.0	4.1	+15.8	15	121
18713	.865	294.1	61.3	+20.1	2	13	18707	.512	321.5	354.9	+22.9	6	15
18701	.725	282.6	49.8	+8.4	1	11	18703	.417	226.5	353.1	-17.3	13	92
18698	.495	290.5	32.2	+9.1	25	181	18704	.356	233.2	351.6	-12.9	47	227
18696	.509	240.5	31.5	-15.4	15	105	18714	.332	211.5	345.1	-17.1	3	11
18702	.359	347.7	8.9	+19.4	7	30	18715	.499	345.5	342.8	+28.0	77	364
18710	.243	347.1	7.5	+12.7	3	19	18711	.503	180.2	334.8	-30.8	3	5
18703	.331	149.5	354.2	-17.5	22	149	18719	.369	15.1	328.9	+20.1	1	5
18704	.295	134.8	352.0	-12.9	31	237	18709	.373	130.5	317.7	-14.6	28	167
18714	.430	130.9	344.5	-17.2	4	50	18712	.602	43.7	307.5	+25.1	54	280
18715	.586	34.5	342.3	+27.8	13	66	18717	.600	58.3	302.4	+17.7	4	17
18711	.684	138.7	332.4	-31.7	6	24	18716	.630	70.3	297.6	+11.7	1	6
18709	.747	109.3	317.6	-15.0	26	140	18718	.840	58.9	282.2	+25.2	75	361
18712	.869	59.3	308.5	+25.7	48	264	1401b	.811	96.1	280.8	-5.3	0	4
						<i>continued</i>	18720	.872	115.1	276.5	-22.0	7	23
							1401c	.978	68.9	258.1	+20.4	0	33

- Group 18710. May 27-June 1. A group of small variable spots, not seen on May 28.
Group 18711. May 27-June 3. A few small spots.
Group 18712. May 27-June 8. A regular spot, with some occasional companions.
Group 18713. May 28 - 29. A tiny spot.
Group 18714. May 28 - 31. A group of scattered spots.
Group 18715. May 28-June 6. A few small spots on May 28, developing into a stream.
Group 18716. May 28 - 31. A small spot.
Group 18717. May 29-June 1. One or two small spots.
Group 18718. May 29-June 10. A regular spot, with preceding companions on June 9 and 10.
Group 18719. May 30-June 6. A cluster of variable spots.
Group 18720. May 30-June 7. A few small variable spots.
Group 18721. May 31-June 1. A pair of tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
June 1. 642		(-15.4)	(317.3)	(-0.6)			June 4. 665		(-14.3)	(277.3)	(-0.2)		
18698	.971	279.8	32.9	+9.3	23	164	18704	.961	256.5	350.6	-13.0	41	289
18696	.966	254.3	31.7	-15.3	17	125	18715	.913	301.9	339.2	+28.8	89	764
18721	.805	286.3	9.5	+12.7	2	8	18719	.834	290.3	331.8	+16.7	33	227
18702	.816	293.6	9.2	+18.7	0	6	1401h	.868	226.7	329.0	-36.6	0	18
18710	.755	291.0	4.1	+15.2	5	23	18722	.767	248.3	325.1	-16.6	2	5
18703	.630	243.0	353.1	-17.0	10	67	18709	.684	249.3	318.4	-14.1	34	179
18704	.592	248.6	351.6	-12.9	45	240	18712	.589	316.8	303.6	+25.1	38	237
18715	.608	323.2	341.7	+28.5	96	583	18723	.462	309.1	299.2	+16.7	56	284
18711	.557	207.0	334.2	-30.2	1	15	18718	.435	354.9	279.7	+25.4	74	338
18719	.386	327.0	330.0	+18.2	18	131	18727	.170	351.2	278.8	+9.4	6	44
18709	.244	182.2	317.9	-14.7	31	177	18720	.380	177.1	276.1	-22.4	1	12
18712	.467	22.4	306.0	+24.9	58	286	18724	.445	63.1	253.5	+11.4	0	5
18717	.389	36.0	303.5	+17.6	3	12	18725	.844	116.9	222.9	-22.5	22	90
1401d	.585	36.8	294.2	+27.3	1	9	18728	.941	43.1	215.5	+43.2	19	72
18718	.684	50.8	281.6	+25.0	75	335	18726	.952	60.1	208.0	+28.2	193	1520
18720	.715	121.2	276.2	-22.1	6	40	18729	.984	107.3	198.3	-17.0	33	368
June 2. 335		(-15.2)	(308.1)	(-0.5)			June 5. 298		(-14.0)	(268.9)	(-0.1)		
18703	.735	247.2	353.0	-16.9	7	45	18704	.991	256.6	350.8	-13.3	25	249
18704	.701	251.8	351.0	-12.9	34	224	18715	.952	300.1	338.1	+28.4	62	436
18715	.682	315.6	340.9	+28.7	114	728	18719	.897	287.8	331.3	+15.8	62	330
18711	.631	217.5	334.4	-30.4	1	12	18722	.844	249.9	324.6	-16.9	0	5
18719	.485	312.0	330.3	+18.4	13	92	18709	.778	251.8	318.3	-14.1	29	132
18709	.297	214.0	317.9	-14.7	38	195	18712	.669	309.8	303.4	+25.2	29	213
18712	.429	5.6	305.5	+24.6	59	277	18723	.564	301.0	299.1	+16.7	63	367
18718	.598	43.7	281.1	+25.1	74	350	18718	.463	339.4	279.3	+25.5	68	330
18720	.620	127.3	276.0	-22.4	7	60	18727	.243	315.0	278.9	+9.7	11	71
June 3. 474		(-14.7)	(293.0)	(-0.4)			18720	.386	200.8	277.3	-21.2	6	39
18703	.880	251.7	353.2	-16.2	2	9	1401i	.171	0.0	268.9	+9.7	1	13
18704	.854	255.6	350.7	-12.5	44	254	18725	.760	120.2	223.8	-22.5	14	96
18715	.807	307.1	340.1	+28.8	102	686	18728	.898	40.2	216.5	+43.1	66	401
18711	.773	230.3	336.1	-29.7	0	5	18726	.908	58.4	207.7	+28.3	205	1874
18719	.668	296.6	331.5	+17.0	6	52	18729	.950	108.2	198.2	-17.3	47	314
18722	.578	239.3	324.3	-17.5	4	25	June 6. 399		(-13.6)	(254.4)	(0.0)		
18709	.479	239.5	318.1	-14.4	23	174	18715	.989	300.6	334.2	+30.2	16	134
18712	.462	336.8	304.5	+24.6	41	256	18719	.977	285.8	331.4	+15.4	17	135
18723	.327	339.9	299.7	+17.4	0	3	18722	.939	251.5	323.1	-17.3	7	72
1401e	.260	181.1	293.3	-15.4	1	5	18709	.908	254.4	318.6	-14.1	25	140
18718	.479	24.3	280.4	+25.4	69	377	18712	.805	302.8	303.0	+25.8	25	173
18720	.445	143.4	275.7	-21.2	4	18	18723	.743	292.6	299.9	+16.6	39	321
1401f	.646	63.0	256.2	+16.7	7	27	18727	.439	292.8	278.5	+9.7	10	62
18724	.680	72.5	251.7	+11.5	1	17	18718	.570	319.5	278.5	+25.6	71	328
1401g	.951	106.1	225.4	-15.4	0	8	18720	.506	224.8	276.8	-21.0	3	20
18725	.946	113.9	223.6	-22.6	20	128	18725	.601	130.0	224.6	-22.6	17	92
18726	.989	61.8	213.0	+27.8	37	362							

continued

- Group 18722. June 3 - 6. A small spot.
- Group 18723. June 3 - 8. A tiny spot on June 3, developing rapidly into a stream, of which the leader is a regular spot. The follower is dying out as the group approaches the limb.
- Group 18724. June 3 - 4. A few tiny spots.
- Group 18725. June 3 - 13. A variable group, of which the only stable component, a regular spot, is the sole survivor at the west limb.
- Group 18726. June 3 - 17. A large complex stream, which begins to break up and die out as it approaches the limb.
- Group 18727. June 4 - 6. Variable spots.
- Group 18728. June 4 - 16. A few small spots on June 4, in high northern latitude, developing into a long stream. The group is dying out as it approaches the limb.
- Group 18729. June 4 - 13. A cluster of variable spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
June 6. 399	<i>continued</i>						June 10. 438	(-12.0) (200.9) (+ 0.5)					
18728	.825	33.6	215.7	+43.2	80	595	18718	.981	296.3	278.4	+25.9	73	536
18726	.798	53.2	207.9	+28.5	239	2114	1401 _m	.962	311.6	270.2	+39.8	4	13
18729	.852	110.4	197.9	-17.2	32	174	18725	.557	227.0	226.8	-21.8	33	228
							18728	.691	354.9	205.8	+43.8	126	889
							18726	.473	351.3	205.5	+28.3	226	1734
June 7. 564	(-13.1) (238.9) (+ 0.1)						18730	.252	0.4	200.8	+15.0	1	8
18709	.986	255.5	318.7	-14.3	20	108	18729	.315	170.9	197.9	-17.6	5	32
18712	.916	298.7	302.2	+26.1	28	155	18736	.512	151.5	185.2	-26.2	4	33
18723	.889	288.5	300.2	+16.4	45	339	18737	.349	118.8	182.9	- 9.1	1	7
18718	.714	307.1	277.9	+25.5	68	337	18732	.467	129.0	178.7	-16.6	7	28
18720	.678	237.5	276.6	-21.2	1	6	18733	.615	67.0	165.3	+14.3	4	19
1401 _j	.512	289.9	268.1	+10.1	0	4	18734	.784	107.0	150.8	-12.9	0	4
18725	.429	149.9	225.6	-21.6	22	102	18735	.923	117.0	136.5	-24.5	12	77
18728	.757	24.2	213.6	+43.6	65	522							
18726	.666	44.3	207.1	+28.4	236	2210							
18730	.644	64.5	201.8	+16.1	6	34							
18729	.683	116.1	199.1	-17.3	23	104							
1401 _k	.948	77.2	168.1	+12.2	0	8	June 11. 360	(-11.6) (188.7) (+ 0.6)					
							18725	.697	236.4	227.3	-22.1	23	147
							18728	.718	342.9	205.6	+43.7	130	969
June 8. 562	(-12.7) (225.7) (+ 0.2)						18726	.523	331.9	204.8	+28.0	224	1561
18712	.979	297.1	302.5	+26.6	22	170	1401 _n	.611	340.6	203.1	+35.6	1	13
18723	.966	287.0	299.9	+16.4	48	294	18730	.330	322.0	200.8	+15.6	8	41
18731	.908	277.7	290.5	+ 7.0	2	17	18729	.356	204.0	197.4	-18.3	5	23
18718	.827	301.3	277.1	+25.5	78	353	18736	.455	173.6	185.5	-26.2	3	14
18725	.379	179.9	225.6	-22.0	36	212	18737	.190	150.0	183.2	- 8.9	1	8
18728	.711	15.1	211.0	+43.3	129	838	18732	.344	149.4	178.2	-16.6	5	27
18726	.547	30.2	207.6	+28.3	329	2256	18733	.473	58.8	164.1	+14.7	9	41
18730	.459	54.8	202.9	+15.4	5	27	18735	.844	119.8	135.4	-24.3	17	95
18729	.522	124.8	199.2	-17.1	20	113	18738	.989	82.1	107.5	+ 7.9	0	23
18732	.771	110.9	177.4	-15.8	7	36							
18733	.877	73.7	165.6	+14.4	2	24							
							June 12. 498	(-11.1) (173.6) (+ 0.7)					
June 9. 318	(-12.4) (215.7) (+ 0.3)						18725	.843	242.9	227.5	-22.1	30	158
18731	.977	276.6	293.1	+ 6.5	10	60	18726	.650	316.3	204.2	+28.5	148	1095
18718	.911	298.0	278.4	+25.4	73	456	18728	.772	332.9	202.7	+43.9	113	614
1401 _i	.873	290.6	276.3	+20.7	2	18	18729	.524	233.7	199.8	-17.4	5	11
18725	.415	204.9	226.5	-21.7	31	203	18730	.492	303.4	198.8	+16.3	5	38
18728	.687	5.9	210.2	+43.2	133	837	18736	.482	205.3	186.7	-25.0	2	17
18726	.487	15.8	207.1	+28.2	313	1966	18732	.321	195.3	178.7	-17.2	7	37
18730	.338	39.3	202.9	+15.4	3	18	18733	.316	36.7	162.4	+15.3	1	8
18729	.403	139.0	199.7	-17.3	16	68	18735	.711	126.1	134.7	-24.1	13	73
18732	.644	116.2	178.9	-16.2	7	62	18738	.907	81.0	108.9	+ 8.5	2	13
18733	.764	71.8	167.5	+13.9	2	11	1401 _o	.947	58.5	105.2	+29.9	0	6
18734	.902	104.0	152.3	-12.5	6	26	18739	.957	74.2	101.2	+15.3	27	212
18735	.985	114.8	137.1	-24.3	6	76	18740	.987	116.7	94.6	-26.2	55	182
							a	.987	116.7	94.6	-26.2	55	182

- Group 18730. June 7 - 13. A few small spots.
Group 18731. June 8 - 9. A stream, developing at the west limb.
Group 18732. June 8 - 15. A group of variable spots, not seen on June 14.
Group 18733. June 8 - 13. A few small spots.
Group 18734. June 9 - 10. One or two tiny spots.
Group 18735. June 9 - 14. A small regular spot.
Group 18736. June 10 - 16. One or two variable spots.
Group 18737. June 10 - 11. A few tiny spots.
Group 18738. June 11 - 15. One or two tiny spots.
Group 18739. June 12 - 23. A cluster of spots on June 12 and 13, developing into a stream of normal type. Only the leader remains on June 23.
Group 18740. June 12 - 24. A pair of regular spots, of which the follower dies out by June 20.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
June 13.324		(-10.7)	(162.7)	(+ 0.8)			June 16.322	<i>continued</i>					
18725	.926	245.4	228.0	-22.3	16	141	18740	.669	133.4	90.3	-26.2	54	289
18728	.837	324.2	204.8	+43.2	105	513	a	.644	135.0	92.7	-26.0	36	178
18726	.733	309.1	202.7	+28.1	206	1226	18743	.962	84.7	49.0	+ 5.5	22	128
18730	.641	294.7	199.9	+16.1	9	49	18744	.987	70.3	42.7	+19.6	0	21
18729	.653	241.4	199.5	-17.5	1	8							
18736	.562	218.1	185.2	-25.4	4	20	June 17.366		(-9.0)	(109.2)	(+ 1.3)		
18732	.391	216.5	176.8	-17.5	5	31	18726	.996	299.5	193.8	+29.5	27	261
18733	.236	347.7	165.7	+14.1	0	3	1401 _r	.825	296.4	162.0	+22.3	2	16
18741	.389	357.3	163.8	+23.6	1	9	18745	.546	250.0	140.4	- 9.6	0	4
1401 _p	.379	37.5	148.7	+18.2	1	5	18742	.379	186.6	111.9	-20.7	1	8
18735	.599	134.7	135.0	-24.1	11	63	18739	.259	21.8	103.5	+15.1	113	689
18738	.803	79.7	109.9	+ 8.7	2	6	18740	.548	147.4	90.1	-26.2	51	267
18739	.881	72.9	102.1	+15.4	70	364	a	.528	150.4	92.4	-26.0	31	165
18740	.963	118.1	90.9	-26.7	51	304	18743	.868	84.0	49.2	+ 5.8	21	111
a	.954	117.8	92.9	-26.1	30	212	18744	.954	68.8	37.7	+20.5	18	126
							18746	.989	105.4	28.6	-15.0	0	16
June 14.558		(-10.2)	(146.4)	(+ 1.0)			June 18.327		(-8.6)	(96.5)	(+ 1.4)		
18728	.927	317.2	206.2	+43.3	53	369	18745	.715	255.6	140.9	- 9.2	4	15
18726	.868	302.4	202.5	+28.2	126	827	18739	.273	332.0	104.1	+15.2	109	661
18736	.707	230.6	183.6	-25.8	13	86	18740	.477	167.2	89.8	-26.2	48	295
18741	.470	321.9	164.6	+22.5	1	5	a	.468	171.4	92.1	-26.0	31	187
18735	.464	156.4	134.7	-24.1	3	32	18747	.331	57.0	80.1	+11.7	4	37
1401 _q	.563	140.9	123.4	-24.9	3	21	1401 _a	.323	70.5	78.7	+ 7.5	0	3
18738	.616	76.6	109.2	+ 9.0	3	16	18743	.735	82.9	49.5	+ 6.2	13	103
18739	.711	69.8	102.9	+14.9	98	651	18744	.876	67.4	37.1	+20.4	19	156
18740	.871	121.4	90.5	-26.4	94	419	18746	.939	106.7	28.0	-15.1	3	10
a	.855	121.6	92.5	-26.0	51	245	18748	.978	77.0	18.8	+13.0	12	59
June 15.569		(-9.8)	(133.0)	(+ 1.1)			June 19.333		(-8.2)	(83.1)	(+ 1.6)		
18728	.973	314.8	205.3	+43.6	34	254	18739	.412	305.4	103.4	+15.2	107	799
18726	.947	299.2	202.0	+27.8	104	663	18740	.474	191.8	89.3	-25.9	56	259
18736	.842	238.8	185.5	-25.1	5	13	a	.481	195.6	91.3	-25.9	44	172
18732	.735	243.2	176.6	-18.5	4	30	18747	.181	7.9	81.6	+11.8	7	86
18742	.496	136.4	111.8	-19.9	1	7	18743	.560	81.0	49.4	+ 6.3	20	103
18738	.469	70.2	106.5	+10.1	1	9	18744	.750	64.0	37.3	+20.3	29	223
18739	.545	62.6	103.0	+15.4	100	654	18748	.932	76.0	14.8	+13.6	18	112
18740	.761	126.6	90.3	-26.0	81	372	18749	.934	79.1	14.4	+10.7	10	86
a	.739	127.6	92.6	-25.9	47	215							
June 16.322		(-9.5)	(123.0)	(+ 1.2)			June 20.547		(-7.6)	(67.1)	(+ 1.7)		
18728	.988	314.2	201.2	+43.7	6	44	18739	.630	291.8	104.2	+14.8	96	785
18726	.959	300.5	194.4	+29.5	12	154	18740	.586	217.4	90.4	-26.1	46	219
18736	.915	241.9	185.6	-24.9	2	9	a	.591	218.1	90.9	-26.0	40	189
18742	.408	153.5	111.9	-20.2	0	3	18743	.313	73.9	49.6	+ 6.5	15	91
18739	.413	52.5	103.2	+15.6	108	700							
						<i>continued</i>							<i>continued</i>

Group 18741. June 13 - 14. A tiny spot.

Group 18742. June 15 - 17. A tiny spot.

Group 18743. June 16 - 27. A regular spot, with an occasional companion.

Group 18744. June 16 - 23. A pair of widely-separated spots.

Group 18745. June 17 - 18. One or two tiny spots.

Group 18746. June 17 - 18. A small spot.

Group 18747. June 18 - 19. A cluster of small spots.

Group 18748. June 18 - 29. A pair of spots, developing into a stream which breaks up and dies out after June 26.

Group 18749. June 19 - 29. A short stream, which breaks up and dies out after June 26.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°		°	°			1958	°		°	°		
June 20. 547	continued						June 23. 376	continued					
18744	.582	55.6	36.4	+20.5	27	147	18743	.348	285.1	49.3	+7.1	13	68
18748	.805	73.8	14.5	+14.0	22	140	18744	.323	337.2	37.2	+19.2	4	12
18749	.811	78.1	13.5	+10.6	14	76	18749	.319	60.9	13.2	+10.8	18	106
18750	.954	102.8	355.5	-11.7	21	140	18748	.390	53.3	10.8	+15.3	19	273
18751	.974	105.4	351.3	-14.5	19	115	18753	.609	50.1	358.8	+24.6	1	8
							18750	.581	112.6	356.6	-11.2	36	214
							18751	.672	118.6	351.6	-17.1	19	132
June 21. 610		(-7.1)	(53.0)	(+1.8)			18755	.800	109.0	338.7	-13.6	7	50
18739	.792	287.5	104.2	+14.8	106	569	18754	.873	71.4	329.8	+17.2	8	37
18740	.717	230.4	90.6	-25.7	38	212	18756	.977	110.6	313.6	-19.6	82	404
a	.717	230.4	90.6	-25.7	38	212	18757	.988	95.8	309.0	-5.4	22	88
18752	.520	280.1	83.9	+6.8	14	64	18758	.990	82.2	307.8	+8.0	31	223
18743	.109	35.9	49.3	+6.8	15	85							
18744	.429	40.6	35.7	+20.7	19	108	June 24. 302		(-5.9)	(17.4)	(+2.1)		
18749	.647	75.1	13.6	+11.0	32	214	18740	.968	242.7	89.8	-25.7	27	200
18748	.662	70.6	13.1	+14.1	23	210	a	.968	242.7	89.8	-25.7	27	200
18750	.844	104.8	356.9	-11.4	36	163	18752	.931	277.2	85.8	+7.4	13	46
18751	.896	107.7	351.2	-15.0	31	144	18743	.545	278.3	50.1	+6.3	10	51
							18759	.313	332.1	26.2	+18.1	3	22
June 22. 612		(-6.7)	(39.8)	(+1.9)			18749	.166	28.6	12.8	+10.4	26	196
18739	.907	285.7	104.3	+15.0	81	469	18748	.245	26.7	10.9	+14.7	25	244
18740	.833	237.1	90.5	-25.7	35	162	18750	.406	124.9	357.6	-11.4	33	178
a	.833	237.1	90.5	-25.7	35	162	18751	.532	129.1	351.8	-17.6	13	105
18752	.719	278.3	85.4	+7.2	14	87	1401u	.695	131.9	342.4	-25.9	1	8
18743	.191	296.3	49.7	+6.7	14	85	18755	.659	113.9	339.2	-13.8	23	137
18744	.335	12.4	35.4	+20.9	9	37	18754	.786	70.0	327.1	+16.9	2	10
18749	.467	71.3	13.2	+10.3	31	172	18756	.909	112.5	314.7	-19.4	110	733
18748	.517	63.9	11.2	+14.7	28	297	a	.890	112.2	317.2	-18.5	46	358
18753	.716	55.7	359.2	+25.1	1	10	18757	.930	96.9	309.6	-5.6	16	131
18750	.708	107.4	356.5	-10.8	49	245	18758	.959	81.4	305.1	+8.8	65	561
18751	.777	113.9	352.0	-17.0	36	245							
18754	.959	71.7	326.8	+18.1	0	12	June 25. 342		(-5.5)	(3.6)	(+2.2)		
							18752	.981	276.1	82.3	+6.4	0	18
June 23. 376		(-6.4)	(29.6)	(+2.0)			18743	.735	276.7	50.7	+6.4	10	54
18739	.968	285.2	104.8	+15.2	73	408	18760	.548	237.0	31.9	-15.4	3	13
18740	.906	240.3	90.2	-25.7	27	165	18759	.457	309.5	25.4	+18.8	0	5
a	.906	240.3	90.2	-25.7	27	165	18749	.227	310.5	13.7	+10.6	27	217
18752	.837	277.6	86.2	+7.4	24	86	18748	.255	327.3	11.7	+14.5	35	301
1401t	.686	304.7	67.7	+24.5	1	3	18750	.259	157.9	357.9	-11.7	13	70
						continued						continued	

- Group 18750. June 20 - 28. A scattered stream, of which only one component remains after June 26.
- Group 18751. June 20 - 26. A single spot on June 20 and 21, developing into a scattered stream. Only the leader remains on June 26.
- Group 18752. June 21 - 25. A small stream on June 21; a pair of spots thereafter.
- Group 18753. June 22 - 23. A tiny spot.
- Group 18754. June 22 - 24. One or two small spots.
- Group 18755. June 23 - 26. A short-lived stream.
- Group 18756. June 23-July 4. A cluster of spots, developing into a large stream of normal type. The leader and follower gradually separate in longitude as the group crosses the disk.
- Group 18757. June 23-July 3. A regular spot with one or two companions until June 30, when it breaks up and dies out.
- Group 18758. June 23-July 5. A stream of normal type, of which the leader becomes regular in outline from June 28. The follower breaks up after June 30 and is not seen on July 3.
- Group 18759. June 24 - 25. A pair of tiny spots.
- Group 18760. June 25 - 26. A pair of tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
June 25. 342	<i>continued</i>						June 28. 372	(-4.1)	(323.5)	(+2.6)			
18751	.393	149.6	351.6	-17.6	12	48	18749	.788	281.1	15.1	+10.3	16	98
18755	.482	124.9	339.7	-13.9	12	58	18748	.763	288.9	12.0	+16.0	8	42
18756	.795	116.7	315.0	-19.1	169	1107	18750	.601	247.8	357.9	-11.0	1	6
a	.756	116.7	318.4	-18.2	79	460	18762	.554	216.2	344.4	-24.0	1	5
b	.823	116.5	312.1	-20.1	90	647	18765	.383	199.3	331.1	-18.5	1	4
18757	.805	98.9	310.8	-5.8	15	118	18756	.373	164.3	317.4	-18.4	139	905
18758	.867	80.3	303.8	+9.5	77	530	a	.329	180.6	323.7	-16.5	74	425
18761	.949	101.6	293.0	-10.3	3	19	b	.441	153.7	311.5	-20.6	60	446
							1402d	.150	80.5	315.0	+4.0	2	10
June 26. 318	(-5.0)	(350.7)	(+2.4)				18757	.233	130.3	313.3	-6.1	17	65
18743	.869	276.0	50.9	+6.4	7	28	18763	.371	52.1	305.9	+15.6	6	38
18760	.701	244.3	31.6	-15.8	1	11	18758	.374	68.3	302.9	+10.4	79	434
18749	.412	290.3	13.7	+10.4	25	205	18761	.517	115.2	295.2	-10.4	18	63
18748	.388	307.6	9.3	+16.0	34	298	18764	.790	57.9	275.3	+26.5	7	25
18750	.277	208.9	358.5	-11.6	7	20	18766	.774	77.7	273.3	+11.1	7	32
18751	.357	184.8	352.5	-18.4	1	10	18767	.992	68.9	240.3	+21.3	69	325
18762	.474	167.0	344.0	-25.0	3	7							
1402a	.426	15.7	343.3	+26.5	0	5	June 29. 558	(-3.6)	(307.8)	(+2.7)			
18755	.336	148.8	340.4	-14.3	6	27	18749	.938	280.4	17.4	+10.7	10	132
18756	.652	123.9	315.9	-19.3	169	1096	18748	.905	286.8	12.1	+16.3	2	16
a	.595	125.4	320.2	-18.0	79	500	18756	.407	209.7	320.0	-18.0	149	853
b	.705	123.2	311.7	-20.7	90	596	a	.428	220.8	324.7	-16.2	97	563
18757	.637	102.4	312.1	-6.0	15	92	b	.405	188.2	311.3	-20.9	48	270
18763	.720	71.5	305.9	+14.9	1	6	18757	.181	209.4	312.9	-6.4	14	62
1402b	.755	64.2	304.2	+20.8	4	16	18758	.151	29.5	303.5	+10.3	72	314
18758	.740	78.4	303.5	+10.1	87	543	1402e	.206	144.4	300.9	-6.9	0	5
18761	.847	103.2	294.1	-9.8	13	103	18761	.326	136.2	294.6	-10.9	16	87
18764	.969	63.2	275.8	+26.5	10	98	18764	.651	50.4	273.8	+26.7	3	15
							1402f	.709	59.2	266.5	+23.2	0	9
June 27. 337	(-4.6)	(337.2)	(+2.5)				18767	.926	68.2	240.8	+21.2	74	354
18743	.960	276.0	50.8	+6.4	0	16	18768	.988	65.0	226.6	+25.1	19	363
1402c	.906	293.6	40.9	+22.4	2	5							
18749	.609	284.4	13.9	+10.7	18	144	June 30. 329	(-3.2)	(297.6)	(+2.8)			
18748	.564	295.9	9.0	+16.3	14	140	18756	.521	228.9	321.8	-17.4	120	754
18750	.412	236.2	357.5	-10.8	1	7	a	.550	235.2	325.5	-15.7	95	590
18762	.485	191.6	343.4	-25.8	3	15	b	.467	209.4	311.8	-21.2	25	164
18765	.401	162.0	329.7	-19.8	2	12	18757	.327	238.7	313.9	-7.1	13	65
18756	.494	137.1	316.5	-18.8	169	955	18758	.173	318.0	304.3	+10.1	41	219
a	.421	143.0	321.9	-17.1	76	430	18761	.241	170.6	295.3	-10.9	10	45
b	.569	134.2	311.4	-21.0	89	507	18767	.848	67.0	241.2	+20.9	55	287
18757	.433	109.6	313.1	-6.0	12	65	18768	.950	64.8	226.7	+24.7	61	602
18763	.554	64.5	306.0	+15.8	2	32							
18758	.585	74.8	302.3	+10.8	65	512	July 1. 335	(-2.8)	(284.3)	(+2.9)			
18761	.709	108.2	294.1	-10.9	9	46	1402g	.918	239.8	346.2	-26.1	2	16
18764	.899	61.5	275.4	+26.6	10	59							
18766	.903	79.4	272.9	+10.7	2	23							

continued

- Group 18761. June 25-July 1. A short stream, of which the leader is the most stable component.
- Group 18762. June 26 - 28. Two or three tiny spots.
- Group 18763. June 26 - 28. A few small spots.
- Group 18764. June 26 - 29. Two or three small spots.
- Group 18765. June 27 - 28. A few tiny spots.
- Group 18766. June 27 - 28. Two or three small spots.
- Group 18767. June 28-July 10. A variable stream, of which the principal component, a regular spot, is the sole survivor on July 8.
- Group 18768. June 29-July 11. A complex stream; which becomes scattered as it breaks up and dies out.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
July 1. 335	continued						July 3. 304	continued					
18756	.677	239.8	322.0	-17.6	111	607	18776	.767	58.4	211.9	+25.8	0	4
a	.712	243.8	325.8	-16.1	92	479	18773	.842	60.4	203.6	+26.3	5	19
b	.591	226.1	311.4	-21.5	19	128	18772	.883	118.4	200.8	-23.1	162	759
18757	.529	249.7	314.2	- 8.0	15	107	a	.831	120.9	207.5	-23.3	68	309
18758	.367	290.2	304.7	+10.0	37	187	b	.911	117.3	196.7	-23.2	94	450
18761	.298	214.9	294.3	-11.2	5	19	18774	.902	72.5	194.3	+17.1	4	24
18769	.201	47.9	275.6	+10.6	17	71							
18770	.666	86.0	242.7	+ 4.8	11	62	July 4. 324		(-1.4)	(244.7)	(+ 3.2)		
18767	.720	62.9	241.1	+21.2	45	287	18756	.993	253.3	326.3	-16.1	68	529
18768	.872	62.0	255.9	+25.7	66	543	a	.994	253.6	327.0	-15.9	61	505
18771	.875	97.4	223.9	- 5.0	4	21	b	.943	246.4	312.2	-20.9	7	24
18772	.984	113.2	206.9	-22.2	49	326	18758	.855	280.9	303.3	+11.0	23	75
a	.984	113.2	206.9	-22.2	49	326	18769	.563	284.2	278.3	+10.5	28	119
July 2. 367		(-2.3)	(270.6)	(+ 3.0)			18775	.252	304.0	256.9	+11.2	9	40
18756	.823	246.7	322.7	-17.1	92	605	1402j	.379	212.0	256.7	-15.5	1	4
a	.853	249.1	326.4	-16.0	79	509	18770	.041	47.2	243.0	+ 4.8	32	203
b	.734	236.9	311.7	-21.3	13	96	18767	.301	9.7	241.6	+20.4	51	207
18757	.716	256.3	315.0	- 7.6	9	53	18768	.475	37.0	226.3	+25.2	128	1000
18758	.570	283.9	304.7	+10.3	28	134	18771	.364	111.4	224.9	- 4.6	10	50
1402h	.524	296.3	299.7	+16.0	2	13	18776	.602	50.4	214.0	+25.3	3	21
18769	.161	323.2	276.2	+10.4	34	173	18773	.714	55.4	203.9	+26.2	36	196
1402i	.375	11.1	266.1	+24.5	1	5	18772	.764	124.0	201.4	-22.9	152	777
18770	.453	85.5	243.8	+ 4.7	13	56	a	.710	128.2	207.4	-23.5	64	315
18767	.553	55.4	241.6	+20.9	54	295	b	.811	121.9	196.4	-23.2	88	462
18768	.757	58.4	225.2	+25.4	87	746	18777	.987	61.3	163.9	+28.8	21	209
18771	.734	99.9	224.2	- 5.2	7	34							
18773	.920	63.7	205.0	+25.3	3	15	July 5. 332		(-1.0)	(231.4)	(+ 3.4)		
18772	.946	115.7	202.9	-23.1	118	742	18758	.961	279.8	305.5	+10.4	0	19
a	.928	116.5	206.2	-23.1	61	354	18769	.751	281.8	279.7	+11.1	20	112
b	.970	114.9	197.6	-23.2	57	388	18775	.452	289.7	257.1	+11.8	14	113
18774	.963	74.3	196.3	+15.9	9	38	18770	.220	276.0	244.0	+ 4.6	62	449
July 3. 304		(-1.9)	(258.2)	(+ 3.1)			18767	.336	333.2	240.7	+20.7	39	322
18756	.924	250.4	323.4	-16.7	79	656	18768	.385	13.4	225.8	+25.3	76	918
a	.942	251.7	326.6	-16.1	71	609	18771	.170	140.8	225.2	- 4.2	5	32
b	.846	242.5	311.5	-21.1	8	47	18778	.391	150.2	219.8	-16.4	15	47
18757	.859	260.3	316.5	- 6.7	0	12	18776	.466	35.2	214.1	+25.6	6	40
18758	.741	280.9	305.7	+10.1	24	92	18773	.582	46.7	203.3	+26.4	56	510
18769	.341	292.0	276.9	+10.3	33	160	18772	.641	133.4	201.1	-23.1	138	773
18775	.152	14.7	256.0	+11.5	11	43	a	.587	140.6	207.5	-23.8	63	329
18770	.257	84.9	243.4	+ 4.3	19	113	b	.692	129.0	195.8	-23.0	75	444
18767	.408	40.7	241.7	+20.9	48	241	18777	.943	58.5	162.4	+30.7	39	406
18768	.618	52.0	225.8	+25.0	141	1002							
18771	.567	103.3	224.7	- 4.9	15	55	July 6. 345		(-0.5)	(218.0)	(+ 3.5)		
							18769	.899	280.6	280.7	+11.0	14	145
						continued							continued

- Group 18769. July 1 - 7. A short stream, of which the leader, a regular spot, alone remains after July 4.
- Group 18770. July 1 - 10. A broken stream, of which only the leader remains at the west limb.
- Group 18771. July 1 - 7. A cluster of small spots.
- Group 18772. July 1 - 14. A bi-polar group. After July 7 intermittent spots appear, forming a long stream of which a regular spot is the principal component.
- Group 18773. July 2 - 14. A short, compact stream, which slowly breaks up after July 10. Only the rear component remains on July 12.
- Group 18774. July 2 - 3. One or two small spots.
- Group 18775. July 3 - 8. A short stream.
- Group 18776. July 3 - 10. A cluster of variable spots.
- Group 18777. July 4 - 15. A stream, led by a regular spot. After July 10 there is a sudden collapse and by July 15 only the rear part of the group remains.
- Group 18778. July 5 - 11. A regular spot, with occasional following companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
July 6.345	<i>continued</i>						July 9.312	<i>continued</i>					
18775	.639	283.7	257.1	+11.4	19	219	18776	.635	306.1	213.0	+25.0	5	30
18770	.432	272.6	243.5	+ 4.2	48	225	18773	.516	320.7	200.1	+27.0	109	616
18767	.483	306.9	242.2	+20.0	22	123	18772	.541	214.9	198.2	-22.6	128	766
18768	.395	341.9	225.8	+25.4	55	402	a	.644	223.2	207.6	-24.6	54	292
18771	.200	221.3	225.6	- 5.1	4	24	b	.508	208.3	193.8	-22.8	48	343
18778	.334	189.0	221.0	-15.7	15	95	18777	.537	32.8	159.1	+30.3	76	389
1402k	.301	351.5	220.7	+20.7	2	5	18779	.811	120.3	130.0	-21.6	67	410
18776	.372	9.4	214.2	+25.0	2	34	18780	.971	73.7	102.3	+16.7	47	209
18773	.467	31.9	202.0	+26.6	96	689							
18772	.520	149.4	201.3	-23.1	136	691							
a	.490	160.3	207.6	-24.0	69	332							
b	.567	139.9	194.8	-22.4	67	359							
18777	.864	56.9	161.4	+30.1	103	436	July 10.304		(+1.3)	(165.6)	(+ 3.9)		
							18770	.995	272.6	249.8	+ 3.0	10	86
July 7.456	(0.0)	(203.3)	(+ 3.6)				18767	.970	289.9	241.8	+20.2	4	42
18769	.975	280.6	280.6	+11.1	11	97	1402o	.887	253.5	226.0	-12.7	0	7
18775	.811	282.0	257.2	+11.8	28	191	18778	.867	249.0	222.7	-16.0	9	60
18770	.644	273.0	243.3	+ 4.7	32	249	18768	.854	298.9	222.1	+26.6	24	127
18767	.663	296.9	242.2	+20.2	14	92	1402p	.821	257.7	219.4	- 7.8	0	6
18771	.413	248.0	225.8	- 5.6	4	10	18776	.776	299.9	213.5	+25.3	6	47
18778	.456	223.4	222.2	-15.8	18	72	18773	.648	309.3	199.9	+27.4	84	404
18768	.481	323.4	221.8	+26.0	22	228	18772	.668	229.9	198.9	-22.1	210	1289
18776	.379	340.4	211.3	+24.4	6	36	a	.773	232.8	208.2	-25.0	51	319
18773	.398	5.1	201.0	+26.9	136	686	b	.615	224.3	193.2	-22.6	45	306
18772	.458	173.7	200.2	-23.3	123	696	1402q	.543	328.1	185.1	+31.0	0	7
a	.471	188.3	207.6	-24.1	56	331	18777	.455	13.0	158.8	+30.1	82	444
b	.466	161.6	194.2	-22.5	67	365	18779	.691	127.3	129.5	-21.5	80	400
1402l	.321	20.7	196.4	+21.0	1	7	18780	.894	73.3	102.5	+16.7	39	184
18777	.749	51.2	160.8	+30.6	95	443	18781	.988	49.9	84.4	+40.2	38	139
1402m	.854	62.0	146.8	+25.6	0	7							
18779	.968	113.8	130.9	-21.9	49	316	July 11.326		(+1.8)	(152.0)	(+ 4.0)		
							18778	.955	252.1	222.5	-15.7	12	70
July 8.439	(+0.5)	(190.2)	(+ 3.7)				18768	.942	295.1	222.0	+25.0	17	109
18775	.912	281.4	256.0	+11.9	15	95	18772	.815	238.2	200.5	-22.7	229	1573
18770	.816	273.0	244.8	+ 4.6	35	248	a	.890	238.5	209.0	-25.5	56	344
18767	.804	292.7	242.3	+20.4	15	77	b	.744	234.2	192.7	-22.7	28	255
18778	.610	237.4	222.4	-16.0	16	97	18773	.776	302.6	199.2	+27.4	49	447
18768	.620	310.9	221.8	+27.1	22	146	18777	.446	345.7	159.2	+29.5	34	189
18776	.504	317.7	212.1	+25.2	3	24	18779	.554	140.4	129.8	-21.5	61	398
18773	.435	338.3	200.5	+27.4	89	645	18780	.768	71.8	102.6	+16.5	40	162
18772	.476	198.5	199.6	-23.1	134	781	18781	.945	48.8	84.0	+40.0	14	94
a	.540	210.1	207.4	-24.2	69	333							
b	.448	187.5	193.8	-22.6	53	385	July 12.611		(+2.3)	(135.0)	(+ 4.1)		
1402n	.232	345.5	193.7	+16.6	0	5	18772	.946	243.9	202.2	-23.0	178	1303
18777	.638	43.7	159.5	+30.6	95	488	a	.975	242.1	208.3	-26.0	31	325
18779	.903	116.3	129.8	-21.7	58	430	b	.889	241.9	193.0	-22.6	13	193
							18773	.900	299.2	197.6	+27.9	24	154
July 9.312	(+0.9)	(178.7)	(+ 3.8)				1402r	.468	241.1	159.4	- 9.3	3	19
18770	.920	272.7	245.5	+ 4.0	43	271	18777	.569	321.2	159.2	+30.0	14	54
18767	.898	290.7	242.0	+20.2	10	40	1402s	.310	212.3	144.7	-11.1	1	5
18768	.738	303.5	222.1	+26.7	25	157	18779	.444	167.8	129.2	-21.5	54	420
18778	.731	243.3	221.4	-16.4	18	107	18780	.562	66.4	102.7	+16.4	28	166
							18781	.859	45.1	83.8	+39.8	17	105
							1402t	.810	79.3	81.0	+11.1	2	4
						<i>continued</i>							<i>continued</i>

Group 18779. July 7 - 18. A composite spot, which becomes regular in outline after July 16.
 Group 18780. July 9 - 21. A regular spot, with a distant companion on July 17 and 18.
 Group 18781. July 10 - 20. A slowly-diminishing regular spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Fos. Ang.	Long.	Lat.	Unb.	Whole Spots.		Rad. Dist.	Fos. Ang.	Long.	Lat.	Unb.	Whole Spots.
1958		o	o	o			1958		o	o	o		
July 12.611 <i>continued</i>							July 15.318 <i>continued</i>						
18782	.957	83.1	61.8	+ 7.8	31	136	18781	.635	22.9	80.5	+39.8	20	86
<i>a</i>	.957	83.1	61.8	+ 7.8	31	136	18782	.629	82.2	60.3	+ 8.3	183	914
18783	.991	112.3	55.2	-21.4	18	166	<i>a</i>	.597	82.2	62.6	+ 8.2	107	523
18784	.989	94.1	54.0	- 3.4	30	157	<i>b</i>	.693	81.7	55.4	+ 8.9	62	306
							18783	.773	121.7	54.7	-20.8	23	119
July 13.144		(+2.6)	(128.0)	(+ 4.2)			18784	.742	99.6	52.2	- 4.1	55	308
18772	.967	245.6	200.0	-22.3	119	729	18788	.878	69.7	38.3	+19.9	2	22
18773	.936	299.3	196.4	+28.8	21	91	18787	.940	70.0	29.2	+20.2	23	94
18777	.629	314.2	159.1	+29.5	8	45	18789	.971	71.0	22.6	+19.5	16	99
18779	.438	182.6	129.2	-21.7	63	472							
18785	.299	176.8	127.0	-13.1	5	31	July 16.549		(+4.1)	(82.9)	(+ 4.5)		
18780	.469	62.2	102.5	+16.4	31	163	18779	.780	237.7	127.8	-21.3	30	198
18781	.815	42.6	83.0	+39.8	17	88	18780	.380	304.0	102.0	+16.5	24	153
18782	.915	83.4	61.7	+ 7.8	30	133	18786	.512	203.5	95.7	-23.5	38	194
<i>a</i>	.915	83.4	61.7	+ 7.8	30	133	18781	.584	4.7	79.3	+39.9	7	32
18783	.972	113.2	54.7	-21.3	27	127	18790	.310	167.5	79.0	-13.0	4	39
18784	.973	95.0	52.0	- 3.8	64	316	18782	.391	78.5	60.2	+ 8.6	197	1205
							<i>a</i>	.346	78.5	63.0	+ 8.2	105	673
July 14.308		(+3.1)	(112.6)	(+ 4.3)			<i>b</i>	.464	78.8	55.6	+ 9.1	73	403
18773	.991	298.2	195.9	+28.5	7	47	18783	.599	133.2	55.3	-20.1	19	88
18772	.988	247.1	190.9	-21.8	6	57	18784	.524	105.5	52.6	- 4.1	48	230
18777	.787	304.3	160.5	+29.1	4	24	18787	.820	68.1	28.8	+20.4	14	74
18779	.513	211.5	129.3	-21.7	49	240	18791	.834	74.9	26.6	+15.1	0	4
18785	.396	223.3	128.7	-12.5	3	16	18789	.855	70.2	24.7	+19.2	8	45
1402u	.232	194.3	115.9	- 8.6	1	7	1402w	.901	86.5	18.6	+ 5.1	2	8
18780	.270	38.7	102.5	+16.3	31	149							
18786	.573	147.5	92.9	-24.7	9	42	July 17.628		(+4.6)	(68.6)	(+ 4.6)		
18781	.712	34.1	81.5	+39.7	23	92	18779	.897	243.2	127.8	-21.5	41	156
18782	.787	82.6	60.7	+ 8.5	132	617	18780	.563	292.7	101.2	+16.4	30	179
<i>a</i>	.770	82.7	62.3	+ 8.3	103	447	18786	.621	222.5	95.6	-23.1	39	257
<i>b</i>	.836	82.3	55.9	+ 8.8	29	170	18792	.272	289.0	83.6	+ 9.5	3	8
18783	.883	115.9	54.9	-20.4	17	116	18790	.365	213.0	80.3	-13.2	1	17
18784	.876	96.9	52.2	- 4.0	54	329	18781	.604	348.0	78.1	+40.6	3	22
18787	.989	70.3	30.5	+20.1	18	119	18782	.163	62.8	60.2	+ 8.8	228	1407
							<i>a</i>	.121	56.4	62.8	+ 8.4	160	826
July 15.318		(+3.6)	(99.2)	(+ 4.4)			<i>b</i>	.228	69.1	56.2	+ 9.1	68	581
18777	.868	301.0	157.2	+28.9	2	12	18783	.475	152.0	54.9	-20.2	9	59
18779	.629	226.8	128.6	-21.6	33	200	18784	.312	118.0	52.6	- 4.0	60	214
1402v	.506	232.8	123.6	-13.8	0	5	18788	.524	56.2	40.9	+20.9	0	5
18780	.216	346.1	102.3	+16.4	34	174	18793	.516	82.4	37.6	+ 7.9	8	38
18786	.483	171.9	94.9	-24.1	17	96	18787	.680	63.0	28.2	+21.5	25	132
						<i>continued</i>	18789	.710	67.4	24.8	+19.1	1	23
							18791	.734	74.1	21.9	+14.8	0	7

- Group 18782. July 12 - 24. A single spot on July 12 and 13, rapidly developing into a large bi-polar group.
- Group 18783. July 12 - 22. A small spot, with a few variable companions.
- Group 18784. July 12 - 24. A regular spot, with some following companions until July 20.
- Group 18785. July 13 - 14. One or two tiny spots.
- Group 18786. July 14 - 21. A stream of small spots.
- Group 18787. July 14 - 22. At first a regular spot, which from July 17 begins to break up and disperse.
- Group 18788. July 15 - 17. One or two tiny spots, not seen on July 16.
- Group 18789. July 15 - 24. A pair of widely-separated spots until July 20, after which the group is represented by a small variable cluster. Nothing is seen on July 23.
- Group 18790. July 16 - 21. A few small spots, not seen on July 18.
- Group 18791. July 16 - 19. A small unstable spot.
- Group 18792. July 17 - 18. A pair of tiny spots on July 17; a single spot on July 18.
- Group 18793. July 17 - 22. A pair of spots until July 19, after which only the leader remains.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		o	o	o			1958		o	o	o		
July 18.326		(+4.9)	(59.4)	(+ 4.7)			July 20.623	continued					
18779	.951	245.2	127.6	-21.8	26	147	18781	.818	318.1	75.1	+40.8	0	10
18780	.678	289.2	101.1	+16.3	35	164	18782	.510	278.5	59.5	+ 8.6	221	1216
18786	.707	230.7	95.7	-22.8	49	335	a	.551	277.5	62.4	+ 8.2	139	791
18792	.451	283.7	85.7	+10.3	1	7	b	.434	280.3	54.5	+ 8.9	82	425
18781	.632	339.3	76.5	+40.6	6	24	18783	.571	221.2	52.6	-20.9	5	20
18782	.071	352.7	59.9	+ 8.7	228	1280	18784	.419	250.5	52.2	- 3.5	16	119
a	.085	317.7	62.7	+ 8.3	148	748	18793	.186	287.9	39.2	+ 8.0	4	11
b	.101	39.7	55.7	+ 9.1	80	532	18787	.287	6.3	27.1	+21.1	15	106
18783	.436	168.5	54.1	-20.5	7	25	18789	.267	26.2	22.6	+18.7	4	22
18784	.197	138.7	51.9	- 3.8	44	220	1402x	.145	85.1	20.7	+ 5.6	3	12
18793	.376	80.7	37.5	+ 7.8	8	35	18799	.513	125.3	3.7	-12.8	4	18
18787	.574	58.5	27.8	+21.4	26	152	18795	.618	62.5	353.3	+20.5	4	37
18791	.565	72.2	25.9	+13.8	1	7	18794	.658	119.8	352.9	-15.1	61	363
18789	.590	63.8	25.5	+19.0	7	45	18800	.678	123.5	352.7	-18.0	5	22
18794	.933	109.4	353.2	-16.1	0	10	18796	.931	111.5	323.7	-17.9	43	234
							18798	.945	96.7	318.9	- 4.7	18	98
							18797	.942	74.7	318.3	+16.0	34	241
							18801	.985	106.8	311.0	-15.5	0	20
July 19.622		(+5.5)	(42.3)	(+ 4.8)			July 21.480		(+6.3)	(17.7)	(+ 4.9)		
18780	.868	286.8	102.4	+16.9	32	164	18780	.991	286.7	101.0	+17.2	25	209
18786	.852	238.9	94.7	-23.2	136	761	18786	.977	244.7	91.8	-23.4	66	460
18790	.674	243.9	80.7	-13.5	1	8	18790	.904	253.1	80.1	-12.9	6	21
18781	.737	324.7	76.5	+40.9	4	17	18802	.872	246.7	74.6	-17.5	5	21
18782	.315	282.9	60.3	+ 8.6	213	1218	18782	.674	277.2	60.1	+ 8.5	215	1229
a	.367	280.7	63.6	+ 8.4	156	728	a	.712	276.5	63.1	+ 8.0	131	838
b	.245	288.3	55.9	+ 9.0	57	490	b	.610	277.8	55.2	+ 8.6	84	391
18783	.476	204.3	54.4	-20.9	5	20	18783	.694	232.5	53.7	-21.0	5	11
18784	.239	233.5	53.3	- 3.4	32	164	18784	.594	257.1	53.0	- 3.6	20	99
18793	.087	45.1	38.7	+ 8.3	10	22	18793	.380	279.0	39.9	+ 7.9	4	6
18787	.377	38.5	27.7	+21.8	24	147	18787	.315	329.3	27.5	+20.5	6	47
18791	.308	57.7	26.8	+14.1	0	8	18789	.241	336.6	23.4	+17.6	5	29
18789	.419	50.1	22.4	+20.1	2	17	18799	.363	145.1	5.5	-12.4	6	25
18794	.788	113.9	354.1	-15.4	103	460	18795	.463	53.5	354.4	+20.4	2	13
18795	.771	67.3	353.1	+20.5	4	22	18794	.509	129.9	354.0	-14.5	66	330
18796	.982	109.1	325.6	-17.7	73	324	18800	.551	134.2	353.3	-18.1	3	4
18797	.983	75.7	322.2	+15.0	19	141	18796	.844	114.9	324.3	-17.9	43	247
18798	.991	95.5	320.7	- 4.8	18	184	18797	.844	74.9	320.2	+15.4	39	223
							18798	.859	98.5	319.4	- 4.7	14	96
July 20.623		(+5.9)	(29.0)	(+ 4.9)			18801	.926	108.7	312.6	-15.2	23	79
18780	.949	286.1	101.0	+16.8	22	155	18803	.947	87.3	306.4	+ 4.1	8	22
18786	.934	242.9	93.5	-23.1	87	680							
18790	.808	249.6	79.9	-13.2	4	29							
						continued							continued

- Group 18794. July 18 - 28. A tiny spot on July 18, developing rapidly into a stream of normal type. After July 21 the follower breaks up and the leader alone remains from July 25.
- Group 18795. July 19 - 23. A few small spots.
- Group 18796. July 19 - 31. At first a regular spot. On July 26, another regular spot appears immediately north of it.
- Group 18797. July 19 - 31. A composite spot, followed by one or two unstable companions until July 24, when the group begins to break up and die out.
- Group 18798. July 19 - 30. A regular spot, which divides into two on July 27.
- Group 18799. July 20 - 27. A few scattered spots, developing into a stream led by a regular spot. The latter is the sole survivor by July 25.
- Group 18800. July 20 - 21. A small spot.
- Group 18801. July 20 - 31. A stream, appearing in front of Group 18805, extending longitudinally towards, and finally touching, Group 18796. The rear part is dying out as the group passes round the limb.
- Group 18802. July 21 - 22. Two or three small spots.
- Group 18803. July 21 - 24. One or two small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°		°	°			1958	°		°	°		
July 21.480	<i>continued</i>						July 24.344	(+7.5)		(339.8)	(+5.2)		
18804	.969	72.7	301.5	+17.9	4	14	18782	.980	277.1	58.6	+7.9	50	459
18805	.989	108.9	298.6	-17.8	105	970	18784	.962	265.1	53.3	-3.3	9	45
a	.973	110.2	303.9	-18.3	68	699	18789	.704	291.7	23.3	+18.8	0	8
b	.996	108.5	294.9	-17.9	37	271	18806	.718	301.5	22.5	+25.8	13	89
							18799	.548	236.8	7.8	-12.8	25	145
July 22.380	(+6.7)		(5.8)	(+5.0)			18794	.420	219.5	355.7	-13.8	13	60
18802	.941	249.1	72.9	-17.7	10	60	18796	.468	145.3	323.6	-17.6	44	237
18782	.816	276.3	60.6	+8.0	196	1142	18797	.368	59.9	320.6	+15.5	18	181
a	.842	276.1	63.2	+7.8	121	818	18798	.369	113.9	320.1	-3.7	17	93
b	.761	276.5	55.4	+8.2	75	324	18801	.531	128.3	314.4	-14.4	82	568
18783	.807	239.5	53.7	-20.8	0	8	18803	.505	90.9	309.5	+4.0	1	7
18784	.752	260.6	53.6	-3.7	21	119	18807	.577	53.9	309.2	+24.3	9	42
18793	.567	276.8	40.3	+8.0	1	5	18805	.715	121.7	300.2	-18.0	148	1053
18787	.443	307.4	27.7	+20.2	0	6	a	.684	124.1	303.3	-18.4	90	530
18789	.336	312.9	20.7	+18.0	1	11	b	.775	118.7	294.3	-18.1	58	523
18799	.302	176.7	4.8	-12.5	19	97	18808	.955	74.5	266.6	+16.3	50	329
18795	.300	28.5	356.9	+20.1	1	7	18809	.994	86.0	256.1	+4.5	22	101
18794	.386	149.1	354.0	-14.4	25	181							
18796	.736	120.0	323.9	-17.8	56	226	July 25.419	(+7.9)		(325.6)	(+5.3)		
18797	.719	73.5	320.4	+15.3	35	152	18806	.854	298.9	22.6	+27.3	14	70
18798	.734	100.5	319.6	-4.2	13	79	18799	.735	246.5	9.2	-13.2	15	84
18801	.840	111.9	312.1	-15.2	24	94	18794	.592	236.3	356.1	-14.5	4	36
18803	.861	87.3	306.4	+4.9	7	37	18796	.389	175.1	323.6	-17.4	50	235
18804	.887	72.7	303.3	+17.6	2	19	18798	.177	151.1	320.7	-3.6	11	58
18805	.932	111.7	300.4	-18.1	200	1245	18797	.201	26.9	320.2	+15.6	16	109
a	.912	112.5	303.6	-18.1	136	646	18801	.376	151.3	314.9	-13.9	128	701
b	.959	110.3	295.2	-17.8	64	599	18807	.446	40.5	307.1	+24.8	1	16
							1403a	.384	92.5	303.1	+3.9	1	27
July 23.342	(+7.1)		(353.0)	(+5.1)			18805	.579	133.3	299.3	-18.6	146	850
18802	.989	251.7	72.2	-17.2	0	23	a	.541	138.0	303.2	-18.7	84	457
18782	.921	276.9	60.3	+8.3	110	929	b	.632	127.6	294.0	-18.1	62	393
a	.936	277.3	62.4	+8.0	84	734	18808	.861	73.8	266.2	+16.6	73	282
b	.883	276.3	55.2	+7.9	26	195	18809	.938	86.9	255.8	+4.7	30	194
18784	.875	264.1	53.4	-2.6	26	130	18810	.981	84.3	246.6	+6.6	93	539
18806	.569	306.8	22.9	+24.3	0	3							
18799	.381	218.5	7.0	-12.4	24	133	July 26.580	(+8.4)		(310.2)	(+5.4)		
18795	.277	347.8	356.6	+20.7	0	6	18806	.948	297.0	21.8	+27.3	25	175
18794	.334	186.6	355.3	-14.2	22	127	18799	.883	252.2	9.6	-12.9	24	98
18796	.602	128.9	323.7	-17.7	38	207	18794	.744	244.0	353.9	-15.1	2	9
18797	.549	69.9	320.9	+15.1	20	128	18796	.431	212.1	323.9	-16.1	67	290
18798	.569	104.7	319.7	-4.0	11	56	18798	.243	231.1	321.1	-3.4	6	17
18801	.695	117.5	313.7	-14.2	24	211	18797	.239	315.6	320.1	+15.1	5	33
18803	.680	89.9	310.2	+3.8	3	8	18801	.360	195.4	315.9	-14.8	123	979
18807	.734	60.7	308.4	+24.7	7	32	18807	.333	11.4	306.1	+24.4	0	1
18805	.843	116.0	300.1	-18.6	144	1071	18805	.442	154.8	298.8	-18.2	135	624
a	.815	116.8	303.2	-18.2	95	677	a	.427	163.6	302.9	-18.7	76	332
b	.885	113.6	294.7	-18.1	49	394	b	.480	144.4	293.2	-17.7	59	292
18808	.996	74.1	267.1	+16.3	27	149							<i>continued</i>

- Group 18804. July 21 - 22. One or two tiny spots.
- Group 18805. July 21-Aug.2. A bi-polar group, of which the follower dies out before reaching the west limb.
- Group 18806. July 23 - 26. A few scattered spots.
- Group 18807. July 23 - 26. A pair of spots on July 23 and 24; a single spot on the other days.
- Group 18808. July 23-Aug.5. A regular spot, with one or two companions.
- Group 18809. July 24-Aug.5. A regular spot, of which a small portion becomes detached after July 27 and dies out by July 31.
- Group 18810. July 25-Aug.5. A composite spot, which shows a progressive decrease in area as it crosses the disk.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
July 26. 580	<i>continued</i>						July 29. 362	<i>continued</i>					
18811	.462	57.1	286.0	+19.4	1	4	18805	.570	226.1	298.9	-18.2	91	508
18808	.708	70.9	265.9	+17.3	45	281	a	.609	229.4	302.4	-18.4	76	377
18809	.809	87.6	256.2	+ 5.2	31	178	b	.496	218.6	292.2	-17.4	14	124
18810	.897	84.8	246.3	+ 7.1	54	438	18811	.317	319.1	286.0	+19.3	15	96
July 27. 407	(+8.8)	(299.3)	(+ 5.4)				18815	.196	277.0	284.7	+ 6.9	0	3
18799	.953	254.6	9.6	-12.9	7	54	18812	.149	30.1	269.0	+13.0	24	96
18794	.858	247.6	354.7	-16.0	2	11	18816	.279	163.6	268.8	- 9.8	3	11
18796	.547	230.2	325.1	-15.5	79	375	18808	.256	35.7	264.4	+17.5	43	238
18798	.406	248.2	321.4	- 3.6	2	14	18809	.295	91.2	256.3	+ 5.0	27	139
18797	.401	299.3	320.6	+16.3	5	37	18810	.460	87.4	246.0	+ 6.2	46	269
18801	.444	219.3	316.2	-14.9	230	1490	1403c	.511	79.4	242.9	+10.2	1	9
18805	.403	178.0	298.5	-18.2	123	734	18813	.780	60.0	224.6	+26.6	31	173
a	.415	188.8	303.1	-18.7	69	383	18814	.758	75.0	224.3	+15.0	21	56
b	.407	165.6	293.2	-17.8	54	351	18817	.973	116.1	200.9	-23.8	38	192
18811	.315	39.6	287.1	+19.3	2	16	18818	.968	100.4	199.3	- 8.6	108	613
18812	.537	73.8	267.5	+13.2	9	59	July 30. 357	(+10.0)	(260.3)	(+ 5.7)			
18808	.575	67.4	265.7	+17.2	49	342	18796	.929	251.3	325.7	-15.0	142	682
18809	.681	88.4	256.4	+ 5.0	32	190	18797	.880	285.8	322.1	+16.6	2	12
18810	.793	85.5	246.7	+ 6.9	62	428	18798	.881	261.6	321.0	- 4.6	0	2
18813	.960	63.6	225.1	+26.8	28	221	18801	.857	249.1	315.9	-14.5	214	1597
July 28. 330	(+9.2)	(287.1)	(+ 5.5)				18805	.714	238.0	299.6	-17.8	73	448
18794	.929	252.2	352.8	-14.2	0	9	a	.748	239.4	302.8	-18.2	62	337
18796	.691	240.8	325.7	-15.3	108	489	18811	.493	298.6	287.4	+18.7	23	160
18797	.582	291.0	321.5	+16.6	2	11	18815	.412	272.4	284.6	+ 6.2	12	69
18798	.568	256.0	320.5	- 3.3	4	29	18816	.333	212.5	270.7	-10.6	1	6
18801	.585	235.2	316.7	-14.7	207	1795	18812	.196	306.3	269.6	+12.2	11	88
18805	.441	205.4	298.5	-18.0	119	653	18808	.220	340.0	264.8	+17.6	43	258
a	.484	212.6	303.0	-18.7	75	364	18809	.055	103.6	257.2	+ 4.9	22	120
b	.403	195.4	293.5	-17.3	44	289	1403d	.105	40.4	256.4	+10.3	1	12
18811	.239	2.0	286.6	+19.3	12	75	18810	.230	88.6	247.0	+ 5.9	44	289
18812	.334	66.4	268.9	+12.8	27	149	18814	.589	71.4	225.1	+15.4	37	353
18808	.413	59.2	265.4	+17.3	42	278	18813	.646	53.7	224.7	+27.1	44	317
18809	.507	89.5	256.6	+ 5.0	23	173	18819	.645	111.1	222.9	- 8.9	1	12
18810	.648	86.8	246.7	+ 6.3	58	443	18818	.872	103.4	201.4	- 8.7	79	568
18813	.899	62.6	223.8	+26.9	19	135	18817	.904	119.6	201.4	-23.6	19	128
18814	.896	76.6	223.3	+14.2	4	35	July 31. 308	(+10.4)	(247.7)	(+ 5.7)			
July 29. 362	(+9.6)	(273.4)	(+ 5.6)				18796	.985	253.7	325.6	-14.9	94	618
1403b	.923	261.1	339.6	- 6.0	9	39	18797	.959	285.5	321.9	+16.5	3	16
18796	.826	247.4	325.4	-15.1	97	568	18801	.945	252.6	316.1	-14.4	252	1672
18797	.746	287.3	321.2	+16.6	5	48	18805	.840	244.2	300.2	-18.0	90	496
18798	.727	260.1	319.0	- 3.3	1	10	a	.865	245.0	303.1	-21.8	4	18
18801	.722	243.0	315.0	-14.9	164	1608	1403e	.781	236.0	291.7	-18.2	75	381
						<i>continued</i>	18811	.658	292.4	287.5	+18.9	33	318
							18815	.597	272.8	284.4	+ 6.3	58	208
													<i>continued</i>

- Group 18811. July 26-Aug.3. A stream of scattered spots, of which the leader becomes regular in outline by the time it reaches the west limb.
- Group 18812. July 27-Aug.2. A short-lived stream, forming immediately south of Group 18808.
- Group 18813. July 27-Aug.7. A scattered stream, of which the follower dies out by August 5.
- Group 18814. July 28-Aug.7. A stream, of which the leader, the sole survivor after August 4, splits into two regular spots by August 6.
- Group 18815. July 29-Aug.2. A short-lived stream, developing west of the central meridian.
- Group 18816. July 29 - 30. One or two tiny spots.
- Group 18817. July 29-Aug.6. A regular spot, with a small companion on August 1.
- Group 18818. July 29-Aug.9. A variable scattered stream, of which the inclination to the equator increases as the west limb is approached.
- Group 18819. July 30-Aug.7. A stream, of which the leader becomes a regular spot, while the follower dies out by August 5.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°		°	°			1958	°		°	°		
July 31. 308	continued						Aug. 2. 580	continued					
18812	.364	289.9	268.1	+12.5	16	87	18818	.350	139.2	204.2	-9.6	75	472
18808	.346	306.9	264.5	+17.4	57	283	18817	.563	151.4	200.5	-23.9	15	76
18809	.168	265.4	257.3	+4.9	17	114	18821	.723	85.1	171.2	+7.6	1	12
18820	.040	350.4	248.1	+7.9	12	87	18824	.952	69.7	144.7	+21.1	3	18
18810	.013	102.7	247.0	+5.5	38	213							
18814	.397	64.2	226.1	+15.2	65	444							
18813	.502	42.6	225.4	+26.9	88	576	Aug. 3. 445		(+11.6)	(206.2)	(+6.0)		
18819	.467	121.0	223.9	-8.6	27	125	18811	.986	288.4	287.8	+19.1	49	442
18818	.743	107.6	202.1	-9.0	94	620	18808	.849	286.6	264.4	+17.3	46	243
18817	.810	124.9	201.4	-23.6	15	109	18822	.838	291.2	262.8	+21.0	4	16
18821	.973	84.0	170.8	+7.1	0	11	18809	.779	271.0	257.4	+4.5	17	100
							18810	.663	271.4	247.7	+4.8	11	49
Aug. 1. 649		(+10.9)	(229.9)	(+5.8)			18820	.650	276.4	246.8	+8.7	31	237
18805	.950	249.1	298.4	-17.8	55	406	18819	.447	234.5	227.8	-9.4	54	262
a	.970	249.5	302.8	-18.2	46	291	18813	.478	319.0	226.7	+26.7	75	433
18811	.842	288.6	287.1	+18.7	96	722	18814	.369	297.0	226.0	+15.2	70	598
18815	.812	273.5	284.3	+6.2	14	102	18823	.328	323.8	218.1	+21.2	1	7
18812	.633	282.7	269.0	+12.5	9	52	18818	.271	179.2	206.0	-9.6	58	344
18822	.598	295.8	264.7	+19.8	1	14	1403h	.352	5.6	204.0	+26.4	1	8
18808	.583	291.8	264.3	+17.3	49	254	18817	.506	169.7	200.5	-23.8	10	55
18809	.461	269.4	257.3	+4.9	14	109	18825	.585	33.6	183.1	+34.6	4	22
18810	.306	270.1	247.7	+5.6	42	182	18826	.725	35.8	172.2	+40.9	2	8
18820	.284	281.9	246.2	+8.9	38	293	18821	.569	85.4	171.5	+7.5	0	2
1403f	.226	196.7	233.6	-6.7	1	5	18824	.868	70.0	146.0	+20.3	2	13
18813	.356	6.5	227.3	+26.4	81	487	18827	.976	103.0	130.6	-11.2	29	225
18814	.171	19.1	226.6	+15.1	89	581							
18819	.274	162.7	225.2	-9.3	65	348	Aug. 4. 603		(+12.1)	(190.9)	(+6.0)		
18818	.514	119.1	202.9	-9.3	83	465	18808	.958	286.3	265.0	+17.3	36	287
1403g	.679	142.3	202.1	-27.3	1	7	18809	.921	272.1	258.0	+4.3	14	97
18817	.665	136.3	199.9	-23.6	21	127	18810	.839	272.4	248.0	+5.3	6	19
18821	.854	84.6	171.1	+7.6	5	17	18820	.830	276.5	247.2	+8.7	29	119
							18813	.677	304.2	229.7	+27.0	61	294
Aug. 2. 580		(+11.3)	(217.6)	(+5.9)			18819	.657	247.9	228.9	-9.6	37	199
18805	.982	250.0	293.8	-18.3	13	197	18814	.603	286.7	227.4	+14.7	54	322
18811	.938	287.9	287.9	+18.8	79	636	18823	.535	303.5	219.6	+22.3	0	4
18815	.922	273.7	285.0	+5.7	0	31	18818	.379	226.1	206.9	-9.4	51	255
18812	.777	281.7	268.7	+12.8	4	18	18817	.520	197.4	200.6	-23.8	13	48
18808	.733	288.1	264.2	+17.2	52	251	18825	.484	12.6	183.6	+34.1	11	54
18822	.737	292.1	264.1	+20.2	6	23	18826	.633	24.0	171.1	+40.8	19	47
18809	.640	270.3	257.4	+4.7	14	99	18821	.375	85.0	168.9	+7.4	1	10
18810	.505	270.7	247.9	+5.5	16	84	18824	.729	67.7	145.1	+20.2	23	83
18820	.492	277.5	247.1	+8.9	34	229	18827	.885	105.3	130.9	-10.5	22	157
18813	.392	335.7	228.0	+26.7	60	405	18828	.940	115.4	125.4	-21.3	7	13
18819	.308	210.2	226.6	-9.6	62	249							
18814	.220	316.6	226.6	+15.0	73	581	Aug. 5. 335		(+12.4)	(181.2)	(+6.1)		
18823	.284	355.6	219.0	+22.3	3	18	18808	.991	286.6	264.7	+17.2	25	354
						continued							continued

- Group 18820. July 31-Aug.5. A cluster of variable spots.
- Group 18821. July 31-Aug.4. A few tiny spots.
- Group 18822. Aug. 1 - 3. A pair of spots on August 1 and 2; a single spot on August 3.
- Group 18823. Aug. 2 - 4. A few tiny spots.
- Group 18824. Aug. 2 - 14. A tiny spot on August 2 and 3, developing into a stream of which the follower breaks up and dies out after August 12.
- Group 18825. Aug. 3 - 7. A stream of small spots.
- Group 18826. Aug. 3 - 11. A group of variable spots.
- Group 18827. Aug. 3 - 14. A composite spot, which is breaking up as it passes round the west limb.
- Group 18828. Aug. 4 - 6. A tiny spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Aug. 5.335	<i>continued</i>						Aug. 7.329	<i>continued</i>					
18809	.973	272.8	257.9	+ 4.1	9	89	18819	.970	259.0	229.2	- 9.0	28	212
18810	.918	273.2	247.9	+ 5.4	5	16	18834	.884	294.6	216.7	+24.6	14	88
18820	.903	277.2	246.1	+ 9.1	13	85	18818	.832	253.4	208.7	-10.1	41	221
18813	.791	299.2	231.6	+26.6	41	228	18829	.768	295.7	203.6	+23.5	56	366
18814	.749	284.5	229.6	+14.9	40	182	18830	.607	302.5	188.8	+24.1	34	213
18819	.771	252.4	229.2	- 9.4	41	211	18825	.604	322.0	181.3	+33.8	1	3
18818	.516	240.3	208.1	- 9.3	35	296	18836	.401	225.7	171.7	-10.3	2	13
18829	.494	312.2	204.9	+25.0	5	15	18826	.599	342.1	168.8	+40.7	15	54
18817	.574	211.9	200.4	-23.3	2	12	18837	.333	188.7	157.8	-12.9	23	41
18830	.359	332.5	191.6	+24.5	4	21	18824	.323	34.5	143.5	+21.5	103	647
18825	.468	355.4	183.8	+33.8	11	59	a	.277	25.5	147.5	+20.5	49	280
18826	.604	13.4	170.4	+41.8	4	23	18827	.489	124.9	130.8	-10.5	19	168
18824	.628	63.7	144.3	+21.0	39	410	18832	.858	122.1	102.7	-23.3	20	75
a	.603	64.4	146.0	+20.1	17	212	18833	.839	73.7	97.6	+17.0	25	84
18827	.798	108.2	130.9	-10.5	17	122	18835	.930	107.3	89.0	-13.5	80	686
18828	.879	118.2	125.2	-21.2	2	14	a	.928	107.2	89.4	-13.4	70	642
18831	.964	120.0	112.2	-26.7	4	17							
18832	.989	114.4	103.3	-23.0	23	89	Aug. 8.323	(+13.5)	(141.7)	(+ 6.3)			
18833	.992	73.1	97.1	+17.5	0	34	18834	.971	292.2	219.1	+23.0	0	8
Aug. 6.324	(+12.7)	(168.1)	(+ 6.2)				18818	.930	256.5	208.1	-10.0	38	296
18813	.897	297.4	231.5	+27.3	46	254	18829	.887	294.3	204.1	+24.4	79	461
18814	.878	283.5	229.9	+14.8	36	148	18830	.756	296.4	189.3	+23.9	34	369
18819	.889	256.1	228.9	- 9.3	42	207	18836	.527	243.5	170.0	- 8.0	0	4
18834	.752	298.3	214.9	+25.1	10	39	18826	.671	329.5	168.4	+40.9	8	57
18818	.686	248.7	208.4	- 9.7	48	303	18838	.415	304.9	162.8	+19.6	6	38
18829	.618	300.9	203.3	+23.5	86	420	18837	.425	220.1	157.9	-12.9	14	139
18817	.688	225.4	200.3	-23.6	3	17	18824	.267	351.9	144.0	+21.6	113	845
18830	.464	313.3	189.7	+24.3	20	80	a	.271	339.2	147.6	+20.9	53	455
18825	.520	334.6	183.6	+33.8	8	37	18827	.344	147.7	131.0	-10.7	30	207
18826	.570	359.2	168.7	+40.8	8	44	18832	.751	128.9	102.4	-23.2	15	121
18824	.455	54.7	144.8	+20.9	130	685	18833	.700	71.9	97.8	+17.1	13	80
a	.421	53.6	147.0	+20.2	60	373	18835	.827	110.7	89.3	-13.2	127	835
18827	.654	113.8	130.8	-10.3	35	180	a	.822	110.5	89.7	-12.8	114	709
18828	.776	124.1	124.7	-21.3	2	6							
18831	.894	123.9	112.3	-26.5	0	8	Aug. 9.323	(+13.9)	(128.5)	(+ 6.3)			
18832	.939	117.3	103.3	-23.0	16	79	18818	.990	258.7	208.7	-10.2	41	311
18833	.939	73.9	97.5	+17.3	16	89	18829	.961	293.8	203.5	+24.6	69	391
18835	.986	104.8	89.9	-13.4	41	616	18830	.871	293.7	188.8	+23.6	61	451
a	.986	104.8	89.9	-13.4	41	616	18826	.763	320.6	168.2	+40.9	19	133
Aug. 7.329	(+13.1)	(154.8)	(+ 6.2)				18838	.590	294.9	163.0	+19.6	8	44
18813	.969	296.9	231.5	+27.5	28	163	18837	.577	237.7	158.3	-12.4	33	151
18814	.963	283.7	230.1	+14.9	33	100	18839	.610	222.8	154.7	-20.9	18	69
							18824	.362	316.6	143.9	+21.2	136	757
							a	.411	308.5	148.5	+20.7	68	381

*continued**continued*

- Group 18829. Aug. 5 - 9. A stream, forming west of the central meridian; the leader becomes a regular spot.
- Group 18830. Aug. 5 - 11. A short, compact stream.
- Group 18831. Aug. 5 - 6. A tiny spot.
- Group 18832. Aug. 5 - 17. A regular spot with a following companion. On August 10 other spots appear, forming a stream.
- Group 18833. Aug. 5 - 14. A regular spot.
- Group 18834. Aug. 6 - 8. A group of small spots, appearing near the west limb.
- Group 18835. Aug. 6 - 18. A stream, of which the leader, a composite spot, is the sole survivor at the west limb.
- Group 18836. Aug. 7 - 11. A few small spots, not seen on August 9.
- Group 18837. Aug. 7 - 11. A stream of small spots.
- Group 18838. Aug. 8 - 10. A pair of small spots.
- Group 18839. Aug. 9 - 13. A stream of small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Aug. 9.323	continued						Aug. 11.449	continued					
18827	.293	187.2	130.6	-10.5	35	190	18832	.501	179.4	100.1	-23.5	52	330
18840	.584	149.9	109.8	-24.3	16	84	18833	.194	15.4	97.3	+17.2	9	26
18841	.460	115.5	103.9	- 5.6	5	39	18842	.362	164.8	94.8	-13.9	5	25
18832	.645	138.9	101.1	-23.4	37	178	18845	.555	161.8	89.4	-25.3	11	67
18833	.532	67.2	97.7	+17.3	13	68	18835	.398	146.0	87.3	-12.8	144	899
18842	.645	118.5	93.1	-12.8	6	29	a	.376	149.1	89.0	-12.4	111	667
18835	.699	115.8	88.5	-12.8	148	881	18843	.761	33.7	64.2	+44.5	2	12
a	.685	116.1	89.6	-12.7	118	696	18844	.802	75.6	46.9	+15.4	17	123
18843	.895	42.3	70.4	+44.9	6	36	18846	.898	75.5	36.0	+15.8	2	18
18844	.993	75.7	44.1	+14.9	28	98	18847	.924	88.8	32.9	+ 3.6	3	18
Aug. 10.575	(+14.3)	(111.9)	(+ 6.4)				Aug. 12.375	(+14.9)	(88.1)	(+ 6.5)			
18830	.956	293.3	185.8	+24.1	74	477	18839	.938	244.5	153.1	-21.2	51	359
18836	.865	255.4	169.7	- 9.2	0	5	18824	.845	290.6	145.7	+20.9	71	472
18826	.869	314.3	167.4	+41.1	12	51	a	.872	289.4	149.0	+20.1	67	439
18838	.768	290.3	161.6	+19.6	2	7	18827	.720	246.9	130.5	-11.6	60	322
18837	.772	247.9	158.8	-12.5	27	157	18840	.589	213.8	108.9	-23.1	56	258
18839	.761	235.7	153.9	-20.6	26	180	18841	.395	238.5	107.8	- 5.7	5	25
18824	.570	297.9	144.4	+20.9	128	644	18832	.533	199.7	99.4	-23.6	46	332
a	.624	294.8	148.9	+20.2	77	429	18833	.239	321.7	97.0	+16.9	4	14
18827	.427	227.1	130.4	-10.8	40	212	18842	.371	198.1	94.9	-14.1	3	16
18840	.498	173.5	108.4	-23.1	81	290	18845	.533	181.4	88.9	-25.5	16	75
18841	.237	151.3	105.4	- 5.6	11	52	18835	.333	177.7	87.3	-12.8	154	880
18832	.525	158.9	100.1	-23.0	43	223	a	.329	181.9	88.7	-12.6	127	741
18833	.307	51.1	97.5	+17.3	8	39	18843	.707	26.7	61.6	+44.8	4	15
18842	.449	137.5	93.8	-13.2	15	62	18844	.658	73.7	47.3	+15.5	18	107
18845	.615	146.5	90.0	-24.8	3	20	18846	.779	75.3	36.9	+15.5	4	27
18835	.523	127.9	87.0	-12.9	190	1037	18847	.807	90.5	34.4	+ 3.4	0	8
a	.493	130.1	89.3	-12.5	150	744							
18843	.797	36.3	70.4	+44.8	7	28	Aug. 13.327	(+15.3)	(75.5)	(+ 6.6)			
18844	.911	76.3	45.7	+15.1	25	143	18839	.982	246.5	151.7	-22.1	28	202
18846	.965	75.0	36.1	+16.1	4	51	18824	.955	288.8	149.3	+19.9	62	381
18847	.975	87.4	34.6	+ 4.0	0	31	18827	.852	251.5	131.0	-12.0	54	367
Aug. 11.449	(+14.6)	(100.4)	(+ 6.5)				18841	.595	250.3	109.6	- 6.0	1	6
18830	.988	293.6	185.3	+24.3	35	214	18840	.698	225.5	108.3	-23.6	49	396
18836	.951	257.2	170.5	-10.0	8	29	18832	.623	217.5	99.8	-23.5	42	288
18826	.933	310.5	167.9	+39.9	7	19	18833	.393	299.1	96.5	+17.2	1	6
18837	.879	251.8	159.0	-12.6	10	36	18842	.437	221.1	92.6	-12.8	5	18
18839	.868	241.2	154.7	-20.9	79	339	18845	.567	199.7	87.7	-25.7	10	86
18824	.727	292.2	146.2	+20.5	95	535	18835	.388	211.4	87.4	-12.8	138	836
a	.753	291.1	148.6	+20.1	80	447	a	.396	214.3	88.7	-12.6	124	741
18827	.572	239.5	130.4	-11.3	35	289	18848	.531	187.9	80.1	-25.0	7	32
18840	.510	194.6	108.4	-23.0	51	281	18843	.625	10.3	66.5	+44.4	9	29
18841	.243	210.3	107.4	- 5.6	9	34	18844	.492	69.2	47.1	+15.8	24	134
						continued	18847	.613	94.3	37.9	+ 2.6	1	10
							18846	.654	73.3	35.1	+15.8	6	16

- Group 18840. Aug. 9 - 16. A cluster of variable spots.
Group 18841. Aug. 9 - 13. A stream of small spots.
Group 18842. Aug. 9 - 13. A group of small spots, coalescing with the leader of Group 18835 on August 14.
Group 18843. Aug. 9 - 19. A group of small variable spots, in high northern latitude, having a brief maximum on August 14.
Group 18844. Aug. 9 - 17. A regular spot, followed by a stream of variable companions which disappears by August 17.
Group 18845. Aug. 10 - 18. A pair of spots on August 10, developing into a small stream.
Group 18846. Aug. 10 - 14. A persistent small spot.
Group 18847. Aug. 10 - 14. One or two variable spots.
Group 18848. Aug. 13 - 15. A few tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Fbs. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Aug. 14. 328		(+15.7)	(62.3)	(+ 6.6)			Aug. 16. 352	<i>continued</i>					
18824	.990	290.2	145.8	+20.9	14	75	18835	.826	249.1	87.7	-13.1	208	935
18827	.942	254.8	130.3	-11.9	48	286	a	.832	249.2	88.3	-13.2	191	853
18840	.814	234.7	108.6	-23.5	67	341	18845	.847	233.5	84.5	-25.9	36	174
18832	.732	228.5	98.9	-23.6	40	303	18850	.654	248.9	73.4	- 8.3	11	41
18833	.570	290.4	96.1	+17.0	2	7	18851	.436	275.7	61.4	+ 8.5	1	10
18835	.526	231.5	87.2	-13.1	197	1150	18843	.695	334.9	60.1	+45.0	8	55
a	.541	233.1	88.5	-12.9	173	1030	1403l	.370	286.7	56.7	+12.3	0	8
18845	.642	216.3	87.0	-25.1	26	204	18852	.617	206.3	53.3	-27.1	6	16
18848	.601	209.9	81.5	-25.1	7	32	18844	.258	308.0	47.6	+15.7	13	52
18843	.619	356.3	65.5	+44.5	38	192	1403m	.252	10.1	32.8	+21.0	1	8
1403i	.400	176.3	60.8	-16.9	1	5	18858	.551	56.5	5.6	+23.5	5	13
18844	.302	56.0	47.3	+16.1	33	131	18853	.594	122.7	4.8	-12.9	36	231
18847	.462	94.7	34.9	+ 3.7	2	15	18854	.718	83.6	349.4	+ 9.2	12	53
18846	.477	68.8	34.9	+15.8	1	10	18855	.956	107.9	325.4	-14.8	82	449
							18856	.945	84.4	324.2	+ 7.5	24	107
							18857	.949	73.3	323.0	+17.9	136	945
Aug. 15. 626		(+16.1)	(45.2)	(+ 6.7)			Aug. 17. 329		(+16.7)	(22.6)	(+ 6.8)		
18840	.943	241.6	110.2	-24.0	55	232	18832	.974	243.1	94.6	-24.2	76	352
18849	.822	247.3	96.5	-14.3	14	71	18835	.930	252.6	88.2	-13.4	153	737
18832	.847	235.5	95.1	-24.4	56	504	a	.930	252.6	88.2	-13.4	151	724
1403j	.677	273.9	88.0	+ 7.6	1	6	18845	.934	238.1	84.8	-26.5	12	182
18835	.725	245.3	87.5	-12.7	179	1022	18850	.809	254.9	74.5	- 8.0	8	29
a	.735	245.4	88.3	-12.9	166	907	18859	.730	275.1	69.7	+ 8.3	0	5
18845	.773	229.1	85.3	-25.3	27	191	18843	.757	326.6	58.4	+44.8	2	7
18848	.696	224.3	77.3	-24.1	1	11	18852	.684	224.1	53.8	-23.5	1	6
18850	.500	241.2	71.3	- 7.9	1	6	18844	.460	291.1	48.9	+15.6	4	20
18843	.657	341.1	62.5	+44.7	6	50	18860	.500	231.9	46.2	-11.7	1	5
18851	.273	278.5	61.0	+ 8.7	3	16	18853	.423	140.9	6.8	-12.5	35	149
18852	.554	194.9	54.3	-25.7	3	19	18858	.400	42.7	5.5	+23.6	26	75
18844	.164	345.2	47.7	+15.8	13	81	18854	.540	82.7	349.8	+ 9.7	10	53
1403k	.323	179.6	45.1	-12.1	1	6	18855	.876	111.1	325.1	-14.7	67	333
18853	.716	116.3	4.0	-13.8	24	115	18856	.848	85.4	324.4	+ 7.5	21	74
18854	.803	83.1	351.5	+ 9.6	0	2	18857	.855	73.4	323.5	+17.7	110	910
18855	.987	105.7	326.8	-14.2	48	215							
18856	.982	84.9	325.8	+ 6.3	0	18							
18857	.985	72.9	323.8	+17.9	48	414							
Aug. 16. 352		(+16.3)	(35.5)	(+ 6.7)			Aug. 18. 643		(+17.0)	(5.3)	(+ 6.8)		
18840	.981	244.2	109.9	-23.6	36	209	18835	.994	255.4	86.9	-13.6	92	601
18849	.907	250.1	97.3	-14.8	8	46	a	.994	255.4	86.9	-13.6	92	601
18832	.913	239.5	94.9	-24.3	72	465	18845	.995	242.3	85.1	-26.6	34	220
							18850	.959	259.5	77.4	- 8.2	25	92
						<i>continued</i>							<i>continued</i>

- Group 18849. Aug. 15 - 16. A small spot, forming immediately preceding Group 18835.
- Group 18850. Aug. 15 - 19. A stream of small spots.
- Group 18851. Aug. 15 - 16. A small spot.
- Group 18852. Aug. 15 - 17. A few small spots.
- Group 18853. Aug. 15 - 24. A scattered stream, led by a regular spot. The following components die out by August 20. On August 22 further spots appear, forming a new stream which is growing as it passes from view.
- Group 18854. Aug. 15 - 19. A stream of small spots.
- Group 18855. Aug. 15 - 27. A variable group, of which the principal component is a composite spot.
- Group 18856. Aug. 15 - 22. A cluster of variable spots.
- Group 18857. Aug. 15 - 28. A large compact stream, which breaks up as it approaches the west limb.
- Group 18858. Aug. 16 - 21. A pair of spots, of which only the leader remains by August 20.
- Group 18859. Aug. 17 - 18. A few tiny spots.
- Group 18860. Aug. 17 - 19. A few tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Aug. 18.643 continued							Aug. 21.392 continued						
18859	.895	276.2	69.2	+ 8.6	0	12	18857	.223	30.2	322.2	+17.9	203	1463
18843	.859	320.9	56.6	+46.1	2	9	18863	.615	135.8	301.9	-19.9	1	6
18860	.703	246.4	46.2	-11.2	9	25	18861	.587	64.2	294.7	+20.5	7	55
18853	.336	182.7	6.2	-12.7	31	199	18862	.693	125.3	292.5	-18.0	17	187
18858	.290	1.0	5.0	+23.6	19	56	18864	.870	83.6	268.1	+ 9.0	30	119
18854	.249	79.0	351.0	+ 9.3	7	26	18865	.907	73.4	263.1	+17.9	2	17
18855	.710	118.8	325.4	-14.7	47	319	18866	.968	82.7	252.9	+ 8.8	31	230
18856	.652	87.6	324.5	+ 6.7	6	39	18867	.991	98.7	247.9	- 7.6	18	83
18857	.681	71.1	322.9	+17.8	169	1134	Aug. 22.409 (+18.3) (315.5) (+ 7.0)						
18861	.935	70.7	295.2	+20.4	19	74	18868	.839	297.3	11.8	+26.6	5	21
18862	.975	110.2	291.5	-17.9	11	95	18853	.807	250.1	6.1	-11.5	68	270
Aug. 19.381 (+17.3) (355.5) (+ 6.8)							18856	.188	256.9	326.0	+ 4.5	0	9
18850	.985	260.1	74.1	- 8.5	0	20	18855	.400	204.9	325.5	-14.3	37	201
18843	.904	318.6	55.2	+46.3	0	8	18857	.219	328.9	322.3	+17.7	112	1192
18860	.804	250.6	45.9	-11.1	0	9	18862	.516	141.2	295.8	-17.0	25	132
18853	.390	212.7	7.9	-12.4	25	157	18861	.431	56.9	293.0	+20.1	6	50
18858	.325	332.7	4.8	+23.5	9	36	18864	.740	84.5	267.5	+ 8.7	51	261
18854	.071	54.9	352.1	+ 9.1	2	10	18865	.791	72.7	263.2	+17.9	6	13
18855	.596	125.5	325.6	-14.3	42	252	18866	.876	84.0	254.0	+ 8.6	26	183
18856	.512	88.6	324.6	+ 6.5	4	23	18867	.934	100.8	248.1	- 7.4	22	108
18857	.560	68.1	322.6	+17.8	149	1236	Aug. 23.326 (+18.6) (303.4) (+ 7.0)						
18861	.868	70.3	295.1	+20.4	25	116	18868	.927	294.8	11.9	+25.5	0	5
18862	.926	112.7	291.8	-18.0	21	167	18853	.906	254.0	5.8	-11.2	57	373
Aug. 20.646 (+17.7) (338.8) (+ 6.9)							1404c	.687	296.2	345.2	+22.9	1	9
18853	.581	238.5	9.1	-11.7	25	109	18855	.512	225.1	325.3	-14.6	32	177
18858	.503	305.5	5.1	+23.1	3	8	18857	.354	302.2	321.6	+17.5	123	1128
1404a	.681	198.4	353.7	-33.4	1	10	18862	.425	164.0	296.4	-17.1	20	219
18855	.426	147.7	325.3	-14.3	39	203	18861	.268	30.1	295.2	+20.2	3	28
18856	.235	96.0	325.3	+ 5.3	1	8	1404d	.299	81.6	286.0	+ 9.2	5	27
18857	.324	54.1	322.9	+17.6	189	1381	18864	.575	85.0	268.2	+ 8.6	54	353
18863	.719	127.1	301.3	-20.2	1	13	18865	.656	70.4	263.0	+18.1	0	5
18861	.708	67.5	294.6	+20.7	13	53	18866	.752	83.7	254.3	+ 9.4	14	89
18862	.791	119.2	292.4	-17.9	35	197	18867	.842	103.6	248.0	- 7.5	18	89
1404b	.853	62.1	281.0	+27.3	0	7	Aug. 24.314 (+18.9) (290.3) (+ 7.0)						
18864	.961	82.8	264.3	+ 8.8	0	12	18853	.978	256.7	6.2	-11.4	20	208
18865	.963	73.4	263.3	+17.8	13	38	18855	.658	237.3	325.2	-15.1	30	189
18866	.993	80.1	254.7	+10.6	0	28	18857	.548	291.5	322.5	+17.5	87	1010
Aug. 21.392 (+18.0) (328.9) (+ 6.9)							18869	.376	312.7	307.5	+21.4	27	160
18853	.696	245.2	8.9	-11.7	19	115	18862	.421	193.5	296.2	-17.1	32	184
18858	.617	298.8	4.7	+22.9	0	4	18861	.243	342.1	294.8	+20.3	3	20
18856	.045	117.0	325.6	+ 5.7	2	14	18864	.384	85.3	267.7	+ 8.3	37	243
18855	.371	170.6	325.3	-14.5	40	251	18866	.587	83.7	254.2	+ 9.4	15	69
continued							18867	.704	107.7	248.0	- 7.2	14	85
							18870	.985	101.7	212.1	-10.1	25	262

- Group 18861. Aug. 18 - 24. A group of variable spots.
- Group 18862. Aug. 18 - 29. A stream of spots, of which the intermediate components disappear by August 27.
- Group 18863. Aug. 20 - 21. One or two tiny spots.
- Group 18864. Aug. 20 - 28. A variable stream, of which only the leader is seen on August 26 and 27.
- Group 18865. Aug. 20 - 23. A small spot.
- Group 18866. Aug. 20 - 31. A persistent small spot with variable companions, notably on August 30.
- Group 18867. Aug. 21 - 28. A regular spot. Numerous faint following companions appear after August 25.
- Group 18868. Aug. 22 - 23. Two or three tiny spots.
- Group 18869. Aug. 24 - 29. A bi-polar group, forming west of the central meridian.
- Group 18870. Aug. 24-Sept. 5. A regular spot, with one or two companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Fos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Fos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°		°	°			1958	°		°	°		
Aug. 25.599	(+19.2)		(273.3)	(+7.1)			Aug. 28.357	(+20.0)		(236.9)	(+7.1)		
1404e	.987	236.8	347.7	-31.1	15	103	18857	.990	287.3	320.3	+18.1	17	178
18855	.828	246.5	324.9	-14.9	27	171	18874	.966	250.6	308.7	-16.6	4	27
18857	.750	287.4	321.8	+17.7	130	751	18869	.925	290.2	305.3	+21.3	86	699
18869	.598	296.0	308.4	+21.3	115	583	18862	.899	245.8	296.3	-18.1	27	187
18862	.537	220.6	294.7	-17.4	66	393	18864	.538	274.9	269.6	+8.6	4	23
1404f	.452	178.1	274.2	-19.6	1	5	18866	.333	280.0	256.3	+10.0	3	11
18864	.084	66.9	268.8	+9.0	21	131	18867	.339	205.0	245.3	-10.8	5	39
18866	.317	82.2	254.8	+9.1	7	36	18877	.096	308.8	241.2	+10.5	1	8
18867	.500	117.6	246.9	-7.0	8	43	18878	.209	167.0	234.2	-4.6	4	29
1404g	.735	111.4	229.4	-10.4	0	4	18870	.519	123.0	210.8	-10.0	34	225
18870	.902	105.2	211.3	-10.4	47	252	18872	.635	110.8	200.3	-7.3	78	392
18871	.963	64.0	197.5	+26.9	20	141	a	.590	112.4	203.7	-7.0	27	131
							18871	.676	56.6	197.6	+27.3	54	245
Aug. 26.343	(+19.5)		(263.5)	(+7.1)			18875	.693	74.4	193.1	+15.8	21	96
18855	.906	250.8	325.1	-14.0	37	229	18873	.772	57.8	188.7	+29.1	4	21
18857	.849	285.6	322.0	+17.0	116	776	18876	.873	107.9	179.0	-11.8	5	21
18869	.710	292.3	307.9	+20.7	150	748	18879	.852	63.8	178.9	+25.9	9	41
18862	.639	230.5	294.6	-17.9	67	411	18880	.962	112.2	166.7	-19.0	16	119
18864	.155	280.1	272.3	+8.6	8	43	18881	.986	73.1	157.3	+16.6	6	47
18866	.143	69.0	255.7	+10.0	4	13							
18867	.384	130.0	246.3	-7.5	6	26	Aug. 29.327	(+20.3)		(224.1)	(+7.1)		
18870	.824	107.6	210.7	-10.2	46	267	18869	.969	291.6	301.3	+22.6	44	263
18872	.925	102.5	197.7	-8.7	14	49	18862	.981	250.7	299.8	-17.3	34	355
18871	.918	63.5	196.4	+27.1	38	196	18866	.553	278.5	257.8	+10.6	1	17
18873	.957	60.2	189.3	+30.5	3	15	18877	.308	284.1	241.7	+11.1	1	7
							18878	.278	223.6	235.1	-4.6	6	38
Aug. 27.333	(+19.7)		(250.4)	(+7.1)			18870	.372	141.4	210.5	-9.9	29	231
18855	.975	253.9	324.5	-13.9	51	391	18872	.446	121.2	201.6	-6.7	88	537
18857	.941	285.6	321.6	+17.0	118	936	a	.418	123.5	203.6	-6.7	56	324
18869	.833	290.3	306.9	+20.8	138	784	18871	.534	49.9	197.1	+26.4	50	342
18874	.860	247.5	305.7	-15.2	4	16	18875	.532	71.1	192.7	+16.0	22	161
18862	.768	238.7	294.0	-18.4	39	221	18873	.620	53.5	190.1	+27.5	3	22
18864	.381	275.2	272.9	+8.5	3	12	18882	.644	112.6	187.3	-8.6	66	345
18866	.127	299.3	256.8	+10.6	4	21	18879	.755	60.7	176.9	+26.6	3	25
18867	.268	161.4	245.5	-7.6	6	36	18880	.886	115.4	166.7	-18.5	16	87
1404h	.169	51.5	242.6	+13.1	4	26	18881	.932	73.7	154.5	+17.7	10	50
18870	.683	113.1	210.9	-10.0	43	246							
18872	.794	105.3	200.0	-7.5	43	215	Aug. 30.590	(+20.6)		(207.4)	(+7.2)		
18871	.815	61.5	197.0	+27.2	37	314	1404i	.722	271.6	253.7	+6.1	4	14
18875	.852	75.3	191.5	+16.2	9	59	18866	.689	276.6	251.2	+9.7	5	39
18873	.889	59.3	188.1	+30.5	2	15	18870	.295	190.2	210.4	-9.6	54	231
18876	.956	104.9	179.8	-11.9	3	30							

continued

- Group 18871. Aug.25-Sept.6. A cluster of spots, which becomes a stream by September 1. Only the leading components are visible on September 6.
- Group 18872. Aug.26-Sept.5. A compact stream.
- Group 18873. Aug. 26 - 29. A few small spots, which become absorbed by Group 18871.
- Group 18874. Aug. 27 - 28. One or two tiny spots.
- Group 18875. Aug.27-Sept.6. A pair of spots, developing into a stream, of which the leader is the most stable component.
- Group 18876. Aug. 27 - 28. A small spot.
- Group 18877. Aug. 28 - 29. A tiny spot.
- Group 18878. Aug. 28 - 29. A few small spots.
- Group 18879. Aug.28-Sept.7. At first a few variable spots. Fresh activity occurs on September 1, when the group becomes a stream. Only the follower is seen on September 7.
- Group 18880. Aug.28-Sept.5. A small persistent spot, with a companion on September 1.
- Group 18881. Aug.28-Sept.4. A few small spots.
- Group 18882. Aug.29-Sept.6. A stream of normal type, which grows rapidly. The follower breaks up and dies out before reaching the west limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Aug. 30. 590	<i>continued</i>						Sept. 2. 640	<i>continued</i>					
18872	.251	159.4	202.3	- 6.4	111	620	18875	.486	285.2	195.8	+13.7	133	878
a	.240	165.1	203.9	- 6.1	78	423	18871	.513	311.4	192.4	+26.3	53	216
18871	.380	29.9	195.3	+26.2	54	321	18882	.465	235.0	189.7	- 8.8	60	456
18875	.260	55.2	194.7	+15.5	68	447	18879	.385	334.2	177.9	+27.3	45	283
18882	.435	127.3	187.0	- 8.5	156	956	18884	.478	354.6	170.3	+35.4	29	149
18879	.542	50.4	179.7	+26.5	4	24	18880	.441	177.6	166.0	-18.7	9	37
18883	.688	135.4	175.8	-23.1	7	27	18881	.288	50.4	153.7	+17.5	3	14
18884	.701	43.2	170.9	+36.5	5	22	18885	.632	81.0	127.8	+11.2	6	37
18880	.743	123.6	166.7	-18.8	18	75	18886	.870	115.2	111.5	-17.8	19	95
18881	.799	73.1	154.2	+17.8	11	65	18887	.918	122.4	107.8	-25.9	18	82
							18888	.962	107.3	95.9	-14.4	16	86
							18889	.989	105.5	88.1	-14.1	23	276
Aug. 31. 318	(+20.8)	(197.8)	(+ 7.2)				Sept. 3. 325	(+21.6)	(158.1)	(+ 7.2)			
18866	.848	276.7	256.2	+ 9.5	2	10	18870	.815	253.0	210.1	- 9.4	34	205
18870	.359	217.0	210.4	- 9.6	43	199	18872	.708	253.3	200.9	- 6.4	184	1024
18872	.248	196.5	201.8	- 6.5	118	733	a	.745	255.6	204.4	- 5.7	126	591
a	.253	204.4	203.8	- 6.1	81	405	18875	.605	283.3	195.2	+13.8	143	834
18871	.336	6.9	195.2	+26.6	48	321	18871	.613	305.1	192.1	+26.6	41	238
18875	.153	18.7	194.9	+15.5	39	407	18882	.577	242.6	189.2	- 9.1	50	377
18882	.311	149.7	188.7	- 8.4	116	685	18879	.473	318.6	178.7	+27.5	60	311
18879	.458	40.4	178.4	+27.2	2	7	18884	.506	338.3	171.2	+35.0	23	122
18883	.631	142.8	173.3	-23.6	1	10	18880	.459	196.6	166.0	-18.9	4	22
18884	.610	37.4	170.9	+35.4	26	186	18881	.216	28.0	152.0	+18.1	3	23
18880	.647	130.8	166.8	-18.8	13	62	18885	.508	79.8	127.6	+11.4	9	66
18881	.698	72.1	153.8	+17.6	13	59	18886	.791	119.0	111.7	-17.6	11	66
							18887	.863	126.0	107.3	-26.0	11	51
Sept. 1. 391	(+21.1)	(183.6)	(+ 7.2)				18888	.909	109.5	96.1	-14.3	17	144
18870	.520	238.3	210.1	- 9.4	37	187	18889	.959	106.9	87.4	-13.9	47	252
18872	.381	232.7	201.3	- 6.4	150	838	18890	.965	99.2	84.7	- 6.9	51	510
a	.409	237.7	203.8	- 5.9	78	483	18891	.987	73.4	75.8	+17.5	33	282
18875	.229	303.7	194.9	+14.4	78	550	18892	.996	99.8	74.7	- 9.0	0	37
18871	.374	334.9	193.8	+26.8	30	184							
18882	.291	197.3	188.6	- 8.9	118	643							
18879	.352	14.1	178.1	+27.0	13	90							
18883	.535	161.3	172.9	-23.3	1	5	Sept. 4. 375	(+21.8)	(144.2)	(+ 7.2)			
18884	.515	21.1	170.5	+35.6	33	186	18870	.928	256.6	210.2	- 9.6	40	217
18880	.514	146.4	166.2	-18.4	12	48	18872	.859	258.2	201.8	- 6.3	156	983
18881	.518	68.6	153.4	+17.1	4	25	a	.883	259.4	204.7	- 5.9	110	597
18885	.825	81.2	127.6	+11.3	2	20	18875	.782	281.9	196.0	+13.8	130	709
18886	.967	110.5	111.8	-17.7	4	39	18871	.774	298.1	193.5	+26.2	22	137
18887	.986	117.9	108.2	-25.9	15	88	18882	.765	251.2	191.3	- 9.4	46	236
							18879	.621	306.3	178.4	+27.5	51	270
Sept. 2. 640	(+21.4)	(167.1)	(+ 7.2)				18884	.610	321.5	171.7	+34.9	19	97
18870	.716	249.6	209.7	- 9.1	38	210	18880	.555	219.3	165.9	-18.7	11	20
18872	.601	249.6	201.5	- 6.1	196	1204	18881	.224	323.8	152.1	+17.5	0	7
a	.632	251.8	204.0	- 5.6	122	710	18885	.276	72.2	128.7	+11.8	22	82
						<i>continued</i>	18886	.650	128.4	112.0	-17.7	9	37
													<i>continued</i>

- Group 18883. Aug. 30 - Sept. 1. One or two tiny spots.
- Group 18884. Aug. 30 - Sept. 8. A short stream, of which the leader is a regular spot; the follower dies out after September 3.
- Group 18885. Sept. 1 - 6. A stream of small spots.
- Group 18886. Sept. 1 - 4. A single spot on September 1; a pair thereafter.
- Group 18887. Sept. 1 - 6. A small spot.
- Group 18888. Sept. 2 - 12. A regular spot, with a distant following companion until September 5. On September 10 it begins to break up.
- Group 18889. Sept. 2 - 14. A regular spot. On September 6, other spots appear, forming a variable cluster.
- Group 18890. Sept. 3 - 14. A variable cluster, which becomes a compact stream by September 11.
- Group 18891. Sept. 3 - 14. A variable stream.
- Group 18892. Sept. 3 - 11. A small spot, which breaks up on September 10.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Sept. 4.375	<i>continued</i>						Sept. 7.556	<i>continued</i>					
18887	.763	133.6	106.4	-26.0	7	18	18894	.901	256.9	164.5	-8.5	24	188
18888	.777	115.0	97.8	-14.2	29	166	18893	.776	275.0	153.4	+8.4	4	20
18889	.870	110.6	87.4	-13.9	36	252	18888	.359	174.4	100.1	-13.7	16	80
18890	.880	102.7	84.4	-7.6	61	342	18895	.089	70.4	97.4	+8.9	1	6
18891	.929	73.4	75.0	+18.1	58	384	18890	.376	133.6	86.3	-8.0	51	370
18892	.951	100.9	73.9	-8.0	14	69	18889	.460	141.9	85.2	-14.3	54	380
							18892	.535	116.6	73.5	-7.5	5	25
Sept. 5.321	(+22.1)		(131.7)	(+7.2)			18891	.506	65.0	73.4	+18.6	45	239
18870	.985	258.9	210.1	-9.6	25	228	18896	.937	69.2	31.7	+22.0	83	766
18872	.945	260.6	201.2	-6.4	131	843							
a	.959	261.6	203.9	-5.9	99	600	Sept. 8.341	(+22.7)		(91.8)	(+7.2)		
18875	.888	281.9	194.9	+13.8	83	584	18884	.963	304.5	167.2	+35.0	9	46
18871	.875	296.2	192.6	+26.3	21	114	18894	.962	259.1	164.2	-8.3	41	232
18882	.886	254.9	191.7	-9.8	32	259	18893	.880	275.8	153.8	+8.5	2	17
18879	.739	302.0	176.7	+28.2	42	215	1404j	.656	280.4	132.9	+12.2	1	9
18884	.715	313.5	170.9	+35.1	21	118	18888	.385	202.7	100.6	-13.6	16	95
18880	.676	232.1	165.8	-18.5	3	11	18890	.283	161.5	86.6	-8.3	39	264
18893	.316	274.7	150.2	+8.3	31	127	18889	.386	162.3	84.9	-14.3	61	426
18885	.117	37.9	127.5	+12.4	18	89	18892	.402	128.5	73.4	-7.6	3	18
18887	.664	143.9	106.0	-25.9	3	13	18891	.363	56.7	73.2	+18.3	73	398
18888	.624	123.4	99.4	-14.0	21	124	18896	.855	68.9	32.9	+21.7	78	524
18889	.756	115.3	87.2	-13.8	33	261	1404k	.964	80.9	16.4	+10.7	0	13
18890	.755	107.1	85.1	-7.9	73	340	18897	.976	101.2	16.2	-9.2	11	76
18891	.844	72.8	73.8	+18.4	70	352							
18892	.868	103.3	73.4	-7.8	9	86							
							Sept. 9.351	(+23.0)		(78.5)	(+7.2)		
Sept. 6.588	(+22.4)		(115.0)	(+7.2)			18888	.506	226.8	100.7	-13.5	10	76
18875	.981	282.8	195.0	+13.9	32	283	18895	.317	277.3	97.0	+9.1	11	46
18871	.973	295.6	193.3	+26.5	19	121	18890	.306	210.1	87.4	-8.2	46	290
18882	.985	258.2	193.2	-10.3	45	325	18889	.398	199.0	86.2	-14.9	78	522
18879	.880	298.5	176.3	+28.4	12	69	18892	.270	160.0	73.2	-7.4	4	21
18884	.846	306.8	170.3	+34.7	15	61	18891	.221	23.8	73.1	+18.8	94	433
18894	.785	253.4	164.3	-8.3	13	57	18898	.412	80.4	54.2	+10.5	1	3
18893	.582	274.2	150.8	+8.3	11	56	18896	.711	67.2	34.1	+21.1	75	553
18885	.228	292.8	127.4	+12.1	4	27	18897	.923	104.6	13.5	-10.4	25	105
18887	.570	164.0	105.0	-26.0	1	9	18899	.936	75.6	8.2	+16.0	3	10
18888	.440	144.6	99.8	-13.9	15	99							
18895	.331	82.2	95.7	+9.3	9	50	Sept. 10.337	(+23.2)		(65.5)	(+7.2)		
18889	.590	126.6	85.9	-14.3	48	302	18888	.656	240.2	101.1	-13.1	12	59
18890	.549	117.2	85.6	-8.2	64	425	18895	.514	276.0	96.6	+9.3	18	39
18891	.664	70.3	74.0	+18.4	43	267	18890	.469	235.4	88.4	-8.7	75	625
18892	.700	108.8	73.2	-7.7	13	52	18889	.528	222.8	87.3	-16.0	96	528
18896	.969	71.9	38.0	+19.3	22	196	18892	.284	210.8	73.9	-6.9	1	7
							18891	.237	328.7	72.9	+18.8	67	339
Sept. 7.556	(+22.6)		(102.2)	(+7.2)			18898	.182	73.6	55.3	+10.0	12	57
18879	.950	297.8	175.1	+28.6	3	28	18896	.544	62.4	34.6	+20.7	73	347
18884	.920	304.8	168.8	+34.8	9	52	18900	.760	127.1	24.9	-21.8	2	4
							18897	.815	108.5	13.9	-10.5	38	96
						<i>continued</i>							<i>continued</i>

- Group 18893. Sept. 5 - 8. A pair of spots on September 5 and 6; only the leader remains on September 7 and 8.
- Group 18894. Sept. 6 - 8. A small stream, forming near the west limb.
- Group 18895. Sept. 6 - 13. A few small spots, not seen on September 8. From September 9 the group is represented by a short stream.
- Group 18896. Sept. 6 - 16. A bi-polar stream. Only the leading components are seen on September 15 and 16.
- Group 18897. Sept. 8 - 20. A variable stream, in the rear part of which a composite spot forms by September 14.
- Group 18898. Sept. 9 - 12. A short-lived stream.
- Group 18899. Sept. 9 - 10. A tiny spot.
- Group 18900. Sept. 10 - 18. A single spot on September 10 and 12, not seen on September 11. The group then develops into a short stream.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Sept. 10.337	<i>continued</i>						Sept. 12.310	<i>continued</i>					
18899	.830	76.0	9.0	+15.6	2	13	18903	.642	112.7	2.8	-8.6	1	7
18901	.844	80.2	7.8	+12.1	8	25	18904	.912	132.7	345.6	-34.1	60	345
18902	.909	121.4	7.1	-24.6	8	17	18905	.897	127.9	345.3	-29.3	30	339
18903	.917	103.8	1.1	-9.6	2	9	18906	.825	77.7	343.4	+14.2	28	169
18904	.995	125.4	347.6	-34.0	24	196	18908	.874	55.9	339.9	+33.1	5	18
18905	.996	121.2	345.9	-30.0	0	133	18910	.920	106.2	335.1	-11.8	6	22
18906	.988	76.7	343.2	+14.2	22	113	18909	.925	75.9	330.9	+15.7	55	269
							18911	.981	108.1	323.5	-16.1	92	567
Sept. 11.379	(+23.3)	(51.7)	(+7.2)				Sept. 13.574	(+23.8)	(22.7)	(+7.2)			
18888	.813	248.0	102.3	-13.2	14	73	18895	.965	278.2	98.1	+9.7	15	136
18895	.712	275.9	97.4	+9.2	24	175	18890	.930	258.4	89.3	-7.9	145	880
18890	.654	248.3	89.4	-8.3	187	1047	18889	.933	251.9	88.5	-13.9	51	322
18889	.680	237.6	88.1	-15.5	77	570	18891	.765	289.3	72.4	+19.3	14	80
18892	.442	238.5	73.9	-6.6	1	10	1404m	.404	299.0	44.4	+18.0	3	20
18891	.410	300.1	73.6	+18.5	33	117	18907	.450	232.0	43.7	-9.3	2	20
18898	.085	301.5	55.9	+9.7	10	57	18896	.300	328.6	32.4	+21.9	20	113
18907	.342	150.1	41.8	-10.1	0	4	18900	.489	183.4	24.5	-21.9	11	33
18896	.380	49.1	33.8	+21.2	60	349	18897	.380	142.6	9.2	-10.5	92	539
14041	.528	118.7	23.9	-8.3	1	9	18901	.292	71.8	6.3	+12.1	2	13
18897	.688	113.3	11.9	-10.3	30	119	18905	.777	137.8	346.1	-29.3	73	384
18901	.666	80.3	9.8	+11.8	1	21	18904	.822	141.0	344.2	-34.1	66	315
18902	.814	127.2	6.4	-24.5	2	8	18906	.639	76.5	343.0	+14.1	32	165
18903	.796	107.5	1.6	-9.3	4	11	18908	.745	51.0	339.1	+33.2	2	8
18904	.964	128.7	346.3	-34.3	80	352	18910	.777	111.6	335.3	-11.8	2	13
18905	.958	123.9	345.8	-29.5	31	203	18909	.780	76.2	331.2	+15.2	61	532
18906	.924	77.7	343.4	+14.1	32	199	18911	.891	111.4	323.5	-15.4	81	469
18908	.944	57.5	340.4	+33.0	8	30	18912	.988	108.9	304.7	-17.3	158	1008
18909	.961	75.5	336.7	+15.8	13	99							
18910	.984	103.7	334.1	-12.0	0	74							
Sept. 12.310	(+23.5)	(39.4)	(+7.2)				Sept. 14.572	(+24.0)	(9.6)	(+7.2)			
18888	.919	251.7	103.1	-13.7	3	29	18889	.991	254.2	89.6	-14.5	32	235
18895	.848	276.9	97.8	+9.7	38	221	18890	.986	260.2	88.4	-8.3	58	487
18890	.794	254.3	89.7	-7.8	141	1013	18891	.878	288.8	71.5	+19.9	4	47
18889	.807	245.9	88.8	-14.6	82	487	18907	.613	244.8	43.6	-9.1	24	133
18891	.564	293.3	72.5	+18.9	37	141	18896	.436	305.5	31.9	+21.3	11	87
18898	.286	279.9	55.9	+9.7	1	37	18900	.540	206.6	24.6	-21.8	15	73
18907	.299	194.7	43.8	-9.6	5	28	18913	.161	312.2	16.6	+13.4	2	35
18896	.251	17.3	34.8	+21.0	57	334	18897	.303	179.8	9.5	-10.4	73	510
18900	.537	153.3	24.4	-21.6	3	7	18901	.126	53.6	3.7	+11.4	0	7
18897	.544	121.7	11.5	-10.2	41	214	18903	.289	150.1	1.3	-7.4	7	29
18901	.533	79.0	7.2	+11.9	12	51	18905	.689	148.8	345.5	-29.5	67	327
						<i>continued</i>	18904	.744	150.7	343.7	-33.9	49	256
												<i>continued</i>	

- Group 18901. Sept. 10 - 15. A group of small variable spots.
- Group 18902. Sept. 10 - 11. A small spot.
- Group 18903. Sept. 10 - 18. A single spot until September 12; not seen on September 13. On September 14 a cluster of small spots appears in the same area.
- Group 18904. Sept. 10 - 22. A regular spot.
- Group 18905. Sept. 10 - 22. A regular spot. A preceding companion appears on September 12 and slowly moves away in longitude, dying out by September 20.
- Group 18906. Sept. 10 - 22. A regular spot.
- Group 18907. Sept. 11 - 17. A single spot on September 11, developing into a short stream.
- Group 18908. Sept. 11 - 14. A small spot.
- Group 18909. Sept. 11 - 23. A stream of small spots, of which the leading components coalesce into a regular spot which is the sole survivor on September 21.
- Group 18910. Sept. 11 - 13. A small spot.
- Group 18911. Sept. 12 - 24. A pair of regular spots, with a few variable companions.
- Group 18912. Sept. 13 - 25. A large composite spot, of which the leading part becomes detached and assumes a regular outline by September 20. There is also a small regular spot to the rear throughout the disk passage.
- Group 18913. Sept. 14 - 15. A few small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY OF THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Sept. 14. 572	<i>continued</i>						Sept. 17. 326	<i>continued</i>					
18906	.453	72.8	343.2	+14.1	32	161	18906	.213	305.8	343.4	+14.2	29	155
18908	.628	43.7	338.5	+33.2	0	4	18904	.671	190.6	341.7	-34.0	48	288
18909	.620	74.2	331.5	+15.4	58	452	1405a	.285	198.5	338.4	-8.5	1	7
18911	.781	116.0	323.1	-15.1	107	552	18909	.169	359.6	333.3	+16.9	63	368
18912	.939	111.5	303.6	-17.3	231	1358	18911	.418	153.5	322.1	-14.8	95	479
18914	.961	66.6	294.3	+24.4	3	20	18917	.359	50.5	316.1	+20.1	0	6
							18912	.619	130.5	303.8	-17.3	270	1775
							18914	.655	62.6	294.1	+23.1	21	90
Sept. 15. 492	(+24.1)		(357.4)	(+7.2)			18918	.792	87.4	280.6	+6.5	7	20
18907	.758	251.3	43.8	-9.1	19	144	18919	.956	78.2	259.4	+13.4	3	15
18915	.715	315.0	35.9	+36.0	1	6							
18896	.615	295.3	33.8	+21.0	7	38	Sept. 18. 331	(+24.6)		(319.9)	(+7.1)		
18900	.636	221.5	24.3	-22.0	15	72	18900	.936	242.7	23.8	-22.4	23	112
18916	.513	235.6	22.8	-10.3	0	12	18897	.780	250.2	8.0	-10.5	29	197
18913	.321	292.7	15.1	+13.9	0	5	18903	.736	253.9	5.1	-6.8	1	8
18897	.365	210.6	8.3	-11.1	77	323	1405b	.539	315.1	345.5	+28.8	2	17
18901	.184	300.1	6.7	+12.4	0	5	18906	.413	289.1	343.5	+14.3	28	136
18903	.271	200.9	3.0	-7.4	8	35	18905	.678	209.2	342.2	-29.6	47	201
18905	.626	162.7	345.1	-29.5	60	346	18904	.720	204.6	341.1	-34.2	39	236
18906	.269	62.5	343.2	+14.1	27	151	18909	.295	306.4	334.2	+16.9	45	282
18904	.687	162.4	343.0	-33.8	61	283	18911	.378	182.8	321.0	-15.0	73	415
18909	.465	70.3	330.5	+15.4	34	190	18912	.497	146.4	303.2	-17.6	262	1705
18911	.654	122.6	323.8	-14.7	101	480	18914	.489	54.9	294.3	+22.7	35	205
18912	.855	115.7	303.7	-17.6	259	1460	18938	.641	87.0	279.9	+7.4	1	7
18914	.879	67.7	295.6	+23.0	17	77	18920	.745	123.4	279.0	-18.8	2	7
							18919	.845	80.6	261.7	+11.8	12	64
Sept. 16. 522	(+24.3)		(343.8)	(+7.2)									
18907	.880	256.2	43.4	-8.5	9	31	Sept. 19. 545	(+24.8)		(303.9)	(+7.1)		
18915	.840	308.7	37.7	+36.0	6	44	18897	.926	255.4	9.4	-10.6	27	130
18896	.777	291.5	34.4	+21.2	0	16	18906	.644	283.4	343.9	+14.1	25	139
18900	.759	232.9	24.3	-21.8	17	88	18905	.789	223.4	342.3	-29.4	32	164
18916	.694	247.0	24.1	-10.2	0	25	18904	.810	217.2	340.2	-34.5	40	226
18897	.511	233.7	8.5	-11.0	52	305	18909	.499	290.9	332.8	+16.4	36	182
18903	.411	233.5	3.2	-7.4	7	28	18911	.466	217.3	320.8	-14.9	78	409
18905	.600	181.0	344.5	-29.5	49	340	18912	.418	177.0	302.6	-17.5	211	1268
18906	.125	4.3	343.2	+14.3	40	173	18914	.300	27.4	295.3	+22.4	36	166
18904	.659	177.9	342.1	-33.8	50	278	1405c	.570	153.1	287.6	-23.6	1	9
18909	.252	50.7	332.1	+16.2	51	291	18920	.573	137.0	279.7	-18.2	2	15
18911	.501	136.7	323.1	-14.5	99	480	18919	.639	81.5	264.0	+10.8	19	101
18917	.462	61.3	318.5	+19.3	1	23							
18912	.735	122.1	303.2	-17.5	269	1824	Sept. 20. 647	(+24.9)		(289.4)	(+7.1)		
18914	.773	65.7	293.9	+23.3	12	70	18897	.977	257.1	5.1	-10.9	9	46
Sept. 17. 326	(+24.4)		(333.2)	(+7.2)			18906	.811	281.9	344.0	+13.8	32	156
18907	.937	258.1	41.0	-8.5	3	16	18905	.876	230.3	340.1	-29.6	14	109
18915	.917	305.0	39.2	+34.8	5	31	18904	.892	224.7	339.2	-34.9	20	206
18900	.849	238.4	24.2	-21.9	15	102	18909	.707	286.3	334.3	+16.5	27	121
18897	.641	243.8	8.9	-10.6	55	275	18911	.610	233.7	319.9	-15.0	87	461
18903	.568	247.0	4.8	-6.7	2	15	18912	.472	208.2	302.9	-17.6	200	1137
18905	.622	195.8	344.4	-29.6	62	288	18914	.290	342.9	294.7	+23.1	23	152
						<i>continued</i>							<i>continued</i>

Group 18914. Sept. 14 - 26. A variable stream of small spots.
 Group 18915. Sept. 15 - 17. A few small spots.
 Group 18916. Sept. 15 - 16. A few faint spots.
 Group 18917. Sept. 16 - 17. Two or three tiny spots.
 Group 18918. Sept. 17 - 18. One or two tiny spots.
 Group 18919. Sept. 17 - 24. A stream of small spots.
 Group 18920. Sept. 18 - 19. A small spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Sept. 20.647	<i>continued</i>						Sept. 23.336	<i>continued</i>					
18919	.405	80.1	265.6	+10.5	16	95	1405e	.182	34.9	247.7	+15.5	0	6
18921	.593	75.3	253.3	+14.4	6	31	18926	.416	18.1	245.3	+30.1	1	5
18922	.985	99.3	210.8	-7.8	20	96	18927	.480	129.1	231.7	-11.1	2	6
18923	.992	95.8	204.0	-4.8	34	191	18922	.115	107.9	210.7	-7.6	21	118
							18923	.742	101.3	207.3	-3.6	100	519
							18928	.876	51.7	195.2	+36.6	4	11
Sept. 21.554	(+25.1)	(277.4)	(+7.1)				18925	.925	112.5	190.3	-17.7	87	730
18906	.909	281.9	343.4	+13.8	24	131	a	.913	113.3	192.3	-17.9	46	401
18905	.941	234.9	339.5	-29.6	13	88	b	.945	111.1	186.7	-17.3	41	329
18904	.946	229.3	338.0	-34.8	47	217	18929	.967	72.5	177.4	+18.7	4	8
18909	.840	285.1	334.9	+16.5	20	85	18930	.994	95.5	171.1	-4.6	0	18
18911	.750	242.3	320.7	-15.2	70	392	18931	.995	99.1	171.1	-8.2	0	67
18912	.585	225.6	303.3	-17.8	210	1200							
18914	.390	317.3	294.1	+23.4	36	265							
18919	.226	71.7	264.8	+11.0	19	138	Sept. 24.322	(+25.4)	(240.8)	(+7.0)			
18921	.419	70.9	253.4	+14.4	2	15	18911	.982	251.2	316.8	-16.9	23	117
18922	.929	101.3	210.8	-7.7	21	111	18912	.917	247.4	303.2	-17.5	212	778
18923	.946	96.5	207.3	-3.7	87	486	18914	.827	291.8	296.4	+21.9	40	344
							18919	.401	280.2	264.4	+10.5	6	37
Sept. 22.347	(+25.2)	(266.9)	(+7.0)				18926	.392	352.0	244.4	+29.7	27	123
18906	.968	282.2	343.4	+13.5	14	123	18927	.360	151.5	230.7	-11.5	10	40
18905	.980	237.4	339.0	-29.9	22	128	18922	.553	115.1	210.6	-7.5	23	121
18904	.980	232.1	337.3	-34.9	27	194	18923	.593	107.2	206.3	-4.3	98	488
18909	.921	285.0	334.7	+16.5	18	109	18928	.787	48.6	194.0	+36.2	2	7
18911	.849	246.8	320.7	-15.4	75	386	18925	.833	116.8	189.7	-17.7	101	658
18912	.687	234.8	302.9	-17.6	209	1087	a	.818	118.1	191.6	-18.1	64	342
18914	.535	301.8	296.2	+22.4	79	401	b	.860	115.1	186.3	-17.3	37	316
18924	.398	256.0	268.7	+30.3	8	28	18929	.874	72.6	179.4	+18.6	30	125
18919	.075	35.0	264.4	+10.5	30	153	18930	.942	98.6	171.6	-5.7	16	122
18921	.280	63.0	252.1	+14.1	1	8	18932	.962	115.6	171.5	-22.2	11	48
1405d	.739	61.4	221.1	+25.6	0	8	18931	.958	103.1	169.5	-10.4	46	297
18922	.849	103.7	210.8	-7.7	21	112							
18923	.873	98.4	207.2	-3.8	102	502	Sept. 25.321	(+25.5)	(227.9)	(+7.0)			
18925	.985	109.7	190.1	-17.9	114	743	18912	.983	250.7	304.1	-17.4	150	1085
a	.978	110.6	192.4	-18.4	80	407	18914	.909	292.0	293.7	+22.8	33	278
b	.992	108.5	187.0	-17.2	34	336	18926	.462	329.5	243.6	+30.1	66	325
							18927	.325	191.8	231.8	-11.5	8	49
Sept. 23.336	(+25.3)	(253.9)	(+7.0)				18922	.384	129.8	210.7	-7.5	18	109
18909	.981	285.5	334.0	+16.5	5	28	18923	.419	118.1	206.2	-4.8	62	394
18911	.938	250.7	320.3	-15.3	78	473	18925	.713	123.8	189.6	-17.8	117	641
18912	.810	242.5	302.5	-17.3	182	1072	a	.697	125.7	191.5	-18.3	57	343
18914	.701	294.6	297.2	+22.1	60	436	b	.737	121.3	186.8	-17.2	60	298
18924	.451	328.3	269.6	+29.2	1	5	18929	.768	71.6	177.9	+18.5	42	185
18919	.202	288.1	265.1	+10.4	13	87	18930	.849	102.1	171.5	-6.4	19	147
						<i>continued</i>	18932	.900	120.0	170.2	-23.1	26	151
							18931	.893	105.9	167.1	-10.8	73	386

- Group 18921. Sept. 20 - 22. One or two small spots.
- Group 18922. Sept.20-Oct.2. A regular spot, with distant companions on September 27 and 28.
- Group 18923. Sept.20-Oct.2. A regular spot, with a number of variable companions until September 26.
- Group 18924. Sept. 22 - 23. One or two small spots.
- Group 18925. Sept.22-Oct.4. A pair of regular spots, with one or two companions.
- Group 18926. Sept. 23 - 30. A stream, of which the follower is the sole survivor from September 29.
- Group 18927. Sept. 23 - 27. One or two small spots.
- Group 18928. Sept. 23 - 24. A tiny spot.
- Group 18929. Sept.23-Oct.5. A stream, led by a regular spot which alone remains on October 1.
- Group 18930. Sept. 23 - 29. A stream of small spots.
- Group 18931. Sept.23-Oct.5. A stream, the leader of which becomes a regular spot and coalesces with the remainder of the group to form a composite structure.
- Group 18932. Sept.24-Oct.1. A stream of variable spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o		o		1958	o		o		o	
Sept. 26. 450	(+25.6)		(212.8)		(+ 6.9)		Sept. 28. 320	continued					
18914	.984	292.8	294.3	+23.6	45	392	18932	.551	150.4	171.1	-22.0	23	71
1405f	.602	286.4	249.4	+15.3	2	12	18931	.488	126.2	164.6	-10.5	91	510
18926	.586	315.1	241.4	+30.5	70	379	18933	.532	83.4	155.9	+ 9.2	26	170
18927	.452	227.3	232.5	-11.3	4	18	18937	.691	55.2	148.1	+28.4	64	372
18922	.248	170.2	210.4	- 7.2	31	120	18934	.781	114.6	141.1	-14.4	7	75
18923	.239	149.4	205.8	- 4.9	71	413							
18925	.564	137.2	189.1	-18.1	126	662							
a	.551	139.5	190.8	-18.3	75	392	Sept. 29. 594	(+25.9)		(171.3)		(+ 6.8)	
b	.591	132.9	185.9	-17.5	51	270	18926	.909	304.3	235.8	+33.9	24	102
18929	.581	67.8	178.4	+18.4	42	235	18935	.822	281.9	227.0	+13.7	10	32
18930	.681	106.0	171.8	- 5.6	7	36	18922	.655	250.7	209.7	- 7.1	20	96
18932	.764	127.0	171.8	-22.1	14	87	18923	.592	250.3	205.2	- 5.8	60	295
18931	.779	110.2	164.9	-11.0	68	537	1405g	.348	290.8	190.8	+13.5	0	3
18933	.861	83.1	153.0	+ 9.4	9	44	18925	.505	212.5	187.9	-18.6	121	503
18934	.965	107.7	141.1	-15.0	0	8	a	.524	215.0	189.7	-18.8	83	324
							b	.477	208.3	185.0	-18.1	38	179
							18936	.360	213.3	182.9	-10.7	16	66
Sept. 27. 324	(+25.7)		(201.2)		(+ 6.9)		18929	.251	322.1	180.6	+18.1	37	162
18926	.695	308.1	240.5	+30.7	50	267	18932	.494	181.9	172.3	-22.6	36	127
18927	.617	241.5	234.6	-11.3	1	4	18930	.219	175.9	170.4	- 5.7	3	12
18935	.442	287.3	226.8	+13.8	2	21	18931	.316	161.3	165.4	-10.6	108	447
18922	.288	212.9	210.2	- 7.1	19	108	18933	.244	82.2	157.2	+ 8.5	47	195
18923	.223	200.1	205.6	- 5.2	72	304	18937	.516	38.9	149.4	+29.9	75	303
18925	.471	153.4	188.4	-18.1	124	587	18934	.619	125.3	139.9	-15.1	6	26
a	.463	157.1	190.3	-18.4	80	334	18938	.872	110.2	114.1	-13.9	0	14
b	.497	148.4	185.3	-18.3	44	253	18939	.963	100.5	98.4	- 8.2	5	20
18936	.437	132.3	182.1	-10.5	3	14							
18929	.418	60.2	178.8	+18.3	47	211	Sept. 30. 484	(+26.0)		(159.5)		(+ 6.7)	
18932	.648	136.9	172.8	-22.1	24	83	18926	.970	302.0	236.8	+32.6	0	8
18930	.531	113.1	171.9	- 6.0	6	33	18935	.931	281.4	228.7	+13.0	3	20
18931	.647	115.7	165.0	-10.7	102	569	18922	.789	255.4	209.6	- 7.2	15	94
18933	.715	84.3	155.3	+ 8.9	45	183	18923	.737	255.6	205.2	- 5.9	48	332
18937	.818	60.1	147.8	+28.2	23	137	18925	.605	227.4	187.3	-18.2	100	589
18934	.890	109.6	141.6	-13.9	24	98	a	.632	229.2	189.7	-18.5	60	318
							b	.576	225.1	184.8	-17.8	40	271
Sept. 28. 320	(+25.8)		(188.1)		(+ 6.8)		1405h	.480	306.8	184.0	+22.7	1	10
18926	.802	305.0	238.5	+31.8	30	233	18936	.498	235.0	183.9	-10.5	8	34
18935	.636	283.3	227.5	+13.7	7	54	18929	.392	301.6	180.0	+18.1	32	179
18922	.446	237.8	210.4	- 7.4	21	121	18932	.526	200.6	171.0	-22.8	12	103
18923	.363	235.0	205.4	- 5.5	63	334	18931	.312	200.5	165.8	-10.3	92	436
18925	.428	180.6	188.4	-18.4	103	563	18933	.041	58.4	157.5	+ 7.9	36	212
a	.433	184.0	189.9	-18.7	65	341	18937	.418	22.4	149.0	+29.2	63	418
b	.422	174.2	185.5	-17.9	38	222	18938	.754	115.0	115.0	-13.8	5	21
18936	.308	163.8	183.1	-10.3	25	91	18939	.913	102.1	95.3	- 8.2	14	85
18929	.225	31.2	181.1	+17.8	36	149	18940	.945	109.2	91.8	-15.6	3	20
18930	.353	127.4	171.8	- 5.8	5	20	18941	.951	73.0	86.5	+18.2	29	104
						continued	18942	.979	69.6	79.7	+21.3	0	31

- Group 18933. Sept.26-Oct.5. A stream, of which the leader is a composite spot and the sole survivor on October 4.
- Group 18934. Sept. 26 - 29. A few small spots.
- Group 18935. Sept. 27 - 30. A few small spots.
- Group 18936. Sept.27-Oct.3. A small stream, of which the leader alone remains from September 30.
- Group 18937. Sept.27-Oct.7. A stream, led by a composite spot, which becomes regular in outline by October 3. The follower dies out by October 4.
- Group 18938. Sept.29-Oct.8. One or two unstable spots, developing into a small stream on October 5.
- Group 18939. Sept.29-Oct.7. A stream of small changing spots.
- Group 18940. Sept.30-Oct.4. A stream of small spots.
- Group 18941. Sept.30-Oct.4. A small spot.
- Group 18942. Sept.30-Oct.1. A small spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots
1958	°		°	°			1958	°		°	°		
Oct. 1. 321	(+26.0)		(148.5)	(+ 6.7)			Oct. 3. 438	continued					
18922	.889	257.9	209.5	- 7.5	12	94	18936	.911	254.4	183.7	-11.2	2	13
18923	.850	258.6	205.2	- 6.0	70	328	18929	.871	287.0	181.4	+18.0	38	221
18925	.719	236.2	187.4	-18.4	113	550	18944	.745	266.4	168.4	+ 1.8	43	365
a	.740	237.2	189.3	-18.5	70	320	18931	.756	250.0	166.6	-10.4	98	490
b	.690	234.4	184.6	-18.2	43	230	18933	.606	273.2	157.9	+ 7.2	20	125
18936	.635	244.2	183.9	-10.5	3	12	18945	.647	242.4	156.3	-12.1	4	23
18943	.554	269.5	182.1	+ 5.2	1	4	18937	.574	314.1	148.6	+29.3	75	390
18929	.562	292.4	181.5	+18.0	35	180	18938	.350	172.7	117.9	-13.6	4	8
1405i	.493	244.4	175.0	- 6.3	1	11	18946	.298	71.5	103.8	+11.8	11	58
1405j	.548	314.8	174.7	+28.7	0	5	18947	.341	121.4	103.6	- 3.9	2	17
18932	.603	216.4	171.2	-22.8	5	54	18948	.481	138.7	101.4	-14.9	1	9
18944	.317	258.6	166.5	+ 2.8	12	77	18939	.485	120.2	95.6	- 8.0	10	95
18931	.415	225.8	166.0	-10.4	76	506	18940	.608	125.2	89.7	-14.8	10	31
18933	.154	278.0	157.3	+ 7.8	37	167	18941	.556	66.8	88.1	+18.2	4	10
18937	.382	359.2	148.9	+29.1	73	396	18949	.985	73.6	39.2	+17.2	0	31
18938	.624	121.9	115.6	-13.6	1	12	18950	.993	68.4	35.5	+22.1	0	102
18939	.821	104.6	95.4	- 7.9	14	72							
18940	.883	111.8	90.3	-15.7	40	209	Oct. 4. 355	(+26.2)		(108.4)	(+ 6.5)		
18941	.881	72.8	86.3	+18.3	14	97	18925	.989	250.4	187.0	-18.2	52	446
18942	.927	69.8	79.9	+21.2	3	21	18929	.947	286.8	180.6	+18.0	25	206
							18944	.869	267.9	168.5	+ 1.4	61	419
Oct. 2. 522	(+26.1)		(132.6)	(+ 6.6)			18931	.869	253.8	166.3	-10.6	85	529
18922	.978	260.7	209.2	- 7.6	9	94	18933	.774	273.0	159.2	+ 6.4	14	69
18923	.961	261.7	205.4	- 6.1	64	327	18937	.694	305.8	148.3	+28.9	54	364
18925	.862	244.4	187.2	-18.1	86	506	18938	.369	192.6	113.1	-14.5	2	10
a	.875	244.9	188.9	-18.2	56	319	18946	.105	35.8	104.8	+11.4	28	148
b	.838	243.7	184.5	-17.8	30	187	18947	.226	150.0	101.9	- 4.8	6	39
18936	.809	251.5	183.8	-10.7	2	9	18948	.394	163.3	101.7	-15.6	1	11
18943	.771	271.7	183.2	+ 5.6	0	3	18939	.344	140.0	95.5	- 8.9	14	74
18929	.756	288.2	181.4	+18.1	25	175	18940	.478	140.2	90.0	-15.2	4	20
18944	.564	265.4	166.7	+ 2.9	28	180	18941	.376	57.4	89.1	+17.8	2	9
18931	.613	243.0	166.2	-10.6	71	516	18949	.917	75.0	41.3	+16.3	2	16
18933	.424	273.3	157.8	+ 7.4	24	210	18950	.950	69.4	35.6	+21.6	37	213
18945	.483	230.0	154.7	-11.9	4	22	18951	.992	77.6	24.5	+13.1	34	187
18937	.450	228.4	148.1	+28.8	76	456							
1405k	.508	148.1	116.2	-19.1	1	9	Oct. 5. 376	(+26.3)		(95.0)	(+ 6.5)		
18938	.477	138.1	113.5	-14.5	0	4	18929	.994	287.5	180.2	+18.1	18	158
18946	.474	78.1	104.5	+11.4	2	19	18944	.969	270.9	170.6	+ 2.5	22	271
18939	.598	113.1	99.0	- 7.8	7	66	18931	.963	257.2	167.5	-10.4	70	518
18940	.734	117.9	90.5	-15.2	11	75	18933	.906	273.7	160.2	+ 6.1	0	8
18941	.721	71.3	86.9	+18.0	5	27	18952	.832	250.8	148.2	-12.0	4	16
							18937	.817	301.3	147.9	+29.1	77	334
Oct. 3. 438	(+26.2)		(120.5)	(+ 6.6)			18938	.455	216.9	111.4	-15.0	5	36
18925	.942	248.0	187.1	-18.1	75	415	18946	.208	295.3	106.0	+11.5	29	162
a	.950	248.2	188.6	-18.3	49	267	18947	.258	218.5	104.2	- 5.2	7	43
b	.927	248.0	184.6	-17.5	26	148	18948	.372	201.6	103.1	-13.7	1	12
						continued							continued

- Group 18943. Oct. 1 - 2. A tiny spot.
- Group 18944. Oct. 1 - 5. A stream, of which the leading components coalesce to form a composite spot which alone survives on October 5.
- Group 18945. Oct. 2 - 3. A pair of tiny spots.
- Group 18946. Oct. 2 - 8. A short stream.
- Group 18947. Oct. 3 - 9. A short stream, of which the leader, a regular spot, is the sole survivor from October 7.
- Group 18948. Oct. 3 - 5. A few faint spots.
- Group 18949. Oct. 3 - 14. A cluster of variable spots, which assume stream formation by October 11.
- Group 18950. Oct. 3 - 10. A stream, of which the follower alone remains after October 5.
- Group 18951. Oct. 4 - 15. A regular spot, with some following companions between October 6 and 10. It begins to break up and die out after October 13.
- Group 18952. Oct. 5 - 6. A small spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°	°	°				1958	°	°	°			
Oct. 5.376 <i>continued</i>							Oct. 9.504 <i>continued</i>						
18953	.053	315.0	97.2	+ 8.6	4	20	18953	.839	277.4	97.8	+ 9.6	20	134
18939	.282	175.5	93.7	- 9.7	4	28	18954	.489	222.4	60.4	-15.3	7	43
18949	.817	74.0	40.1	+16.8	3	25	18949	.182	1.4	40.2	+16.6	31	164
18950	.864	69.0	35.2	+21.3	36	209	18950	.289	26.3	32.6	+21.0	5	35
18951	.936	78.5	25.0	+13.0	38	237	18951	.287	63.2	25.3	+13.4	53	309
							18955	.724	87.4	354.0	+ 6.2	6	30
							18956	.914	71.2	334.0	+19.6	0	9
Oct. 6.370	(+26.3)	(81.9)	(+ 6.4)				Oct. 10.300	(+26.4)	(30.0)	(+ 6.2)			
18952	.936	254.3	148.9	-12.2	6	28	18953	.925	278.0	98.1	+ 9.7	10	57
18937	.911	298.8	147.3	+28.8	63	384	18954	.599	234.7	60.3	-14.8	9	55
18938	.614	235.3	113.3	-15.0	14	98	18949	.260	319.5	40.1	+17.5	24	192
18946	.436	283.3	107.4	+11.5	11	85	18950	.264	349.6	32.9	+21.2	0	3
18947	.448	244.0	105.7	- 5.4	15	81	18951	.156	33.9	24.9	+13.6	41	250
18953	.279	277.7	98.1	+ 8.3	6	46	18955	.585	88.1	354.1	+ 6.1	7	50
14051	.576	202.4	96.0	-25.9	1	12	18956	.818	70.6	335.4	+19.3	2	16
18939	.362	216.5	94.5	-10.6	0	10	18957	.990	106.0	310.4	-14.8	12	141
18949	.666	70.2	40.9	+17.8	1	18							
18950	.758	66.5	33.6	+21.8	25	100							
18951	.837	78.3	24.8	+13.2	49	309							
							Oct. 11.389	(+26.4)	(15.6)	(+ 6.1)			
Oct. 7.361	(+26.3)	(68.8)	(+ 6.4)				18954	.749	244.0	59.5	-14.7	7	40
18937	.968	298.0	145.3	+28.6	92	423	18949	.458	293.8	41.4	+16.1	19	152
18938	.753	243.1	112.8	-15.3	15	107	18951	.225	304.8	26.5	+13.4	34	215
18947	.649	253.1	107.3	- 5.9	20	94	18955	.361	87.9	354.4	+ 6.4	2	17
18946	.621	281.1	107.2	+11.9	7	46	18958	.654	114.1	338.4	-10.6	6	29
18953	.476	276.5	97.2	+ 8.7	16	89	18956	.655	67.4	335.9	+19.3	1	5
18939	.489	236.9	93.2	- 9.6	2	10	18957	.934	108.1	309.3	-14.5	69	363
1405m	.514	221.7	89.6	-16.5	1	4	18959	.977	120.0	303.2	-27.5	133	808
18949	.512	66.5	39.5	+17.3	22	107	a	.970	120.0	305.1	-27.1	99	529
18950	.609	61.5	33.7	+22.1	10	63	18960	.965	66.0	299.8	+24.7	71	477
18951	.698	77.4	24.6	+13.4	54	304	18961	.984	109.5	298.8	-17.9	49	393
Oct. 8.460	(+26.3)	(54.3)	(+ 6.3)				Oct. 12.380	(+26.3)	(2.6)	(+ 6.1)			
18938	.892	249.5	114.0	-15.1	15	68	18954	.867	249.1	59.3	-14.7	4	18
18947	.822	258.0	108.1	- 6.1	11	70	18949	.610	288.3	39.5	+15.9	19	190
18946	.800	380.3	107.7	+12.0	2	16	18951	.419	288.4	26.6	+13.2	24	154
18953	.680	276.7	97.3	+ 9.2	12	85	18955	.173	93.7	352.7	+ 5.4	2	26
1405n	.702	241.4	93.8	-14.8	1	5	1405o	.365	149.8	351.8	-12.3	2	11
18949	.303	52.7	39.8	+16.7	27	155	18962	.338	36.2	350.2	+21.7	5	30
18950	.438	50.6	33.0	+22.0	9	51	18958	.492	124.3	338.3	-10.5	5	38
18951	.502	74.3	24.7	+13.2	53	308	18957	.836	112.1	309.6	-14.7	62	276
							18959	.929	123.7	301.5	-28.2	161	1031
Oct. 9.504	(+26.4)	(40.5)	(+ 6.2)				a	.909	123.9	304.7	-27.3	98	563
18947	.935	260.8	108.5	- 6.3	10	50	18960	.892	65.4	299.7	+24.6	68	354
						<i>continued</i>	18961	.925	112.5	298.8	-18.1	43	298
							1405p	.977	119.6	290.2	-27.1	5	25

- Group 18953. Oct. 5 - 10. A group of small, variable spots.
- Group 18954. Oct. 9 - 12. A few small spots.
- Group 18955. Oct. 9 - 12. A stream of small spots.
- Group 18956. Oct. 9 - 11. A small spot.
- Group 18957. Oct. 10 - 21. A variable cluster.
- Group 18958. Oct. 11 - 17. A stream of small spots, of which only the leader remains on October 17.
- Group 18959. Oct. 11 - 23. A stream, lead by a regular spot. The following components are dying out as the group crosses the disk; they are not seen on October 19, 22 and 23.
- Group 18960. Oct. 11 - 23. At first a close pair of regular spots, of which the leader begins to break up after October 13. The follower alone remains after October 21.
- Group 18961. Oct. 11 - 23. A regular spot, with some unstable companions which disappear by October 18.
- Group 18962. Oct. 12 - 16. One or two small variable spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	o		o	o			1958	o		o	o		
Oct.13. 303		(+26.3)	(350.4)	(+ 6.0)			Oct.16. 368	<i>continued</i>					
18949	.763	284.7	40.0	+15.1	20	185	18957	.342	178.8	309.6	-14.1	25	216
18951	.591	283.9	26.3	+13.0	21	126	1406a	.346	155.0	301.4	-12.5	1	5
18962	.274	0.3	350.3	+21.8	5	27	18961	.452	158.0	299.7	-19.0	28	170
18958	.319	149.3	340.9	-10.0	6	70	18959	.587	162.4	298.4	-28.2	99	583
18957	.711	116.9	309.7	-14.2	44	207	a	.576	166.2	301.1	-28.1	82	413
18959	.862	127.9	300.1	-28.2	165	1104	18960	.392	30.1	297.5	+25.4	46	280
a	.833	128.9	303.6	-27.5	120	567	18963	.318	64.0	293.0	+13.5	4	14
18960	.794	63.1	299.3	+24.8	81	386	18967	.394	111.7	288.6	- 2.9	1	9
18961	.832	117.0	299.2	-18.5	42	324	18969	.497	57.4	283.5	+20.7	28	124
18963	.843	78.8	292.7	+12.7	4	14	18964	.816	98.2	256.2	- 3.2	206	1308
							18970	.975	100.2	234.2	- 8.6	20	93
Oct.14. 363		(+26.3)	(336.4)	(+ 5.9)			Oct.17. 378		(+26.2)	(296.6)	(+ 5.7)		
18949	.898	283.5	40.7	+14.7	2	23	18965	.891	251.8	356.8	-13.4	73	379
18951	.769	282.5	26.7	+13.4	11	64	18968	.849	306.6	351.4	+33.7	10	50
18962	.335	334.7	345.3	+23.4	1	7	1406b	.755	295.4	344.1	+22.7	7	37
18958	.289	199.5	342.0	- 9.9	23	77	18958	.760	251.9	343.6	- 9.7	3	18
18957	.553	126.9	309.4	-14.1	34	188	1406c	.637	285.4	335.7	+14.2	1	6
18959	.754	136.0	300.1	-28.0	150	906	18966	.537	244.6	325.8	- 8.3	25	163
a	.731	137.1	302.4	-27.5	101	529	18957	.408	210.8	309.0	-14.8	26	246
18961	.694	124.9	299.6	-18.7	49	246	1406d	.298	321.2	307.9	+19.0	0	4
18960	.653	57.9	299.0	+25.0	68	365	18961	.421	186.0	299.3	-19.0	17	150
18963	.704	76.7	291.8	+13.5	14	42	18959	.565	182.6	298.3	-28.6	99	549
18964	.988	94.3	255.9	- 3.3	76	539	a	.568	185.6	300.2	-28.6	84	455
							18960	.341	359.2	296.9	+25.5	30	226
Oct.15. 374		(+26.3)	(323.1)	(+ 5.8)			18963	.151	25.9	292.7	+13.5	0	5
18951	.895	281.7	26.9	+13.0	4	20	18967	.193	147.0	290.6	- 3.6	9	64
18965	.593	238.5	354.2	-13.0	0	10	18969	.336	42.4	282.7	+19.9	81	526
18958	.420	229.8	342.0	-10.2	11	75	18964	.654	102.2	256.9	- 3.6	207	1366
18962	.459	320.4	342.0	+26.1	2	16	18970	.927	102.4	230.3	- 9.2	134	791
18966	.235	184.0	324.0	- 7.7	7	29							
18957	.408	145.6	309.4	-14.0	30	225							
18961	.559	136.9	299.4	-18.7	41	189	Oct.18. 402		(+26.1)	(283.1)	(+ 5.6)		
18959	.659	146.9	299.1	-28.1	113	739	18965	.966	254.3	356.0	-13.5	27	370
a	.639	149.1	301.4	-27.8	71	445	18966	.709	252.3	326.0	- 8.3	25	272
18960	.507	48.2	298.6	+25.0	47	306	18957	.543	230.7	308.8	-15.0	44	357
18963	.518	73.9	292.5	+13.2	5	16	18971	.613	213.1	304.8	-25.6	11	39
18967	.570	104.1	289.6	- 3.2	14	51	18959	.618	203.4	299.3	-29.0	100	389
18964	.925	95.7	256.2	- 3.0	92	1093	a	.620	204.1	299.9	-28.9	99	366
							18961	.491	212.1	299.1	-19.1	19	104
Oct.16. 368		(+26.2)	(310.0)	(+ 5.8)			18960	.400	329.3	296.1	+25.5	31	169
18965	.748	247.4	354.9	-12.6	55	208	18967	.196	218.5	290.1	- 3.2	2	15
18968	.734	312.0	350.9	+33.8	8	18	18963	.185	323.7	289.6	+14.1	0	10
18958	.592	243.8	342.5	-10.2	9	43	18969	.248	359.8	283.2	+19.9	57	784
18962	.583	308.4	340.5	+26.2	5	13	1406e	.093	41.6	279.5	+ 9.6	0	4
18966	.370	229.4	326.4	- 8.3	25	108	18964	.467	109.7	257.1	- 4.0	142	1198
							18970	.814	105.7	230.7	- 9.3	150	880
						<i>continued</i>	18972	.977	98.5	206.5	- 7.1	16	101

- Group 18963. Oct. 13 - 21. Intermittent. A few small spots.
- Group 18964. Oct. 14 - 26. A large composite structure which slowly disintegrates as it crosses the disk, leaving a regular spot as the sole survivor on October 25.
- Group 18965. Oct. 15 - 18. A pair of rapidly growing spots.
- Group 18966. Oct. 15 - 21. A small stream, of which the follower alone remains by October 20.
- Group 18967. Oct. 15 - 23. Intermittent. A group of small variable spots.
- Group 18968. Oct. 16 - 17. One or two small spots.
- Group 18969. Oct. 16 - 24. A compact stream, the leader of which becomes regular in outline by October 22, while the follower breaks up.
- Group 18970. Oct. 16 - 28. A stream, of which the follower is a large regular spot. The rest of the group slowly breaks up as it crosses the disk.
- Group 18971. Oct. 18 - 21. A few small spots.
- Group 18972. Oct. 18 - 29. A small regular spot, with distant following companions on October 23 and 24.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°		°	°			1958	°		°	°		
Oct. 19. 304	(+26.1)		(271.2)	(+5.5)			Oct. 21. 482	continued					
18966	.825	255.0	324.8	-9.1	47	243	1406f	.218	280.1	254.9	+7.4	1	8
18957	.675	239.8	308.3	-15.4	46	281	18970	.331	139.4	229.9	-9.3	178	1145
18971	.729	225.8	306.6	-26.0	8	44	18973	.398	147.1	229.7	-14.2	26	146
18959	.703	216.1	299.6	-29.7	59	379	18978	.358	68.5	222.6	+12.5	1	4
a	.703	216.1	299.6	-29.7	59	379	18972	.621	108.9	206.3	-7.3	20	82
18961	.596	227.0	298.5	-19.0	15	89	18974	.802	71.1	189.7	+18.2	6	76
18960	.508	312.5	295.5	+25.0	26	177	18975	.896	115.3	183.3	-19.8	35	188
18967	.387	246.1	291.9	-3.8	2	18	1406g	.932	89.3	173.9	+2.6	5	12
18969	.315	321.6	283.1	+19.6	112	741	18976	.944	99.9	173.0	-7.5	6	10
18964	.297	123.9	257.0	-4.1	134	1253							
18970	.679	109.3	231.0	-8.7	127	1026							
18973	.695	114.3	230.9	-12.4	16	96	Oct. 22. 302	(+25.9)		(231.7)	(+5.3)		
18972	.920	100.1	205.6	-7.0	16	87	18959	.957	235.8	298.2	-30.5	54	204
18974	.985	73.1	190.1	+17.6	0	25	a	.957	235.8	298.2	-30.5	54	204
							18961	.935	247.7	297.4	-18.7	29	120
Oct. 20. 602	(+26.0)		(254.1)	(+5.4)			18967	.901	262.8	295.1	-4.1	5	17
18966	.970	258.2	328.5	-10.0	14	129	18960	.890	295.1	293.9	+24.6	14	80
18957	.847	248.4	308.5	-15.1	14	126	18969	.798	291.3	283.9	+20.1	99	606
18971	.856	234.7	305.1	-26.2	9	23	18977	.755	252.8	278.5	-9.3	13	88
18961	.763	239.5	297.9	-18.8	15	92	18964	.466	250.7	257.7	-4.1	86	730
18959	.806	226.2	296.1	-29.9	71	387	18970	.256	172.4	229.7	-9.4	170	1036
a	.823	227.2	298.2	-30.1	70	373	18973	.342	173.4	229.4	-14.5	26	152
18960	.700	300.6	295.6	+24.9	15	83	18978	.249	48.3	220.7	+14.7	1	12
18969	.533	300.0	283.4	+20.1	110	760	18972	.470	115.7	206.6	-6.9	17	75
18964	.170	196.6	256.9	-3.9	128	967	18974	.679	68.1	190.2	+18.6	7	46
18970	.463	121.7	230.7	-9.1	152	1137	18975	.811	118.9	183.0	-19.6	33	187
18973	.508	129.4	230.4	-13.8	24	154							
18972	.762	104.2	206.2	-7.2	14	70	Oct. 23. 497	(+25.8)		(215.9)	(+5.2)		
18974	.897	72.2	190.3	+18.3	12	57	18959	.997	239.1	297.5	-30.2	0	24
18975	.960	112.2	183.7	-19.5	23	174	a	.997	239.1	297.5	-30.2	0	24
18976	.987	98.4	174.5	-7.3	0	12	18961	.993	250.6	296.6	-18.5	8	45
							18960	.974	294.1	293.7	+24.6	4	43
Oct. 21. 482	(+25.9)		(242.5)	(+5.3)			18967	.972	264.2	291.6	-4.4	0	19
18966	.992	259.9	324.0	-9.3	0	34	18969	.924	289.5	283.5	+19.9	54	422
18957	.934	250.9	308.7	-15.7	6	37	18977	.921	257.2	281.3	-9.6	5	34
18971	.931	239.7	305.4	-25.7	5	27	18964	.680	258.6	257.6	-3.8	100	722
18961	.864	244.6	297.8	-18.7	18	92	18970	.360	223.8	230.5	-10.0	217	1088
18959	.894	231.7	296.8	-30.5	51	237	18973	.404	212.4	228.8	-14.8	22	150
a	.906	232.5	299.0	-30.6	49	225	18978	.203	326.4	222.5	+14.9	4	37
18960	.802	297.3	294.1	+24.8	15	68	18979	.117	214.9	219.7	-0.3	8	25
18963	.769	283.3	292.7	+13.6	2	5	18972	.283	139.6	205.3	-7.2	16	86
18969	.683	294.4	283.9	+20.4	119	673	18974	.472	60.4	190.4	+18.1	6	53
18977	.624	248.1	278.3	-9.1	14	28	18975	.661	128.2	182.5	-19.8	34	164
18964	.300	238.6	257.3	-3.8	109	872	18980	.890	130.5	163.0	-32.1	12	55
						continued	18981	.977	107.3	140.5	-15.6	30	177
							18982	.967	61.2	140.3	+29.1	17	116

- Group 18973. Oct. 19 - 28. A regular spot, immediately south of Group 18970, which begins to break up after October 23.
- Group 18974. Oct. 19 - 26. A group of small variable spots.
- Group 18975. Oct. 20 - 31. A slowly-diminishing regular spot.
- Group 18976. Oct. 20 - 21. A tiny spot.
- Group 18977. Oct. 21 - 23. A pair of small spots.
- Group 18978. Oct. 21 - 27. A cluster of variable spots.
- Group 18979. Oct. 23 - 25. A pair of equatorial spots.
- Group 18980. Oct. 23 - 26. A pair of spots, in high southern latitude, until October 26, when there are a few tiny spots.
- Group 18981. Oct. 23-Nov. 1. A regular spot, soon breaking up and forming a small variable group.
- Group 18982. Oct. 23 - 29. One or two small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Oct.24.362		(+25.7)	(204.5)	(+5.1)			Oct.26.312	continued					
18969	.985	289.2	285.5	+19.8	15	171	18981	.683	119.6	140.8	-15.8	24	106
1406h	.934	295.1	273.4	+25.2	0	15	18982	.715	51.2	138.8	+30.3	7	21
18964	.819	261.3	258.5	-4.1	81	439	18984	.855	110.4	123.1	-14.5	16	80
18970	.494	239.1	229.9	-10.1	123	903							
18973	.524	232.1	229.6	-14.1	29	140	Oct.27.324		(+25.3)	(165.5)	(+4.8)		
18978	.349	298.6	222.9	+14.4	6	54	18973	.925	253.7	231.0	-13.1	20	135
18979	.309	251.3	221.4	-0.7	12	21	18970	.916	257.2	230.3	-9.7	142	848
18972	.215	183.9	205.3	-7.2	11	61	18978	.840	285.3	222.5	+15.4	2	12
18974	.311	47.6	190.7	+17.0	2	13	18972	.680	255.1	206.7	-6.4	9	58
18983	.351	84.1	184.0	+6.8	10	27	18983	.302	278.1	182.9	+7.0	11	139
18975	.547	139.1	182.2	-19.6	24	138	18975	.478	211.2	180.7	-19.4	26	158
18980	.822	135.7	161.9	-32.2	7	25	18981	.527	130.7	141.1	-15.7	14	67
18981	.919	109.6	140.7	-15.7	25	173	18982	.582	42.0	138.9	+29.8	4	28
18982	.914	59.4	139.5	+29.9	22	98	18984	.730	113.5	122.2	-13.4	67	390
18984	.987	105.3	125.7	-14.1	0	55	18986	.898	51.2	105.0	+36.6	0	7
							18987	.972	102.9	90.7	-11.3	36	259
Oct.25.347		(+25.6)	(191.5)	(+5.0)			Oct.28.456		(+25.2)	(150.5)	(+4.7)		
18964	.928	263.0	258.8	-4.5	51	332	18973	.989	254.6	230.3	-14.5	7	66
18973	.686	242.1	230.2	-14.8	17	111	18970	.977	258.8	226.8	-9.8	61	531
18970	.652	248.9	229.4	-9.6	151	930	18972	.843	259.4	206.7	-6.3	12	32
18978	.532	290.2	222.5	+14.8	17	117	18988	.639	275.8	190.2	+7.3	35	201
18979	.502	260.0	221.0	-0.6	4	16	18975	.616	229.1	180.0	-19.6	15	58
18972	.326	232.5	206.5	-6.6	11	40	18989	.477	250.0	177.1	-5.2	9	63
18974	.219	9.9	189.2	+17.4	7	48	18990	.350	173.6	148.2	-15.5	2	11
18983	.130	76.3	184.2	+6.7	16	64	18981	.397	154.0	140.1	-16.2	14	68
18975	.447	158.7	181.6	-19.6	29	165	18982	.477	25.4	136.9	+30.0	4	18
1406i	.388	35.2	177.5	+23.2	2	21	18984	.560	123.0	121.7	-13.6	108	715
18985	.408	117.1	170.2	-6.0	6	58	18986	.811	46.6	103.1	+37.0	5	40
18980	.746	144.5	160.5	-33.0	4	25	18987	.882	105.4	90.6	-11.2	27	158
18981	.815	113.3	140.7	-15.6	28	162	18991	.945	130.8	88.5	-36.0	6	23
18982	.823	56.4	139.3	+30.1	13	64	18992	.914	75.2	84.3	+15.4	5	24
18984	.945	107.3	122.9	-14.5	11	83	18993	.973	47.2	74.9	+42.6	32	141
							18994	.974	82.6	73.3	+8.3	152	779
Oct.26.312		(+25.4)	(178.8)	(+4.9)			18995	.988	104.8	71.3	-13.8	0	22
18964	.988	264.5	259.2	-4.6	47	261	18996	.990	97.8	69.6	-7.0	0	14
18973	.827	249.0	231.4	-14.3	37	95							
18970	.798	253.6	229.6	-9.9	131	704	Oct.29.359		(+25.0)	(138.6)	(+4.6)		
18978	.704	285.6	223.0	+14.4	14	53	18972	.934	261.6	206.7	-6.1	6	28
18972	.501	247.8	206.5	-6.5	7	34	18988	.789	275.9	190.7	+7.5	51	356
18974	.280	320.2	189.6	+17.2	4	59	18975	.736	237.9	179.8	-19.5	7	24
18983	.078	295.0	182.9	+6.8	20	90	18989	.644	257.0	177.5	-4.7	43	195
18975	.421	185.0	181.1	-19.8	16	118	18981	.363	183.9	140.1	-16.5	9	33
18985	.240	143.8	170.6	-6.3	4	30							
18980	.624	159.0	163.8	-30.7	5	15							

continued

continued

- Group 18983. Oct. 24 - 27. A short-lived stream.
- Group 18984. Oct.24-Nov.5. A small spot, which develops into a long broken stream.
- Group 18985. Oct. 25 - 26. Two faint spots.
- Group 18986. Oct.27-Nov.6. A short stream of variable spots in high northern latitude.
- Group 18987. Oct.27-Nov.7. A regular spot. Other spots appear in the rear to form a stream from October 31 to November 4.
- Group 18988. Oct. 28 - 31. A cluster.
- Group 18989. Oct.28-Nov.1. A short stream.
- Group 18990. Oct. 28 - 30. A tiny spot, not seen on October 29.
- Group 18991. Oct. 28 - 29. A small spot.
- Group 18992. Oct. 28 - 31. One or two tiny spots.
- Group 18993. Oct.28-Nov.1. A small regular spot, in high northern latitude.
- Group 18994. Oct.28-Nov.9. A stream, of which the only stable component is a central regular spot. This is breaking up as it approaches the west limb.
- Group 18995. Oct.28-Nov.9. A small spot on October 29 and 30, developing rapidly into a large bi-polar group.
- Group 18996. Oct.28-Nov.4. A few variable spots, not seen on October 30.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Oct. 29. 359	<i>continued</i>						Nov. 1. 383	(+24.6) (98.8) (+4.3)					
18982	.436	6.8	135.2	+30.1	1	12	18989	.980	264.8	176.5	-3.6	5	81
18997	.434	159.3	129.3	-19.3	5	20	18981	.712	243.7	140.0	-15.1	1	13
18984	.419	136.8	121.5	-13.3	93	682	18984	.497	232.6	122.7	-13.6	57	413
18986	.729	39.8	102.6	+37.7	4	30	19001	.183	311.6	106.8	+11.2	8	29
18987	.772	108.6	90.6	-11.2	24	180	18986	.540	359.4	99.2	+36.8	29	199
18991	.883	135.0	88.6	-35.6	4	12	19002	.186	51.6	90.3	+10.9	6	21
18992	.816	74.7	84.2	+15.1	6	17	18987	.336	137.0	85.4	-10.0	49	329
18993	.929	45.6	74.4	+42.6	32	121	18995	.536	129.4	73.4	-16.0	94	606
18994	.916	83.0	72.1	+8.2	122	854	18994	.432	82.5	73.3	+7.1	116	798
18996	.927	98.1	71.6	-5.7	0	9	18996	.508	110.4	70.3	-6.4	1	19
18995	.937	107.3	71.4	-14.4	6	16	18993	.725	31.1	68.7	+42.0	3	30
18998	.982	107.3	61.6	-16.0	5	23	19000	.564	59.6	67.7	+20.2	1	11
							18998	.683	118.8	60.5	-15.8	5	22
							18999	.756	73.4	50.3	+15.3	32	174
Oct. 30. 303	(+24.9) (126.2) (+4.5)						Nov. 2. 315	(+24.4) (86.5) (+4.2)					
18988	.907	276.6	191.4	+7.9	43	375	18984	.663	244.4	124.3	-13.3	54	444
18975	.848	242.9	179.4	-20.0	4	22	19003	.529	284.1	117.9	+11.0	17	81
18989	.795	260.1	177.8	-5.0	16	173	19001	.372	289.5	107.3	+11.0	8	50
18990	.484	231.2	148.9	-13.4	1	9	18986	.568	342.8	98.6	+36.8	40	291
18981	.434	214.9	141.1	-16.4	2	7	19002	.129	338.2	89.3	+11.1	1	6
18997	.414	188.1	129.7	-19.6	1	8	18987	.249	176.4	85.6	-10.1	51	244
18984	.327	164.7	121.1	-13.8	66	530	19004	.573	13.8	76.6	+37.8	1	7
18986	.661	31.9	99.9	+38.1	16	93	18994	.237	76.2	73.1	+7.3	90	602
18987	.633	113.8	90.2	-11.1	26	139	18995	.414	147.0	73.0	-16.1	219	989
18992	.684	73.1	83.8	+14.8	3	9	a	.399	152.2	75.4	-16.4	129	547
18993	.874	42.8	72.7	+42.5	9	106	b	.442	140.8	69.7	-15.9	87	422
18994	.812	83.7	71.9	+7.8	86	822	18996	.371	121.5	68.0	-7.1	6	33
18995	.844	111.1	71.8	-15.1	6	30	18998	.534	128.6	60.9	-15.6	4	31
18998	.931	108.9	60.3	-15.7	5	43	18999	.616	69.6	49.8	+15.7	15	127
18999	.951	74.6	53.9	+16.0	9	76							
Oct. 31. 364	(+24.7) (112.2) (+4.4)						Nov. 3. 521	(+24.2) (70.6) (+4.1)					
18988	.978	276.4	190.3	+7.2	43	287	18984	.847	251.8	126.1	-13.0	52	299
18975	.944	247.2	179.6	-19.8	3	10	19003	.761	282.4	119.9	+12.1	5	25
18989	.911	263.5	177.1	-4.1	15	86	19001	.603	282.6	107.2	+10.8	3	13
18981	.567	236.5	141.3	-14.4	5	24	18986	.664	326.2	98.1	+37.0	15	121
18984	.350	208.0	121.9	-13.6	68	575	18987	.373	226.6	86.6	-11.0	39	172
1406j	.424	176.0	110.4	-20.5	1	5	19004	.582	350.6	77.6	+39.0	7	62
18986	.574	16.7	100.1	+38.2	18	86	18994	.082	311.4	74.1	+7.2	66	418
18987	.485	121.8	87.5	-10.8	41	229	18995	.358	185.5	72.6	-16.7	224	1004
18992	.498	68.2	83.8	+14.5	1	4	a	.381	195.2	76.6	-17.4	125	525
18994	.633	84.2	73.0	+7.1	75	664	b	.346	175.0	68.8	-16.0	99	479
18995	.704	117.7	72.0	-15.7	51	352	18996	.188	184.3	71.4	-6.7	4	15
18993	.793	37.1	71.9	+42.5	15	52	18999	.415	59.2	48.9	+16.0	8	25
19000	.711	66.2	70.0	+19.4	14	58	19005	.693	79.1	27.0	+10.5	17	62
18996	.725	104.3	67.3	-7.2	0	5	19006	.979	56.4	352.3	+33.7	26	142
18998	.818	113.1	60.9	-16.0	9	46							
18999	.861	74.6	53.0	+15.4	37	155							

- Group 18997. Oct. 29 - 30. A pair of tiny spots.
 Group 18998. Oct. 29-Nov. 6. One or two small spots, not seen on November 3 and 5.
 Group 18999. Oct. 30-Nov. 5. A group of small variable spots.
 Group 19000. Oct. 31-Nov. 1. One or two small spots.
 Group 19001. Nov. 1 - 3. A few small spots.
 Group 19002. Nov. 1 - 2. One or two tiny spots.
 Group 19003. Nov. 2 - 4. One or two small spots.
 Group 19004. Nov. 2 - 9. A stream, developing in high northern latitude. The leader becomes regular in outline by November 7.
 Group 19005. Nov. 3 - 5. A cluster on November 3; a single spot on November 4 and 5.
 Group 19006. Nov. 3 - 10. A small regular spot, with one or two companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Nov. 4. 292		(+24.1)	(60.4)	(+ 4.0)			Nov. 7. 436	continued					
18984	.915	252.9	124.5	-13.9	61	565	19007	.583	306.0	49.6	+23.2	2	8
19003	.871	282.4	120.9	+12.8	4	30	19008	.435	297.0	42.4	+14.7	21	68
18986	.739	319.6	97.3	+37.4	17	123	19009	.196	311.7	27.4	+11.1	0	2
18987	.486	237.8	85.1	-11.3	34	183	19010	.240	165.6	15.4	- 9.7	1	5
19004	.623	336.1	79.1	+38.4	13	85	19006	.661	38.7	349.0	+34.2	13	88
18994	.245	282.7	74.3	+ 6.9	58	373							
18995	.390	207.9	71.3	-16.1	270	1464							
a	.446	215.8	76.2	-17.3	121	617	Nov. 8. 479		(+23.2)	(5.2)	(+ 3.6)		
b	.364	201.5	68.3	-15.7	149	847	19004	.960	309.6	76.9	+38.9	75	661
18996	.269	220.2	70.4	- 7.9	0	3	18995	.936	249.8	72.0	-17.5	130	956
18998	.320	174.7	58.7	-14.5	1	9	a	.958	250.0	76.2	-18.0	67	554
18999	.308	49.2	46.5	+15.4	7	34	b	.909	249.4	67.8	-17.0	63	396
19005	.505	76.4	30.6	+10.3	8	38	18994	.917	278.8	71.7	+ 9.5	16	136
19006	.944	55.4	351.3	+33.8	22	219	19007	.754	297.7	51.5	+23.0	2	10
							19008	.616	290.2	41.8	+15.2	8	73
Nov. 5. 293		(+23.9)	(47.2)	(+ 3.9)			19010	.302	221.4	16.8	- 9.5	0	2
18984	.976	254.7	123.0	-14.0	32	174	19006	.573	25.8	347.7	+34.4	12	52
18986	.829	313.0	96.4	+36.9	9	56	1406l	.801	107.5	314.1	-11.7	6	11
18987	.703	248.9	89.1	-11.7	15	113	1406m	.902	101.6	302.0	- 8.9	2	8
19004	.700	325.7	77.4	+38.6	38	287	19011	.975	122.2	292.6	-30.3	15	106
18994	.455	280.3	74.0	+ 8.2	26	200	19012	.964	69.4	290.6	+20.8	12	64
18995	.514	229.2	71.0	-16.0	247	1538							
a	.590	232.7	76.6	-17.5	116	634	Nov. 9. 385		(+23.0)	(353.3)	(+ 3.5)		
b	.477	226.3	68.1	-15.5	131	904	18994	.983	278.9	72.9	+ 9.4	5	29
18999	.191	347.7	49.6	+14.6	7	47	18995	.983	251.1	70.7	-17.8	84	641
19005	.279	68.9	32.0	+ 9.5	2	10	a	.994	251.0	75.3	-18.4	31	258
1406k	.835	67.7	351.7	+20.7	2	14	b	.971	251.4	67.4	-17.1	53	369
19006	.878	52.9	349.7	+34.1	16	176	19004	.975	309.3	69.4	+39.0	20	155
							19008	.758	287.7	41.7	+15.6	12	74
Nov. 6. 300		(+23.7)	(33.9)	(+ 3.8)			19009	.589	283.6	28.8	+10.8	4	22
18986	.928	307.3	99.2	+35.8	8	53	19006	.524	8.7	347.8	+34.5	2	27
18987	.838	253.7	88.8	-11.4	19	119	19012	.881	68.5	292.5	+20.5	7	29
19004	.804	316.1	78.8	+38.0	63	455	19011	.922	124.8	292.5	-30.0	14	90
18994	.649	277.7	74.2	+ 7.9	20	176	19013	.981	65.6	274.3	+24.6	0	28
18995	.668	239.7	70.8	-16.6	189	1324							
a	.732	241.7	76.2	-17.5	112	619	Nov. 10. 375		(+22.8)	(340.2)	(+ 3.4)		
b	.632	237.9	67.7	-16.4	77	705	19009	.773	281.3	30.5	+10.9	24	157
18998	.529	233.4	59.9	-14.9	6	22	19006	.525	350.3	346.3	+34.4	1	14
19006	.780	47.7	349.8	+34.3	20	154	19014	.699	121.8	301.5	-18.8	5	23
							19012	.766	66.2	292.1	+20.2	14	54
Nov. 7. 436		(+23.4)	(18.9)	(+ 3.7)			19011	.839	129.6	292.1	-30.0	16	92
18987	.949	256.8	89.1	-11.2	20	96	19013	.919	64.1	274.5	+25.1	3	16
19004	.902	311.2	78.6	+38.3	135	657	19015	.968	93.7	265.2	- 2.7	18	147
18994	.813	278.2	73.2	+ 8.8	11	65							
18995	.832	246.4	71.7	-17.2	163	955	Nov. 11. 530		(+22.5)	(325.0)	(+ 3.2)		
a	.873	247.2	76.4	-17.8	90	482	19009	.939	279.9	34.9	+10.4	25	280
b	.793	245.6	67.6	-16.6	72	460	1407a	.217	332.4	330.9	+14.2	2	11
						continued						continued	

- Group 19007. Nov. 7 - 8. One or two tiny spots.
Group 19008. Nov. 7 - 9. A cluster of small spots.
Group 19009. Nov. 7 - 11. A single spot on November 7; not seen on November 8; a pair of growing spots from November 9 to 11.
Group 19010. Nov. 7 - 8. A tiny spot.
Group 19011. Nov. 8 - 16. A small regular spot.
Group 19012. Nov. 8 - 13. A small spot.
Group 19013. Nov. 9 - 12. A small spot.
Group 19014. Nov. 10 - 12. A small spot.
Group 19015. Nov. 10 - 16. A small regular spot, breaking up on November 15.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°	°	°				1958	°	°	°			
Nov. 11. 530 <i>continued</i>							Nov. 15. 405 <i>continued</i>						
19014	.527	136.2	302.4	-19.3	2	18	19015	.153	129.9	267.2	-2.8	12	64
19012	.585	59.4	292.8	+19.9	6	31	1407h	.365	49.2	252.7	+16.4	2	10
19011	.724	137.8	291.1	-29.7	16	93	19017	.535	113.1	244.1	-9.7	2	5
19013	.799	60.7	275.0	+25.0	2	9	19021	.579	104.6	239.8	-6.0	1	9
19015	.867	95.3	265.4	-3.0	24	127	19022	.637	60.9	237.7	+20.2	3	10
							19023	.971	84.7	197.9	+5.8	31	125
Nov. 12. 532	(+22.2)	(311.8)	(+3.1)				Nov. 16. 411	(+21.2)	(260.6)	(+2.7)			
1407b	.930	258.0	19.0	-10.0	0	18	1407i	.891	254.0	321.8	-12.9	8	23
1407c	.626	247.8	347.9	-11.1	1	8	19019	.734	255.4	306.3	-8.7	24	87
19016	.520	289.8	341.8	+12.8	10	83	19011	.673	217.4	288.6	-29.8	3	16
19014	.410	157.9	302.4	-19.2	1	6	19024	.319	314.7	274.2	+15.5	1	5
19012	.425	46.4	292.8	+19.9	2	18	19015	.165	234.6	268.3	-2.8	7	33
19011	.628	149.6	290.4	-29.8	13	65	19017	.356	126.3	243.8	-9.6	1	4
19013	.669	55.2	274.7	+24.8	0	3	19025	.329	112.9	243.0	-4.7	1	35
19015	.731	97.4	265.4	-3.3	24	94	19022	.495	51.1	236.4	+20.5	23	75
19017	.941	101.0	242.7	-9.2	3	43	1407j	.556	121.4	231.4	-14.4	1	5
19018	.954	105.8	240.9	-14.1	11	82	1407k	.567	110.7	228.2	-9.2	0	2
							19023	.892	84.7	197.6	+5.9	16	128
Nov. 13. 437	(+22.0)	(299.8)	(+3.0)				Nov. 17. 428	(+20.9)	(247.2)	(+2.5)			
19016	.682	285.4	342.0	+12.6	11	45	19019	.890	257.9	308.9	-9.6	9	23
1407d	.639	260.0	338.8	-4.1	3	11	19024	.492	296.6	274.2	+14.9	6	44
19019	.220	193.4	302.7	-9.3	1	4	19025	.159	137.7	241.1	-4.2	2	15
1407e	.384	165.8	294.1	-18.8	1	5	19022	.371	30.4	235.6	+21.0	24	102
19012	.320	22.0	292.5	+20.2	1	5	19023	.761	84.1	197.8	+6.1	32	142
19011	.559	164.4	289.9	-29.5	9	72							
19015	.569	99.7	265.8	-3.0	12	79	Nov. 18. 589	(+20.6)	(231.9)	(+2.4)			
19017	.842	102.4	243.7	-8.7	7	26	19019	.983	260.1	310.5	-9.3	0	11
19018	.863	108.2	242.3	-14.0	13	43	19024	.690	289.7	274.0	+15.2	9	61
							1407l	.644	266.2	271.7	-0.6	3	10
Nov. 14. 542	(+21.7)	(285.3)	(+2.9)				19025	.200	232.7	241.0	-4.6	7	58
1407f	.859	301.9	341.2	+28.6	0	9	1407m	.259	210.7	239.6	-10.5	2	14
19020	.790	275.5	337.4	+6.1	6	28	19022	.323	351.0	235.0	+20.9	21	109
19019	.366	235.7	303.1	-9.1	7	42	19026	.242	152.1	225.3	-9.9	0	7
19011	.543	186.7	289.5	-29.5	9	50	1407n	.532	66.1	201.9	+14.4	0	4
19015	.345	107.7	266.1	-3.0	10	63	19023	.558	82.6	198.2	+6.1	26	110
19017	.683	107.1	244.0	-9.4	1	14	19027	.771	70.7	182.8	+16.3	0	2
19018	.715	113.2	242.8	-14.2	0	11	19028	.983	102.9	153.5	-12.2	64	474
19021	.744	102.9	238.5	-7.5	3	38							
Nov. 15. 405	(+21.5)	(273.9)	(+2.8)				Nov. 19. 388	(+20.3)	(221.4)	(+2.3)			
19020	.914	274.7	339.9	+5.5	9	22	1407o	.852	265.2	279.4	-2.9	0	4
19019	.547	249.3	304.9	-8.7	5	33	19024	.822	288.1	275.6	+16.1	2	13
1407g	.476	329.5	289.5	+26.8	1	13							
19011	.586	203.1	289.2	-29.7	6	31							

*continued**continued*

- Group 19016. Nov. 12 - 13. A stream of small spots.
 Group 19017. Nov. 12 - 16. One or two tiny spots.
 Group 19018. Nov. 12 - 14. A small spot.
 Group 19019. Nov. 13 - 18. A few small spots.
 Group 19020. Nov. 14 - 15. A pair of tiny spots.
 Group 19021. Nov. 14 - 15. A few tiny spots.
 Group 19022. Nov. 15 - 21. A stream of small spots, of which only the followers remain on November 21.
 Group 19023. Nov. 15 - 26. A regular spot, with an occasional companion.
 Group 19024. Nov. 16 - 19. A small stream.
 Group 19025. Nov. 16 - 20. A cluster of faint spots.
 Group 19026. Nov. 18 - 19. A few faint spots.
 Group 19027. Nov. 18 - 19. A tiny spot.
 Group 19028. Nov. 18 - 28. A variable stream, of which the leader is a regular spot until November 23 when the group begins to break up and die out.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Nov.19. 388	continued						Nov.22. 382	continued					
19025	.375	249.8	242.0	- 5.3	4	42	19032	.697	113.2	140.6	-14.5	1	12
19022	.386	326.2	234.6	+20.9	25	90	19034	.879	120.5	125.1	-25.4	26	125
19026	.249	185.7	222.8	-11.9	0	4	19035	.986	106.3	102.8	-15.7	0	23
1407 _p	.436	49.1	201.1	+18.7	0	2							
19023	.394	79.9	198.5	+ 6.1	25	125	Nov.23. 279	(+19.1)		(170.1)		(+ 1.8)	
19029	.591	100.1	185.9	- 4.1	1	4	19023	.497	279.4	199.5	+ 6.2	17	121
19027	.638	67.8	183.7	+15.7	1	6	19029	.311	249.3	186.6	- 4.5	19	193
19028	.936	104.0	153.3	-12.2	92	471	19031	.224	158.3	165.3	-10.1	67	445
19030	.966	72.9	146.6	+17.1	46	220	19028	.376	128.5	152.7	-11.8	41	274
							19030	.477	55.7	145.8	+17.2	36	200
Nov.20. 424	(+20.0)		(207.7)		(+ 2.2)		19032	.562	119.1	139.8	-14.2	2	31
19025	.598	255.7	243.2	- 6.7	1	8	19034	.790	124.7	124.3	-25.4	11	105
19022	.518	310.6	232.6	+21.7	11	70	19035	.915	107.9	105.7	-15.5	31	305
1407 _q	.252	186.0	209.2	-12.2	0	4							
1407 _r	.340	10.8	203.8	+21.6	7	39	Nov.24. 310	(+18.7)		(156.5)		(+ 1.7)	
19023	.170	66.0	198.8	+ 6.1	16	122	19023	.686	277.9	199.5	+ 6.7	17	125
1407 _s	.384	125.0	189.1	-10.6	1	7	19029	.504	257.8	186.0	- 4.6	18	130
19029	.371	108.4	187.1	- 4.6	2	15	19031	.256	214.3	164.9	-10.4	115	645
19031	.681	102.8	165.9	- 7.0	6	33	19028	.245	161.6	152.0	-11.7	35	179
19028	.831	106.1	153.2	-12.1	70	460	19030	.322	32.9	146.0	+17.3	23	180
19030	.890	71.8	145.7	+17.2	38	190	19032	.385	135.5	140.4	-14.2	2	18
19032	.930	105.8	140.8	-13.8	0	5	19036	.510	51.7	131.4	+19.9	10	57
19033	.968	82.4	132.3	+ 7.9	0	18	19034	.667	133.0	123.9	-25.5	13	91
19034	.992	115.8	127.1	-25.2	15	92	19035	.793	110.9	106.5	-15.3	47	300
							19037	.924	53.2	93.1	+34.3	8	66
Nov.21. 401	(+19.7)		(194.8)		(+ 2.1)		19038	.918	78.1	90.2	+11.6	5	29
19022	.645	303.5	230.2	+22.5	6	20	19039	.959	107.4	84.5	-16.1	10	103
19023	.105	313.9	199.1	+ 6.2	18	121	19040	.986	107.0	77.3	-16.4	60	428
19029	.191	124.6	185.8	- 4.1	22	117							
19031	.525	108.7	164.8	- 7.9	21	124	Nov.25. 294	(+18.4)		(143.5)		(+ 1.6)	
19028	.699	109.7	152.7	-12.0	61	352	19023	.840	276.8	200.4	+ 6.5	14	72
19030	.772	69.2	145.9	+17.2	44	192	19029	.691	261.6	186.6	- 4.6	7	53
19033	.886	81.8	132.7	+ 8.2	0	10	19031	.422	240.0	165.2	-10.7	105	805
19034	.953	117.4	125.6	-25.3	24	88	19028	.279	212.6	152.3	-11.9	14	125
							19030	.276	351.9	145.8	+17.4	25	101
Nov.22. 382	(+19.4)		(181.9)		(+ 1.9)		19032	.274	172.6	141.4	-14.1	2	17
19023	.307	284.6	199.2	+ 6.3	18	102	19036	.387	34.6	130.0	+20.1	16	93
19029	.135	215.0	186.3	- 4.4	44	279	19034	.552	145.7	123.4	-25.5	11	93
19031	.346	124.8	165.2	- 9.5	59	345	19035	.664	115.4	105.2	-15.2	58	328
19028	.529	115.6	152.9	-11.5	54	355	19041	.797	71.4	92.0	+15.7	0	8
19030	.623	64.1	146.1	+17.3	47	205	19037	.853	49.7	91.6	+34.4	57	347
						continued							continued

- Group 19029. Nov. 19 - 25. A stream of small spots.
- Group 19030. Nov. 19 - 29. A regular spot, which becomes elongated and splits into two spots by November 25.
- Group 19031. Nov. 20 - 29. A cluster of spots, developing into a compact stream.
- Group 19032. Nov. 20 - 25. A few small spots, not seen on November 21.
- Group 19033. Nov. 20 - 21. A small spot.
- Group 19034. Nov.20-Dec.2. A regular spot.
- Group 19035. Nov.22-Dec.3. A long stream, of which only the leader remains by November 30.
- Group 19036. Nov.24-Dec.2. A cluster of spots, developing into a bi-polar group. The follower is breaking up as it passes from view.
- Group 19037. Nov. 24 - 30. A pair of spots, of which only the leader remains by November 29.
- Group 19038. Nov. 24 - 29. A pair of spots, of which only the leader remains by November 28.
- Group 19039. Nov.24-Dec.3. A cluster of variable spots.
- Group 19040. Nov.24-Dec.7. A large compact stream, of which the follower becomes regular in outline by November 4.
- Group 19041. Nov.25-Dec.3. A few small spots on November 25 and 26, developing into a long broken stream.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Fbs. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Fbs. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Nov. 25. 294	<i>continued</i>						Nov. 28. 518	<i>continued</i>					
19038	.817	76.6	89.4	+11.8	22	129	19036	.555	305.1	129.7	+19.6	191	1035
19039	.886	108.7	83.0	-15.7	27	129	a	.606	301.2	134.2	+19.3	74	539
19042	.911	84.9	78.0	+5.3	2	12	b	.514	311.2	125.3	+20.8	117	496
19040	.936	108.2	75.9	-16.4	97	658	19044	.564	324.5	122.8	+28.3	1	5
19043	.985	49.6	65.4	+40.0	11	107	19034	.555	216.2	122.2	-25.4	8	31
							19035	.290	206.5	108.6	-13.8	40	289
Nov. 26. 328	(+18.0)	(129.9)	(+1.5)				19038	.206	35.4	94.1	+10.8	2	12
19023	.948	276.9	201.1	+7.0	6	45	19041	.298	30.6	92.0	+16.0	41	199
19031	.603	249.8	164.9	-10.7	114	888	19037	.567	14.2	91.3	+34.3	6	26
19028	.431	234.4	150.9	-13.1	11	68	19039	.397	136.6	84.6	-15.5	23	129
19030	.382	316.8	145.7	+17.5	12	43	19047	.327	69.2	83.1	+7.8	7	28
19036	.323	357.4	130.8	+20.2	105	522	19040	.528	123.3	73.8	-15.7	140	878
a	.327	349.6	133.5	+20.2	58	288	19043	.790	36.3	63.2	+40.4	14	48
b	.335	6.0	127.8	+20.9	47	234	19045	.778	70.3	51.6	+15.9	9	64
19034	.466	166.5	123.0	-25.3	13	68	19048	.947	71.0	30.6	+18.4	11	48
19044	.470	14.3	122.3	+28.4	1	14	19049	.969	99.4	26.0	-8.8	42	187
19035	.490	125.0	105.5	-14.9	70	381							
19037	.760	43.0	90.9	+34.8	32	169	Nov. 29. 292	(+16.9)	(90.8)	(+1.1)			
19041	.662	66.8	90.7	+16.3	3	17	19031	.958	257.4	163.2	-11.7	67	681
19038	.653	73.6	90.3	+11.8	21	91	19030	.819	289.5	144.2	+16.5	7	13
19039	.754	112.6	83.8	-15.8	44	188	19036	.664	299.6	128.5	+19.9	166	849
19042	.787	85.6	78.2	+4.4	2	6	a	.729	295.5	134.7	+19.0	85	388
19040	.839	110.6	75.2	-16.3	129	735	b	.623	303.3	124.5	+20.9	81	461
19043	.941	46.8	65.3	+40.7	12	55	19034	.648	226.5	122.0	-25.4	6	32
							19035	.402	230.2	109.3	-13.8	39	202
Nov. 27. 417	(+17.6)	(115.6)	(+1.3)				19038	.180	338.1	94.7	+10.7	1	7
19031	.777	255.0	165.2	-10.7	186	1225	19037	.534	357.2	92.6	+33.2	5	10
19028	.621	245.2	151.0	-13.9	1	11	19041	.258	353.7	92.5	+15.9	43	286
19030	.542	299.1	145.1	+16.4	9	50	19039	.305	167.5	86.9	-16.1	10	48
19036	.405	324.5	130.1	+20.4	177	982	19047	.161	55.3	83.2	+6.3	4	51
a	.436	317.2	133.9	+19.8	108	548	19040	.407	135.7	73.7	-15.8	136	1087
b	.383	331.2	126.9	+20.8	69	434	19043	.729	29.7	62.7	+40.1	9	31
19034	.466	193.9	122.7	-25.5	16	97	19045	.660	67.3	51.8	+15.5	11	105
19044	.473	347.9	122.1	+28.7	3	23	19048	.879	69.8	30.8	+18.2	14	57
19035	.318	152.0	106.8	-14.9	47	338	19049	.900	100.5	27.4	-9.0	28	181
19037	.644	31.3	91.8	+34.4	20	112							
19041	.468	57.2	91.6	+15.8	42	192	Nov. 30. 614	(+16.5)	(73.4)	(+0.9)			
19038	.443	67.0	91.2	+11.1	7	48	19036	.837	293.5	128.0	+20.0	176	970
19039	.577	120.0	84.5	-15.5	27	167	a	.894	291.0	135.2	+19.1	93	474
19042	.605	85.2	78.6	+3.9	1	6	b	.805	295.8	124.1	+21.0	83	496
19040	.696	115.4	74.8	-16.4	100	680	19034	.801	237.0	121.2	-25.2	2	11
19043	.876	43.3	63.8	+40.3	10	52	19050	.642	288.7	111.8	+12.5	5	31
19045	.911	72.6	50.9	+16.3	7	38	19035	.650	248.8	111.7	-12.8	48	280
							19041	.434	306.8	94.5	+15.8	75	456
Nov. 28. 518	(+17.2)	(101.0)	(+1.2)				19037	.593	337.7	89.1	+34.0	1	18
19031	.904	256.8	164.6	-11.4	160	870	19039	.359	215.6	85.9	-16.0	33	138
19028	.796	253.6	152.2	-12.2	3	11	19047	.221	297.3	84.8	+6.7	22	144
19030	.717	292.6	144.6	+16.9	6	29	19040	.282	178.4	72.9	-15.4	300	1534
						<i>continued</i>	19043	.657	13.4	61.9	+40.5	7	38
													<i>continued</i>

Group 19042. Nov. 25 - 27. One or two tiny spots.

Group 19043. Nov. 25-Dec. 1. A small spot.

Group 19044. Nov. 26 - 28. A few faint spots.

Group 19045. Nov. 27-Dec. 7. A stream, of which only the leader remains on December 5.

Group 19047. Nov. 28-Dec. 4. A stream, of which only the leader remains on December 4.

Group 19048. Nov. 28-Dec. 1. A small spot.

Group 19049. Nov. 28-Dec. 7. A pair of spots, developing into a stream, of which the leader is the sole survivor on December 7.

Group 19050. Nov. 30-Dec. 2. One or two small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Nov.30.614	continued						Dec. 3.282	(+15.4) (38.3) (+0.6)					
19045	.434	54.1	52.1	+15.5	60	369	19035	.964	255.6	111.9	-13.7	15	124
19051	.502	68.1	45.1	+11.5	20	139	19041	.845	287.6	94.6	+15.1	22	149
19048	.710	64.3	31.1	+18.5	6	52	19039	.790	249.8	88.4	-15.4	2	17
19049	.735	102.3	27.1	-8.3	41	315	19047	.749	278.3	86.3	+6.6	19	159
19052	.973	111.1	358.2	-20.2	28	258	19040	.612	242.1	72.4	-16.1	192	1421
							19045	.355	312.2	54.0	+14.5	28	219
							19051	.219	334.4	43.8	+11.9	21	180
							19049	.219	136.2	29.5	-8.5	40	279
Dec. 1.439	(+16.1)		(62.5) (+0.8)				19053	.283	62.2	23.7	+8.1	50	294
19036	.923	291.4	128.3	+19.9	116	971	1407w	.349	45.7	23.4	+14.7	2	17
a	.960	289.6	135.3	+19.0	72	526	19054	.493	85.4	9.0	+2.8	3	36
b	.896	293.1	124.2	+20.9	44	445	19052	.713	120.4	357.3	-20.7	35	272
19034	.888	241.1	121.3	-25.0	2	8	19055	.903	75.2	334.6	+13.6	5	29
19050	.774	285.6	112.1	+12.5	6	38	19056	.924	104.8	331.9	-13.4	27	135
19035	.779	252.1	111.9	-13.3	31	217	19057	.984	73.4	319.1	+16.4	16	184
19041	.579	296.0	95.0	+15.3	41	297							
19047	.409	284.4	85.9	+6.5	29	233	Dec. 4.496	(+14.9)		(22.3) (+0.4)			
19039	.491	234.2	83.9	-14.1	10	83	19047	.910	277.1	87.5	+6.6	11	73
19040	.335	211.0	72.8	-15.8	186	1349	19040	.789	249.6	72.3	-15.7	174	1289
19043	.635	1.8	61.0	+40.0	6	35	19045	.582	293.1	55.6	+13.5	16	82
19045	.304	34.4	52.3	+15.2	46	255	19051	.406	297.7	43.7	+11.2	26	116
19051	.367	58.3	44.0	+11.8	35	176	1407x	.331	331.5	31.8	+17.3	0	7
1407t	.451	125.4	40.3	-14.4	0	4	19049	.195	220.0	29.5	-8.2	30	208
19048	.577	59.0	31.3	+17.9	1	5	19053	.141	349.3	23.8	+8.3	82	390
19049	.585	105.6	27.9	-8.4	37	290	19054	.229	77.8	9.4	+3.2	35	148
19053	.615	79.0	25.2	+7.4	21	123	19058	.279	116.5	7.8	-6.7	27	112
19052	.913	113.3	359.0	-20.7	53	261	1407y	.416	126.0	2.1	-13.8	2	19
							19052	.532	132.5	357.6	-20.6	40	224
							19055	.729	73.8	336.8	+12.0	0	5
							19056	.785	107.5	332.2	-13.4	14	78
							19059	.934	99.5	313.8	-8.7	12	81
Dec. 2.595	(+15.7)		(47.3) (+0.7)				19057	.947	73.8	311.9	+15.4	76	563
19036	.974	291.4	123.3	+21.0	24	205							
19034	.967	243.6	120.3	-25.2	0	8							
19035	.908	254.8	111.4	-13.5	37	224	Dec. 5.588	(+14.5)		(7.9) (+0.3)			
19050	.895	283.4	110.1	+12.2	2	10	19040	.913	251.9	72.4	-16.3	202	1519
19041	.747	290.7	93.7	+15.7	40	266	19045	.776	286.2	57.5	+12.7	9	66
19039	.688	245.9	87.9	-15.7	3	18	1407z	.780	292.5	56.8	+17.5	2	7
19047	.634	279.3	86.2	+6.4	42	192	19051	.613	288.0	44.2	+11.1	22	141
1407u	.724	319.9	81.4	+34.1	5	19	19049	.373	246.5	28.0	-8.2	26	207
19040	.501	235.3	72.5	-15.8	185	1556	19053	.326	296.5	25.0	+8.6	106	782
19045	.264	338.5	53.0	+14.9	24	207	19058	.124	194.4	9.7	-6.6	80	518
19051	.208	16.9	43.8	+12.1	32	175	a	.142	214.3	12.5	-6.4	36	264
19049	.355	116.3	28.6	-8.4	53	359	19054	.056	329.4	9.5	+3.0	28	112
19053	.415	72.1	23.9	+7.9	41	249	19052	.395	155.3	357.8	-20.6	38	237
19054	.636	85.2	8.0	+3.6	0	3	19056	.607	111.7	332.7	-12.7	9	63
1407v	.751	109.0	0.5	-13.7	2	5	19059	.813	100.9	314.3	-8.6	9	69
19052	.802	116.5	357.5	-20.5	39	261	19057	.844	71.7	311.8	+15.5	108	821
19055	.957	76.5	334.7	+13.1	12	29	19060	.976	92.1	290.7	-2.0	25	108
19056	.971	104.0	331.9	-13.4	14	94							

- Group 19051. Nov.30-Dec.7. A stream of small variable spots.
Group 19052. Nov.30-Dec.12. A regular spot, with occasional following companions.
Group 19053. Dec. 1 - 10. A few scattered spots, developing into a stream.
Group 19054. Dec. 2 - 10. A pair of spots, of which only the leader remains on December 10.
Group 19055. Dec. 2 - 4. A small spot.
Group 19056. Dec. 2 - 7. A small spot.
Group 19057. Dec. 3 - 15. A long variable stream, of which the leader becomes a regular spot by December 10, while the follower dies out by December 14.
Group 19058. Dec. 4 - 11. A stream, of which the leader is the most stable component.
Group 19059. Dec. 4 - 11. A persistent small spot.
Group 19060. Dec. 5 - 16. A composite spot, becoming regular in outline by December 12. There are some occasional companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958	°	°	°				1958	°	°	°			
Dec. 6. 532	(+14.1)	(355.4)	(+0.2)				Dec. 8. 544	<i>continued</i>					
19040	.974	253.7	71.4	-15.8	161	1465	19060	.582	92.9	293.5	-1.7	37	237
19045	.894	284.5	57.8	+13.0	4	33	19065	.759	131.3	287.9	-30.0	16	64
19051	.780	283.7	45.7	+10.7	16	63	19061	.723	91.5	282.8	-1.1	106	587
19049	.565	255.5	28.8	-7.9	17	115	19062	.755	98.6	280.4	-6.5	97	589
19053	.519	286.9	25.4	+8.8	104	659	19063	.776	77.9	278.9	+9.3	9	77
19058	.278	245.2	10.0	-6.5	90	524	19066	.915	110.4	264.3	-18.6	78	497
a	.340	252.1	14.3	-5.8	38	222							
19054	.256	281.5	9.9	+3.1	19	74	Dec. 9. 386	(+12.9)	(317.8)	(-0.2)			
19052	.360	184.7	357.2	-20.7	44	230	19053	.931	279.2	25.9	+8.5	75	625
19056	.433	119.7	332.9	-12.2	8	31	19054	.817	275.0	12.2	+4.0	7	43
19059	.673	102.9	314.0	-8.5	22	58	19058	.811	262.1	11.5	-6.5	139	799
19057	.708	68.5	312.6	+15.1	127	879	a	.853	263.2	15.9	-5.9	91	464
19060	.899	92.1	291.6	-1.8	49	260	19052	.683	239.0	356.4	-20.7	54	403
1408a	.926	68.8	289.2	+19.6	3	9	19064	.229	180.8	318.0	-13.4	10	47
19061	.955	91.9	282.9	-1.8	15	281	19067	.322	175.8	316.4	-18.8	6	41
19062	.965	96.3	281.0	-6.0	16	305	19059	.155	158.0	314.5	-8.4	12	69
19063	.979	79.9	277.5	+10.0	5	41	19057	.271	19.2	312.5	+14.6	118	811
							19060	.404	94.7	294.2	-2.1	29	216
Dec. 7. 279	(+13.8)	(345.6)	(0.0)				19068	.625	41.0	290.3	+27.8	3	22
19040	.988	255.0	66.2	-14.8	47	306	19065	.657	139.1	288.2	-29.9	21	104
19045	.956	283.2	57.9	+12.6	3	13	19061	.578	91.6	282.6	-1.1	120	699
19051	.883	281.6	46.8	+10.2	10	48	19062	.607	100.0	281.0	-6.2	82	630
19049	.706	258.5	29.7	-8.0	10	72	19063	.638	75.1	279.3	+9.3	8	88
19053	.646	283.0	24.9	+8.3	112	693	19066	.816	113.3	265.6	-18.9	75	506
19058	.442	254.2	10.9	-6.9	118	721	19069	.961	79.5	244.4	+10.0	7	69
a	.506	258.0	15.3	-6.0	62	329							
19054	.419	277.0	10.1	+2.9	10	60	Dec. 10. 392	(+12.5)	(304.6)	(-0.3)			
19052	.405	206.8	356.8	-21.1	42	223	19053	.978	279.0	22.0	+8.7	5	56
19056	.302	134.1	332.8	-12.1	1	15	19054	.961	274.9	18.2	+4.6	4	19
19059	.541	105.8	314.0	-8.5	14	88	19058	.930	263.1	12.6	-6.5	116	665
19057	.592	64.6	312.2	+14.7	113	888	a	.948	263.8	15.8	-6.0	102	505
19060	.805	92.2	292.2	-1.8	55	245	19052	.822	244.0	356.8	-21.2	42	267
19061	.893	91.8	282.6	-1.6	90	502	19064	.328	226.0	318.6	-13.4	6	43
19062	.915	97.2	279.8	-6.5	83	563	19067	.364	207.3	314.7	-19.1	2	10
19063	.931	79.9	277.6	+9.4	18	96	19059	.224	230.8	314.7	-8.4	11	37
							19057	.291	327.0	313.9	+13.8	65	420
Dec. 8. 544	(+13.3)	(328.9)	(-0.1)				19060	.189	102.6	294.0	-2.6	33	173
19053	.837	279.9	25.1	+8.2	115	588	19068	.508	24.1	291.2	+27.2	18	80
19058	.680	261.1	11.2	-6.1	120	772	19065	.550	154.6	288.9	-29.9	17	97
a	.736	262.1	15.8	-5.9	69	428	19061	.370	92.4	283.0	-1.1	126	855
19054	.668	275.1	10.5	+3.3	14	27	19062	.419	106.0	280.8	-6.9	86	647
19052	.557	230.6	356.2	-20.7	47	330	19063	.472	68.7	278.2	+9.6	11	38
19064	.309	137.6	316.6	-13.2	4	26	19066	.677	118.6	265.8	-19.1	77	524
19059	.291	119.9	314.2	-8.4	17	64	19070	.658	111.6	265.6	-14.2	16	66
19057	.367	46.4	313.0	+14.5	85	663	19069	.892	78.7	242.2	+9.9	26	166
						<i>continued</i>	19071	.900	80.6	241.0	+8.3	2	40

- Group 19061. Dec. 6 - 18. A compact stream, breaking up after its central meridian passage. Only the follower remains on December 7.
- Group 19062. Dec. 6 - 18. A variable stream, of which the follower dies out by December 17.
- Group 19063. Dec. 6 - 13. A single spot until December 9, after which it breaks up and dies out.
- Group 19064. Dec. 8 - 15. A stream of small spots, of which the follower is the sole survivor from December 13.
- Group 19065. Dec. 8 - 12. A small stream, of which the leader alone remains on December 12.
- Group 19066. Dec. 8 - 17. A stream, rapidly breaking up and dying out after December 15.
- Group 19067. Dec. 9 - 10. One or two small spots.
- Group 19068. Dec. 9 - 14. One or two small spots.
- Group 19069. Dec. 9 - 18. A small stream.
- Group 19070. Dec. 10 - 13. A pair of spots.
- Group 19071. Dec. 10 - 19. A small composite spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Urb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Dec. 11. 538		(+12.0)	(289.5)	(-0.5)			Dec. 14. 405	<i>continued</i>					
19058	.979	261.7	7.5	-8.2	5	53	19060	.696	265.4	295.6	-3.8	25	162
19052	.933	247.3	356.8	-21.3	27	232	19068	.775	306.9	295.6	+27.1	3	12
19064	.511	243.8	317.5	-13.5	21	126	19061	.530	268.7	283.6	-1.4	136	859
19057	.491	299.6	315.4	+13.5	54	345	19062	.536	258.8	283.6	-7.2	102	758
19059	.447	252.3	314.9	-8.2	2	11	19066	.364	214.3	264.1	-18.2	80	700
19060	.105	244.0	294.9	-3.2	22	140	19069	.239	37.8	243.2	+10.0	20	125
19068	.467	354.3	292.5	+27.1	7	44	19071	.206	50.0	242.6	+6.8	22	100
19065	.494	178.8	288.8	-30.0	6	27	19072	.665	55.1	215.9	+21.7	133	695
19061	.099	95.0	283.9	-1.0	213	1301	a	.620	53.0	219.8	+21.2	54	269
19062	.189	126.6	280.7	-6.9	106	786	19073	.878	72.0	192.0	+15.3	8	23
19063	.275	49.6	277.3	+9.7	8	56	19074	.949	71.0	181.5	+17.7	6	24
19066	.496	130.5	266.1	-19.2	77	569							
19070	.462	121.3	265.6	-14.3	6	28							
19069	.752	76.2	241.8	+10.0	33	245							
19071	.755	79.6	241.2	+7.5	13	55	Dec. 15. 286		(+10.3)	(240.1)	(-1.0)		
19072	.967	68.0	215.8	+21.1	14	103	19057	.980	283.3	317.8	+12.8	5	32
							19064	.970	255.7	315.5	-14.1	4	20
Dec. 12. 282		(+11.6)	(279.7)	(-0.6)			19060	.833	265.9	296.3	-4.0	17	109
19052	.977	248.2	356.3	-21.3	39	189	19062	.696	261.0	283.7	-6.9	97	593
19064	.644	249.2	317.8	-13.7	26	196	19061	.691	268.9	283.6	-1.5	109	529
19057	.623	292.5	315.8	+13.3	40	304	19066	.487	232.1	263.9	-18.2	79	466
19060	.279	258.6	295.5	-3.7	21	98	19069	.199	345.9	242.9	+10.1	21	108
19068	.513	334.3	294.1	+26.8	2	11	19071	.133	341.5	242.5	+6.3	23	86
19065	.519	199.0	290.9	-29.9	2	13	19072	.547	45.1	215.6	+21.7	109	589
19061	.083	260.4	284.4	-1.4	222	1318	a	.492	39.9	220.4	+21.2	38	215
19062	.120	193.5	281.3	-7.2	92	754	19073	.764	69.2	192.6	+15.0	5	25
19063	.170	0.8	279.6	+9.1	3	18							
19070	.337	136.6	265.9	-14.7	12	144	Dec. 16. 373		(+9.8)	(225.8)	(-1.1)		
19066	.397	143.4	265.3	-19.1	95	678	19060	.945	266.4	296.5	-3.7	47	143
19069	.621	73.8	242.7	+9.5	46	277	19062	.858	263.2	284.6	-6.4	58	820
19071	.622	78.0	242.1	+6.9	23	104	19061	.837	268.6	282.4	-1.8	59	493
19072	.909	66.6	216.7	+20.9	19	189	19066	.652	242.2	263.1	-18.5	47	357
							1408b	.422	243.8	248.4	-11.7	1	11
Dec. 13. 321		(+11.2)	(266.0)	(-0.7)			19069	.355	303.5	243.2	+10.2	8	62
19057	.800	287.0	317.6	+13.1	31	192	19071	.311	295.0	242.2	+6.5	21	80
19064	.776	252.8	315.5	-13.7	8	61	1408c	.099	161.8	224.0	-6.5	1	8
19060	.507	264.0	296.2	-3.7	22	119	19072	.426	23.7	215.2	+21.8	66	641
19068	.637	317.4	294.9	+27.3	3	8	a	.391	13.3	220.3	+21.2	24	234
19061	.310	268.4	284.0	-1.2	130	961	19074	.724	65.1	182.6	+16.9	6	46
19062	.297	248.4	282.1	-6.9	96	611							
19063	.288	318.8	277.1	+11.8	1	9	Dec. 17. 619		(+9.2)	(209.4)	(-1.3)		
19070	.246	178.4	265.6	-14.9	8	74	19062	.972	263.3	285.6	-6.8	115	1041
19066	.302	176.8	265.0	-18.2	113	560	19061	.942	269.4	279.6	-1.0	22	138
19069	.420	63.6	243.6	+10.1	18	120	19066	.821	248.1	262.6	-18.5	15	130
19071	.427	71.4	242.0	+7.2	16	92	19069	.589	287.3	244.0	+9.0	6	55
19072	.804	61.8	216.4	+21.8	85	499	19071	.545	282.7	241.6	+5.7	22	131
							19075	.547	233.5	237.2	-20.1	4	19
Dec. 14. 405		(+10.7)	(251.7)	(-0.8)			19072	.403	347.6	214.7	+21.8	75	584
19057	.913	284.9	316.4	+13.2	33	164	a	.417	335.9	219.9	+21.0	41	231
19064	.905	255.0	315.7	-13.9	8	32	19074	.552	55.1	181.2	+17.2	7	66
						<i>continued</i>	19076	.808	107.4	156.7	-14.7	57	325
							19077	.962	69.9	136.9	+18.9	75	256

Group 19072. Dec. 11 - 23. A cluster, developing into a stream of normal type.
Group 19073. Dec. 14 - 15. One or two small spots.
Group 19074. Dec. 14 - 21. Intermittent. One or two variable spots.
Group 19075. Dec. 17 - 18. A pair of tiny spots.
Group 19076. Dec. 17 - 23. A stream of small spots.
Group 19077. Dec. 17 - 29. A regular spot, with a few companions until December 20.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958							1958						
			°	°	°					°	°	°	
Dec. 18. 458		(+8.8)	(198.3)	(-1.4)			Dec. 21. 446	continued					
19062	.991	262.2	280.4	-7.9	7	69	19080	.772	72.4	110.2	+12.4	3	15
19061	.990	269.7	279.9	-0.6	21	120	19081	.958	109.6	86.2	-19.3	36	227
19069	.699	284.6	241.3	+9.1	0	3	19083	.987	106.4	78.3	-16.4	70	964
19071	.691	280.2	241.3	+6.0	17	83							
19075	.670	241.5	236.9	-19.7	4	26	Dec. 22. 452		(+7.0)	(145.7)	(-1.9)		
19072	.467	327.6	213.9	+21.8	105	705	19072	.944	294.1	213.8	+22.0	64	357
a	.517	317.7	220.1	+21.1	39	212	a	.973	292.7	220.2	+21.5	28	183
19074	.447	43.7	179.5	+17.5	0	2	19076	.326	221.7	158.7	-15.8	6	47
19076	.684	111.5	157.1	-15.5	47	317	19082	.191	351.2	147.4	+8.9	6	49
19077	.905	68.3	135.8	+18.9	50	283	19077	.405	27.8	134.2	+19.1	44	236
19078	.989	113.1	117.1	-23.1	13	141	1408f	.638	44.9	116.0	+25.1	3	17
							19078	.592	127.2	115.1	-22.5	14	68
Dec. 19. 407		(+8.4)	(185.8)	(-1.5)			19080	.578	64.7	113.5	+12.7	0	4
19071	.832	278.2	241.5	+5.9	4	41	19081	.875	110.8	86.1	-19.0	40	220
19072	.589	311.8	213.9	+21.7	64	637	19083	.950	106.3	74.4	-16.0	166	1629
a	.658	305.7	219.8	+21.3	16	220	19084	.986	77.0	66.3	+12.5	64	456
1408d	.397	304.0	205.3	+11.4	0	7							
19076	.542	118.0	156.1	-16.0	61	324	Dec. 23. 610		(+6.4)	(130.4)	(-2.0)		
19077	.810	65.0	135.1	+19.0	66	299	19072	.986	293.1	208.8	+22.3	6	58
19078	.941	114.1	117.0	-23.1	29	158	19076	.519	240.6	158.4	-16.5	4	32
							19082	.357	301.2	148.3	+8.7	4	45
Dec. 20. 456		(+7.9)	(172.0)	(-1.6)			19077	.366	351.1	133.8	+19.1	48	220
19079	.909	251.8	236.4	-17.2	5	15	19078	.426	145.2	115.2	-22.3	9	60
19072	.735	302.6	213.8	+22.1	57	483	19085	.481	63.0	104.6	+10.7	2	27
a	.802	298.5	221.0	+21.4	23	168	19081	.734	114.5	85.6	-19.1	43	255
19076	.363	134.4	156.4	-16.2	32	211	19083	.847	107.8	73.5	-16.1	206	1608
19077	.671	59.1	134.7	+18.8	46	263	19084	.914	74.9	65.8	+12.9	61	615
19078	.849	116.3	116.5	-23.0	21	138	19086	.946	112.7	60.4	-22.0	11	70
19080	.895	75.1	109.8	+12.5	4	19	19087	.960	75.4	57.9	+13.4	26	215
19081	.995	109.4	87.8	-19.4	10	125	19088	.977	69.2	54.6	+19.8	21	145
Dec. 21. 446		(+7.4)	(158.9)	(-1.7)			Dec. 24. 583		(+6.0)	(117.6)	(-2.1)		
19079	.981	253.0	237.5	-17.0	0	15	19082	.531	290.4	147.7	+8.8	13	82
19072	.853	297.4	213.5	+22.0	59	388	19077	.445	324.0	133.6	+19.0	29	198
a	.907	294.8	220.9	+21.5	27	140	1408g	.167	0.6	117.5	+7.5	4	33
19074	.457	310.2	180.1	+15.5	2	13	19078	.355	172.1	114.6	-22.6	9	28
19076	.260	176.9	158.1	-16.7	14	81	19080	.266	15.4	113.5	+12.7	1	20
19082	.294	49.5	145.9	+9.3	7	29	19081	.585	120.7	85.6	-19.1	32	239
19077	.529	47.8	134.5	+19.2	48	230	19083	.712	111.0	74.0	-16.2	167	1368
1408e	.674	54.0	123.0	+21.9	1	4	19084	.804	72.7	66.0	+12.5	47	439
19078	.730	120.0	117.1	-22.6	15	90	1408h	.846	68.5	62.5	+16.8	4	15
						continued						continued	

Group 19078. Dec. 18 - 25. One or two small spots.
Group 19079. Dec. 20 - 21. A small spot.
Group 19080. Dec. 20 - 30. Intermittent. At first a few variable spots. On December 25 a small stream develops, of which only the leader remains by December 29.
Group 19081. Dec. 20-1959 Jan. 2. A regular spot, with a few companions on December 24.
Group 19082. Dec. 21 - 28. A stream, of which the follower is the sole survivor after December 26.
Group 19083. Dec. 21-1959 Jan. 3. A large variable group.
Group 19084. Dec. 22-1959 Jan. 3. A group of variable spots.
Group 19085. Dec. 23 - 29. A stream of variable spots, not seen on December 24.
Group 19086. Dec. 23 - 29. Two or three small spots.
Group 19087. Dec. 23 - 30. A small spot, which breaks up on December 27 and then dies out.
Group 19088. Dec. 23-1959 Jan. 4. A variable stream, of which only a small spot remains on January 1. There is a revival of activity in the same area on the next day.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures		Position		Area		U.T. and Group No.	Measures		Position		Area	
	Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots		Rad. Dist.	Pos. Ang.	Long.	Lat.	Unb.	Whole Spots
1958		°	°	°			1958		°	°	°		
Dec.24. 583	<i>continued</i>						Dec.28. 337	<i>continued</i>					
19086	.845	114.9	62.1	-22.0	7	31	19077	.923	292.3	132.8	+19.3	40	212
19087	.877	73.2	58.1	+13.6	13	126	19091	.835	282.3	123.6	+ 8.7	2	21
19088	.935	68.3	50.8	+19.4	57	353	19080	.771	290.1	116.2	+13.6	35	200
19089	.976	82.2	40.8	+ 7.1	45	138	19085	.638	288.1	106.0	+ 9.3	20	139
Dec.25. 306		(+5.6)	(108.1)	(- 2.2)			19081	.410	225.1	86.0	-19.2	45	192
19082	.663	285.7	148.1	+ 8.6	9	79	19083	.263	201.6	73.8	-16.7	118	725
19077	.539	311.5	133.3	+18.9	31	180	19084	.247	6.9	66.5	+11.5	21	150
19078	.364	196.2	114.4	-22.6	2	11	19086	.339	165.0	62.8	-21.7	3	32
19080	.266	338.6	113.8	+12.1	3	24	19087	.335	31.1	58.0	+14.0	11	54
19085	.213	14.9	105.0	+ 9.7	2	20	19088	.499	45.9	46.2	+17.8	47	263
19081	.465	129.6	85.9	-19.2	42	206	19089	.559	72.3	35.8	+ 7.5	50	245
19083	.589	115.3	74.6	-16.4	172	1050	19090	.768	92.7	18.1	- 3.7	36	182
19084	.700	69.5	66.1	+12.5	32	273	Dec.29. 377		(+3.6)	(54.5)	(- 2.7)		
19086	.773	118.0	60.6	-22.6	5	13	19077	.984	290.6	132.2	+19.6	30	192
19087	.794	70.8	57.8	+13.7	19	88	19091	.931	280.9	122.1	+ 9.1	3	15
19088	.879	66.9	49.5	+19.0	35	187	19080	.906	286.9	117.6	+14.1	30	165
19089	.945	81.7	37.9	+ 7.1	61	401	19085	.794	284.5	105.5	+ 9.7	12	133
Dec.26. 280		(+5.1)	(95.3)	(- 2.3)			19081	.567	239.3	85.4	-19.1	45	224
19082	.799	282.9	147.2	+ 9.1	34	230	19083	.424	235.0	75.6	-16.5	93	681
19077	.681	301.9	132.9	+19.2	35	211	19084	.309	320.1	66.1	+11.0	23	255
19080	.421	309.1	114.8	+13.2	23	152	19086	.343	199.5	61.5	-21.5	5	47
19085	.258	332.3	102.3	+10.8	23	140	19087	.293	349.8	57.6	+14.0	2	31
19081	.329	152.5	86.1	-19.1	42	227	19088	.388	24.3	44.9	+18.0	39	225
19083	.426	124.8	74.0	-16.2	155	1115	19089	.354	60.4	36.9	+ 7.5	41	231
19084	.537	62.3	66.2	+12.4	49	282	19090	.592	93.2	18.3	- 4.1	34	161
19086	.642	123.1	59.9	-22.3	7	39	Dec.30. 475		(+3.1)	(40.0)	(- 2.8)		
19087	.653	65.5	57.7	+13.9	16	98	19080	.981	284.3	117.5	+13.4	15	131
19088	.772	63.1	48.8	+18.8	51	309	19092	.836	285.0	95.1	+10.9	2	27
19089	.861	79.9	36.8	+ 7.5	78	400	19093	.780	296.4	87.4	+18.8	21	93
19090	.975	93.3	18.4	- 3.0	38	186	19081	.736	246.4	85.5	-19.4	24	169
Dec.27. 520		(+4.5)	(78.9)	(- 2.5)			19083	.595	246.5	74.3	-16.0	77	601
19082	.920	281.3	144.8	+ 9.4	16	108	19084	.499	300.0	66.1	+11.9	32	199
19077	.844	294.8	132.9	+19.2	42	193	19087	.417	313.9	58.0	+14.1	1	8
19080	.642	294.9	115.6	+13.6	26	225	19088	.365	345.0	45.7	+17.8	21	139
19085	.470	297.1	103.9	+10.0	20	118	19089	.190	15.5	37.1	+ 7.7	33	161
19081	.573	322.9	101.8	+24.8	4	24	19090	.367	93.5	18.6	- 3.8	32	154
19081	.314	201.9	86.0	-19.3	34	196	19094	.871	64.9	343.1	+20.1	20	75
19081	.177	220.7	85.6	-10.2	1	7	19095	.883	109.7	338.9	-18.7	2	6
19083	.253	163.9	74.7	-16.5	113	851	Dec.31. 280		(+2.7)	(29.4)	(- 2.9)		
19084	.318	40.7	66.7	+11.5	22	134	19092	.939	282.3	98.0	+10.4	3	9
19086	.444	136.7	59.9	-21.1	3	36	19093	.876	292.1	87.6	+17.6	26	166
19087	.454	52.7	56.2	+13.6	13	80	19081	.842	249.3	85.5	-18.8	42	214
19088	.613	55.2	47.0	+18.3	43	339	19083	.736	250.9	75.5	-15.9	88	872
19089	.694	77.3	36.1	+ 6.9	57	401	19084	.636	296.3	66.2	+13.9	62	329
19090	.874	93.1	18.1	- 3.9	44	163	19088	.451	321.6	46.9	+17.9	8	70
Dec.28. 337		(+4.1)	(68.2)	(- 2.6)			19089	.230	323.1	37.4	+ 7.7	20	157
19082	.974	280.1	144.2	+ 9.2	22	139	19090	.187	95.7	18.7	- 4.0	36	157
						<i>continued</i>	19094	.801	59.3	341.6	+22.1	18	87
							19096	.763	105.9	340.5	-13.9	2	21
							19095	.781	112.7	339.8	-19.4	5	25

- Group 19089. Dec.24-1959 Jan. 5. A stream, of which the leader has died out by December 28. The following components include a regular spot which is the sole survivor by January 2.
- Group 19090. Dec.26-1959 Jan. 7. A regular spot.
- Group 19091. Dec. 28 - 29. One or two tiny spots.
- Group 19092. Dec. 30 - 31. One or two small spots.
- Group 19093. Dec.30-1959 Jan. 1. A small stream, developing near the west limb.
- Group 19094. Dec.30-1959 Jan.10. A variable stream.
- Group 19095. Dec.30-1959 Jan. 3. A few small spots.
- Group 19096. Dec.31-1959 Jan. 7. A short stream, of which only the leader remains on January 7.

GENERAL CATALOGUE

OF SUNSPOTS

FOR THE YEAR 1958

GENERAL CATALOGUE OF GROUPS OF SUNSPOTS FOR THE YEAR 1958

Groups of sunspots, lasting for two or more days, are numbered in the *first* column in continuation of the group numbers given in *R.O. Bulletin* No. 26. Groups seen on one day only are not included in this catalogue but are given with a distinctive numeration in a following table on page C 278.

The *second* column gives the U.T. of the central meridian passage of each group as deduced from its mean longitude (given in the *tenth* column). For those groups which are in existence at the time of the central meridian passage of their longitude, the time is given to 0.^d01, corresponding to 0.^o13 of solar longitude. In other cases, in which groups disappear before or appear after the central meridian, the deduced time is given to 0.^d1.

The *third* 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 number of days covering the extreme limits of observation.

The *fifth* and *seventh* columns, headed 'Longitude from central meridian', give, for the days on which each group was first and last seen respectively, the heliographic longitude from the meridian passing through the centre of the Sun's disk at the time of observation, longitudes west of the centre being reckoned as positive.

The mean areas for umbræ and whole spots entered in the *eighth* and *ninth* columns are corrected for the effect of foreshortening and are expressed in millionths of the Sun's visible hemisphere.

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

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

The *twelfth* column gives reference to recurrent groups. The numeration is in continuation of the recurrent series given in Ledger I of the *Greenwich Photo-Heliographic Results* for 1955; bracketed numbers indicate the order of a group in the series.

With reference to the identification of recurrent 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 $\xi = 14.^{\circ}37 - 2.^{\circ}60 \sin^2 \phi$, gives the apparent drift in longitude appropriate to different latitudes after an interval of 27 days, a drift forwards corresponding to an increase in heliographic longitude.

Latitude.....Drift				Latitude.....Drift			
</							

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	°	1958	°			°	°	
18435	Jan.	6. 41	7	Jan. 1 -63	Jan. 7 +10	9	50	86. 3	+30. 9	1793 (3) 1798 (2)	
36		6. 15	9	1 -64	9 +46	14	78	89. 5	+ 3. 8		
37		6. 8	3	1 -70	3 -44	2	15	80. 9	-21. 9		
38		7. 21	11	1 -72	11 +55	79	595	75. 8	+10. 9		
39		7. 23	12	1 -76	12 +68	14	75	75. 4	-17. 7		
18440		4. 69	7	2 -31	8 +47	22	107	108. 9	-22. 7		
41		10. 28	13	4 -76	16 +79	28	182	35. 3	-28. 7		
42		10. 25	12	4 -79	15 +69	29	182	35. 7	-17. 2		
43		7. 12	8	5 -24	12 +69	12	86	76. 8	+17. 2		
44		9. 7	3	5 -59	7 -29	3	23	42. 6	+14. 0		
18445		11. 35	13	5 -81	17 +80	108	788	21. 2	-11. 7		
46		12. 58	13	6 -80	18 +75	29	149	5. 0	+24. 4		
47		8. 66	6	7 -12	12 +46	22	132	56. 6	-38. 9		
48		11. 75	10	8 -46	17 +75	12	70	16. 0	-18. 2		
49		11. 11	2/3	9 -21	11 + 3	1	6	24. 3	+25. 3		
18450		13. 84	9	9 -58	17 +45	26	210	348. 4	+24. 8		
51		15. 05	12	9 -72	20 +70	31	210	332. 5	+28. 5		
52		15. 27	13	9 -75	21 +80	25	153	329. 6	-23. 1		
53		9. 1	2	10 +15	11 +30	3	20	50. 3	+33. 6		
54		13. 47	10	10 -41	19 +79	24	151	353. 3	-21. 8		
18455		15. 0	2	10 -62	11 -46	3	16	333. 7	+12. 8	1800 (2)	
56		15. 64	8	10 -70	17 +22	5	27	324. 7	+14. 8		
57		16. 35	11	10 -81	20 +56	27	127	315. 4	- 4. 7		
58		9. 5	3	11 +25	13 +53	5	27	45. 8	+25. 7		
59		16. 08	11	11 -63	21 +74	39	267	318. 8	- 8. 3		
18460		17. 29	13	11 -76	23 +82	216	1180	302. 9	+12. 0	1802 (1)	
61		13. 85	6	12 -16	17 +44	21	160	348. 3	+20. 6	1803 (1)	
62		19. 0	6	13 -72	18 - 8	5	24	281. 0	+21. 7		
63		16. 8	3	14 -27	16 - 8	4	25	310. 0	+15. 1		
64		20. 69	13	14 -77	26 +71	61	299	258. 3	+21. 4		
18465		20. 5	4	14 -78	17 -43	4	27	260. 7	-15. 7		1799 (2)
66		12. 5	3	16 +48	18 +80	15	94	6. 4	-13. 9		
67		17. 10	3	16 -11	18 +17	6	44	305. 6	-12. 0		
68		21. 65	12	16 -71	27 +77	11	37	245. 5	+23. 6		
69		21. 8	5	16 -73	20 -18	2	12	243. 2	+ 4. 9		
18470		22. 0	4	16 -74	19 -34	4	20	241. 6	-17. 4		
71		22. 28	8	17 -67	24 +28	22	118	237. 2	+22. 1		
72		22. 95	12	17 -72	28 +69	26	146	228. 5	+27. 5		
73		22. 82	8/9	17 -72	25 +34	7	29	230. 2	-12. 2		
74		22. 99	8	17 -76	24 +20	9	46	227. 9	+19. 7		
18475		23. 43	12	17 -80	28 +65	9	56	222. 2	-19. 7	1795 (3)	
76		20. 16	4/6	18 -21	23 +43	1	8	265. 1	+17. 9	1804 (1)	
77		21. 50	7	18 -42	24 +42	11	72	247. 5	+31. 0		
78		24. 16	12	18 -72	29 +64	27	171	212. 5	+28. 7		
79		19. 9	7	20 +10	26 +82	54	413	268. 8	-24. 8		

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	°	1958	°			°	°	
18480	Jan. 20.85	5	Jan. 20	- 4	Jan. 24	+48	5	21	256.1	+37.8	1801 (2)
81	25.89	12	20	-71	31	+69	26	162	189.8	-16.8	
82	26.49	13	20	-78	Feb. 1	+79	17	77	181.8	- 8.5	
83	26.20	7	21	-64	Jan. 27	+15	3	15	185.7	-20.7	
84	21.6	2	22	+12	23	+24	2	10	246.8	-13.0	
18485	27.98	11	22	-72	Feb. 1	+58	18	98	162.2	+18.0	1797 (3)
86	27.5	5	23	-55	Jan. 27	- 3	3	22	168.7	-27.6	
87	26.44	8	25	-12	Feb. 1	+78	24	140	182.5	-19.2	
88	28.23	9	25	-36	2	+68	51	324	158.9	-10.3	
89	30.35	11	25	-62	4	+61	42	198	131.0	+21.8	
18490	31.87	12	26	-73	6	+71	28	151	111.0	+19.6	
91	Feb. 2.1	7	26	-84	1	-11	14	68	94.8	-27.3	
92	Jan. 28.7	4	29	+ 8	1	+50	6	32	152.3	+24.5	
93	31.64	4	30	-18	2	+24	4	17	114.0	+14.8	
94	31.96	7	30	-22	5	+61	25	134	109.8	- 6.1	
18495	Feb. 5.81	8	31	-72	7	+19	14	72	46.0	+25.7	
96	5.99	12	31	-81	11	+76	91	587	43.6	-13.1	
97	Jan. 28.5	2	Feb. 1	+53	2	+65	8	18	155.6	-13.5	
98	28.7	3	1	+50	3	+76	9	35	152.4	-30.3	
99	Feb. 6.89	8	1	-72	8	+18	15	55	31.8	-12.0	
18500	8.13	14	1	-88	14	+85	133	647	15.4	-14.3	1805 (1)
01	4.28	7	2	-29	8	+56	11	51	66.1	+10.0	
02	9.33	14	2	-86	15	+73	121	746	359.7	-19.3	
03	8.05	8	4	-51	11	+49	19	85	16.5	+18.7	
04	10.10	10/11	4	-72	14	+60	4	30	349.4	-15.7	
18505	10.12	12	4	-77	15	+71	17	87	349.2	+25.2	1806 (1)
06	Jan. 31.7	2	5	+65	6	+74	46	278	113.8	+30.0	
07	Feb. 8.28	7	5	-34	11	+43	5	33	13.4	- 9.3	
08	3.1	2	6	+41	7	+56	2	11	81.7	+ 9.4	
09	9.6	2/4	6	-43	9	- 2	1	4	355.8	+23.4	
18510	13.06	8	7	-76	14	+19	10	52	310.4	+19.2	1802 (2)
11	13.30	13	7	-80	19	+79	201	1036	307.3	+11.2	
12	3.5	2	8	+62	9	+80	6	24	76.6	-17.2	
13	12.8	2	9	-43	10	-31	1	8	314.4	+12.3	
14	16.6	4	10	-81	13	-44	6	26	263.5	-24.5	
18515	11.94	7	11	- 7	17	+73	24	142	325.3	+ 9.1	1803 (2)
16	17.79	13	11	-80	23	+71	24	145	248.2	+23.2	
17	17.3	4/5	12	-62	16	- 7	3	19	254.4	+14.7	
18	18.30	12	12	-75	23	+68	21	122	241.5	+ 6.3	
19	15.72	4	14	-16	17	+23	12	50	275.5	+12.7	
18520	20.7	5	14	-79	18	-28	15	91	210.3	+20.2	
21	20.65	9	14	-81	22	+23	9	51	210.6	-14.9	
22	13.7	4	16	+40	19	+74	12	65	302.4	+20.9	
23	17.94	7	16	-22	22	+61	8	32	246.2	-14.8	
24	22.05	8	16	-71	23	+17	8	42	192.1	-18.5	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	o	1958	o			o	o	
18525	Feb. 22. 12	13	Feb. 16	-71	Feb. 28	+82	77	460	191. 2	-15. 0	
26	23. 21	13	16	-85	28	+68	23	137	176. 8	-25. 0	
27	23. 70	13	17	-80	Mar. 1	+79	34	184	170. 4	-12. 0	
28	14. 8	2	19	+60	Feb. 20	+76	6	36	287. 7	+ 5. 6	
29	21. 5	2	19	-27	20	-15	2	20	199. 0	+17. 4	
18530	17. 4	2	20	+41	21	+53	2	10	253. 7	+15. 6	
31	20. 3	7	20	+ 3	26	+82	28	134	214. 8	- 5. 1	
32	22. 30	4	20	-23	23	+14	9	34	188. 8	+11. 6	
33	22. 62	7	20	-32	26	+54	3	11	184. 7	- 9. 5	
34	21. 4	7	21	+ 2	27	+79	80	415	200. 2	-22. 2	
18535	24. 6	2	22	-30	23	-15	1	18	158. 2	- 9. 3	
36	25. 91	6/7	22	-43	28	+31	5	20	141. 3	-33. 9	
37	28. 56	10	22	-78	Mar. 3	+35	30	264	106. 3	+30. 9	1806 (2)
38	25. 42	8	24	-14	3	+79	74	457	147. 8	-15. 0	
39	Mar. 2. 6	4	24	-82	Feb. 27	-42	7	64	79. 0	-24. 8	
18540	Feb. 22. 9	2	25	+32	26	+48	4	17	181. 4	- 6. 8	
41	Mar. 3. 0	3	25	-77	27	-45	3	29	73. 8	+ 6. 2	
42	Feb. 27. 70	3/5	27	- 4	Mar. 3	+49	1	4	117. 6	+14. 4	
43	Mar. 1. 28	8	28	- 9	7	+79	43	264	96. 9	-23. 7	
44	7. 48	14	28	-86	13	+75	170	1253	15. 2	-18. 0	
18545	6. 84	8	Mar. 1	-72	8	+22	5	29	23. 6	-11. 3	
46	7. 40	13	1	-76	13	+79	70	328	16. 3	-14. 8	1805 (2)
47	8. 13	10	2	-77	11	+44	9	52	6. 6	+16. 4	
48	Feb. 27. 9	3	3	+46	5	+72	7	30	115. 1	-10. 9	
49	Mar. 6. 03	9	3	-38	11	+72	85	450	34. 3	+24. 0	1807 (1)
18550	7. 17	11	3	-51	13	+74	103	653	19. 3	+31. 9	1808 (1)
51	9. 01	11/12	3	-75	14	+73	14	77	353. 0	+22. 6	1809 (1)
52	1. 8	5	4	+35	8	+83	118	838	90. 6	-12. 2	1810 (1)
53	7. 85	8	4	-47	11	+47	6	28	10. 3	-11. 9	
54	7. 3	2	5	-23	6	- 9	1	13	18. 0	- 9. 0	
18555	8. 9	2	6	-29	7	-20	2	21	357. 0	-18. 0	
56	11. 83	11	6	-72	16	+67	15	80	317. 9	+14. 6	
57	12. 69	13	6	-80	18	+77	55	342	306. 6	+10. 3	1802 (3)
58	11. 66	5	8	-45	12	+12	5	23	320. 1	+21. 3	
59	13. 44	12	8	-69	19	+79	112	882	296. 7	+13. 3	1811 (1)
18560	12. 07	6	10	-24	15	+46	9	56	314. 7	+12. 3	
61	13. 9	2	10	-48	11	-34	6	28	290. 0	+17. 8	
62	8. 6	2	12	+51	13	+63	0	6	0. 9	-20. 1	
63	17. 31	10	12	-66	21	+54	13	61	245. 7	+15. 5	
64	18. 41	13	12	-78	24	+73	70	538	231. 2	+12. 3	1812 (1)
18565	8. 1	2	13	+71	14	+84	4	16	7. 1	-33. 6	
66	12. 2	5	13	+14	17	+72	9	50	312. 9	-13. 0	
67	19. 89	12	14	-67	25	+70	40	261	211. 6	+36. 1	
68	20. 77	8	14	-80	21	+ 8	5	27	200. 1	-23. 4	
69	20. 5	5	15	-66	19	-11	3	12	203. 3	-11. 8	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U. T. of C. M. P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C. M.	Date	Long. from C. M.	Unbræ	Whole Spots	Long.	Lat.	
			1958	°	1958	°			°	°	
18570	Mar. 20.6	3	Mar. 15	-67	Mar. 17	-42	5	41	202.0	+17.8	
71	14.0	2	16	+33	17	+44	1	10	289.2	+44.8	
72	22.20	13	16	-74	28	+80	22	100	181.2	-16.1	
73	13.9	2	17	+46	18	+63	6	23	290.9	+ 6.3	
74	22.4	2	17	-65	18	-49	0	8	179.0	- 5.3	
18575	22.75	12	17	-70	28	+72	186	1076	173.9	+21.7	1813 (1)
76	23.54	12	18	-64	29	+79	27	137	163.5	+ 9.2	
77	24.2	4	18	-73	21	-38	3	12	154.4	-15.2	
78	24.53	13	18	-74	30	+80	95	531	150.5	+24.6	
79	18.1	5	19	+19	23	+72	37	192	234.7	+18.8	
18580	24.27	7/8	19	-60	26	+25	1	11	153.9	-23.3	
81	26.6	2	21	-68	22	-53	4	20	123.0	+15.2	
82	26.98	12	21	-72	Apr. 1	+70	26	151	118.2	+19.5	
83	20.9	5	22	+21	Mar. 26	+73	3	16	198.4	- 8.4	
84	28.96	14	22	-81	Apr. 4	+83	184	1269	92.0	-12.7	1810 (2)
18585	28.45	10	23	-64	1	+54	12	68	98.8	+19.0	
86	29.32	13	23	-74	4	+78	44	271	87.3	- 6.8	
87	30.39	15	23	-84	6	+84	213	1325	73.2	-21.8	
88	27.23	10	24	-43	2	+85	43	276	114.8	- 6.6	
89	27.53	9	25	-31	2	+81	29	148	110.9	- 3.7	
18590	Apr. 2.22	13	27	-76	8	+81	157	954	35.8	-16.5	1814 (1)
91	2.75	13	27	-79	8	+70	73	314	28.9	+25.1	1807 (2)
92	3.77	10	28	-83	6	+34	21	85	15.4	-15.5	1805 (3)
93	Mar. 25.5	3	29	+51	Mar. 31	+78	29	242	137.6	+23.7	
94	28.9	2	29	+ 7	30	+20	4	29	93.0	+ 8.8	
18595	Apr. 4.48	13	29	-76	Apr. 10	+72	138	925	6.0	+32.7	1808 (2)
96	4.2	6	29	-76	3	-10	6	36	9.8	+18.9	
97	4.56	13	29	-82	10	+77	67	375	5.0	-16.8	1815 (1)
98	5.10	12/13	30	-78	11	+79	28	177	357.8	+20.7	1809 (2)
99	1.61	8	31	-20	7	+79	29	169	43.8	+ 7.5	
18600	6.41	8/9	31	-76	8	+25	7	43	340.5	+27.0	
01	6.69	7	Apr. 1	-70	7	+10	12	52	336.9	+11.8	
02	7.8	5	2	-71	6	-19	5	21	322.5	-22.2	
03	8.4	3	2	-79	4	-53	5	37	314.5	-26.3	
04	3.53	7	3	- 2	9	+80	16	93	18.6	-25.2	
13605	9.45	13	3	-80	15	+78	92	471	300.5	+12.0	1811 (2)
06	9.82	13	3	-79	15	+71	57	335	295.5	+15.1	
07	8.06	10	4	-48	13	+74	98	624	318.8	+15.8	
08	8.62	10	4	-58	13	+68	36	202	311.4	+11.0	1802 (4)
09	9.8	5	4	-72	8	-19	8	53	295.5	+ 7.1	
18610	5.77	5	5	- 3	9	+49	12	51	349.0	+24.3	
11	10.2	4	5	-61	8	-25	5	24	289.9	+42.3	
12	8.8	2	6	-33	7	-19	2	9	308.8	-10.0	
13	9.23	7	6	-38	12	+42	8	36	303.3	-14.6	
14	11.22	4/6	6	-64	11	+ 4	2	10	277.0	+44.1	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	°	1958	°			°	°	
18615	Apr. 12.79	6	Apr. 8	-59	Apr. 13	+13	8	62	256.3	-14.1	1812 (2)
16	14.1	4	8	-74	11	-37	10	94	239.3	+13.7	
17	6.3	3	9	+39	11	+69	7	39	341.6	+10.0	
18	8.0	4/5	9	+17	13	+75	5	22	319.4	+11.6	
19	10.46	2	10	-2	11	+14	4	22	287.2	-11.6	
18620	12.83	5	10	-32	14	+22	7	33	255.8	-22.0	
21	15.74	7	10	-72	16	+9	10	45	217.4	-4.6	
22	10.4	3	11	+15	13	+42	3	26	288.0	+14.9	
23	18.0	6	12	-69	17	-12	3	14	187.2	+39.7	
24	10.3	3	13	+43	15	+68	14	98	289.8	+25.6	
18625	15.96	4	13	-32	16	+5	6	30	214.6	-15.4	1813 (2)
26	19.00	12	13	-68	24	+73	35	208	174.3	+18.1	
27	13.0	5	14	+20	18	+72	14	76	253.9	-10.8	1816 (1)
28	21.00	13	14	-84	26	+76	167	1226	147.9	-21.8	
29	21.01	9	15	-72	23	+27	16	95	147.3	+39.2	
18630	15.2	2	16	+16	17	+28	6	32	224.8	+7.1	
31	21.13	9/10	16	-63	25	+54	12	60	146.2	+23.1	
32	13.3	2	17	+53	18	+66	1	22	249.3	-6.9	
33	13.9	2	17	+44	18	+59	5	54	241.3	+13.0	
34	15.1	5	17	+28	21	+79	6	42	225.8	+19.3	
18635	22.4	4/5	17	-69	21	-15	2	20	128.8	-8.9	
36	23.27	13	17	-79	29	+81	42	246	118.0	+12.7	
37	16.7	5	18	+22	22	+75	12	69	204.6	-25.8	
38	18.48	2	18	-2	19	+14	0	4	181.2	-21.4	
39	18.55	5	18	-3	22	+50	13	71	180.3	+35.1	
18640	24.92	8	19	-72	26	+24	7	40	96.1	-5.5	
41	25.48	11	20	-69	30	+68	13	80	88.8	+7.4	
42	25.93	6/8	20	-70	27	+20	5	30	82.8	-12.4	
43	26.37	13	20	-77	May 2	+79	64	399	77.0	+10.3	
44	27.32	13	21	-79	May 3	+82	40	232	64.5	+16.5	
18645	27.5	4	21	-79	Apr. 24	-42	5	24	62.5	+8.8	
46	24.03	3	23	-10	25	+18	2	8	107.9	-24.6	
47	28.7	2	23	-70	24	-57	2	20	46.4	+13.2	
48	29.47	13	23	-80	May 5	+79	85	455	36.1	-16.3	
49	28.3	2	25	-40	Apr. 26	-23	2	15	50.8	+15.7	
18650	29.8	2	25	-60	May 26	-40	2	12	32.0	+8.4	
51	May 1.30	13	25	-76	May 7	+79	38	197	11.8	+27.9	
52	1.84	13	25	-81	7	+76	127	799	4.7	+17.7	
53	1.83	13	25	-85	7	+75	28	139	4.8	-17.1	
54	3.09	14	26	-82	9	+83	198	1332	348.2	-14.7	
18655	Apr. 29.27	4	27	-23	Apr. 30	+15	2	8	38.7	+15.0	
56	May 1.47	7	27	-50	May 3	+28	10	56	9.6	-24.6	
57	2.8	2	27	-69	Apr. 28	-58	1	13	352.0	+19.4	
58	Apr. 25.4	2	28	+40	29	+51	0	10	89.3	-16.2	
59	29.85	3	28	-18	30	+5	2	15	31.0	-13.1	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Unbræ	Whole Spots	Long.	Lat.	
			1958	°	1958	°			°	°	
18660	Apr. 25.5	2	Apr. 29	+52	Apr. 30	+62	3	19	88.1	-29.0	
61	29.6	6	30	+10	May 5	+78	4	40	35.0	+23.8	
62	29.9	5	30	+7	4	+65	11	74	29.9	+29.0	
63	May 1.28	4	30	-14	3	+31	6	37	12.2	+12.8	
64	1.39	3	May 1	-2	3	+30	3	24	10.6	+21.7	
18665	2.85	8	1	-23	8	+79	41	266	351.4	+23.7	1818 (1)
66	5.9	2	1	-62	2	-47	2	6	310.5	-24.9	
67	6.88	12	1	-73	12	+71	33	206	298.1	+10.7	1811 (3)
68	7.23	13	1	-75	13	+80	128	669	293.4	+25.8	1819 (1)
69	6.0	2	2	-47	3	-34	0	6	309.6	-14.2	
18670	6.52	11	2	-56	12	+75	18	97	302.8	+1.8	
71	4.20	3	3	-6	5	+18	2	17	333.5	+15.5	
72	6.26	8	3	-36	10	+53	10	64	306.3	+24.4	
73	2.1	4	4	+32	7	+73	17	82	1.4	+26.0	
74	9.7	3	4	-67	6	-40	1	9	261.3	+22.4	
18675	10.12	13	4	-73	16	+82	40	218	255.2	+14.0	
76	11.5	3	5	-78	7	-52	2	14	236.8	-22.3	
77	8.17	6/8	6	-22	13	+74	3	21	281.0	+13.0	
78	13.0	5/6	7	-71	12	-9	4	16	217.5	-4.5	
79	9.48	8	8	-12	15	+78	28	170	263.7	+7.9	
18680	13.81	10	8	-73	17	+51	19	106	206.5	-7.1	
81	14.95	14	8	-82	21	+84	56	373	191.4	-17.5	1820 (1)
82	10.3	2	9	-12	10	0	4	12	253.2	+18.6	
83	15.94	13	9	-83	21	+72	29	239	178.3	-20.2	
84	12.5	3	10	-31	12	-2	3	16	223.4	-13.5	
18685	17.0	2	11	-73	12	-62	3	20	163.8	+9.8	
86	10.5	4	12	+24	15	+66	6	32	250.6	-8.2	
87	18.52	13	12	-80	24	+78	47	242	144.2	-23.8	1816 (2)
88	19.39	12	13	-80	24	+72	52	284	132.6	-6.8	
89	21.17	12	15	-72	26	+62	45	293	109.1	+40.3	
18690	15.6	2	16	+10	17	+24	4	24	183.0	-14.2	
91	23.42	13	17	-76	29	+73	39	228	79.3	+22.1	
92	19.03	7	18	-7	24	+75	30	172	137.4	+24.6	
93	20.39	9	18	-26	26	+78	18	104	119.4	-23.6	
94	16.2	3	19	+45	21	+69	8	47	175.2	+18.4	
18695	24.8	5	19	-69	23	-19	8	48	60.6	+17.8	
96	27.00	13	20	-85	June 1	+74	28	153	32.0	-15.4	1814 (3)
97	22.34	8	21	-12	May 28	+78	38	218	93.6	+9.4	
98	26.98	12	21	-74	June 1	+76	37	220	32.2	+9.1	
99	23.41	8	22	-14	May 29	+77	13	66	79.5	-12.3	
18700	25.0	3	22	-34	24	-6	1	6	58.5	-19.3	
01	25.66	7	23	-30	29	+46	11	63	49.7	+7.3	
02	28.86	10	23	-73	June 1	+52	12	66	7.3	+20.4	
03	29.90	12	23	-79	3	+60	23	141	353.6	-17.2	
04	30.04	14	23	-85	5	+82	52	306	351.8	-13.0	1817 (2)

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	°	1958	°			°	°	
18705	May 20.6	2	May 24	+53	May 25	+66	2	14	117.0	-17.4	1818 (2)
06	23.2	3	24	+19	26	+44	6	28	82.5	-29.5	
07	29.85	7/8	24	-70	31	+20	4	19	354.3	+24.4	
08	28.0	3	25	-32	27	-6	1	9	19.1	+19.9	
09	June 1.59	13	26	-78	June 7	+80	31	171	318.0	-14.5	
18710	May 29.04	5/6	27	-19		+47	5	34	4.9	+14.8	
11	31.35	8	27	-50		+43	3	16	334.4	-30.9	
12	June 2.52	13	27	-75		+77	46	263	305.7	+25.4	
13	May 24.8	2	28	+47	May 29	+57	1	10	61.3	+20.1	
14	30.56	4	28	-30	31	+10	5	41	344.8	-16.9	
18715	30.85	10	28	-32	June 6	+80	69	443	341.0	+28.3	1811 (4)
16	June 3.1	4	28	-77	May 31	-37	6	35	297.6	+11.6	
17	2.8	4	29	-63	June 1	-14	3	16	302.4	+17.8	
18	4.47	13	29	-81		+78	73	376	279.8	+25.4	
19	May 31.63	8	30	-17		+77	19	123	330.7	+17.5	
18720	June 4.72	9	30	-70		+38	5	32	276.5	-21.7	
21	May 28.8	2	31	+33		+52	2	14	8.6	+12.5	
22	June 1.1	4	June 3	+31		+69	3	27	324.3	-17.1	
23	3.0	6	3	+7		+74	42	268	299.7	+16.7	
24	6.5	2	3	-41		-24	0	11	252.6	+11.4	
18725	8.57	11	3	-69		+65	24	145	225.7	-22.2	
26	10.08	15	3	-80		+85	212	1587	205.6	+28.2	
27	4.6	3	4	+2		+24	9	59	278.7	+9.6	
28	9.76	13	4	-62		+78	88	573	209.4	+43.4	
29	10.60	10	4	-79		+37	19	122	198.7	-17.4	
18730	10.42	7	7	-37		+37	5	31	201.1	+15.7	
31	3.6	2	8	+65		+77	6	38	291.8	+6.8	
32	12.17	7/8	8	-48		+44	6	36	177.9	-16.9	
33	13.14	6	8	-60		+3	3	18	165.1	+14.4	
34	14.2	2	9	-63		-50	3	15	151.6	-12.7	
18735	15.4	6	9	-79		-12	10	69	135.6	-24.2	1816 (3)
36	11.61	7	10	-16		+63	5	27	185.3	-25.5	
37	11.8	2	10	-18		-6	1	8	183.1	-9.0	
38	17.4	5	11	-81		-26	2	11	108.6	+9.1	
39	17.80	12	12	-72		+75	91	580	103.4	+15.2	
18740	18.80	13	12	-79		+72	51	264	90.2	-26.0	
41	13.2	2	13	+1		+18	1	7	164.2	-23.0	
42	17.16	3	15	-21		+3	1	6	111.9	-20.3	
43	21.85	12	16	-74		+74	13	77	49.8	+6.4	
44	22.84	8	16	-80		+8	18	116	36.7	+20.4	
18745	15.0	2	17	+31		+44	2	10	140.7	-9.4	
46	23.5	2	17	-81		-68	3	10	28.0	-15.1	
47	19.5	2	18	-16		-2	6	62	80.8	+11.8	
48	24.73	12	18	-78		+64	21	188	11.8	+15.0	
49	24.55	11	19	-69		+70	21	141	14.0	+10.6	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
			1958	°	1958	°			°	°	
18750	1958 June 25.82	d 9	1958 June 20	-72	1958 June 28	+34	22	116	357.2	-11.3	1817 (3)
51	26.24	7	20	-76	26	+ 2	19	114	351.7	-16.7	
52	19.2	5	21	+31	25	+79	16	71	85.3	+ 7.2	
53	25.7	2	22	-41	23	-31	1	9	359.0	+24.8	
54	28.0	3	22	-73	24	-50	3	20	327.9	+17.4	
18755	27.2	4	23	-51	26	-10	12	68	339.5	-13.9	1822 (1)
56	28.75	12	23	-76	July 4	+82	126	789	318.5	-18.3	
57	29.15	11	23	-81	3	+58	13	77	313.1	- 6.5	
58	29.85	13	23	-82	5	+74	54	327	304.0	+10.1	
59	23.7	2	24	+ 9	June 25	+22	2	14	25.8	+18.4	
18760	23.2	2	25	+28	26	+41	2	12	31.8	-15.6	1819 (3)
61	30.57	7	25	-71	July 1	+10	11	55	294.4	-10.6	
62	26.83	3	26	- 7	June 28	+21	2	9	343.9	-24.9	
63	29.7	3	26	-45	28	-18	3	25	305.9	+15.4	
64	July 2.0	4	26	-75	29	-34	8	49	275.1	+26.6	
18765	June 27.85	2	27	- 8	28	+ 8	2	8	330.4	-19.2	1823 (1)
66	July 2.2	2	27	-64	28	-50	4	28	273.1	+10.9	
67	4.56	13	28	-83	July 10	+76	36	197	241.6	+20.6	
68	5.87	13	29	-81	11	+70	60	498	224.3	+25.7	
69	1.79	7	July 1	- 9	7	+77	22	125	278.3	+10.7	
18770	4.39	10	1	-42	10	+84	33	208	243.8	+ 4.5	1824 (1)
71	5.82	7	1	-60	7	+23	7	32	224.9	- 4.9	
72	7.65	14	1	-77	14	+78	155	923	200.6	-22.9	
73	7.62	13	2	-66	14	+83	59	373	201.0	+27.0	
74	8.1	2	2	-74	3	-64	6	31	195.3	+16.5	
18775	3.42	6	3	- 2	8	+66	16	117	256.7	+11.6	1821 (2)
76	6.72	8	3	-46	10	+48	4	30	213.0	+25.2	
77	10.74	12	4	-81	15	+58	50	266	159.7	+29.9	
78	6.10	7	5	-12	11	+70	15	78	221.7	-16.0	
79	13.06	12	7	-72	18	+68	51	316	129.1	-21.6	
18780	15.10	13	9	-76	21	+83	33	168	102.1	+16.5	1822 (1)
81	16.78	11	10	-81	20	+46	11	57	79.8	+40.2	
82	18.26	13	12	-73	24	+79	156	914	60.3	+ 8.3	
83	18.71	11	12	-80	22	+48	12	69	54.4	+20.8	
84	18.83	13	12	-81	24	+74	37	191	52.7	- 3.7	
18785	13.15	2	13	- 1	14	+16	4	24	127.8	-12.8	1823 (1)
86	15.69	8	14	-20	21	+74	55	353	94.4	-23.5	
87	20.70	9	14	-82	22	+22	17	95	28.0	+20.9	
88	19.8	2/3	15	-61	17	-28	1	9	39.6	+20.4	
89	21.53	9/10	15	-77	24	+44	4	30	23.3	+18.9	
18790	16.77	5/6	16	- 4	21	+62	3	19	80.0	-13.2	1824 (1)
91	20.9	4	16	-56	19	-16	0	6	25.3	+14.4	
92	16.4	2	17	+15	18	+26	2	8	84.6	+ 9.9	
93	19.88	6	17	-31	22	+34	6	20	38.9	+ 8.0	
94	23.25	11	18	-66	28	+66	27	145	354.2	-14.8	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	o	1958	o			o	o	
18795	July 23.20	5	July 19	-49	July 23	+ 4	2	17	354.9	+20.4	
96	25.49	13	19	-77	31	+78	72	364	324.6	-16.6	1822 (2)
97	25.79	13	19	-80	31	+74	15	99	320.7	+15.9	1825 (1)
98	25.83	12	19	-82	30	+61	9	50	320.1	- 3.9	
99	22.28	8	20	-25	27	+70	16	82	7.2	-12.7	
18800	23.3	2	20	-36	21	-24	4	13	353.0	-18.0	
01	26.25	12	20	-78	31	+68	123	901	314.5	-14.7	1822 (2)
02	17.3	3	21	+57	23	+79	5	35	73.2	-17.5	
03	26.7	4	21	-71	24	-30	5	18	308.1	+ 4.2	
04	27.2	2	21	-76	22	-62	3	16	302.4	+17.8	
18805	27.41	13	21	-79	Aug. 2	+76	119	755	299.3	-18.1	1826 (1)
06	21.1	4	23	+30	July 26	+72	13	84	22.4	+26.2	
07	26.8	4	23	-45	26	- 4	4	23	307.7	+24.6	
08	29.99	14	23	-86	Aug. 5	+84	49	277	265.1	+17.2	1827 (1)
09	30.60	13	24	-84	5	+77	21	134	257.0	+ 4.8	
18810	31.35	12	25	-79	5	+67	40	247	247.1	+ 5.9	
11	28.34	9	26	-24	3	+82	33	253	287.0	+19.0	
12	29.72	7	27	-32	2	+51	14	78	268.7	+12.7	
13	Aug. 1.83	12	27	-74	7	+77	50	307	227.5	+26.9	
14	1.89	11	28	-64	7	+75	47	309	226.8	+14.9	
18815	July 28.5	5	29	+11	2	+67	17	83	284.6	+ 6.3	
16	29.64	2	29	- 5	July 30	+10	2	8	269.8	-10.2	
17	Aug. 3.86	9	29	-72	Aug. 6	+32	15	85	200.7	-23.7	1823 (2)
18	3.53	12	29	-74	9	+80	65	405	205.1	- 9.4	1828 (1)
19	1.87	9	30	-37	7	+74	40	203	227.0	- 9.2	
18820	July 31.4	6	31	0	5	+65	26	175	246.9	+ 8.7	
21	Aug. 6.1	5	31	-77	4	-22	1	10	170.7	+ 7.4	
22	July 30.1	3	Aug. 1	+35	3	+57	4	18	263.9	+20.3	
23	Aug. 2.5	3	2	+ 1	4	+29	1	10	218.9	+21.9	
24	8.06	13	2	-73	14	+84	75	458	145.2	+20.8	
18825	5.20	5	3	-23	7	+26	7	35	183.1	+34.0	
26	6.24	9	3	-34	11	+68	10	48	169.2	+40.9	
27	9.16	12	3	-76	14	+68	35	227	130.7	-11.0	
28	9.6	3	4	-66	6	-43	4	11	125.1	-21.3	1824 (2)
29	3.6	5	5	+24	9	+75	59	331	203.9	+24.2	1829 (1)
18830	4.7	7	5	+10	11	+83	38	268	189.0	+24.1	1830 (1)
31	10.5	2	5	-69	6	-56	2	12	112.2	-26.6	
32	11.50	13	5	-78	17	+72	41	257	99.7	-23.5	
33	11.69	10	5	-84	14	+34	10	46	97.2	+17.1	1821 (3)
34	2.6	3	6	+47	8	+77	8	45	216.9	+24.2	
18835	12.38	13	6	-78	18	+82	147	876	88.0	-13.0	1831 (1)
36	6.1	4/5	7	+17	11	+70	2	10	170.5	- 9.4	
37	7.1	5	7	+ 3	11	+59	21	105	158.4	-12.7	
38	6.8	3	8	+21	10	+50	5	30	162.5	+19.6	
39	7.4	5	9	+26	13	+76	44	237	154.1	-21.9	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbrae	Whole Spots	Long.	Lat.	
	1958	d	1958	o	1958	o			o	o	
18840	Aug. 10.79	8	Aug. 9	-19	Aug. 16	+74	51	261	109.1	-23.5	1832 (1)
41	10.96	5	9	-25	13	+34	6	31	106.8	- 5.7	
42	11.94	5	9	-35	13	+17	7	30	93.8	-13.4	
43	14.29	11	9	-58	19	+60	8	40	62.9	+45.0	
44	15.46	9	9	-84	17	+26	18	99	47.3	+15.6	
18845	12.46	9	10	-22	18	+80	19	135	87.0	-25.6	
46	16.3	5	10	-76	14	-27	3	24	35.8	+15.8	
47	16.4	5	10	-77	14	-27	1	16	34.9	+ 3.5	
48	13.0	3	13	+ 5	15	+32	5	25	79.6	-24.7	
49	11.7	2	15	+51	16	+62	11	58	96.9	-14.6	
18850	13.4	5	15	+26	19	+79	11	42	74.2	- 8.1	1833 (1)
51	14.4	2	15	+16	16	+26	2	13	61.2	+ 8.6	
52	15.0	3	15	+ 9	17	+31	3	14	53.8	-25.4	
53	18.54	10	15	-41	24	+76	34	193	6.6	-12.2	
54	19.7	5	15	-54	19	- 3	6	29	350.8	+ 9.4	
18855	21.66	13	15	-78	27	+74	45	260	325.3	-14.5	1822 (3)
56	21.69	8	15	-79	22	+10	7	36	325.0	+ 6.2	
57	21.89	14	15	-81	28	+83	137	1072	322.4	+17.6	1825 (2)
58	18.65	6	16	-30	21	+36	10	32	5.1	+23.4	
59	13.8	2	17	+47	18	+64	0	8	69.4	+ 8.4	
18860	15.6	3	17	+24	19	+50	3	13	46.1	-11.3	
61	23.99	7	18	-70	24	+ 4	11	57	294.7	+20.4	
62	23.98	12	18	-74	29	+76	33	229	294.7	-17.7	
63	23.5	2	20	-38	21	-27	1	10	301.6	-20.0	
64	25.94	9	20	-74	28	+33	23	133	268.8	+ 8.7	
18865	26.4	4	20	-76	23	-40	5	18	263.2	+17.9	1827 (2)
66	26.99	12	20	-84	31	+58	10	68	254.9	+ 9.6	
67	27.60	8	21	-81	28	+ 8	11	61	246.9	- 7.9	
68	18.1	2	22	+56	23	+68	2	13	11.8	+26.0	
69	23.0	6	24	+17	29	+77	103	595	307.2	+21.1	
18870	30.35	13	24	-78	Sept. 5	+78	38	228	210.6	- 9.8	1828 (2)
71	31.54	13	25	-76	6	+78	37	222	194.9	+26.6	1829 (2)
72	31.08	11	26	-66	5	+70	115	676	200.9	- 6.8	1834 (1)
73	Sept. 1.0	4	26	-74	Aug. 29	-34	3	18	189.0	+29.4	1835 (1)
74	Aug. 23.0	2	27	+55	28	+72	4	22	307.2	-15.9	
18875	31.58	11	27	-59	Sept. 6	+80	73	472	194.4	+14.8	
76	Sept. 1.7	2	27	-71	Aug. 28	-58	4	26	179.4	-11.8	
77	Aug. 28.0	2	28	+ 4	29	+18	1	8	241.4	+10.8	
78	28.53	2	28	- 3	29	+11	5	34	234.6	- 4.6	
79	Sept. 1.84	11	28	-58	Sept. 7	+73	22	124	177.7	+27.3	
18880	2.70	9	28	-70	5	+34	11	53	166.3	-18.7	
81	3.64	8	28	-80	4	+ 8	6	36	153.9	+17.5	
82	Aug. 31.94	9	29	-37	6	+78	77	476	189.6	- 9.1	
83	Sept. 2.1	3	30	-32	1	-11	3	14	174.0	-23.3	
84	2.40	10	30	-36	8	+75	19	104	170.3	+35.2	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	o	1958	o			o	o	
18885	Sept. 5.62	6	Sept. 1	-56	Sept. 6	+12	10	54	127.8	+11.7	
86	6.8	4	1	-72	4	-32	11	59	111.8	-17.7	
87	7.2	6	1	-75	6	-10	9	44	106.8	-26.0	1832 (2)
88	7.74	11	2	-71	12	+64	15	94	99.7	-13.8	
89	8.70	13	2	-79	14	+80	57	382	87.1	-14.5	1831 (2)
18890	8.75	12	3	-73	14	+79	85	555	86.4	-8.0	
91	9.75	12	3	-82	14	+62	49	254	73.2	+18.7	
92	9.72	9	3	-83	11	+22	6	36	73.6	-7.4	1833 (2)
93	3.8	4	5	+18	8	+62	12	55	152.0	+8.4	
94	2.9	3	6	+49	8	+72	26	159	164.3	-8.4	
18895	7.94	7/8	6	-19	13	+75	14	84	97.1	+9.3	
96	12.76	11	6	-77	16	+51	46	313	33.4	+21.3	
97	14.52	13	8	-76	20	+76	49	256	10.2	-10.6	
98	11.11	4	9	-24	12	+16	6	38	55.3	+10.0	
99	14.6	2	9	-70	10	-56	2	12	8.6	+15.8	
18900	13.45	8/9	10	-41	18	+64	11	55	24.4	-21.9	
01	14.77	6	10	-58	15	+9	4	20	6.9	+12.0	
02	14.8	2	10	-58	11	-45	5	12	6.8	-24.6	
03	15.08	8/9	10	-64	18	+45	4	16	2.9	-7.9	
04	16.63	13	10	-78	22	+70	47	261	342.3	-34.3	
18905	16.54	13	10	-80	22	+72	38	235	343.5	-29.6	
06	16.56	13	10	-82	22	+76	29	155	343.4	+14.0	
07	12.04	7	11	-10	17	+68	9	54	43.0	-9.2	
08	16.8	4	11	-71	14	-31	4	15	339.5	+33.1	
09	17.36	13	11	-75	23	+80	43	262	332.8	+16.1	
18910	17.2	3	11	-78	13	-47	3	36	334.8	-11.9	
11	18.16	13	12	-76	24	+76	86	464	321.9	-15.1	1822 (4)
12	19.59	13	13	-78	25	+76	217	1289	303.4	-17.5	1835 (2)
13	14.1	2	14	+7	15	+18	1	20	15.8	+13.6	
14	20.22	13	14	-75	26	+82	33	209	295.0	+22.9	
18915	12.4	3	15	+38	17	+66	4	27	37.6	+35.6	
16	13.5	2	15	+25	16	+40	0	18	23.4	-10.2	
17	18.5	2	16	-25	17	-17	0	14	317.3	+19.7	
18	21.3	2	17	-53	18	-40	4	14	280.2	+7.0	
19	22.59	8	17	-74	24	+24	15	86	263.7	+11.1	
18920	21.4	2	18	-41	19	-24	2	11	279.4	-18.5	
21	23.4	3	20	-36	22	-15	3	18	252.9	+14.3	
22	26.64	13	20	-79	Oct. 2	+77	19	107	210.3	-7.5	1828 (3)
23	26.96	13	20	-85	2	+73	75	394	206.0	-5.0	1834 (2)
24	22.2	2	22	+2	Sept. 23	+16	4	16	269.2	+29.8	
18925	28.29	13	22	-77	Oct. 4	+79	101	584	188.4	-18.1	1836 (1)
26	24.33	8	23	-9	Sept. 30	+77	34	180	240.8	+31.2	
27	24.97	5	23	-22	27	+33	5	23	232.3	-11.3	
28	27.8	2	23	-59	24	-47	3	9	194.6	+36.4	
29	28.94	13	23	-77	Oct. 5	+85	33	170	179.9	+18.2	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbrae	Whole Spots	Long.	Lat.	
			1958	°	1958	°			°	°	
18930	1958 Sept. 29. 6	7	1958 Sept. 23	-83	1958 Sept. 29	- 1	9	62	171. 5	- 5. 9	
31	29. 98	13	23	-83	Oct. 5	+72	82	478	166. 2	-10. 6	
32	29. 58	8	24	-69	1	+23	19	90	171. 5	-22. 5	
33	30. 67	10	26	-60	5	+65	26	138	157. 1	+ 7. 9	
34	Oct. 1. 9	4	26	-72	Sept. 29	-31	9	52	140. 9	-14. 6	
18935	Sept. 25. 3	4	27	+26	30	+69	6	32	227. 5	+13. 6	
36	28. 68	7	27	-19	Oct. 3	+63	8	34	183. 3	-10. 6	
37	Oct. 1. 31	11	27	-53	7	+76	67	362	148. 6	+28. 9	1837 (1)
38	3. 93	10	29	-57	8	+60	6	38	114. 1	-14. 4	
39	5. 33	9	29	-73	7	+24	8	51	95. 6	- 8. 8	
18940	5. 7	5	30	-68	4	-18	14	71	90. 5	-15. 3	1831 (3)
41	6. 0	5	30	-73	4	-19	11	49	87. 4	+18. 1	
42	6. 5	2	30	-80	1	-69	2	26	79. 8	+21. 2	
43	Sept. 28. 7	2	Oct. 1	+34	2	+51	0	3	182. 6	+ 5. 4	
44	29. 8	5	1	+18	5	+76	33	262	168. 1	+ 2. 3	
18945	30. 8	2	2	+22	3	+36	4	22	155. 5	-12. 0	
46	Oct. 4. 55	7	2	-28	8	+53	13	76	105. 9	+11. 6	
47	4. 57	7	3	-17	9	+68	10	56	105. 6	- 5. 4	
48	4. 84	3	3	-19	5	+ 8	1	11	102. 1	-14. 7	
49	9. 52	12	3	-81	14	+64	15	112	40. 3	+16. 4	
18950	10. 01	8	3	-85	10	+ 3	17	96	33. 8	+21. 6	
51	10. 63	12	4	-84	15	+64	35	209	25. 7	+13. 2	
52	1. 3	2	5	+53	6	+67	5	22	148. 6	-12. 1	
53	5. 2	6	5	+ 2	10	+68	11	72	97. 6	+ 9. 0	
54	8. 0	4	9	+20	12	+57	7	39	59. 9	-14. 9	
18955	13. 0	4	9	-46	12	-10	4	31	354. 0	+ 6. 0	
56	14. 5	3	9	-66	11	-40	1	10	335. 1	+19. 4	
57	16. 42	12	10	-80	21	+66	34	222	309. 3	-14. 7	
58	14. 01	7	11	-37	17	+47	9	50	341. 1	-10. 2	
59	17. 21	13	11	-72	23	+82	102	592	298. 9	-29. 0	1838 (1)
18960	17. 41	13	11	-76	23	+78	40	232	296. 2	+25. 0	
61	17. 22	13	11	-77	23	+81	30	189	298. 8	-18. 7	1835 (3)
62	13. 66	5	12	-12	16	+30	4	19	345. 7	-23. 8	
63	17. 72	7/9	13	-58	21	+50	3	12	292. 1	+13. 4	
64	20. 36	13	14	-80	26	+80	121	935	257. 3	- 3. 8	
18965	12. 9	4	15	+31	18	+73	39	242	355. 5	-13. 1	
66	15. 2	7	15	+ 1	21	+82	24	157	325. 9	- 8. 6	
67	17. 80	7/9	15	-34	23	+76	4	21	291. 1	- 3. 6	
68	13. 2	2	16	+41	17	+55	9	34	351. 2	+33. 8	
69	18. 38	9	16	-26	24	+81	82	584	283. 4	+20. 1	
18970	22. 39	13	16	-76	28	+76	141	882	230. 5	- 9. 4	
71	16. 7	4	18	+22	21	+63	8	33	305. 5	-25. 9	
72	24. 23	12	18	-77	29	+68	13	63	206. 2	- 6. 8	1834 (3)
73	22. 42	10	19	-40	28	+80	22	124	230. 2	-14. 0	
74	25. 46	8	19	-81	26	+11	6	50	190. 0	+17. 8	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	o	1958	o			o	o	
18975	Oct. 26.12	12	Oct. 20	-70	Oct. 31	+67	21	117	181.4	-19.7	1836 (2)
76	26.7	2	20	-80	21	-70	3	11	173.8	-7.4	
77	18.7	3	21	+36	23	+65	11	50	279.4	-9.3	
78	23.01	7	21	-20	27	+57	6	41	222.4	+14.4	
79	23.1	3	23	+4	25	+30	8	21	220.7	-0.5	
18980	27.6	4	23	-53	26	-15	7	30	162.3	-32.0	1837 (2)
81	29.21	10	23	-75	Nov. 1	+41	15	83	140.6	-15.7	
82	29.4	7	23	-76	Oct. 29	-3	10	51	138.4	+29.9	
83	25.96	4	24	-20	27	+17	14	80	183.5	+6.8	
84	30.53	13	24	-79	Nov. 5	+76	54	403	123.1	-13.7	
18985	27.0	2	25	-21	Oct. 26	-8	5	44	170.4	-6.2	1839 (1)
86	Nov. 1.29	11	27	-60	Nov. 6	+65	15	100	100.0	+37.1	
87	2.18	12	27	-75	7	+70	32	185	88.3	-11.0	
88	Oct. 25.4	4	28	+40	Oct. 31	+78	43	305	190.6	+7.5	
89	26.4	5	28	+27	Nov. 1	+78	18	120	177.2	-4.5	
18990	28.61	2/3	28	-2	Oct. 30	+23	1	7	148.6	-14.4	1840 (1)
91	Nov. 2.2	2	28	-62	29	-50	5	18	88.6	-35.8	
92	2.5	4	28	-66	31	-28	4	14	84.0	+15.0	
93	3.4	5	28	-76	Nov. 1	-30	18	90	72.5	+42.4	
94	3.32	13	28	-77	9	+80	65	455	73.2	+8.0	
18995	3.43	13	28	-79	9	+77	129	761	71.8	-16.1	1840 (1)
96	3.58	7/8	28	-81	4	+10	2	12	69.8	-6.8	
97	Oct. 30.05	2	29	-9	Oct. 30	+4	3	14	129.5	-19.4	
98	Nov. 4.29	7/9	29	-77	Nov. 6	+26	4	22	60.4	-15.5	
99	5.06	7	30	-72	5	+2	16	91	50.3	+15.5	
19000	3.7	2	31	-42	1	-31	8	34	68.8	+19.8	1841 (1)
01	Oct. 31.8	3	Nov. 1	+8	3	+37	6	31	107.1	+11.0	
02	Nov. 2.06	2	1	-8	2	+3	4	14	89.8	+11.0	
03	Oct. 30.8	3	2	+31	4	+60	9	45	119.6	+12.0	
04	Nov. 2.97	8	2	-10	9	+76	47	316	77.9	+38.4	
19005	6.6	3	3	-44	5	-15	9	37	29.9	+10.1	1842 (1)
06	9.69	8	3	-78	10	+6	14	109	349.2	+34.2	
07	5.0	2	7	+31	8	+46	2	9	50.6	+23.1	
08	5.7	3	7	+24	9	+48	14	72	42.0	+15.2	
09	6.6	4/5	7	+8	11	+70	11	92	30.4	+10.8	
19010	7.65	2	7	-4	8	+12	0	4	16.1	-9.6	1838 (2)
11	14.13	9	8	-73	16	+28	11	56	290.7	-29.8	
12	14.0	6	8	-75	13	-7	7	34	292.2	+20.2	
13	15.3	4	9	-79	12	-37	1	14	274.6	+24.9	
14	13.3	3	10	-39	12	-9	3	16	302.1	-19.1	
19015	15.99	7	10	-75	16	+8	15	87	266.2	-2.9	1842 (1)
16	10.2	2	12	+30	13	+42	10	64	341.9	+12.7	
17	17.7	5	12	-69	16	-17	3	18	243.7	-9.3	
18	17.8	3	12	-71	14	-42	8	45	242.0	-14.1	
19	13.0	6	13	+3	18	+79	8	33	306.1	-9.1	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958	d	1958	°	1958	°			°	°	
19020	Nov. 10.5	2	Nov. 14	+52	Nov. 15	+66	8	25	338.6	+ 5.8	
21	18.0	2	14	-47	15	-34	2	24	239.2	- 6.8	
22	18.39	7	15	-36	21	+35	16	68	234.6	+21.1	
23	21.09	12	15	-76	26	+71	20	112	199.0	+ 6.2	
24	15.4	4	16	+14	19	+54	4	31	274.5	+15.4	
19025	17.82	5	16	-18	20	+36	3	32	242.1	- 5.1	
26	19.19	2	18	- 7	19	+ 1	0	6	224.0	-10.9	
27	22.3	2	18	-49	19	-38	0	4	183.2	+16.0	
28	24.62	11	18	-78	28	+51	40	253	152.4	-12.2	
29	22.05	7	19	-36	25	+43	16	113	186.3	- 4.4	
19030	25.14	11	19	-75	29	+53	27	129	145.6	+17.1	
31	23.67	10	20	-42	29	+72	90	606	164.9	-10.0	
32	25.5	5/6	20	-67	25	- 2	1	14	140.6	-14.2	
33	26.1	2	20	-75	21	-62	0	14	132.5	+ 8.0	
34	26.86	13	20	-81	Dec. 2	+73	11	63	122.9	-25.3	
19035	27.98	12	22	-79	3	+74	39	251	108.1	-14.4	
36	26.35	9	24	-25	2	+76	120	685	129.6	+20.0	
37	29.24	7	24	-63	Nov. 30	+16	18	107	91.5	+34.2	1839 (2)
38	29.23	6	24	-66	29	+ 4	10	53	91.6	+11.3	
39	29.71	10	24	-72	Dec. 3	+50	19	102	85.3	-15.6	
19040	30.60	14	24	-79	7	+81	159	1123	73.6	-16.0	1840 (2)
41	29.13	9	25	-52	3	+56	34	208	93.0	+15.7	
42	30.2	3	25	-66	Nov. 27	-37	2	8	78.3	+ 4.5	
43	Dec. 1.4	7	25	-78	Dec. 1	- 2	10	52	63.3	+40.3	1841 (2)
44	Nov. 26.90	3	26	- 8	Nov. 28	+22	2	14	122.4	+28.5	
19045	Dec. 2.05	11	27	-65	Dec. 7	+72	20	132	54.5	+14.5	1843 (1)
No group number 19046											
47	Nov. 29.71	7	28	-18	4	+65	19	126	85.3	+ 6.7	
48	Dec. 3.8	4	28	-70	1	-31	8	40	31.0	+18.2	
49	4.04	10	28	-75	7	+44	32	221	28.2	- 8.4	
19050	Nov. 27.7	3	30	+38	2	+63	4	26	111.3	+12.4	1844 (1)
51	Dec. 2.80	8	30	-28	7	+61	23	130	44.6	+11.3	
52	6.40	13	30	-75	12	+77	41	261	357.2	-20.8	
53	4.31	10	Dec. 1	-37	10	+77	77	489	24.8	+ 8.2	
54	5.37	9	2	-39	10	+74	13	58	10.8	+ 3.4	
19055	8.1	3	2	-73	4	-46	6	21	335.4	+12.9	
56	8.3	6	2	-75	7	-13	12	69	332.4	-12.9	
57	9.66	13	3	-79	15	+78	71	507	314.2	+14.1	
58	5.39	8	4	-15	11	+78	99	587	10.5	- 6.5	
59	9.65	8	4	-68	11	+25	12	60	314.3	- 8.5	1842 (2)
19060	11.17	12	5	-77	16	+71	32	168	294.3	- 2.8	
61	12.03	13	6	-72	18	+82	112	710	283.0	- 1.3	
62	12.10	13	6	-74	18	+82	86	675	282.0	- 6.7	1845 (1)
63	12.39	8	6	-78	13	+11	8	53	278.2	+ 9.8	
64	9.46	8	8	-12	15	+75	11	69	316.9	-13.6	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Dura- tion	First Seen		Last Seen		Corrected Mean Area		Mean Position		Reference
			Date	Long. from C.M.	Date	Long. from C.M.	Umbræ	Whole Spots	Long.	Lat.	
	1958-59	d	1958	o	1958-59	o			o	o	
19065	Dec. 11.58	5	Dec. 8	-41	Dec. 12	+11	12	61	288.9	-29.9	
66	13.43	10	8	-65	17	+53	74	499	264.6	-18.6	
67	9.56	2	9	-1	10	+10	4	26	315.6	-19.0	
68	11.26	6	9	-28	14	+44	6	30	293.1	+27.2	
69	15.07	10	9	-73	18	+43	18	123	242.9	+9.8	
19070	13.3	4	10	-39	13	0	10	78	265.7	-14.5	
71	15.16	10	10	-64	19	+56	16	81	241.8	+6.7	
72	17.20	13	11	-74	23	+78	71	489	214.9	+21.7	1846 (1)
73	18.9	2	14	-60	15	-48	6	24	192.3	+15.2	
74	19.70	5/8	14	-70	21	+21	3	19	182.0	+17.0	
19075	15.5	2	17	+28	18	+39	4	22	237.0	-19.9	
76	21.57	7	17	-53	23	+28	32	191	157.4	-15.9	
77	23.34	13	17	-72	29	+78	45	229	134.0	+19.1	1847 (1)
78	24.73	8	18	-81	25	+6	14	79	115.7	-22.7	
79	15.5	2	20	+64	21	+79	2	15	237.0	-17.1	
19080	24.84	10/11	20	-62	30	+78	13	87	114.2	+13.0	1844 (2)
81	27.05	14	20	-84	Jan. 2	+83	38	211	85.1	-19.1	
82	22.37	8	21	-13	Dec. 28	+76	14	95	146.8	+9.0	
83	27.89	14	21	-81	Jan. 3	+82	138	1018	74.1	-16.0	1840 (3)
84	28.52	13	22	-79	Jan. 3	+75	48	334	65.8	+13.2	
19085	25.58	6/7	23	-26	Dec. 29	+51	11	82	104.5	+10.0	
86	28.88	7	23	-70	29	+7	6	38	61.0	-21.9	
87	29.13	8	23	-72	30	+18	13	88	57.7	+13.8	1843 (2)
88	29.84	13	23	-76	Jan. 4	+78	28	174	48.4	+18.8	
89	30.67	13	24	-77	5	+74	41	221	37.5	+7.3	
19090	Jan. 1.10	13	26	-77	7	+82	33	168	18.6	-4.3	
91	Dec. 24.2	2	28	+55	Dec. 29	+68	2	18	122.8	+8.9	
92	26.2	2	30	+55	31	+69	2	18	96.6	+10.6	
93	26.9	3	30	+47	Jan. 1	+74	26	150	87.7	+18.1	1848 (1)
94	Jan. 3.97	12	30	-57	10	+77	16	92	340.8	+21.2	
19095	4.0	5	30	-61	3	-9	5	25	340.3	-18.7	
96	4.05	8	31	-49	7	+44	20	120	339.8	-14.5	

GENERAL CATALOGUE OF SUNSPOTS

SUNSPOTS SEEN ON ONE DAY ONLY

The groups of sunspots tabulated below were seen on one day only and appear in the *Daily Results* with a distinctive numeration, comprising the number of the rotation during which each was observed and a letter given in order of appearance. These short-lived groups are usually composed of one or two very small spots. The deduced time of central meridian passage of each spot is given in the fourth column of the table.

Number of Group	Date	Longitude from Central Meridian	U.T. of Central Meridian Passage	Area Corrected for Fore- shortening		Position of Group	
				Umbræ	Whole Spots	Longi- tude	Lati- tude
	1958	°	1958			°	°
1395j	Jan. 7	-52.4	Jan. 11.4	0	5	19.9	+11.8
k	9	-10.2	10.2	1	7	36.0	+ 3.4
l	10	+12.2	9.4	1	3	47.4	-11.3
m	10	-51.6	14.2	5	11	343.6	-15.0
n	11	+ 1.9	11.3	4	16	22.4	+11.8
o	12	-43.9	15.7	1	5	323.4	-20.5
1396a	Jan. 13	-71.1	Jan. 18.9	0	3	282.1	-23.5
b	14	- 6.6	15.1	4	21	332.2	-16.1
c	18	+57.5	14.0	2	22	346.1	-12.3
d	18	+54.4	14.2	0	19	343.0	-17.8
e	18	-37.2	21.2	0	3	251.4	+22.3
f	20	+46.4	17.0	0	3	306.2	+18.8
g	22	+52.6	18.4	8	15	288.3	+14.4
h	22	-19.5	23.9	5	13	216.2	- 8.3
i	23	+32.4	20.9	1	6	254.8	-23.8
j	28	+66.3	23.4	0	5	222.5	-13.9
k	29	+22.9	27.5	2	15	168.0	-13.6
l	Feb. 1	+ 5.0	Feb. 1.1	1	4	107.6	+ 5.5
m	2	+65.9	Jan. 28.4	7	38	156.8	-17.1
n	3	+ 5.1	Feb. 3.2	2	15	80.4	+11.7
o	3	- 6.2	4.1	5	11	69.1	-19.9
p	3	-12.0	4.5	2	12	63.3	+ 7.3
q	5	+ 6.6	5.1	1	5	55.6	+19.6
r	5	- 2.4	5.8	3	19	46.6	+11.5
s	7	- 2.0	7.4	3	14	24.4	-14.1
t	7	-42.3	10.5	2	8	344.1	+18.8
u	7	-59.6	11.8	2	13	326.8	-14.5
1397a	Feb. 9	+67.0	Feb. 4.4	6	45	64.4	+ 6.4
b	10	- 3.0	10.6	2	8	342.5	+16.1
c	16	+ 8.3	16.0	1	8	272.0	+ 7.0
d	18	-37.0	21.4	1	7	200.2	-14.1
e	25	+28.9	23.1	1	9	178.3	+22.5
f	27	+28.5	25.4	1	5	148.6	+11.8
g	27	-34.1	Mar. 2.1	2	12	86.0	- 3.8
h	27	-62.2	4.2	0	2	57.9	-15.2
i	Mar. 1	+28.9	Feb. 27.4	1	2	122.3	-14.7
j	5	-11.0	Mar. 6.3	2	14	30.7	-16.5
k	6	+70.1	1.3	6	32	96.4	- 5.3
1398a	Mar. 14	-31.2	Mar. 16.9	3	17	251.6	+18.2
b	15	-15.8	16.7	3	15	253.2	+ 5.7

GENERAL CATALOGUE OF SUNSPOTS

SUNSPOTS SEEN ON ONE DAY ONLY

Number of Group	Date	Longitude from Central Meridian	U.T. of Central Meridian Passage	Area Corrected for Fore- shortening		Position of Group	
				Umbrae	Whole Spots	Longi- tude	Lati- tude
	1958	°	1958			°	°
1398c	Mar. 16	-61.3	Mar. 21.1	3	19	195.3	+38.8
d	17	+69.0	12.1	0	15	313.6	+16.7
e	21	+55.5	17.2	2	3	247.6	-15.4
f	29	+42.6	26.2	3	10	127.9	+18.1
g	31	-41.6	Apr. 3.5	2	22	19.2	-25.8
h	Apr. 2	+59.0	Mar. 28.9	2	15	93.0	+20.5
i	2	-36.0	Apr. 5.1	7	29	358.0	+27.6
j	2	-67.8	7.5	3	13	326.2	+ 9.7
1399a	Apr. 5	+49.4	Apr. 1.9	2	14	40.5	-10.5
b	6	+ 1.5	6.3	2	13	342.7	+21.2
c	9	-57.7	13.8	2	7	243.5	+ 9.9
d	11	+54.3	7.4	10	34	327.9	+29.3
e	13	+36.4	10.8	2	20	282.4	+40.4
f	13	+ 1.7	13.4	1	15	247.7	+11.7
g	13	+ 1.4	13.5	1	7	247.4	+ 5.7
h	13	- 6.1	14.0	1	4	239.9	+ 9.0
i	14	+ 3.0	14.4	0	4	235.2	+15.9
j	14	- 8.5	15.3	0	5	223.7	+ 2.9
k	16	+78.8	10.4	6	55	287.9	+13.2
l	19	+19.2	18.1	0	5	186.0	-16.9
m	21	+72.0	15.9	0	6	215.9	-15.1
n	21	+ 2.2	21.1	4	22	146.1	+12.4
o	22	-22.1	24.1	0	8	107.5	+12.6
p	23	+52.9	19.4	0	10	169.5	+22.4
q	23	+31.9	21.0	3	7	148.5	+11.7
r	23	- 9.1	24.1	1	5	107.5	- 9.7
s	23	-58.9	27.8	0	5	57.7	- 9.0
t	24	+66.9	19.3	0	11	170.2	+27.1
u	24	+20.3	22.8	4	13	123.6	- 9.7
v	26	+76.2	20.9	4	45	149.4	+ 9.1
w	26	+17.4	25.3	1	11	90.6	-28.8
x	26	+15.3	25.5	1	8	88.5	-10.5
y	26	-35.6	29.4	1	5	37.6	+25.1
z	26	-57.0	May 1.0	0	7	16.2	-22.0
α	27	+ 6.4	Apr. 27.1	1	3	67.7	+ 9.7
β	27	-14.4	28.6	1	4	46.9	+11.9
γ	29	- 4.3	29.7	0	4	33.6	-22.8
δ	30	+78.1	24.4	0	25	103.0	-25.9
ε	30	+ 7.0	29.8	1	12	31.9	-24.0
ζ	May 1	+18.2	Apr. 29.9	1	8	29.9	+10.8
η	1	-35.8	May 4.0	1	6	335.9	+16.0
1400a	May 4	+12.0	May 3.7	0	11	340.7	-10.4
b	4	-42.8	7.8	2	18	285.9	+23.7
c	5	+58.7	1.1	2	30	14.3	+11.6
d	9	+13.0	8.3	6	24	278.7	+29.9
e	9	-48.7	13.0	2	9	217.0	+10.0
f	11	-29.8	13.8	3	16	206.5	+12.5
g	12	-67.3	17.4	2	17	159.0	-25.9

GENERAL CATALOGUE OF SUNSPOTS

SUNSPOTS SEEN ON ONE DAY ONLY

Number of Group	Date	Longitude from Central Meridian	U.T. of Central Meridian Passage	Area Corrected for Fore- shortening		Position of Group	
				Umbræ	Whole Spots	Longi- tude	Lati- tude
	1958	o	1958			o	o
1400h	May 18	+64.0	May 13.7	0	10	207.5	- 7.9
i	18	-49.2	22.3	2	11	94.3	+ 9.0
j	19	-16.0	20.8	1	17	113.7	+22.4
k	21	- 8.3	22.0	0	3	98.0	-17.3
l	21	-33.5	23.9	3	15	72.8	+17.2
m	22	- 1.8	22.6	0	4	90.3	-13.9
n	25	-41.5	28.7	1	10	9.3	+16.3
o	26	+ 2.5	26.4	0	9	39.3	+24.1
p	26	-17.6	28.0	3	15	19.2	-28.0
q	26	-33.3	29.2	0	3	3.5	-14.5
r	28	+21.0	26.7	2	15	35.2	+25.9
s	28	-18.1	29.7	0	3	356.1	+16.7
t	29	-70.1	June 3.4	0	6	294.2	-14.5
1401a	May 30	-22.3	June 1.1	0	4	324.9	+23.6
b	31	-53.9	4.4	0	4	280.8	- 5.3
c	31	-76.6	6.1	0	33	258.1	+20.4
d	June 1	-23.1	3.4	1	9	294.2	+27.3
e	3	+ 0.3	3.5	1	5	293.3	-15.4
f	3	-36.8	6.3	7	27	256.2	+16.7
g	3	-67.6	8.6	0	8	225.4	-15.4
h	4	+51.7	May 31.8	0	18	329.0	-36.6
i	5	0.0	June 5.3	1	13	268.9	+ 9.7
j	7	+29.2	5.4	0	4	268.1	+10.1
k	7	-70.8	12.9	0	8	168.1	+12.2
l	9	+60.6	4.7	2	18	276.3	+20.7
m	10	+69.3	5.2	4	13	270.2	+39.8
n	11	+14.4	10.3	1	13	203.1	+35.6
o	12	-68.4	17.7	0	6	105.2	+29.9
p	13	-14.0	14.4	1	5	148.7	+18.2
q	14	-23.0	16.3	3	21	123.4	-24.9
r	17	+52.8	13.4	2	16	162.0	+22.3
s	18	-17.8	19.7	0	3	78.7	+ 7.5
t	23	+38.1	20.5	1	3	67.7	+24.5
u	24	-35.0	26.9	1	8	342.4	-25.9
1402a	June 26	- 7.4	June 26.9	0	5	343.3	+26.5
b	26	-46.5	29.8	4	16	304.2	+20.8
c	27	+63.7	22.5	2	5	40.9	+22.4
d	28	- 8.5	29.0	2	10	315.0	+ 4.0
e	29	- 6.9	30.1	0	5	300.9	- 6.9
f	29	-41.3	July 2.7	0	9	266.5	+23.2
g	July 1	+61.9	June 26.7	2	16	346.2	-26.1
h	2	+29.1	30.2	2	13	299.7	+16.0
i	2	- 4.5	July 2.7	1	5	266.1	+24.5
j	4	+12.0	3.4	1	4	256.7	-15.5
k	6	+ 2.7	6.1	2	5	220.7	+20.7
l	7	- 6.9	8.0	1	7	196.4	+21.0
m	7	-56.5	11.7	0	7	146.8	+25.6

GENERAL CATALOGUE OF SUNSPOTS

SUNSPOTS SEEN ON ONE DAY ONLY

Number of Group	Date	Longitude from Central Meridian	U.T. of Central Meridian Passage	Area Corrected for Fore- shortening		Position of Group	
				Umbræ	Whole Spots	Longi- tude	Lati- tude
	1958	°	1958			°	°
1402n	July 8	+ 3.5	July 8.2	0	5	193.7	+16.6
o	10	+60.4	5.7	0	7	226.0	-12.7
p	10	+53.8	6.2	0	6	219.4	- 7.8
q	10	+19.5	8.8	0	7	185.1	+31.0
r	12	+24.4	10.8	3	19	159.4	- 9.3
s	12	+ 9.7	11.9	1	5	144.7	-11.1
t	12	-54.0	16.7	2	4	81.0	+11.1
u	14	+ 3.3	14.1	1	7	115.9	- 8.6
v	15	+24.4	13.5	0	5	123.6	-13.8
w	16	-64.3	21.4	2	8	18.6	+ 5.1
x	20	- 8.3	21.3	3	12	20.7	+ 5.6
1403a	July 25	-22.5	July 27.1	1	27	303.1	+ 3.9
b	29	+66.2	24.4	9	39	339.6	- 6.0
c	29	-30.5	31.7	1	9	242.9	+10.2
d	30	- 3.9	30.6	1	12	256.4	+10.3
e	31	+44.0	28.0	4	18	291.7	-21.8
f	Aug. 1	+ 3.7	Aug. 1.4	1	5	233.6	- 6.7
g	1	-27.8	3.8	1	7	202.1	-27.3
h	3	- 2.2	3.6	1	8	204.0	+26.4
i	14	- 1.5	14.4	1	5	60.8	-16.9
j	15	+42.8	12.4	1	6	88.0	+ 7.6
k	15	- 0.1	15.6	1	6	45.1	-12.1
l	16	+21.2	14.8	0	8	56.7	+12.3
m	16	- 2.7	16.6	1	8	32.8	+21.0
1404a	Aug. 20	+14.9	Aug. 19.5	1	10	353.7	-33.4
b	20	-57.8	25.0	0	7	281.0	+27.3
c	23	+41.8	20.2	1	9	345.2	+22.9
d	23	-17.4	24.6	5	27	286.0	+ 9.2
e	25	+74.4	20.0	15	103	347.7	-31.1
f	25	+ 0.9	25.5	1	5	274.2	-19.6
g	25	-43.9	28.9	0	4	229.4	-10.4
h	27	- 7.8	27.9	4	26	242.6	+13.1
i	30	+46.3	27.1	4	14	253.7	+ 6.1
j	Sept. 8	+41.1	Sept. 5.2	1	9	132.9	+12.2
k	8	-75.4	14.1	0	13	16.4	+10.7
l	11	-27.8	13.5	1	9	23.9	- 8.3
m	13	+21.7	11.9	3	20	44.4	+18.0
1405a	Sept. 17	+ 5.2	Sept. 16.9	1	7	338.4	- 8.5
b	18	+25.6	16.4	2	17	345.5	+28.8
c	19	-16.3	20.8	1	9	287.6	-23.6
d	22	-45.8	25.8	0	8	221.1	+25.6
e	23	- 6.2	23.8	0	6	247.7	+15.5
f	26	+36.6	23.7	2	12	249.4	+15.3
g	29	+19.5	28.1	0	3	190.8	+13.5
h	30	+24.5	28.6	1	10	184.0	+22.7

GENERAL CATALOGUE OF SUNSPOTS

SUNSPOTS SEEN ON ONE DAY ONLY

Number of Group	Date		Longitude from Central Meridian	U.T. of Central Meridian Passage	Area Corrected for Fore- shortening		Position of Group	
					Umbræ	Whole Spots	Longi- tude	Lat- itude
	1958		°	1958			°	°
1405i	Oct.	1	+26.5	Sept. 29.3	1	11	175.0	- 6.3
j		1	+26.2	29.3	0	5	174.7	+28.7
k		2	-16.4	Oct. 3.8	1	9	116.2	-19.1
l		6	+14.1	5.3	1	12	96.0	-25.9
m		7	+20.8	5.8	1	4	89.6	-16.5
n		8	+39.5	5.5	1	5	93.8	-14.8
o		12	-10.8	13.2	2	11	351.8	-12.3
p		12	-72.4	17.9	5	25	290.2	-27.1
1406a	Oct.	16	- 8.6	Oct. 17.0	1	5	301.4	-12.5
b		17	+47.5	13.8	7	37	344.1	+22.7
c		17	+39.1	14.4	1	6	335.7	+14.2
d		17	+11.3	16.5	0	4	307.9	+19.0
e		18	- 3.6	18.7	0	4	279.5	+ 9.6
f		21	+12.4	20.5	1	8	254.9	+ 7.4
g		21	-68.6	26.7	5	12	173.7	+ 2.6
h		24	+68.9	19.1	0	15	273.4	+25.2
i		25	-14.0	26.4	2	21	177.5	+23.2
j		31	- 1.8	31.5	1	5	110.4	-20.5
k	Nov.	5	-55.5	Nov. 9.5	2	14	351.7	+20.7
l		8	-51.1	12.4	6	11	314.1	-11.7
m		8	-63.2	13.3	2	8	302.0	- 8.9
1407a	Nov.	11	+ 5.9	Nov. 11.1	2	11	330.9	+14.2
b		12	+67.2	7.4	0	18	19.0	-10.0
c		12	+36.1	9.8	1	8	347.9	-11.1
d		13	+39.0	10.5	3	11	338.8	- 4.1
e		13	- 5.7	13.9	1	5	294.1	-18.8
f		14	+55.9	10.3	0	9	341.2	+28.6
g		15	+15.6	14.2	1	13	289.5	+26.8
h		15	-21.2	17.0	2	10	252.7	+16.4
i		16	+61.2	11.8	8	23	321.8	-12.9
j		16	-29.2	18.6	1	5	231.4	-14.4
k		16	-32.4	18.9	0	2	228.2	- 9.2
l		18	+39.8	15.6	3	10	271.7	- 0.6
m		18	+ 7.7	18.0	2	14	239.6	-10.5
n		18	-30.0	20.9	0	4	201.9	+14.4
o		19	+58.0	15.0	0	4	279.4	- 2.9
p		19	-20.3	20.9	0	2	201.1	+18.7
q		20	+ 1.5	20.3	0	4	209.2	-12.2
r		20	- 3.9	20.7	7	39	203.8	+21.6
s		20	-18.6	21.8	1	7	189.1	-10.6
t	Dec.	1	-22.2	Dec. 3.1	0	4	40.3	-14.4
u		2	+34.1	Nov. 30.0	5	19	81.4	+34.1
v		2	-46.8	Dec. 6.1	2	5	0.5	-13.7
w		3	-14.9	4.4	2	17	23.4	+14.7
x		4	+ 9.5	3.8	0	7	31.8	+17.3
y		4	-20.2	6.0	2	19	2.1	-13.8
z		5	+48.9	1.9	2	7	56.8	+17.5

GENERAL CATALOGUE OF SUNSPOTS

SUNSPOTS SEEN ON ONE DAY ONLY

Number of Group	Date	Longitude from Central Meridian	U.T. of Central Meridian Passage	Area Corrected for Fore- shortening		Position of Group	
				Unbrae	Whole Spots	Longi- tude	Lati- tude
	1958	°	1958			°	°
1408a	Dec. 6	-66.2	Dec. 11.6	3	9	289.2	+19.6
b	16	+22.6	14.7	1	11	248.4	-11.7
c	16	- 1.8	16.5	1	8	224.0	- 6.5
d	19	+19.5	17.9	0	7	205.3	+11.4
e	21	-35.9	24.2	1	4	123.0	+21.9
f	22	-29.7	24.7	3	17	116.0	+25.1
g	24	- 0.1	24.6	4	33	117.5	+ 7.5
h	24	-55.1	28.8	4	15	62.5	+16.8
i	27	+22.9	25.8	4	24	101.8	+24.8
j	27	+ 6.7	27.0	1	7	85.6	-10.2

TOTAL AREAS OF SUNSPOTS AND FACULÆ

Projected and Corrected for Foreshortening for each day

The place where the photograph was taken is indicated in the second column. A photograph taken at Herstmonceux is indicated by the letter H, and those taken at the Cape, Kodaikanal, and Mt. Wilson by the letters C, K, and Mt.W respectively.

The projected area is the area as it is measured on the photograph, uncorrected for foreshortening and expressed in millionths of the Sun's apparent disk.

The area corrected for foreshortening is expressed in millionths of the Sun's visible hemisphere.

The areas of faculæ are given separately for the Sun's western and eastern hemispheres.

TOTAL AREAS OF SUNSPOTS AND FACULÆ FOR EACH DAY IN THE YEAR 1958

Projected Area					Corrected Area				Projected Area					Corrected Area												
Date and Place	Unb.	Whole Spots	Faculae West	East	Unb.	Whole Spots	Faculae West	East	Date and Place	Unb.	Whole Spots	Faculae West	East	Unb.	Whole Spots	Faculae West	East									
JANUARY									MARCH																	
1 H	587	3771	941	1275	485	3106	1331	1637	1 C	260	1991	996	690	383	2973	1225	894									
2 C	713	4236	805	1243	554	3329	1125	1386	2 H	453	2709	1019	581	493	3026	1291	792									
3 H	764	3986	1049	1134	552	2908	1399	1156	3 H	509	3708	537	955	446	3255	655	1130									
4 C	555	3814	1253	657	420	3028	1328	1005	4 H	794	4762	1041	744	548	3293	1206	860									
5 C	532	3571	1181	950	488	3559	1465	1333	5 H	982	6130	759	957	631	3873	910	1161									
6 C	524	3610	846	1117	412	2954	1338	1242	6 H	982	6426	638	583	699	4704	874	830									
7 H	588	3454	873	906	398	2297	1172	1044	7 H	1053	7104	1078	1045	793	5591	1415	1315									
8 H	639	4032	393	580	411	2543	496	839	8 H	1141	5745	748	704	811	4028	967	925									
9 H	609	4151	843	1036	395	2752	1260	1494	9 H	937	5512	572	957	666	3856	692	1245									
10 C	650	4702	1097	1192	448	3234	1269	1605	10 H	701	4179	605	517	540	3200	614	615									
11 H	757	4465	1357	1388	623	3453	1566	1667	11 H	688	4079	1210	770	570	3345	1408	976									
12 H	903	5438	1084	1705	677	4095	1613	2205	12 H	597	3865	2068	858	528	3544	2336	1223									
13 H	1054	6317	799	1026	709	4295	928	1108	13 H	573	3470	935	814	479	2961	1456	981									
14 H	1217	7928	843	908	826	5395	943	1163	14 H	698	4264	1045	913	504	3053	1615	1196									
15 C	893	5887	826	961	582	3969	1010	1221	15 H	676	4087	495	737	460	2801	696	1004									
16 C	1065	6688	533	888	704	4728	717	1246	16 H	584	3842	1210	1452	441	2818	1511	1751									
17 C	916	5204	836	1672	745	4252	1023	2246	17 H	487	4009	807	1448	407	3289	867	1729									
18 H	830	4267	709	608	603	3291	970	871	18 H	461	3566	784	851	417	3704	1101	1089									
19 C	798	4604	971	741	580	3564	1248	873	19 H	563	3958	365	840	425	3049	722	954									
20 H	783	4170	1286	994	573	3094	1559	1277	20 H	934	4737	232	563	657	3266	237	630									
21 H	681	3601	1437	724	532	2759	1762	839	21 H	836	5502	563	254	580	3896	604	388									
22 H	681	3544	586	575	536	2875	766	653	22 H	934	5314	1008	796	780	4311	1164	1273									
23 H	488	2832	771	945	453	2477	1129	1158	23 H	1062	6051	784	928	887	5494	1196	1223									
24 H	469	2778	1204	944	339	2068	1381	1035	24 H	1184	6488	442	874	1021	6005	704	1046									
25 C	407	2626	1003	742	315	2118	1200	966	25 H	1409	7477	810	1221	1109	5913	887	1362									
26 C	541	3031	1220	409	435	2804	1544	552	26 C	1317	8733	785	622	934	6250	887	591									
27 C	615	3195	1255	887	397	2039	1712	1210	27 H	1341	8400	687	178	964	6218	691	315									
28 C	469	2991	857	1076	287	1808	1171	1293	28 H	1608	9713	1165	677	1145	6809	1392	939									
29 C	415	2535	840	987	256	1511	1082	1220	29 H	1489	9910	699	910	1110	7241	931	1386									
30 H	307	1808	916	894	185	1092	1046	991	30 C	1866	10896	419	1173	1312	7753	590	1555									
31 C	405	1828	639	367	293	1426	761	631	31 C	1809	11471	914	1139	1244	8046	1223	1415									
FEBRUARY									APRIL																	
1 H	346	1596	1119	802	280	1456	1364	1155	1 H	1715	10639	1450	1237	1124	7155	1536	1413									
2 C	486	2494	682	1270	458	2265	820	1667	2 H	1505	8452	1203	1161	1008	5939	1513	1520									
3 H	549	2969	1095	1128	450	2456	1600	1251	3 H	1366	7336	992	891	990	5710	1340	1077									
4 C	700	3809	589	872	515	2822	751	1110	4 C	1169	7567	507	691	907	5936	751	866									
5 H	908	4655	738	901	613	3076	1001	990	5 H	1412	7384	479	970	1043	5629	519	1068									
6 C	744	4680	1187	923	487	3078	1603	1085	6 C	1307	7758	561	270	917	5438	603	248									
7 C	967	5216	1417	1584	674	3455	1770	1968	7 C	1065	6077	954	663	775	4464	1097	987									
8 C	909	5254	1018	797	592	3330	1322	1003	8 H	818	5078	937	857	678	4081	1210	1152									
9 H	913	5374	705	586	573	3341	872	651	9 C	887	5113	1139	771	610	3625	1601	982									
10 H	835	4694	802	619	540	3057	924	783	10 H	690	4261	817	639	492	3441	1124	687									
11 H	818	4361	1410	802	551	3033	1717	969	11 H	515	3089	885	671	361	2183	1094	698									
12 H	915	4986	1505	1025	624	3348	1487	1272	12 H	345	1883	851	1504	274	1515	1021	835									
13 C	854	4296	1355	1008	595	3035	1524	1318	13 H	217	1365	1534	672	223	1481	1674	907									
14 H	741	3923	835	726	579	3156	1018	854	14 H	139	840	1439	822	160	1060	1622	1176									
15 C	597	3356	644	665	412	2396	958	772	15 H	155	980	846	573	209	1546	1255	803									
16 H	586	3062	534	894	473	2559	599	1275	16 H	231	1689	663	1328	229	1657	981	1597									
17 H	575	2828	938	1145	525	2562	1187	1391	17 C	372	2432	1024	1198	290	1966	1058	1384									
18 H	437	2673	458	556	434	2782	695	577	18 H	480	3198	1125	1046	341	2268	1471	1174									
19 H	370	2217	326	904	350	2227	589	1029	19 H	578	4039	866	1128	361	2487	1212	1568									
20 H	414	2151	556	687	250	1316	647	809	20 H	779	4592	315	1068	473	2857	472	1392									
21 C	423	2241	654	581	236	1256	798	710	21 H	828	4823	711	1594	565	3287	914	2120									
22 C	487	2839	764	1113	308	1811	938	1467	22 H	752	5353	429	791	510	3474	498	846									
23 H	572	3316	827	774	358	2138	1101	1107	23 H	769	4715	996	1142	570	3448	1119	1348									
24 C	570	3346	531	1092	365	2255	616	1594	24 H	529	3516	690	486	393	2680	1014	599									
25 C	699	3827	879	1261	483	2696	1031	1552	25 H	609	3901	1469	881	527	3544	1676	1227									
26 H	574	3515	949	1177	450	2706	1198	1362	26 H	674	4058	1662	972	641	3796	2082	1465									
27 H	332	2233	975	998	273	1925	1251	1099	27 H	683	4214	587	1029	504	3327	953	1267									
28 H	231	1781	603	428	236	1768	831	579	28 H	972	5799	463	1334	730	4487	628	1490									
									29 H	1144	7015	937	1345	816	5052	1030	1491									
									30 H	1138	7185	1702	1305	706	4565	2066	1328									

TOTAL AREAS OF SUNSPOTS AND FACULÆ FOR EACH DAY IN THE YEAR 1958

Projected Area				Corrected Area				Projected Area				Corrected Area			
Date and Place	Urb.	Whole Spots	Faculæ West East	Urb.	Whole Spots	Faculæ West East		Date and Place	Urb.	Whole Spots	Faculæ West East	Urb.	Whole Spots	Faculæ West East	
MAY								JULY							
1 H	1346	7915	1521 578	925	5450	1872 727		1 C	466	2762	549 930	362	2246	641 1177	
2 H	1316	7068	715 568	888	4736	990 680		2 H	550	3429	764 901	457	2909	959 1151	
3 H	1450	7759	250 830	924	5073	437 1043		3 H	705	4078	1082 1264	541	3180	1300 1659	
4 H	1116	7069	625 771	790	4887	704 944		4 H	769	4513	1023 1068	562	3430	1326 1338	
5 H	1026	6270	1021 431	742	4703	1214 595		5 C	759	6032	538 1043	470	3741	989 1226	
6 Mt. W	717	4267	1240 114	547	3224	1648 144		6 C	817	4954	269 594	516	3088	337 657	
7 H	749	3925	1634 737	640	3539	2135 952		7 H	815	4646	632 828	539	3130	768 1004	
8 H	544	3057	1022 318	435	2946	1381 548		8 H	726	4535	921 598	482	3036	951 779	
9 H	475	2594	1260 489	356	2229	1762 719		9 H	736	4198	1005 728	528	2995	1161 853	
10 C	458	3036	475 630	350	2566	661 753		10 H	786	4381	2217 728	586	3242	2789 884	
11 H	468	3022	885 637	373	2450	1105 753		11 H	554	3726	1409 624	456	3042	1677 771	
12 H	462	2712	1119 959	405	2385	1411 1113		12 H	352	2399	1229 702	400	2689	1516 932	
13 H	339	2455	935 855	311	2328	1319 1222		13 K	344	2078	684 815	385	2195	861 1189	
14 H	333	2066	877 1038	284	1667	1046 1196		14 H	442	2218	1466 1063	354	1855	2014 1394	
15 H	373	2113	1084 1300	275	1564	1415 1478		15 H	593	3090	543 820	408	2129	720 983	
16 H	394	2319	536 1004	276	1645	817 1239		16 H	666	3898	873 1345	391	2270	1066 1612	
17 C	448	2396	508 1062	325	1833	704 1517		17 H	793	4528	601 820	448	2524	850 977	
18 H	489	3086	661 695	336	2176	824 825		18 H	770	4293	358 751	438	2451	522 879	
19 H	588	3386	913 1209	415	2414	1022 1360		19 H	890	4826	462 600	676	3677	452 741	
20 H	575	3195	639 388	424	2439	938 496		20 H	724	4328	704 913	550	3413	823 1340	
21 H	527	3126	1003 1402	418	2557	1629 1839		21 H	731	4140	693 2011	670	4155	1087 2774	
22 H	530	2852	627 1197	370	2019	803 1692		22 H	678	3748	641 1718	611	3488	813 2067	
23 H	541	2853	763 1174	394	2398	829 1591		23 H	518	3523	528 632	456	3213	647 793	
24 H	551	2999	1481 1334	486	2671	1826 1706		24 H	648	4312	460 391	501	3417	765 557	
25 H	496	2890	1640 1665	363	2214	2125 1932		25 H	800	4407	414 978	582	3201	412 1347	
26 H	416	2554	1179 1042	304	1832	1574 1234		26 H	806	4774	599 760	518	3127	747 890	
27 H	429	2502	1111 1202	343	1982	1386 1587		27 C	1020	6355	814 1304	630	3971	1104 1635	
28 H	417	2599	974 1248	313	1917	1282 1649		28 C	1020	6946	881 1439	625	4274	1135 1887	
29 K	339	2200	789 830	264	1693	1064 1236		29 H	936	6081	461 1047	724	4676	746 1378	
30 H	616	3477	526 1064	419	2355	648 1437		30 H	949	6423	957 1059	768	5121	1027 1315	
31 H	596	3088	675 1270	392	2050	892 1407		31 H	1168	7158	1316 1099	963	6015	1699 1339	
JUNE								AUGUST							
1 H	592	3308	1065 1329	391	2221	1271 1493		1 H	1057	6471	1420 790	664	4171	1872 1005	
2 C	550	3162	610 765	347	1983	676 792		2 H	793	5043	1121 699	510	3399	1519 918	
3 H	465	2937	1145 469	361	2406	1427 729		3 C	666	4244	822 621	464	3064	1116 805	
4 H	656	4123	1111 893	641	4452	1427 1212		4 H	523	2646	1306 1224	384	2008	1467 1513	
5 H	711	4815	1169 1649	688	4870	1705 2084		5 C	380	2599	501 577	320	2277	606 712	
6 H	698	5135	778 1419	581	4360	1209 1535		6 H	725	3846	1135 767	547	3212	1538 961	
7 H	682	5331	686 905	514	3929	949 1081		7 H	640	3774	1179 755	522	3134	1530 1123	
8 H	976	6241	1157 802	678	4340	1388 894		8 C	648	4779	1111 1089	477	3460	1318 1288	
9 H	925	5789	1111 665	602	3801	1388 855		9 C	899	5073	1188 1066	679	3910	1678 1445	
10 H	714	5194	1088 629	496	3608	1473 848		10 H	1051	5386	1190 836	696	3709	1446 997	
11 H	666	4623	668 954	426	2962	897 1409		11 H	831	4833	604 421	574	3294	804 560	
12 C	491	3106	614 813	408	2464	725 1017		12 H	738	4268	821 707	492	2910	1117 874	
13 H	553	3142	1404 1139	482	2742	1461 1364		13 H	604	3818	308 366	437	2807	387 517	
14 H	424	2633	2197 726	394	2426	2445 978		14 C	687	3954	1166 699	476	2751	1455 854	
15 H	365	2172	1139 806	330	2002	1480 861		15 H	513	3161	617 387	480	2979	769 766	
16 H	301	1895	1495 645	204	1348	2073 864		16 H	650	3445	844 900	695	3817	1089 1284	
17 H	344	2046	624 879	233	1498	883 1076		17 H	502	2766	763 946	526	2937	1070 1071	
18 H	351	2208	440 786	212	1339	689 1063		18 H	504	3083	1299 1401	471	2901	1827 1969	
19 C	400	2688	223 357	247	1668	220 535		19 H	428	3139	570 1004	277	2034	768 1189	
20 H	362	2375	681 1375	260	1713	814 1993		20 H	548	3574	638 468	320	2067	884 575	
21 H	422	2405	1293 1548	314	1769	1574 1869		21 H	611	4161	319 730	370	2544	505 1156	
22 H	391	2415	738 1630	298	1821	914 1988		22 H	543	4001	399 1060	358	2440	391 1322	
23 H	348	2222	484 1283	385	2277	571 1474		23 C	514	4044	663 1171	327	2502	745 1532	
24 H	404	2903	520 1108	367	2622	691 1576		24 C	437	3506	740 1127	290	2430	1090 1702	
25 H	508	3462	393 1120	376	2558	577 1204		25 H	626	3627	969 1481	457	2613	986 2111	
26 H	570	3812	670 1074	383	2565	825 1383		26 H	593	3348	821 1743	489	2773	850 2007	
27 C	516	3323	649 997	309	2031	850 1153		27 H	503	3201	1711 1767	504	3322	1998 2006	
28 C	555	3148	492 651	371	2052	650 759		28 H	441	2613	1140 1208	378	2408	1385 1557	
29 H	548	2992	994 431	359	2210	1100 952		29 C	515	3338	506 803	373	2480	746 1005	
30 C	426	2600	873 650	300	1972	1106 938		30 H	909	5202	306 692	497	2841	383 858	
								31 C	785	5000	541 972	421	2679	699 1043	

TOTAL AREAS OF SUNSPOTS AND FACULÆ FOR EACH DAY IN THE YEAR 1958

Date and Place	Projected Area				Corrected Area				Date and Place	Projected Area				Corrected Area			
	Unb.	Whole Spots	Faculæ West	East	Unb.	Whole Spots	Faculæ West	East		Unb.	Whole Spots	Faculæ West	East	Unb.	Whole Spots	Faculæ West	East
SEPTEMBER									NOVEMBER								
1 H	892	5197	682	523	497	2903	823	695	1 H	690	4614	902	1078	407	2745	1306	1232
2 H	1010	6061	761	1024	648	4023	1016	1472	2 C	903	5142	596	990	506	2905	683	1102
3 H	941	5701	749	1953	721	4564	937	2572	3 H	786	3904	616	451	466	2358	703	730
4 H	812	4596	1237	1316	711	4026	1534	1636	4 C	803	4796	297	667	495	3126	338	1081
5 H	662	3857	1748	1204	616	3764	2104	1208	5 C	598	3970	1060	752	394	2615	1277	899
6 H	428	2687	1772	795	366	2399	2601	1069	6 C	443	3154	689	541	325	2303	950	613
7 H	400	2641	897	681	295	2154	1357	1009	7 H	381	2021	1436	329	366	1944	1610	499
8 H	473	3004	938	1051	334	2118	1176	1315	8 H	202	1463	975	845	278	2079	1284	1150
9 H	584	3487	564	983	347	2059	762	1295	9 H	88	617	1007	1599	148	1095	1493	2087
10 H	699	3802	599	1029	460	2607	771	1284	10 H	86	514	946	1672	81	503	1080	1971
11 H	793	4526	406	1107	608	3527	431	1756	11 H	82	561	770	2087	77	569	982	2242
12 H	786	4751	1028	1277	697	4298	1043	1625	12 H	88	525	405	1478	65	420	631	1825
13 H	809	4900	1056	1384	830	5050	1230	1606	13 H	81	430	54	699	58	290	45	916
14 H	880	5333	1408	990	773	4773	2115	1133	14 H	59	411	1106	1053	36	255	1195	1225
15 H	947	4963	360	866	686	3627	617	1093	15 H	80	388	724	503	72	322	1022	761
16 H	1028	6135	710	1148	662	4016	777	1186	16 H	120	570	713	1161	85	413	1193	1459
17 H	1103	6341	664	1001	679	3930	724	1034	17 C	111	500	190	307	73	326	177	310
18 H	984	5953	1563	495	599	3592	1762	627	18 H	155	817	1269	514	132	860	1473	698
19 H	833	4637	1126	247	507	2809	1245	325	19 H	193	968	888	679	196	981	1079	933
20 H	700	4005	427	270	488	2801	697	317	20 H	193	1245	1220	1100	166	1063	1432	1363
21 H	700	4076	963	560	549	3128	1099	767	21 H	285	1529	1002	1155	196	1024	1215	1264
22 H	800	4205	1226	1159	720	3982	1593	1617	22 C	426	2463	420	315	249	1446	453	444
23 H	614	3810	820	911	558	3589	972	1308	23 C	379	2728	714	598	224	1674	953	934
24 H	685	3674	574	799	645	3305	614	1020	24 C	523	3263	346	841	363	2351	551	1245
25 H	698	4025	933	1271	614	3750	1327	1554	25 C	612	4063	409	1249	468	3077	438	1638
26 H	739	4201	907	615	489	2943	1337	694	26 C	865	4930	725	1207	575	3290	881	1543
27 H	886	4233	303	819	542	2619	356	924	27 C	1023	6231	315	745	653	4021	443	921
28 H	857	4641	683	448	501	2763	763	612	28 H	999	5605	709	1144	704	3889	781	1396
29 Mt. W	972	4102	871	685	568	2403	1064	782	29 C	807	5249	777	629	546	3640	857	731
30 H	738	4305	836	1918	461	2696	957	2316	30 H	1310	7429	1353	770	824	4753	1442	804
OCTOBER									DECEMBER								
1 H	755	4176	728	1287	510	2795	765	1487	1 H	912	6379	381	337	620	4345	520	363
2 H	547	3625	848	512	415	2698	1024	579	2 H	834	5944	1167	1122	555	3880	1512	1533
3 H	514	2951	725	502	397	2403	835	923	3 C	719	5239	535	819	477	3515	670	1089
4 H	417	2625	1194	748	421	2760	1538	1082	4 H	782	4595	1009	867	545	3395	1141	1057
5 H	309	1853	1483	1059	318	2077	1918	1442	5 H	900	6242	1482	927	664	4650	1691	955
6 H	227	1421	613	1138	191	1171	836	1302	6 H	885	5594	575	705	700	5027	832	1095
7 H	275	1475	401	691	239	1247	699	819	7 C	951	5991	640	1197	726	4533	954	1524
8 H	206	1211	278	455	130	758	343	647	8 H	1025	6389	510	1063	745	4521	641	1197
9 H	222	1288	1243	688	132	774	1421	895	9 H	1095	7369	1058	555	766	5172	1219	640
10 C	163	1140	1211	961	105	764	1615	1297	10 H	984	6303	569	755	663	4203	687	822
11 H	287	1812	699	1810	391	2499	945	2358	11 H	1090	7193	509	977	614	4121	797	1077
12 H	388	2400	533	1732	400	2451	677	2134	12 C	1120	7517	230	84	642	4293	349	100
13 C	463	2869	312	1236	388	2443	427	1385	13 C	912	5706	345	690	531	3306	371	864
14 H	534	2894	545	1132	428	2457	613	1293	14 H	919	5962	1057	808	576	3654	1082	953
15 H	514	3561	600	689	366	2769	778	940	15 C	731	3955	972	773	469	2557	1264	919
16 H	809	4639	477	588	560	3192	648	698	16 H	413	3599	814	473	314	2661	942	614
17 H	1012	6567	712	754	722	4580	766	1003	17 H	397	2770	1353	858	398	2745	1787	1072
18 H	933	7075	751	573	624	4692	809	654	18 H	336	2217	1122	681	264	1749	1574	869
19 C	982	7284	839	559	608	4459	1040	731	19 H	308	2077	1159	706	224	1466	1457	952
20 H	943	6621	1436	673	601	4171	1777	1045	20 H	237	1641	757	1079	175	1254	1067	1276
21 H	955	5989	1645	1359	617	3744	1814	1680	21 C	256	1628	628	1452	255	2056	791	1827
22 C	814	5161	1380	856	554	3353	1624	936	22 H	336	2318	270	970	407	3083	334	1421
23 H	783	4532	1502	673	537	3260	2308	932	23 H	483	3504	283	992	441	3350	375	1244
24 H	526	3198	617	485	367	2333	968	591	24 H	522	3963	575	1323	428	3070	707	1566
25 H	521	3084	397	509	367	2236	456	633	25 C	577	3541	324	878	413	2532	509	1085
26 K	400	2005	686	1093	332	1666	862	1603	26 C	820	5158	449	867	551	3389	444	981
27 C	344	2214	373	480	331	2101	467	586	27 H	687	4639	518	496	438	2875	733	644
28 H	475	2836	704	1397	494	2964	1114	2078	28 C	704	4009	686	676	450	2554	949	808
29 H	516	3262	704	1463	418	2612	722	1783	29 H	558	3727	1221	440	357	2360	1399	580
30 C	390	3143	905	1663	293	2442	908	1918	30 H	433	2685	572	280	280	1763	824	331
31 H	547	3768	792	792	396	2638	1115	923	31 C	445	2995	488	821	310	2107	618	1146

MEAN AREAS AND MEAN HELIOGRAPHIC LATITUDE OF SUNSPOTS AND FACULÆ
for each rotation of the Sun and for the year

MEAN AREAS OF SUNSPOTS AND FACULÆ FOR EACH ROTATION OF THE SUN,
FROM 1958 JANUARY 13 TO 1959 JANUARY 2

The mean areas have been formed by taking the means of the areas for each day of observation throughout each rotation of the Sun, the projected areas being the areas as measured on the photographs and expressed in millionths of the Sun's apparent disk, and the areas corrected for foreshortening being expressed in millionths of the Sun's visible hemisphere.

The rotations adopted in the following table (which is in continuation of those for the years 1873-1957; see *R.O. Bulletin* No. 26, page C 182, 1961) 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 of the Sun's equator on the ecliptic 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 U.T.

No. of Rotation	Rotation Commenced	Days Photo- graphed	Mean Projected Daily Area			Mean Corrected Daily Area		
			Umbræ	Whole Spots	Faculæ	Umbræ	Whole Spots	Faculæ
1396	1958 January 12.96	27	690	3945	1852	497	2870	2332
1397	February 9.30	28	647	3771	1656	479	2861	2057
1398	March 8.64	27	1056	6427	1712	785	4873	2164
1399	April 4.94	27	720	4380	1898	530	3289	2312
1400	May 2.20	28	592	3442	1825	441	2646	2360
1401	May 29.42	27	537	3441	1891	409	2651	2374
1402	June 25.61	27	640	3803	1741	465	2804	2212
1403	July 22.82	27	751	4562	1733	562	3472	2248
1404	August 19.04	27	653	4048	1952	480	3015	2484
1405	September 15.30	28	628	3546	1704	461	2655	2131
1406	October 12.58	27	640	4065	1651	453	2896	2077
1407	November 8.87	27	471	2942	1712	328	2076	2113
1408	December 6.18	28	665	4303	1566	484	3178	1982

MEAN AREAS OF SUNSPOTS AND FACULÆ FOR THE YEAR

The mean projected areas are expressed in millionths of the Sun's apparent disk.

The mean areas corrected for foreshortening are expressed in millionths of the Sun's visible hemisphere.

Year	Days Photo- graphed	Mean Projected Daily Area			Mean Corrected Daily Area		
		Umbræ	Whole Spots	Faculæ	Umbræ	Whole Spots	Faculæ
1958	365	667	4051	1765	489	3016	2225

MEAN HELIOGRAPHIC LATITUDE OF SUNSPOTS FOR EACH ROTATION OF THE SUN,
FROM 1958 JANUARY 13 TO 1959 JANUARY 2

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 the mean heliographic latitude of spotted area north of the 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 of all spots the numerical sum of the products, without regard to the sign of 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	Rotation Commenced		Days Photo- graphed	Northern Spots		Southern Spots		All Spots	
				Mean Daily Area	Mean Hel. Lat.	Mean Daily Area	Mean Hel. Lat.	Mean Hel. Lat.	Mean Dist. from Equator
1396	1958	January	12.96	27	1378	19.07	1492	15.48	+ 1.11 17.20
1397		February	9.30	28	1034	17.13	1827	16.65	- 4.44 16.82
1398		March	8.64	27	2627	20.82	2246	15.79	+ 3.94 18.50
1399		April	4.94	27	1903	17.53	1386	18.29	+ 2.43 17.85
1400		May	2.20	28	1392	20.63	1254	15.89	+ 3.33 18.39
1401		May	29.42	27	2047	25.33	604	18.72	+15.29 23.82
1402		June	25.61	27	1494	17.83	1310	18.74	+ 0.75 18.25
1403		July	22.82	27	1429	18.77	2043	15.26	- 1.25 16.70
1404		August	19.04	27	1359	18.58	1655	12.55	+ 1.49 15.27
1405		September	15.30	28	842	18.80	1814	15.96	- 4.94 16.86
1406		October	12.58	27	821	19.67	2075	12.79	- 3.59 14.74
1407		November	8.87	27	775	16.21	1300	13.89	- 2.65 14.75
1408		December	6.18	28	1250	15.08	1928	11.56	- 1.08 12.94

MEAN HELIOGRAPHIC LATITUDE OF SUNSPOTS FOR THE YEAR

Year	Days Photo- graphed	Northern Spots		Southern Spots		All Spots	
		Mean Daily Area	Mean Hel. Lat.	Mean Daily Area	Mean Hel. Lat.	Mean Hel. Lat.	Mean Dist. from Equator
1958	365	1407	19.21	1609	15.26	+0.82	17.10

SUMMARY OF SOLAR ACTIVITY FOR THE YEAR 1958

The chief features of the record for 1958 are as follows:-

(1) Activity remained at a very high level and although the mean daily area was slightly below that of 1957, the number of groups, including one-day spots, exceeded the total for that year.

(2) The largest spot group crossed the Sun's central meridian on June 10.1 in latitude 28° North; its mean area was 1587 millionths.

In addition, there were 50 other groups with mean areas exceeding 500 millionths, including 12 with mean areas exceeding 1000 millionths.

(3) On no day was the Sun free from spots or faculæ.

(4) The ratio of mean corrected areas of faculæ/sunspots was 0.74 and that of mean corrected areas of umbræ/whole spots 0.162.

(5) Although the southern hemisphere was more spotted than the northern, the mean latitude of spots in the latter was higher.

The number and distribution, northern and southern hemispheres, of spot groups of

(a) two days' duration or longer

(b) one day's duration

were as follows:-

	(a)	(b)
Northern spots	354	137
Southern spots	307	100
Total	661	237

(6) The following table gives the mean daily areas of sunspots (projected and corrected values) and faculæ (corrected only) for each calendar month.

Month	Spots		Faculæ Corrected
	Projected	Corrected	
Jan.	4034	2998	2403
Feb.	3489	2547	2200
Mar.	5745	4438	2092
Apr.	4812	3603	2328
May	3576	2708	2357
June	3407	2600	2315
July	4412	3287	2240
Aug.	3934	2899	2283
Sept.	4462	3341	2322
Oct.	3422	2597	2200
Nov.	2690	1878	2066
Dec.	4544	3232	1898

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